

**THE ECONOMIC IMPACT
OF
HIGHER EDUCATION ON HOUSTON:

A CASE STUDY
OF
THE UNIVERSITY OF HOUSTON SYSTEM**

**Prepared by
The Institute for Regional Forecasting
University of Houston**

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I. INTRODUCTION

The Primary Mandate Of A Local University

Educating the Populace

A large nationally recognized university is a complex organization providing a wide variety of highly differentiated services to a region. Focusing on a single aspect of such an institution may provide insights regarding a particular community need, but it will miss the forest for the trees. Most major cities have a multitude of institutions of higher learning and together they provide a culture of learning within the overall community that is difficult to describe, in part because the whole is always significantly greater than the sum of the individual parts. Typically, individual institutions have their own particular strengths, specializations, and comparative advantage. Together they provide an environment of higher education that can transform a population into one that is cosmopolitan, energized with ideas, prepared to provide service to both the public and private sectors, and more capable of producing for themselves personal incomes commensurate with a high quality of life.

A primary role of a major urban university is, of course, to provide education services to the local population. With a population near 5 million in Houston and an average 55,000 high school graduates per year, just meeting this objective locally is a daunting task. The need for post-secondary education is far greater today than it has ever been. The dramatic ascendancy of the high tech sectors in the local and national economies and the shift in both of these economies induced by the expansion of free trade from consumer goods production to capital goods production means we are dependent upon labor with knowledge based skills, the type most readily available from quality institutions of higher education.

Enhancing a Region's Human Capital

In addition to the obvious benefits to individuals within the community, the regional economy receives benefits in a more macro-economic way. A portion of the product of any area's universities becomes a part of the region's stock of human capital. The term human capital is economists' jargon for the sum of the skills, knowledge and know-how that are embedded within the regional labor force. Today's metropolitan areas can only thrive and grow if they have ample access to a labor force with high levels of human capital. This need is what drives cities such as Atlanta to regularly commission studies to assess both the link between their economic development and higher education and to identify the local deficiencies in the production of human capital which need to be remedied.¹

In evaluating the state of a region's higher education facilities one should be careful to avoid the simple numbers game. It is easy to simply count the number of students attending a "college" in a region, but this education must lead to useful terminal degrees indicative of a quality education that is applicable to the needs of today's modern economy. Thus, while the proliferation of community colleges throughout America can be an important tool in ameliorating the education gap in America, ultimately students must receive training at major institutions of higher learning where the learning process is being fully pursued, including state-of-the-profession research activities and university-private sector synergies.

Indeed, it is becoming more obvious that not all degrees are equal. More and more private sector leaders are complaining that many American educated students are inferior to foreign imports and they have revealed their strongly held opinions by hiring practices which show a strong preference for graduates from abroad, especially in the sciences, mathematics, and computer sciences. Thus, every urban area is not just dependent upon

¹These particular studies were produced and disseminated by the Atlanta Regional Council for Higher Education.

the number of colleges and universities within its borders, but upon the quality of those institutions in terms of recognized scholarship and expertise of its faculty and its students and graduates. Thus, a city such as Boston can not only take pride in the number of institutions of higher education within its region, but also the quality of those institutions. It is for this reason that the State of Illinois recognized that, despite the presence of several stellar private universities in the Chicago area, the city desperately needed to adequately fund a major public university with academic credibility.

The Spillover Benefits From Research Oriented Universities

Synergism of Research

Universities do more, however, than merely educate the populace. Major research universities produce, as a by-product of their academic research, knowledge and discoveries directly useful to the local private sector. Typically, the research advances within a community are not just random discoveries. They are often a reflection, not only of a general search for knowledge within the world community, but of the needs of the local region as well. It is not surprising, therefore, to see a concentration of knowledge of forestry in Oregon universities, marine science at the University of Washington, robotics engineering in Michigan universities, or chemistry and geology in Texas. Thus, the relationship between a university and the community of which it is a part becomes a symbiotic one. For example, Houston was the perfect place to conduct research in urban economics and planning, which was good for Rice University and the University of Houston, and the research they produced became a critical input to planners in both the local private and public sectors.

Often the symbiotic links become so strong that formal partnerships are formed between the academic and non-academic communities. The partnerships may take the form of joint ventures, cooperative research efforts, the sharing of personnel and equipment, or the sharing of research and testing costs. The presence of this type of environment not only benefits the firms that are already within the region, but makes the

region more attractive to firms considering moving there. Indeed, the presence of quality universities acts as an “attractor” for new businesses. They provide access to state of the art expertise relevant to private sector firms, and foster a general culture of knowledge that emanates from the academic community, attracting both firms and the individuals they wish to hire.

Today, more and more of America’s young educated population want to live in areas that offer low costs and valued amenities. While large urban areas find it difficult to compete with more pristine areas in terms of natural amenities, they have a significant comparative advantage when it comes to knowledge- and arts-based amenities that urban areas provide, amenities that are greatly augmented by the presence of quality institutions of higher education.

Community Service

Beyond direct support of the regional for-profit economy, area universities typically become involved in community services. More than a century ago, when America was still primarily rural, the nation recognized the need to link academic pursuits with the agricultural sector by establishing land-grant colleges and by providing continuing financial support for agricultural extension services. In today’s more urban and industrialized America, the need to broaden the scope and vision of extension services to urban America has never been greater. Fortunately, most cities have universities that see that as a part of their role. This is especially true of the nation’s major public urban universities which have accepted public service to the local community as a part of their mandate.

Such community service is not a simple matter of academic altruism, but an extension of the teaching responsibility of these institutions. Academic theory can be rather abstract to most students and appear irrelevant to the real world they soon will face unless those students get their feet wet with practical experience. Thus, programs and institutes within universities proliferate to give students a chance to apply their new

knowledge to real world problems. Service to the community is also beneficial to faculty, connecting their work to the most pressing problems faced by their non-academic counterparts. Community service makes for better researchers and more relevant teachers.

Often community service comes in the form of direct participation in particular programs from helping local impoverished households to aiding primary and secondary education. Equally often, community service comes in the form of sporadic, but critical expertise to metropolitan governments and community organizations, even to the level of individual neighborhoods. In some cases the tasks require the knowledge and experience of faculty. In other cases the tasks are perfectly suited for student internships.

However this service manifests itself, the bottom line is that the academic community associated with high quality research institutions becomes a deep reservoir of expertise that the non-academic community can tap. Given the challenges of urban society and the fiscal limitations imposed upon this nation's hierarchy of governments, the university community often becomes the only economically viable source of help for the metropolitan area.

II. MEASURING THE IMPACT OF LOCAL UNIVERSITIES

The Nature Of Impact Analysis

Economic Stimulus from "Outside" Spending

While the primary motive and rationale for vibrant higher education should not be the direct dollars it brings into the community, these benefits are also an important spillover to an urban region. For "college towns" the impact is obvious. The town's very existence revolves around the university. For a large urban area the impact is less obvious. Yet, an urban area's universities do provide significant stimuli to the local economy by bringing outside dollars into the region that are then further spent locally throughout most other sectors. As we will see, these "outside dollars" come from students who attend from outside the region, from direct and indirect support from

governments outside the region, and from gifts and grants for research or programs that come from sources beyond the local borders.

In a similar fashion, local universities can “save” local dollars by educating local students and thereby diverting what otherwise might have been spent by local residents for education at out-of-town universities by spending it on locally provided education. This is called “import substitution” by regional economists and for urban areas where the demand from stay-at-home students is quite high, this economic impact upon a metropolitan area can be substantial.

With/Without Perspective

Analysts have attempted to estimate the impact of exogenous events for decades.² In many cases, past studies have erroneously compared outcomes before some new economic activity versus outcomes after that activity has occurred or begun. Examples include the comparison of economic growth rates before and after tax or spending changes, property values before and after neighborhood improvements, and environmental changes before and after industrial development.

The error with this type of approach is that it fails to isolate the impact that can be directly attributable to particular economic activities from other influences that will produce change anyway. For example, studies of the benefits of fish hatcheries from a before/after perspective often prove quite disappointing, documenting little if any increase in the stock of fish within a particular river or lake. But, this doesn't mean that the fish hatcheries and the release of hatchery bred fish into these bodies of water didn't have an impact. The relevant question is how does the new level of fish in these streams or lakes compare with the level that would have been observed had the fish hatcheries not existed? Such a comparison is referred to by economists as the with/without perspective

² The term exogenous means spending that is determined outside the workings of the local economy and hence independent of internal growth of the local economy itself.

and is the starting framework for all cost-benefit analyses in the economics and public administration literature.

The Economics Models For Impact Analysis

The Need for Modeling

Since in *ex post* studies the without world is not observable, impact analyses require the ability to estimate or forecast what would have occurred in the absence of any new activity, project or facility. In the hatchery example above, the question that needs to be answered is what would the stock of fish have done over time in the absence of the fish hatcheries. This requires some form of scientific modeling capable of forecasting the trends in fish population. If the study to be performed is an *ex anti* analysis, then the model utilized must have the capability to “forecast” fish populations under both the “with” and “without” scenarios.

In the case of economic development, policy makers might ask what might be the impact of the relocation of a major firm to the local region in terms of jobs, real incomes, local sales, and perhaps governmental tax collections. Once again, this cannot be answered without the ability to forecast and compare the economic outcomes without the relocation versus the outcomes with the relocation. The application of simple before/after analysis can seriously bias the result either positively or negatively. If in the case of the fisheries, the stock of fish was going to rise anyway, then the minimal gain in the stock of fish overestimates any benefit of the hatcheries. If, on the other hand, the stock of fish was expected to fall substantially in further years without the hatcheries, then simply maintaining the fish stock status quo would constitute a significant benefit.

The Economists' Choice: Input/Output Models

Virtually all economic analyses of impacts utilize a form of economic models referred to as “input-output” models. These models link all sectors within an economy

with each other and with outside (exogenous) demands that influence those sectors. As a consequence they are often referred to as “demand-driven” models.

A local economy can be divided into economic base sectors and secondary sectors. The former sells goods and services outside the region, while the latter sells goods and services only to local households and businesses within the region. For any community needing imports, exports are required to bring in the dollars needed to acquire those imports.³ Indeed, such regions cannot exist without exports and cannot grow without an increase in the sale of their exports. Because at the regional level the demand-driven models (like Keynesian models) are so focused upon exports to areas outside the region, they are also referred to as export-based models. The export sectors can either be defined in terms of the flow of goods and services (where their products go) or in terms of where their revenues come from (whether their sales emanate from outside the region, bringing “outside dollars” into the region). It is only with the application of such models that one can attempt to pursue with/without perspective analyses.

Basics Of The Standard Demand-Side Approach

Identifying Exogenous Spending

The demand-side approach, utilizing demand-side input-out models, is quite straight-forward and very well documented in the economics literature. The first step in this type of analysis is to identify all of the exogenous increases in spending within the community that are associated with any particular economic activity. For Houston, oil prices would be an exogenous variable or determinant of local economic activity and the upstream energy sector would be a part of the region’s economic base. For the city’s institutions of higher education, revenues earned from outside the region, bringing outside dollars into the region, would be considered exogenous sales or demand and constitute a

³A vast amount of the consumption of urban residents emanates from the import of goods and services from other regions, thus requiring a substantial amount of exports in order to support the urban population.

part of the region's overall "economic base". An increase in those revenues would be stimulative to the overall regional economy.

The identification of exogenous spending is not always easy. During the 1980s and 1990s a host of nation-wide studies were conducted regarding the economic impact of new sports venues in American cities. Often these studies erroneously took as the increase in demand the total sales for tickets, concessions, and after-event spending at local establishments such as restaurants.⁴ But, obviously, this is inconsistent with the basic definition of exogenous spending, because many of those expenditures emanated from local residents and would have been spent upon other local goods and services had they not been spent on a sports event. The real question becomes how much of the event related expenditures is new spending, bringing in outside dollars which would not have otherwise occurred in the absence of the new venue (the with/without perspective). In this case it would require a detailed accounting of (1) how many out-of-towners are expected to attend each event and hence bring "outside dollars" into the community; and (2) how much of the spending at these events by locals might have otherwise been spent on "imports" - goods, services, travel, etc. For promoters of some particular activity or facility, this correct approach is often disappointing because it usually reduces estimates of the overall impact considerably below their exaggerated expectations.

The Multiplier Effect

However, the impact does not end with the direct increase in exogenous spending. Once correctly identified, the outside dollars brought into the community produce an impact significantly greater than their totals alone imply. That's because a portion of every one of those new outside dollars generated locally will get spent again on local goods and services by households who obtain a share of the original gain from increased wages and from businesses which spend some of the revenues on local inputs required to

⁴Note that in the example above, expenditures by visitors to a local sports venue are considered "exports" since outsiders are buying services from local providers.

produce the product or service they are exporting. In fact, the process will continue as these secondary sales produce additional tertiary sales and so on. The process ends only because each dollar of new local income is not all spent locally, but also on imports.

The ultimate equilibrium of new local spending is referred to as the “induced impact” and the “total impact” is the sum of the “direct” and the “induced” impacts. The ratio of the total impact to the direct impact is referred to as the multiplier. Thus, if the multiplier were 2, then for every \$100,000 of new exogenous spending within the community, there would ultimately be a total increase in regional sales of \$200,000. Multipliers can also be defined in terms of employment, so if the employment multiplier were 3, then the addition of a new firm into a region which is expected to hire 100 new workers would ultimately produce a net increase in 300 total regional jobs.

III. IMPACTS OF THE UNIVERSITY OF HOUSTON SYSTEM

Looking Beyond The University Of Houston System’s Budget

The Direct and Indirect Impacts

Consider the economic impact of the University of Houston System, which has a large annual budget comparable to a large corporation. Much of that budget stems from outside sources and hence represents a true stimulant to the regional economy. The portion of the budget identified as truly exogenous represents the direct impact of the System’s universities. However, a large portion of that budget is spent on regional resources such as labor, operating materials, and locally produced capital equipment; and the households and businesses receiving this income will themselves re-spend at least a portion of that income on local goods and services. The total net effect is the initial dollars brought in by the University of Houston System plus the secondary “induced effects” as the money continues to circulate throughout the economy.⁵

⁵ The UH System includes four universities: UH, a major research university; UH-Clear Lake and UH-Victoria, upper-division universities; and UH-Downtown, a predominately undergraduate university. In

The Exogenous Component of System-Related Spending

But, not all of the university's budget and the accompanying expenditure of students are exogenous, emanating from outside sources. Thus, the first step is to isolate those sources of revenue that are truly exogenous and bring in outside dollars.

Identifying outside dollars first requires a definition of outside and inside. The economic impact of the University of Houston upon the State of Texas will be different than upon the metropolitan area of Houston. In the former case, state monies provided the UH System are inside (or internal) dollars and do not provide stimulus to the state economy. In the latter case, that same expenditure represents outside dollars that would not have otherwise been brought into the community (the Houston Metropolitan area) and hence produces a real economic effect upon the region including the multiplier expansion. From the region's perspective, state funding and research support would entail the transfer of outside dollars. Spending by students from outside the region and research and educational grants emanating from outside the region would also be considered a flow of outside dollars.

Import Substitution

In general support from local agencies or foundations, or expenditures by local students would not be considered outside dollars. However, it might be argued that if it weren't for the UH System universities, a portion of those "internal dollars" would otherwise have been spent outside the region. Hence, the recapture of those dollars back into the region will produce the same type of economic impact as a direct flow of new dollars from outside sources (import substitution). These dollars are; therefore, also included in the direct impact of the universities.

terms of regional impact, UH-Victoria is actually within a different economic region from the rest of the UH universities, but the interconnections between Victoria and the Houston region are quite strong and the percent of UH-Victoria students participating in the Houston economy after graduation is high.

The Region Without The University Of Houston System

In proceeding to do an economic impact analysis of the University of Houston System one must hypothetically construct the “without” world. What would the local economy look like in the absence of these System universities? To make such an exercise meaningful, it should be assumed that no other similar state university would exist locally. It can then be assumed that in the “without” world state funding would be lost to the community; most of the “outside students” attending the University of Houston, UH-Downtown and UH-Clear Lake would go elsewhere; a large portion of “local” students would be forced to leave the region for their education; and only a small portion of research dollars captured by the University of Houston would go to other institutions within the region.⁶

Choosing The Most Appropriate Input-Output Model

Once the exogenous expenditures are fully identified, then the next step in demand-side impact analysis is to apply those figures to some available input-output (I-O) model. Typical outputs from such a model include the overall increase in employment, aggregate sales (demand), and population attributable to the university related exogenous expenditures. For years, such local exercises utilized the Houston-Galveston Regional Input-Output Model. This model was first developed in the late 1960s with federal funding as a part of a 12-region effort throughout the entire State of Texas. However, as federal funding evaporated, the State contributed little to the maintenance of these models.⁷ The Houston-Galveston Regional I-O model was updated three times as

⁶The greatest portion of the small amount of research dollars that might be captured by other regional institutions would almost certainly go to Rice University, the only other entity within the region to have the academic facilities and credentials to replicate some of what is done at the University of Houston.

⁷I-O models require regular updating, usually every 5 years. The creation of the I-O models' transaction matrices requires very extensive and expensive surveys of large portions of a region's businesses. The costs of these surveys made updating of state and regional I-O models prohibitive without federal support.

cheaply as possible by cutting corners. Though many debated the accuracy of this model, it continued to be used through the very early 1990s. Today, this model is totally out of sync with the realities of the diversified, post-energy bust Houston economy.

The need for regional I-O models led to several attempts to find substitutes for the old federally funded models. The U.S. Department of Commerce produces the RIMS II model, which is an inexpensive regional extrapolation of the national I-O model which is regularly maintained. Most analysts agree that this model is rather poor in quality, detail, and forecast accuracy.

The most sophisticated model available today is the so-called REMI model, produced by Research Economic Models, Inc. out of Massachusetts, a private institution with historic ties to Harvard and M.I.T. This model is the most widely accepted and academically documented of the existent models. Like the RIMS II model it is also based, at least in part, on the U.S. Department of Commerce's national I-O model, but it includes more sectors, more regional specificity, greater depth in estimating various impacts, more adaptability to inherent economic non-linearities, and a significantly broader output format. This model provides impacts upon regional employment, output, sales, and market share by individual sector and generates estimates of changes in public sector fiscal variables such as tax revenues and expenditure demands. Despite its level of sophistication, however, the REMI model, like all I-O models, is limited both conceptually and empirically by regional data deficiencies and urban economy complexities. It simply appears to be the case that the REMI model minimizes those problems better than most other models available. The last step in any demand-side analysis of the impact of the University of Houston System would be to input the amounts of new outside dollars brought into the region by UH System universities into the REMI model in order to generate the full impact of those dollars as they get multiplied throughout the overall economy.

IV. LOOKING AT SUPPLY-SIDE IMPACTS

The Distinguishing Nature Of Supply-Side Impacts

Enhancing a Region's Comparative Advantages

Demand-side impacts are associated with increases in the aggregate demand for a region's exports. The University of Houston System's exports can be thought of as its "sale" of education services to the State of Texas, its "sale" of research services to out-of-region agencies and foundations, and its "sale" of educational training to outsiders or locals who would have otherwise had to "buy" educational training outside of the region. As such, demand-side analysis is all about how those outside dollars get spent and re-spent within the regional economy, thereby generating jobs and income for local residents.

Supply-side impacts are different. These are impacts that affect a region's attractiveness to labor and capital. In other words, these are impacts that affect the region's "supply curve" by making inputs to the regional production process more available, thereby lowering production costs. Examples of supply-side influences would include improvements in transportation systems, lowering the costs of delivery of a region's output to the rest of the world; increases in area amenities that would increase the supply of labor to a region, thereby reducing labor costs; or improvements in the region's business environment that would induce more firms and more capital to relocate to the region.

In the example of sports venues given earlier, one of the arguments for a new improved venue might be that it will make the region more attractive to workers, promote positive regional visibility in the world, and attract businesses to the community because it is viewed as a "big league city". All of these effects would fall under the category of supply-side impacts.

The Supply-Side Impact Literature

In many cases the supply-side story is much more important than the demand-side

story in terms of economic development and the ultimate creation of jobs and income. For example, the expansion of port facilities will indeed produce demand-side impacts (largely during the construction phase), but the most significant impact will be supply-side effects associated with the enhancement of the region's comparative advantage in the movement of nationally and internationally traded goods.

Unfortunately, the supply-side literature is not nearly as well developed as the demand-side literature and the empirical studies have generated disappointing and conflicting results. In part, the problem stems from the difficulty in defining in quantitative and pecuniary ways the extent of the initial impact. One line of supply-side studies has attempted to document the impact of various differences in regional taxes and service provisions. While governments tend to worry about the tax issue in trying to attract businesses to their region, the evidence to this point does not support the notion that lower business taxes, all things being equal, significantly stimulates economic expansion at the regional level. On the other hand, there is somewhat better evidence, though certainly not conclusive, that better government services do attract growth and development, but then that would tend to entail higher taxation. These studies have particular relevancy to the whole issue of government tax breaks and other forms of subsidies to induce a particular firm to relocate to a region. Yet, while it is often accepted that in a bidding war, the community offering the best incentive package wins, it is not clear that the communities most engaged in such incentive programs have the greatest overall growth rate.

Other studies have tried to link economic growth and development to local amenities including weather and environmental quality. Once again, the empirical results have been inconclusive. Given the extreme difficulty in measuring these amenities in some uniform and meaningful manner across urban areas, it shouldn't be surprising that standard empirical analyses falter.

What Can Be Done

This can be very frustrating to decision makers because supply-side effects are likely the most important effects. In the case of properly done cost-benefit analyses, the supply-side effects are usually the only relevant effects. For example, just a few years after completion, Houston would be foolish to tear down Reliant Stadium and rebuild an even better version just to generate jobs and incomes (demand-side effects). The only possible rationale for such a decision would have to stem from arguments that a new improved stadium would somehow further enhance Houston's comparative economic advantages to a degree that would outweigh the costs.

The problem is not in identifying potential supply-side effects or even documenting their influence. The problem is in quantifying those influences in the same fashion in which the demand-side I-O models do, in terms of employment, aggregate regional sales, aggregate personal incomes, regional gross domestic product, and public sector tax revenues. Note, that all but the first are denominated in dollars, something that supply-side analyses have difficulty defining. Since it is extremely difficult to place dollar values on such things as clean air, reduced congestion, or more parks, it shouldn't be surprising that it is practically impossible to create supply-side models that can produce estimated total economic impacts in terms of dollars.

Because supply-side effects are important in the decision making process and because they are often required in federally mandated socio-economic impact studies, analysts are forced to do something. One line of endeavor is to try to place very rough estimates of the "value" of the benefits into an analysis of net social gain. If properly done with detailed sensitivity analysis, this type of exercise can be useful and insightful. Another approach, which is more commonly used, is to simply delineate the benefits and, where possible, try to correlate them with various measures of economic activity.

The Supply-Side Impacts Of The University Of Houston System

The University's Mandate

The primary purpose of the University of Houston System is not to directly create jobs, but to produce knowledge endowed workers. That is, the number one mandate is to educate the local populace. This is a supply-side role. In addition, the UH System universities share a variety of other responsibilities in common with many of this nation's major urban universities: provide a knowledge base for the community; generate ideas and technology that can be utilized by local public and private sectors, and provide a reservoir of resources for the region from service-oriented community outreach programs to the provision of expert consulting based upon the depth of its own knowledge base. These too, are supply-side functions.

The Exogenous Component of System Related Spending

While putting dollar values on all of these would be extremely difficult and in some cases nearly impossible, the mere delineation of these community supply-side impacts is instructive. For some, the relative importance of these functions is left to the reader to evaluate. In other cases, the role of the University as a provider of these types of services will be put in context with the region's growing need for such services.

In terms of the production of educated Houstonians, this study examines the four UH System universities' role in meeting the human capital needs of this growing region. It will also examine the historic short-fall in the production of "home-grown" college graduates and the expected widening of that short-fall in the future if the status quo is maintained. In terms of the spillover effects associated with research and community service, the primary focus of this study is simply to delineate most of these university activities to give the reader the breadth of the university/community connection that exists. To the extent possible, as in the case of university research efforts, comparisons are made with the level of such activity in Houston versus other major metropolitan regions within the United States.

V. THE EMPIRICAL RESULTS OF THIS STUDY

Demand-Side Analysis

Past Studies

This study begins with the demand-side analysis. Similar studies for area institutions have been done in the past including analyses of the Medical Center, the Astrodomain complex, NASA, and new area sports venues. All of these use some version of the old Houston-Galveston Areas I-O model or its multipliers. In contrast, this study uses the much more up-to-date and sophisticated REMI. The only previous local analysis using the REMI model was a year 2000 analysis of the set of environment policies known as the Houston SIP (State Implementation Plan) to help the region achieve its EPA mandated clean air standards by 2010. This model was purchased by the Houston-Galveston Area Council (HGAC) which has utilized it for forecasting purposes in the past and has paid the annual maintenance fee for regular updates and enhancements. The University of Houston's Institute for Regional Forecasting owns a secondary user license.⁸

Identifying Exogenous Spending Related to UH System Activities

Exogenous spending emanating from the University of Houston System is divided into three main sources of outside dollars: research funds, direct state funds, and student expenditures. The first includes dollars from federal and state agencies, national and state foundations, and research support from private corporations headquartered outside of Houston.⁹ Direct state funds only include those dollars directly appropriated by the state

⁸It should be noted that the REMI model is only directly applicable to the Houston area CMSA. Thus, when University of Houston System impacts are being estimated, the Victoria portion of that impact, which is relatively small, is estimated using the same transaction matrix coefficients found in the Houston model which should closely resemble the relationships in Victoria. When Victoria area impacts themselves are reported relative to the overall economy, however, they are compared with the Victoria employment and population base.

⁹No attempt was made in this analysis to determine what portion of research support from "local"

legislature. They do not include tuition rebates to the university, which are incorporated in the latter category. Student expenditures are not limited to direct expenditures on campus, but include living expenses as well. Of course, this calculation requires separate consideration for local students, Texas students from outside the region, and students from outside the state, whose percentages of the overall student body population are 63%, 26%, and 11% respectively. It is assumed that for local students there are no living expenses (room and board, which are a part of student expenses from out of town). The breakdown of student expenditures is \$6,450 tuition and fees, \$1,050 books, \$2,900 personal expenses, and \$2,350 transportation with an additional \$8,600 for room and board for out-of-region students (non-commuters) and \$7,628 for out-of-state tuition for out-of-state students. With respect to local students it is assumed that 75% of their expenditures can be counted as import substitution.¹⁰ Calculating the total exogenous spending by students within the University of Houston System located in the Houston metropolitan area produced an average total of \$718 million per year for the academic years 2002 through 2004. Of that \$432 million stemmed from UH students and \$253 million came from UH-Downtown and UH-Clear Lake campuses. These totals are reported by university and student type in Table 1.

sources might be properly considered import substitution and therefore all local dollars were excluded. This will very modestly bias downward the impact results of this paper.

¹⁰These assumptions are also rather conservative. Many “local” students will not choose to live at home and the assumption that 25% of “local” students will either find access to higher education locally or not attend college is probably a high number. Thus, again the final estimates of economic impact will be modestly biased downward.

Total exogenous research dollars was obtained from the University of Houston System records broken down by university and by source. Appendix 2 provides a detailed breakdown of the research dollars generated. Monies from clearly local sources were eliminated as not constituting exogenous spending, and the remainder were totaled and are also reported in Table 1.

Table 1 also provides a summary of the average amount of direct state funding for 2002 to 2004 by university and for the UH System as a whole. Given the assumptions discussed earlier in this report it is assumed that direct state funding would have either been diverted to other state priorities or spent on higher education elsewhere in the state. Thus, the without scenario assumes that all these dollars would have been lost without the presence of the University of Houston. Similarly, all non-local grants for research and education programs are treated as purely exogenous, even though it might be argued that a small fraction might have been captured by other local institutions of higher learning within the Houston region. But the vast majority of these monies are awarded at the national level and would not in any way automatically come back to the Houston region in the absence of the University of Houston. The details of the various sources of research funding are contained in Appendix 1 for each year between 2002 and 2004, broken down by type of funding.

Exogenous Spending Totals

Table 1 provides totals for exogenous spending by the three broad categories discussed above and by university. Overall, the UH System generates more than \$1.0 billion annually in exogenous demand-side stimulus to the greater Houston economy and another \$50 million dollars per year in stimulus to the Victoria economy. The University of Houston itself produces 64% of that stimulus, UH-Downtown 18%, and UH-Clear Lake 13%. Within the Houston metropolitan area student expenditures produce more than 66% of the stimulus, direct state funding about 27%, and research activity about 7%. As might be expected the University of Houston accounts for more of the research dollars than the other smaller UH System universities combined.

The Overall Effects of Exogenous UH System Spending

These estimates of exogenous spending were then inputted into the REMI model, primarily through two sectors. The results were split out between the impacts upon the greater Houston economy and the much smaller Victoria economy. The results indicate that the overall increase in aggregate sales within the Houston metropolitan area was \$3.126 billion. In other words the expenditure multiplier was nearly 3. However, the Houston economy is a very large economy, so the net gain represents only about .6% of the overall regional sales (expenditures) total. Because of the presence of the three UH universities in the Houston area, real household incomes are \$1.086 billion or .5% higher than they otherwise would have been, and real gross domestic product (GRP) is \$1.37 billion or .4% higher. Ultimately, as the overall pecuniary impact filters its way through the entire economy, the exogenous spending at these three UH universities generates almost 24 thousand additional jobs within the region and produces an increase in population of almost 30,000. The latter represents a .7% gain, while the former represents about a .9% gain. All of these results are reported in Table 2.¹¹

The Relative Importance of UH System Stimuli

Thus, while the total impact in terms of dollars, jobs, and population looks impressive, the relative contribution in a very large urban economy is modest. Nonetheless, these contributions should not be underrated. While no up-to-date REMI analysis of other major institutions is available for direct comparisons, some rough comparisons can be made from scattered past analyses. For example, while the three Houston-based UH System universities produce a greater economic impact than any one institution within the Texas Medical Center in Houston, their impact is likely less than a third of the impact of the entire Medical Center complex. On the other hand, the impact

¹¹ Including the impact of UH Victoria the economic impact of the entire UH System is 25,071 jobs; 31,253 population; \$1.437 billion in GRP; \$3.276 billion in regional sales; and \$1.138 billion in regional income.

of these three universities is more than half the impact of NASA's Johnson Space Center and direct contractors. In terms of private sector comparisons, this economic impact upon the Houston economy today is about twice as great as generated by Compaq Computer at its peak before it was bought out by Hewlett-Packard. Of course, the small percent impact is due to the fact that Houston's economy is much more diversified today. Yet, with thousands of firms and governmental and non-profit organizations in Houston, it is impressive that the three UH System universities generate nearly a hundredth of the total local jobs. No more than a handful of economic institutions, private or public, are more important to the Houston economy.

UH-Victoria Impact

On the surface it appears that the economic impact of UH-Victoria to the Victoria economy, shown in Table 3, is small and insignificant. It certainly is small in absolute terms when compared to the impact within the Houston MSA, but its relative impact is actually much larger. While total job creation including the multiplier effects is only 1,151 jobs, this contribution to the Victoria economy is almost 2.5% of the labor force as contrasted to the Houston MSA gain of less than 1%. Thus, relatively speaking, UH-Victoria plays a more significant role in the local economy there than the other three UH universities combined play in Houston, and any expansion in the Victoria campus, at least from a demand-side perspective, would mean more to that local economy than a similar expansion would for Houston.

The Distribution of Gains

As might be expected the economic impacts of the three UH universities in Houston are not evenly distributed across occupations. The greatest impact is found in the occupation labeled educational professionals which is affected the most by both the direct and induced effects. These three UH universities add over 7,500 jobs to this occupational group, more than 5% of the regional total. Because higher education is

relatively labor intensive, it also should not be surprising that it stimulates greater effects on consumer-related businesses as faculty incomes and student living expenses get spent in sectors such as retail sales and consumer services. Table 4 provides a partial breakdown of employment gains by occupation in the Houston MSA, though it seems likely that the REMI model is underestimating the net gain in jobs in the science professions.¹²

Fiscal Dividends to State and Local Government

Another interesting aspect of the overall economic impact of the University of Houston System is its generation of significant fiscal dividends to state and local governments as reported in Table 5. Because of the direct and induced spending generated, state government gets almost \$127 million per year in increased state revenues from all sources. Local governments generate additional revenues that are nearly \$160 million per year.¹³ These numbers are very substantial and particularly noteworthy is that the state's \$288 million per year investment in higher education within the region produces a "rebate" of \$127 million in the form of increased revenues, making the net cost of higher education about half of the legislated appropriations. On the other hand, since local governments contribute little to the expense of higher education at the UH System universities, their gains are all windfalls.

Summary of the Demand-Side Effects

In summary then, we see that from a demand-side perspective, the UH System produces a significant impact upon the regional economy, but one that is not absolutely critical. It should be pointed out, however, that in today's diversified Houston economy

¹²This is most likely because scientists are included in several occupational categories beyond just science professionals.

¹³This would include state sales tax revenues both from consumer spending and taxable business to business transactions, corporate franchise taxes, and a host of state fees and special taxes. Local taxes include taxes generated by all entities including municipalities, school districts, municipal utility districts, and hosts of special taxing districts.

there are few if any single entities that dominate the region economically. Even during the 1990s when Compaq and Enron were the icons of a vibrant new Houston, they too were relatively unimportant as stand-alone institutions. In terms of sectors, however, it should be pointed out that all degree-granting institutions of higher education in Houston would constitute a substantial part of the overall economy and the expansion of the sector as a whole would produce a significant and perceptible impact on regional jobs, income and aggregate sales.¹⁴

Supply-Side Considerations

Educating Houstonians/Enhancing Local Human Capital

For years Houston enjoyed a demographic mix which included a substantial percentage of college-educated people. In large part this was due to the nature of Houston's growth and particularly the explosive growth from 1950 to 1980. Whereas most of America's more established cities grew from large amounts of immigration of poor individuals and households, Houston's growth during much of the second half of the twentieth century stemmed from the migration of educated middle- and upper middle-income households from various parts of the United States.¹⁵

This migration, of course, was stimulated by the rapid expansion of the post-war petrochemical industries in the 1950s and 60s, and the "energy boom" of the exploration side of the Houston energy economy in the 1970s. Both of these booms required educated, highly skilled workers. In both cases Houston was forced to "import" educated labor to the region because the region was simply not producing anywhere near the

¹⁴This is especially true of those institutions such as UH System, Rice University, and the educational institutions within the Medical Center that bring in substantial amounts of students from out of the region, as well as a substantial amount of outside funded research dollars.

¹⁵For example, Boston exploded with growth from immigration of low income individuals from western Europe such as Ireland, Chicago's biggest growth spurt was associated with low income families from eastern Europe, Detroit experienced its highest growth rates during the massive migration of rural African Americans to the urban north, and one of Los Angeles' major population booms emanated from the escape of poor farmers in the plains states because of the Dust Bowl of the 1920s and 30s.

supply of new college graduates sufficient to meet local needs. Indeed, from Houston's inception it has always been a net importer of human capital, a challenge that during most of its history was not particularly daunting because of the enormous economic opportunities that presented themselves within the region.

The mix of migrants began to change in the late 1970s and continued throughout much of the 80s and 90s. While the demands for educated labor continued to grow, migration from Latin America following civil unrest in Central America and the lack of economic opportunity in Mexico began to produce Houston's first major contemporary flow of unskilled migration into the region. As a result, the average level of educational attainment in Houston is not as impressive as some might have supposed.

Houston's Labor Force Falls Short

Table 6, for example, compares the level of educational attainment of Houston's population against 10 other key U.S. cities, most of which are viewed as important competitors to Houston in regional growth. In 1990, Houston found itself about in the middle of the pack. Approximately 10.4% of the Houston region's population had bachelor's degrees in comparison with the 10-city average of 10.8%; 3.1% had master's degrees compared to 3.5% for the rest of the cities; though the .5% of individuals with Ph.D's locally was equal to the 10-city average.

By 2000, the gap between Houston and these other cities had widened, with the percent holding bachelor's and master's degrees more than a full percentage point below the average of the rest of the cities. Table 6 shows why. While Houston's percentages increased substantially for all degree categories, they didn't increase as fast as they did in other cities. Denver, for example, increased the percent of bachelor's degrees between 1990 and 2000 from 12.8% to 23%. Even Detroit doubled their percent of population with bachelor's degrees. On average the 10 other cities experienced an 80% increase in the percentage of their population with a bachelor's degree. Houston, during this time period, was simply trying to keep up with these other cities and fell short.

In part, the problem stems from the large increase in Hispanics within the Houston region. Houston's Blacks actually fare better than the 10-city average; Houston's White/Anglo population only has a significant deficit in master's degrees, and the Asian population is higher than average in bachelor's degrees, but has a deficit in advanced degrees. With perhaps the exception of area Hispanics, none of these statistics are overwhelmingly alarming, but they do tarnish Houston's reputation as being a high tech, educated urban area. If Houston wants to compete for the new high tech industries that will be the major sources of growth in the future, it can't continue to lag so far behind cities such as Atlanta, Boston, Dallas, Denver, and Seattle.

UH System's Contribution to Regional Human Capital

Table 7 gives added perspective to the challenge. Despite failing to completely keep up with other major urban competitors, the Houston region did gain during the 1990s more than a quarter million new individuals holding a bachelor's degree. The region also added more than 85,000 holders of master's degrees and more than 15,000 additional Ph.D.'s. Yet, the University of Houston System as a whole, despite being by far the largest awarder of degrees within the region, produced only about 50,000 bachelor's degrees during that time period, 22,000 master's degrees, and 2,000 Ph.D.s. That's only 20%, 25%, and 14% of the region's net gain in those degrees respectively. The rest of Houston area higher education institutions combined added only about 25% more to the UH System totals¹⁶, which means that the Houston region had to be a net importer of human capital in a significant way during the 90s.¹⁷ [See Tables 8, 9, 10 and 11 for a breakdown of the degrees awarded by the University of Houston System, broken

¹⁶Other regional institutions of higher education do add a greater percent of master's and Ph.D. degrees, about half the master's degrees that the UH System produces and about the same number of Ph.D.'s.

¹⁷Not all graduates from the UH System and other local institutions of higher education remain in Houston, making the shortfall even more severe and the need to import individuals with education via immigration from other regions even more critical. Also, note that the available data need not allow for an easy application of this same analysis for the Victoria regional economy.

down by origination of students, distributed by UH System universities, degrees, and fields and Appendix 3 for details on the UH System enrollment by subject matter.

The good news is that graduates of the University of Houston System tend to stay in Houston. Of those that have obtained a degree from the UH System over the past 5 years, Table 12 shows that a remarkable 80.5% still live today within the Houston metropolitan area, 12.3% live in other parts of Texas, and only 7.2% live outside of Texas.¹⁸ What makes this especially impressive is that only about 75% of the System student body is from Houston, meaning that Houston is keeping many of those non-Houstonians here after they graduate.¹⁹ Even after 10 years, more than 71% of UH System graduates are still living in Houston, and 66% are still within the region after 15 years. Thus, while local institutions of higher education are not producing nearly enough graduates to meet the demands of the growing local economy, at least those that the University of Houston System are producing have a high propensity to remain and live and work within the region.

Yet the extent of the education gap is still very large. Table 13 estimates that during the 1990s the University of Houston System, as the largest contributor to the region's supply of new human capital, only provided on net about 13.6% of needed bachelor's degrees, 17.7% of needed master's degrees, and 19.7% of the demand for Ph.D.s within the region.²⁰ While this shortfall is quite worrisome, one can only imagine how severe the problem would have been without the University of Houston System.

¹⁸ Note that Table 12 reports the percentage of graduates that end up in Houston from all UH System universities including Victoria. The data available did not allow for an easy distribution of graduates living in Houston by UH System universities, but it did reveal that even a substantial portion of UH-Victoria grads end up working and living in Houston.

¹⁹ Even a sizeable share of UH-Victoria graduates end up in Houston.

²⁰ Net production in this context means degree holders that remain in the Houston region. It is unlikely that all of the other degree granting institutions in Houston collectively produce a similar percentage of graduates who remain in Houston. Thus, in the absence of the University of Houston System, the education gap including these other institutions would be even greater than reported in Table 13.

Filling the Education Short-Fall

Of course, one implication of these results is that for the Houston region to continue to be able to import most of its human capital needs, it will have to remain an attractive place to live for individuals with high levels of education. Recent studies indicate that more and more university educated individuals are seeking areas with low living costs and high levels of amenities. Some areas in the nation such as California are now beginning to find the retention of educated individuals difficult because of high living costs, even though the state is generally perceived as a place with an abundance of living amenities. Other areas are struggling to keep their educated individuals because of a weak economy, or lack of amenities. Houston's strong economy is attractive to such persons. So too is its low cost of living. But, perceptions of Houston's poor environmental quality, crime, and unaesthetic sprawl remain a detriment. If Houston is going to rely on "imports" of human capital as its prime source for an educated and highly skilled labor force, then it must dedicate significantly more resources into quality of life investments.

On the other hand, more could be done to produce human capital locally. Expansion of higher education in Houston could help close the gap somewhat; though it is unimaginable at this point that Houston will ever stop being a net importer of human capital. Table 14 illustrates the challenge ahead for higher education over the next 5 years. The first column shows the annual increase in population with college degrees needed to keep Houston up with the 10-city trends and the second column shows the annual increase required to keep up with Houston's expected growth. To achieve the former objective Houston will have to add population increases of 27,945 holding bachelor's degrees, 9,130 holding master's degrees, and 1,915 holding Ph.D.s. This would just be sufficient for Houston to maintain its current position among these other cities, abstracting from any local growth. Expected regional growth, on the other hand, will require another 10,924 bachelor's degrees, 3,481 master's degrees, and 600 Ph.D.s as shown in the third column. Together the total needs for Houston over the next 5 years will

require annual increases of 38,869 bachelor's degrees, 12,612 master's degrees, and 2,515 Ph.D.s (Fourth column).

Of course, much of those needs will be met from net in-migration from other regions. If the metropolitan area can attract as much human capital as it did during the 1990s, then about half of those degree needs will stem from regional newcomers. If current (academic year 2005) rates of graduation are maintained then the net new production from the UH System of graduates working and living in the Houston metropolitan area will average 4,723 bachelor's degrees per year, 1,684 master's degrees, and 143 Ph.D.s. Similarly, at current rates all other Houston area institutions of higher learning will add another 1,142 bachelor's degrees, 1,030 master's degrees, and 169 Ph.D.s per year. At current levels of graduations, it appears that the University of Houston System can cover about 77% of the region's net needs for bachelor's degrees, 29% of the region's net needs for master's degrees, and about 38% of the region's need for Ph.D.'s.

Together all sources of supply at current rates will provide the region with only about 70% of its needed bachelor's and master's degrees and 65% of its Ph.D. needs, leaving a substantial educational deficiency. If allowed to happen, the shortfall will increase the gap between Houston area population percentages and the 10-city average, and almost certainly lower Houston's ranking even further. On the other hand, if Houston simply wanted to catch up with the 10-city average, then the education gap becomes even more daunting, leaving current level of supplies providing only about 65% of the region's new bachelor degree needs, 54% of its master's degree needs, and 59% of its Ph.D. needs. [See Table 15] Even under this more ambitious objective, only 35.4% of all Houstonians would have some type of college degree.

In sheer numbers the apparent deficit equals about 11,000 bachelor's degrees per year, 6,000 master's degrees, just slightly less than a 1,000 Ph.D.s. To fill this gap would

require more than a 50% increase in the rate of bachelor degree imports and a near doubling for master's and Ph.D. degree imports. Yet, keeping up with the record level of college educated imports during the 1990s itself is going to be challenging. Increasing the level of in-migration to Houston of educated persons may not be possible. Of course the alternative to an enormous increase in human capital imports is a substantial increase in locally produced college graduates. In essence if Houston area imports can only keep up with the pace of the 1990s, then the region would need to add additional educational capacity equivalent to a 75% increase in graduates per year at each of the three local UH System universities and an entire new university producing the same level of graduates as the University of Houston.²¹

Obviously, this scenario or its equivalent (increased capacity to produce another 18,000 graduates per year) is even more unlikely than increasing the region's importation of educated people from other parts of the nation and world. More likely, what will happen is that Houston's economy will try to fill the education gap through both increased in-migration and increased local education production. Still, even the causal reader of this report should sense that the challenges will be enormous, even if some degree of success is achieved on both fronts.

Increasing the Region's Commitment to Higher Education

²¹A part of the education deficit could be eliminated if Houston's growth rate would just fall to 1% a year, but this is a prospect that most Houstonians would find unappealing (see Table 16).

There is one additional way to illustrate the challenge Houston is facing. In a most interesting study released by the Atlanta Regional Council of Higher Education, 60 of the nation's largest metropolitan areas were compared in terms of their commitment to local higher education. This group reported data for each metropolitan area on the number of full-time students enrolled in all degree-granting institutions of higher education approved to receive federal student aid.²² Their report also gives, at the metropolitan level for the academic year 2001-02, the number of degrees conferred per year, the total expenditures on higher education, the total research expenditures, the amount of federal grants and contracts, and the total number of workers employed in higher education.

Houston's ranking among these 60 urban areas is extremely low in most categories.²³ In terms of college student enrollment per capita, Houston ranks 59th out of 60, substantially lower than metropolitan areas such as Cleveland, Detroit, and Baltimore. In terms of per capita degrees locally conferred Houston ranks 57th.²⁴ Because of the skewedness of the local student distribution towards graduate studies and professional degrees (such as medicine), Houston does somewhat better in the other four categories, but it is still far behind most communities. It is ranked 39th in expenditures on higher education, 21st in terms of research expenditures, 29th in federal grants and contracts, and 48th in terms of faculty and staff serving higher education needs. It is no wonder then that Houston's been losing ground to most other urban areas in terms of the educational levels of its overall population. Thus, one cannot simply blame the large immigration of low skilled/poorly educated individuals to Houston as the primary reason for the region's sub-par stock of human capital. Much of the blame must be put on the shoulders of the community and its lack of commitment to educating its own.

²²Thus, their definition is somewhat broader than that used in most of this study, but their findings are equally instructive.

²³Two urban areas Austin and Raleigh-Durham are outliers because they almost qualify as "college towns".

²⁴The numbers for each city provided in the Atlanta study are summarized in Table 17 and reproduced in Appendix 4. The IRF divided these numbers by total population of each city to obtain per capita levels from which the rankings were made.

Other Significant Supply-Side Contributions-Research Synergisms

As earlier pointed out, universities do more than merely educate students, especially major research universities. The research conducted at these universities adds to the overall wealth of knowledge of the region in addition to providing demand-side economic stimulus and being an integral part of the education process. The sheer dollars produced by the three Houston-based UH System universities are impressive, generating more than a quarter billion dollars worth of research funding between 2001 and 2003. But it is in the details that one can begin to see the benefits to the overall community and the interaction this provides with other key sectors of the regional economy.

Given the role of pioneering medicine in the region, it isn't surprising to note that nearly 10% of UH's research dollars come from the National Institutes of Health and that over the years millions of dollars have been provided by NASA. Other major sources of funding include the National Science Foundation, the Environmental Protection Agency, the Department of Energy, and a host of private for-profit businesses in energy, engineering, computer technologies, and innovative firms in such areas as biotechnology and nano-technology. Appendix 2 provides a breakdown of funded research by source of funds for each university for the academic years 2001-02; 2002-03, and 2003-04.²⁵ This delineation will give the reader an excellent sense of the breadth and focus of the research conducted at the University of Houston System and its application to the regional economy. It will also provide the reader with a sense of the substantial contribution that the local community including governments, foundations, non-profits, and for-profit entities are contributing to these endeavors and are participating as partners in this research effort. Furthermore, the portion "funded" by other universities provides an excellent indication of the cooperative efforts which exist between the University of

²⁵It should be remembered that these figures do not include the thousands of man-hours of both students and faculty who are pursuing a wide variety of research without funding or with partial funding from the University of Houston itself.

Houston and other stellar universities throughout the country.²⁶ The paragraphs below highlight just the major focuses of research which have a particular relevance to the economic environment in the Houston metropolitan area and the region's reputation of being a center of path-breaking discovery.

Medical Research and Medical Education

The University of Houston leads the six institutions of the Gulf Coast Consortia²⁷ in directing a \$2.8 million NIH grant for the Keck Center for Computational and Structural Biology. Funds are earmarked for bionano training and research, as well as the preparation of the next generation of scientists studying at Houston universities and medical schools. The grant money is disbursed to undergraduate, graduate and postdoctoral students of the GCC's member institutions over the course of five years, with disbursement beginning in 2004.

Community Health

To translate biomedical science into new therapies and disease prevention strategies, strong ties between the mathematical and physical sciences and academic medicine are essential. Through a 30-year agreement signed in early 2005, the UH System and The Methodist Hospital are creating those ties, joining forces to expand health science and medical education programs. The partnership allows the two institutions to share resources and educational opportunities and to participate jointly in research efforts and technology transfer.

One of the collaborations already underway is the summer internship program with

²⁶These are often funds in which two or more universities work together as a consortium of researchers on a particular project.

²⁷Members of the Consortia include Rice University, Baylor College of Medicine, the University of Texas Health Science Center at Houston, The University of Texas Medical Branch at Galveston and the University of Texas M.D. Anderson Cancer Center. The GCC is designed to combine institutional strengths to train new scientists, establish a research infrastructure to collect data, cultivate a supportive atmosphere for both biological and non-biological researchers and students, and to apply the resulting knowledge to the prevention and treatment of disease.

the Methodist Hospital Research Institute for UH biomedical engineering students, allowing interns to take a participatory role in their mentors' research in Methodist's laboratories and directly apply the knowledge they acquire in their UH classrooms. This type of program enhances the teaching capabilities of the University while at the same time developing important inter-university connections that expands prestige, influence, and community capabilities of Houston's overall medical complex. Such programs enhance both learning and the local medical sector's ability to serve the regional community as well as the nation at large.

Another similar program is conducted jointly by UH and the Methodist Neurological Institute, where academia and medicine join forces to investigate disorders of the brain and nervous system and collaborate in research leading to treatments for neurological diseases and disorders, such as Alzheimer's, Parkinson's and brain aneurysms. In addition there are numerous individual partnerships between UH mechanical/biomedical engineers and Methodist Hospital physicians. One such collaboration aims at developing a fully integrated computational-medical tool to assist in diagnosis, prevention and remedial treatment of brain aneurysms, identifying the aneurysm before it creates a stroke and identifying patients most at risk for this serious medical problem.

The joint effort between these important research and medical institutions greatly enhance their ability to attract major nationally funded research grants, grants that any one individual institution might not have been capable of attaining on their own. Obviously the benefits flow both ways. The region's medical research institutions are benefited from the science research divisions of the University of Houston and the University of Houston is greatly benefited by its association with the stellar institutes which make up the Texas Medical Center. For example, thanks to such connections, the University of Houston was able to land a \$2.5 million grant from the NIH to support biologist's efforts in studying memory formation and the impact of the biological clock on learning and memory, work that has the potential to shed light on neurodegenerative

diseases, such as Alzheimer's. Similarly, the University was awarded a \$900,000 NSF grant that addresses the increasing complexity of collecting and analyzing biomedical data, helping computer scientists mine health information from patients in real-time with a hybrid software system designed to acquire, analyze, integrate, securely store and visualize large volumes of data obtained from a human subject. The hybrid software system will be made available to both the academic and industrial research community.

Not all of the health sector synergisms are solely related to academic institutions. Recently a \$4.2 million NIH grant was awarded to VisiGen Biotechnologies, a local company created by UH researchers working on a new process to sequence the human genome at a 100-fold lower cost than is currently possible, "personalizing" medicine" and offering physicians a quicker, more thorough way to assess genetically linked risk factors for such things as diseases and adverse drug reactions. This is just one example of many in which University of Houston research has resulted in important spin offs to the regional private sector, enhancing the region's position in the growing national health research industry.

Public Health Partnerships

Occasionally, the partnerships formed are between government agencies, the private sector and the University. One such example involves pioneering work in public health. Recently, the UH College of Pharmacy has joined forces with the FDA and the private sector in a three-way partnership to advance the development of science, putting the College of Pharmacy in the vanguard of developing new drugs and biomedical policy. UH hosted one of the three annual conferences sponsored by the U.S. Department of Health and Human Services' Office of Human Research Protections (OHRP) on the subject of protecting human subjects by streamlining and increasing medical device approvals. Other topics addressed during the OHRP conference were FDA monitoring and sanctions, new issues arising with the developing bio-nanotechnology field and bio-terrorism challenges faced by the U.S. Department of Homeland Security.

Homeland Security and Public Safety

The public health partnership is not the only way UH is participating in the national effort to strength domestic security. Along with other key regional institutions, UH is playing a vital role in confronting the threat of bioterrorism by participating in anthrax research. The university is one of the recipients of a \$48 million grant from the U.S. Department of Health and Human Services to establish a Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research based at the University of Texas Medical Branch at Galveston (UTMB).

In addition, the University also was awarded an \$800,000 homeland security grant awarded to bioinformatics researchers to study DNA probes for detecting emerging or engineered pathogens and to ultimately develop a method for identifying bacteria and viruses that could be used in bioterrorism.

Other similarly related awards include a \$1 million NIJ grant to develop advanced technologies used to equip special public safety vehicles, highlighting the growing partnership uniting academia, industry and the law enforcement community in fighting crime across the country; and a \$250,000 NSF grant that establishes a nano-magnetics research program in collaboration with naval research labs to detect biological agents, develop land mine discovery techniques and improve computer memory durability in the event of a nuclear explosion.

Energy and the Environment

Of course, it should surprise no one that the University plays a major role in innovative research relevant to Houston's largest private sector, energy. From the knowledge base of UH's hard sciences colleges to The Bauer College of Business, UH is committed to research in all aspects of the energy industry and the markets that support it.

UH electrical and computer engineers are developing radios no larger than a grain of sand to increase the drilling efficiency of oil wells, work that eventually may result in

lower prices at the pump. University chemical engineers are working to improve oil recovery to meet the near-term energy challenge by revisiting abandoned oil fields that still contain oil underground that has been beyond access via conventional methods.

Seismic research out of UH's physics and geosciences departments also is flourishing. These scientists address an array of possibilities in the field of energy, including solving the challenges in the exploration and production of energy sources in ultra deep water and developing new innovations in seismic 'sonograms' that use amplitude-related exploration and development applications to better determine the structure of the earth in determining if borehole fluid content is gas, oil or water. Other University research is focusing upon finding an easier way to locate oil and gas prior to drilling through subsurface reflection seismology, something like a sophisticated version of the echo sounding used in submarines, ships and radar systems, to directly detect oil and gas reservoirs using seismic data through sequence stratigraphy to interpret seismic data patterns that reveal the position, depth and location of rocks underneath the earth's surface, suggesting whether they are surrounded by gas, sediment (such as sand or clay) or fluid (such as oil or water) to detect oil and gas beneath the earth's surface.

Addressing the business side of energy, The Bauer College of Business at UH has created the Global Energy Management Institute (UH-GEMI) to prepare the energy industry workers of today and explore issues important to the future of the industry. The Institute takes a multi-disciplinary approach to address the comprehensive needs of the energy industry, from risk and project management to accounting and systems development.

But UH researchers are also seeking solutions to the downside of this nation's excessive consumption of fossil fuels. For example, UH petroleum engineers joined forces with the City of Houston in an effort to improve the region's air quality. With \$3.8 million from the city, researchers are testing new technologies that will help reduce emissions from the city's diesel fleet of 2,800 vehicles. They are focusing particular

attention on reducing nitrogen oxides (NO_x), precursor chemicals that react in the atmosphere to form ozone – a key component of smog.

Overall Magnitude of UH Contributions to the Region's Knowledge Base

While the highlights listed above are impressive, they often inappropriately overshadow the myriad of research projects with local connections that are a part of daily activities of the University of Houston. Once again the reader is urged to review Appendix 2 which provides the aggregate magnitude of the University's research effort and the connections that have been formed over the years. This delineation provides the reader an excellent sense of the breadth and focus of the research conducted at the University of Houston System and its application to the regional economy.

Other Significant Supply-Side Contributions-Community Service

If the volume and diversity of research conducted at the institutions of the University of Houston System are stunning, the community service provided by faculty, staff and students is equally impressive. University/community programs throughout the four UH System universities are too numerous to include in the text of this report and thus are described briefly in the form of individual summaries in Appendix 5.

UH offers close to 600 programs, departments, institutes, courses, and activities that touch individuals and organizations in the Greater Houston region and UH students provide more than 1 million hours of service to community organizations and corporations through internships, externships and volunteer work linked to their academic programs.

Continuing Special Education Programs

In addition to providing outstanding undergraduate, graduate and professional full-time academic programs, the UH System universities offer a wide range of options for life-long learning. The University of Houston's Continuing Education department teaches six languages using an accelerated technique and has certificate programs in project

management and leadership. Colleges such as business, engineering, law, optometry and pharmacy help professionals keep up to date in their fields. The UH Moores School of Music brings music to all ages and levels of ability through its Preparatory and Continuing Studies program. People concerned with the environment can take a 19-day riverboat trip with UH-Clear Lake's Amazon Ecotour, and athletes can learn more about their bodies at the Human Performance Institute. With one of the largest criminal justice training centers in Texas, UH-Downtown has conducted more than 100 police academy classes. Among the UH-Victoria classes open to the public are website design, effective use of census data, and technical writing.

Focus on Region's Youth

Over 20 percent of the community outreach at the four universities targets children and their teachers. Programs for students range from mentoring and college preparation – with a heavy emphasis on math and science – to summer camps and theater performances. Teachers can improve their course materials with help from websites, get assistance in dealing with gifted and talented students, learn better ways of teaching science, improve classroom discipline, earn a certificate in bilingual counseling, and much, much more.

Representative of the University of Houston programs are the Houston Teachers Institute, where high school teachers work with university faculty to develop new curricula; the Digital History Project, an interactive U.S. history website that includes an online textbook; and GRADE Camp for high school girls interested in engineering.

UH-Clear Lake offers the Aerospace Academy for Engineering and Teacher Education to improve science and math education to better prepare a highly trained workforce for the high-tech industry; the Alpha Gifted Program to enrich and supplement the public school experience of local fourth- and fifth-grade students; and Kids' U to provide summer learning opportunities for area youth.

At UH-Downtown, one finds the Computational Science Academy, which encourages eighth- and ninth-grade students to pursue careers in math, science, and

engineering; GEARUP (Gaining Early Awareness and Readiness for Undergraduate Programs), which introduces middle school students to university faculty, staff, and students; and the Ketelsen Institute for Academic Excellence, which helps high school students transition to college. Access to Success, a program to assist instructional aides and long-term substitutes become certified teachers; LEAD (Letting Education Achieve Dreams) Parent Presentations about financial aid for college; and the Youth Leadership Conference, where seventh-graders learn about leadership and service through hands-on experience, are among the offerings at UH-Victoria.

Private Sector/Non-Profit Support

Businesses and nonprofit organizations alike benefit from the technical and support services provided through the UH System, as well as from the many hours students, faculty and staff spend interning, volunteering or consulting with them. UH Small Business Development Center programs like the International Trade Center, the Procurement Technical Assistance Center, and Direct Business Assistance target entrepreneurs.

UH-Victoria is home to the Small Business Development Center for that region. The UH-Clear Lake Small Business Development Institute and the UH-Downtown Applied Business and Technology Center also serve small companies. Specific industries also profit from their ties to the UH System. For example, UH and UHCL have close relationships with NASA, and with the energy and medical sectors. Programs such as the NASA Small Business Technology Transfer Program and the Mid-Continent Technology Transfer Center of Houston at UHCL and the Allied Geophysical Laboratories; Global Energy Management Institute; Institute for Energy, Law and Enterprise; Institute for Molecular Design; and Alliance for Nanotechnology at UH are just a few. Power Tools for Nonprofits, the American Humanics Nonprofit Certificate Program, and the Center for Nonprofit Leadership are just three examples of the support directed specifically to area community service agencies through programs at the University of Houston.

Health Care Services

UH and UHCL both provide health care to the community, and the other universities promote health awareness and participate in events supporting wellness. Both UH and UHCL have psychological services clinics. The University Eye Institute at the UH College of Optometry offers general eye and vision care, contact lens services, low vision rehabilitation, color vision services, and emergency ocular care to thousands of patients annually at its campus facility and at clinics throughout the region, serving more than 30,000 patients from the area. Students and faculty in the UH College of Pharmacy counsel senior citizens on medication management, talk to children about a variety of health issues, and work at clinics for the homeless.

Culture and the Arts

The UH System is a leader in the arts. From establishing the first public television station in the nation – KUHT – to training performers, artists and teachers; from presenting compelling theater productions and operas and bringing entertainers to campus to helping with community arts festivals, UHS faculty, staff and students are a key component of the Gulf Coast arts community. The Blaffer Gallery, Moores Opera House, and Wortham Theatre are popular venues in Houston, and during the summer the attendance at the Shakespeare, Children’s Theatre, and Texas Music Festivals counts in the tens of thousands. In Clear Lake, the Cultural Arts series attracts a broad audience. And in Victoria, students help with the annual Chamber of Commerce Jazz Festival. Indeed a number of Houston arts institutions were born at the University of Houston, including Lawndale Art Center, the Houston Forum Club, and Inprint, the creative writing support organization.

Supporting Houston’s Large and Diverse Minority Community

One goal of the UH System is to ensure access to higher education for the diverse population of Texas. Therefore, the universities reach out to minority communities in the

region to help underserved students attend college and to promote cultural awareness and understanding. Representative of programs in this area are the Center for Mexican American Studies' College Career Days, African American Studies' Common Ground Teachers Institute, and the Asian American Studies Program at UH; the New Horizons Bilingual Education and ESL Teacher Training Project and the Research Center for Language and Culture at UHCL; the Cultural Enrichment Center at UHD; and the Mexican American Students Organization Victoria College Spring Connection and Sabor de Mexico programs at UHV.

Appendix 5 not only provides a complete listing of programs along with brief descriptions of each, but contact information so that the community can learn more on how they might become involved and taken advantage of them on a personal level. These connections are a major part of what an urban research university is all about. While such programs have not be labeled as such they are very much akin to urban extension services for a region and state that is progressively becoming more urban in nature. Every major urban area in the nation has learned to rely upon its collective university community for these types of resources and help. All segments of metropolitan Houston benefit from these extensive university supplied and supported community services.

Other Significant Supply-Side Contributions-Community Leadership

Finally, one of the purposes of education is to produce a cadre of leaders with vision and knowledge that can lead the greater community towards a promising future. University of Houston graduates have been an important part of that pool of outstanding leaders for nearly 80 years who have been active in both the private and public sectors. Past mayors such as Kathy Whitmire and scores of city council persons over the years are UH graduates. Corporate leaders such as Bruce Williamson, CEO of Dynegy; Fran Keeth, CEO of Shell Chemical; play an important role in making the region the downstream energy center of the nation. Entrepreneurs such as Drs. Donald Glenz and

Stig Pedersen, owners of Today's Vision, have created enormously successful businesses ventures that serve the region and beyond and whose models of success have been replicated throughout the nation. Some UH grads go on to serve the state and nation such as Shirley Neeley, Texas Commissioner of Education, and Margaret Spellings, now serving as U.S. Secretary of Education.

The list of prominent UH alumni who have made a significant contribution to the region is indeed impressive. The story of many of these individuals inspire us all as they rose from backgrounds of obscurity to a world of notoriety. Individuals such as UH graduate astronaut Bernard Harris are an inspiration to all young Houstonians that there are few limits to success and that education is the door that opens up opportunities to excel.

VI. CONCLUSIONS

Few would doubt that higher education is important to any large urban area. More and more metropolitan areas throughout the United States are recognizing the link between economic development and higher education. This was explicitly recognized locally by the Greater Houston Partnership in the 1980s when they indicated that the presence of top quality institutions of higher education would be one of the prerequisites to the diversification of the regional economy and more stable growth and prosperity in the future. During those troubling times immediately preceding the local energy bust, cities such as Boston were often mentioned as illustrations of urban areas that greatly benefited from a strong higher education base. Yet, even now 20 years later we find the Houston region surprisingly below standard. The average education levels of the region's current population falls short of the average for the 10 key cities Houston was compared to in this study. Furthermore, the number of students attending colleges and universities locally, puts Houston second to the last among the nation's largest 60 cities, and third to the last in terms of numbers of graduates. This is not a record for which the metropolitan area can be proud, nor from which 21st century type economic development

can thrive.

The education deficit within the region is described in this report in terms of a rather short horizon, the next five years. The fact is that there is no way that Houston will be able to keep up in the short run. Spreading the challenge over a longer period of time will have to suffice, but it won't be the complete solution, because as each year passes by other major urban areas will keep improving as well. In other words, Houston is chasing a moving target, and at least at present the Houston region is only getting farther and farther away from that illusive goal.

An economic development plan for Houston will have to come to grips with the extent of the problem and produce an implementable strategy to enhance higher education within the region. The area's demographics demand it; and the continued need to diversify the local economy towards "clean industry" growth demands it as well. Without it Houston will find itself simply unable to compete in the increasingly knowledge-based world that we now live in.

While the expansion of higher education in Houston needs to be done primarily for supply-side reasons, this expansion will also have direct implications to the regional economy. All ready the three local UH System universities of the Houston MSA account for almost \$1.4 billion in real regional gross domestic product, \$3.1 billion in total regional sales; and \$1.1 billion in total personal income. That amount would be sufficiently higher were higher education given the resources it needs commensurate with its population and the goal of catching up with much of the rest of the nation. Such an increased commitment would produced a sizeable additional fiscal benefit to local area governments, perhaps triple the \$160 million dollars a year in increased revenues currently produced as a by-product of the direct and indirect economic impact upon the region. Even from the state's perspective, there will be a fiscal dividend which will partly compensate for the added expenditures for higher education. Of course, these fiscal gains to government do not include the all important supply-side effects which will greatly enhance the state's fiscal returns by making southeast Texas and the state-at-large a more

attractive place to live and locate businesses and greatly enhance its residents' ability to earn high real incomes in the future.

TABLE 1**Exogenous Spending Eminating From UH System
(Average Spending Per Year: FYs 2002 - 2004)**

Source of Dollar Expenditures	UH	UH System Totals
Research Funds	\$57,632,255	\$79,712,279
National Research Funds	\$44,928,318	\$65,930,999
State Research Funds	\$12,703,938	\$13,781,280
Direct State Education Funds	\$205,225,903	\$287,540,757
Student Expenditures in Region	\$431,624,928	\$718,910,042
Students from Houston	\$178,630,954	\$297,525,880
Students from Rest of Texas	\$161,652,166	\$269,246,184
Students from Out of State	\$91,341,809	\$152,137,977
Total Exogenous Spending	\$694,483,086	\$1,086,163,077
Percent of Total	63.94%	100.00%

TABLE 1**Exogenous Spending Eminating From UH System
(Average Spending Per Year: FYs 2002 - 2004)**

Source of Dollar Expenditures	UHCL	UHD	UHV
Research Funds	\$7,390,652	\$13,061,619	\$1,627,752
National Research Funds	\$7,011,621	\$12,889,076	\$1,101,984
State Research Funds	\$379,031	\$172,543	\$525,768
Direct State Education Funds	\$36,857,215	\$31,864,778	\$13,592,860
Student Expenditures in Region	\$99,891,431	\$152,721,594	\$34,672,088
Students from Houston	\$41,340,758	\$63,204,885	\$14,349,283
Students from Rest of Texas	\$37,411,338	\$57,197,291	\$12,985,390
Students from Out of State	\$21,139,335	\$32,319,418	\$7,337,415
Total Exogenous Spending	\$144,139,299	\$197,647,992	\$49,892,701
Percent of Total	13.27%	18.20%	4.59%

TABLE 2

Demand-Side Economic Impact Upon Houston MSA *
(UH, UHD, UHCL)

Economic Variable	Total Gain	Percent Gain
Employment	23,920	0.910%
Population	29,800	0.690%
Real GRP	\$1.370 billion	0.406%
Demand (Sales)	\$3.126 billion	0.556%
Real Income	\$1.086 billion	0.531%

* Based upon "REMI" model estimation utilizing data from Table 1

TABLE 3**Demand-Side Economic Impact Upon Victoria *
(UHV)**

Economic Variable	Total Gain	Percent Gain
Employment	1,151	2.45%
Population	1,434	1.71%
Real GRP	\$66 million	N/A
Demand (Sales)	\$150 million	N/A
Real Income	\$52 million	N/A

* Based upon "REMI" model estimation utilizing data from Table 1

TABLE 4

EMPLOYMENT GAINS BY KEY OCCUPATIONS *
(UH, UHD, UHCL)

Occupational Category	Total Gain	Percent Gain
Education Professionals	7,577	5.37
Consumer Services	5,476	0.831
Sales	4,183	0.648
Management/Finance	2,228	0.865
Science Professionals	887	0.619

* Based upon "REMI" model estimation utilizing data from Table 1

TABLE 5

**Fiscal Impact of UH System *
(Total System Impact)**

Total Governments	Additional Revenues Per Year
State Revenues	\$126,821,088
Local Revenues	\$159,626,873

* Based upon "REMI" model estimation utilizing data from Table 1

TABLE 6

**Percent Population By Educational Attainment
Comparison Between Selected Urban Areas**

25 YEARS OF AGE AND OVER						
1990	Percent ALL RACES			Percent WHITE		
	Bachelor's	Master's	PhD	Bachelor's	Grad / Prof	
PMSA or MSA						
Atlanta MSA	11.7	3.5	0.5	13.6	6.1	
Boston	13.0	5.1	1.2	13.9	9.5	
Chicago	10.1	3.7	0.5	12.3	6.9	
Dallas	12.0	3.6	0.5	14.4	6.2	
Denver	12.8	4.0	0.6	14.0	6.6	
Detroit	7.2	2.8	0.3	8.2	4.5	
Houston	10.4	3.1	0.5	12.9	5.8	
Los Angeles	9.0	3.0	0.5	10.9	6.5	
Orlando MSA	9.8	2.7	0.3	10.7	4.5	
Seattle	13.9	3.9	0.7	14.4	6.2	
St. Louis MSA	8.7	3.1	0.4	9.7	5.0	
Average	10.8	3.5	0.5	12.3	6.2	
Comparative	(0.4)	(0.4)	(0.0)	0.6	(0.4)	
2000						
	Percent ALL RACES			Percent WHITE		
	Bachelor's	Master's	PhD	Bachelor's	Master's	PhD
PMSA or MSA						
Atlanta MSA	21.6	7.2	1.0	24.3	8.0	1.1
Boston	22.6	11.3	2.3	23.8	11.7	2.2
Chicago	19.0	7.6	1.0	21.4	8.7	1.1
Dallas	20.5	6.7	0.9	23.5	7.4	1.0
Denver	23.0	7.9	1.0	25.1	8.5	1.0
Detroit	14.3	6.1	0.6	15.7	6.5	0.6
Houston	18.2	5.8	1.0	21.2	6.6	1.1
Los Angeles	16.1	5.3	1.0	18.0	6.8	1.3
Orlando MSA	17.1	5.2	0.7	18.3	5.5	0.7
Seattle	24.2	7.8	1.3	25.0	8.1	1.3
St. Louis MSA	16.1	6.5	0.9	17.6	6.9	0.9
Average	19.3	7.0	1.1	21.3	7.7	1.1
Comparative	(1.1)	(1.2)	(0.1)	(0.1)	(1.1)	(0.0)
Average Gain	8.6	3.5	0.5	9.0	1.5	1.1
Houston Gain	7.8	2.7	0.5	8.3	0.8	1.1

TABLE 6

**Percent Population By Educational Attainment
Comparison Between Selected Urban Areas**

25 YEARS OF AGE AND OVER									
1990	Percent BLACK		Percent ASIAN		Percent HISPANIC				
	Bachelor's	Grad / Prof	Bachelor's	Grad / Prof	Bachelor's	Grad / Prof			
PMSA or MSA									
Atlanta MSA	6.5	2.8	13.6	9.5	8.9	4.7			
Boston	6.2	3.9	12.4	14.5	5.3	4.0			
Chicago	4.4	2.3	19.3	10.8	2.5	1.4			
Dallas	5.4	2.0	15.2	10.6	2.9	1.4			
Denver	7.1	2.9	10.7	7.0	3.5	1.6			
Detroit	3.5	2.1	15.7	14.4	3.9	2.7			
Houston	5.8	2.6	15.3	10.2	2.6	1.3			
Los Angeles	6.0	2.9	16.8	6.6	1.9	1.0			
Orlando MSA	0.6	0.3	13.9	6.4	6.5	2.5			
Seattle	6.5	2.7	14.6	6.2	7.4	3.3			
St. Louis MSA	4.0	2.2	13.0	16.3	7.1	5.6			
Average	5.1	2.4	14.6	10.2	4.8	2.7			
Comparative	0.7	0.2	0.7	(0.0)	(2.2)	(1.4)			
2000									
	Percent BLACK			Percent ASIAN			Percent HISPANIC		
	Bachelor's	Master's	PhD	Bachelor's	Master's	PhD	Bachelor's	Master's	PhD
PMSA or MSA									
Atlanta MSA	15.5	4.7	0.6	26.3	14.1	2.9	10.4	3.0	0.6
Boston	12.8	5.6	0.8	24.2	16.8	7.1	10.3	4.5	1.3
Chicago	10.2	4.1	0.4	34.9	14.0	2.9	5.8	1.7	0.3
Dallas	13.5	4.0	0.3	28.9	17.2	2.9	5.9	1.6	0.2
Denver	14.3	5.0	0.7	24.8	11.3	1.9	7.4	2.1	0.2
Detroit	8.2	3.4	0.3	30.3	21.0	4.1	8.9	3.3	0.5
Houston	12.5	4.4	0.5	28.5	12.0	3.2	5.6	1.4	0.2
Los Angeles	11.9	4.1	0.5	30.7	7.6	1.5	4.5	1.2	0.2
Orlando MSA	10.1	3.2	0.4	27.6	8.6	1.9	11.7	2.8	0.4
Seattle	13.9	4.9	0.7	27.6	8.7	1.9	12.9	3.8	0.7
St. Louis MSA	8.4	3.7	0.2	23.2	15.4	6.7	13.8	6.1	1.2
Average	11.9	4.3	0.5	27.9	13.3	3.4	8.8	2.9	0.5
Comparative	0.6	0.1	0.0	0.6	(1.3)	(0.2)	(3.2)	(1.5)	(0.3)
Average Gain	6.8	1.9	0.5	13.3	3.1	3.4	4.1	0.2	0.5
Houston Gain	6.7	1.8	0.5	13.2	1.8	3.2	3.0	0.1	0.2

TABLE 7

Houston Area Population With College Degrees *

	Bachelor's	Master's	PhD
	Number of Students	Number of Students	Number of Students
1990	207,425	61,829	9,972
2000	462,400	147,358	25,407
Decade Gain	254,975	85,529	15,435

* Based upon 1990 and 2000 census data for Houston MSA

TABLE 8
Number of UH System Graduates By Origin

	2000-2004		1995-1999		1990-1994	
Non-Houstonians	11,121	22.57%	3,606	8.64%	4,554	12.36%
Houstonians	38,147	77.43%	33,300	79.79%	28,307	76.84%
Texans	44,597	90.52%	36,906	88.44%	32,860	89.20%
Non-Texans	49,268	9.48%	41,732	11.56%	36,839	10.80%

TABLE 9
Number of UH System Graduates By Degree

	2000-2004		1995-1999		1990-1994	
Bachelor's	33,670	68.36%	27,372	65.59%	22,863	62.06%
Master's	12,265	24.90%	11,197	26.83%	10,766	29.22%
Doctoral	1,007	2.04%	1,043	2.50%	925	2.51%
Professional	2,314	4.70%	2,123	5.09%	2,285	6.20%

TABLE 10
Number of UH System Graduates By University

	2000-2004		1995-1999		1990-1994	
UH	30,241	61.27%	27,715	66.41%	27,044	73.41%
UHCL	9,802	19.86%	8,789	21.06%	8,143	22.10%
UHD	7,078	14.34%	3,571	8.56%	344	0.93%
UHV	2,234	4.53%	1,659	3.98%	1,308	3.55%

TABLE 11**Number of UH System Graduates By Subject Area
(2000-2004)**

General		
Business	14,983	30.41%
Liberal Arts & Social Sciences	7,164	14.54%
Humanities and Arts	7,111	14.43%
Engineering	3,564	7.23%
Sciences	3,007	6.10%
Professional		
Education	6,301	12.79%
Technology	2,266	4.60%
Law	1,726	3.50%
Hotel & Restaurant Management	785	1.59%
Social Work	615	1.25%
Architecture	591	1.20%
Pharmacy	515	1.05%
Optometry	510	1.04%
Public Service	213	0.43%

TABLE 12**Current Residency of UH System Graduates ***

Graduation Years	2000-04		1995-99		1990-94	
	Number of Students	Percent Distribution	Number of Students	Percent Distribution	Number of Students	Percent Distribution
Houston	37,475	80.48%	27,284	71.18%	17,169	65.66%
Rest of Texas	5,730	12.31%	5,044	13.16%	4,247	16.24%
Out of State	3,361	7.22%	6,004	15.66%	4,734	18.10%

* Based upon available UH System alumni records. Not all graduates are accounted for.

TABLE 13**UH System's Contribution to Region's Human Capital
(Sources of College New College Educated Population 1990 - 2000)**

Degree	Houston's Gain	UH System Graduates Staying in Houston	Other Graduates Staying in Houston	Human Capital Imports	Percent UH System Contribution
Bachelor's	254,975	34,662	9,705	210,607	13.59%
Master's	85,530	15,154	7,577	62,798	17.72%
Ph.D's	15,435	1,358	788	13,289	8.80%

TABLE 14

**UH System's Ability to Meet Region's Educational Annual Needs
(Needs & Capacity Over Next 5 Years - Keeping Up with 10-City Trends)**

Degree	Keeping Up With Trends	Regional Growth Needs	Total Needs	Supply Imports	Supply UHS (Current Rates)	Supply Others (Current Rates)	% Covered UHS	% Covered Total
Bachelor's	27,945	10,924	38,869	21,061	4,723	1,412	12.15%	69.97%
Master's	9,130	3,481	12,612	6,280	1,684	1,030	13.35%	71.31%
Ph.D's	1,915	600	2,515	1,329	143	169	5.69%	65.25%

TABLE 15

**UH System's Ability to Meet Region's Educational Annual Needs
(Needs & Capacity Over Next 5 Years - Catching Up to 10-City Average)**

Degree	Catch Up to Avg.	Regional Growth Needs	Total Needs	Supply Imports	Supply UHS (Current Rates)	Supply Others (Current Rates)	% Covered UHS	% Covered Total
Bachelor's	30,967	10,924	41,891	21,061	4,723	1,412	11.27%	64.92%
Master's	13,130	3,481	16,611	6,280	1,684	1,030	10.14%	54.14%
Ph.D's	2,189	600	2,789	1,329	143	169	5.13%	58.84%

* To achieve one-third of Houstonians having a college degree

TABLE 16

**Number of UH System Graduates By University
(Current vs. Needed Levels)**

Last Five Years	
UH	30,241
UHCL	9,802
UHD	7,078
UHV	2,234
Houston Totals	47,121
Needed in Next Five Years	
UH	40,825
UHCL	17,154
UHD	12,387
2 New Campuses	34,307
Houston Totals	104,672

TABLE 17**Metropolitan Commitment to Higher Education
Houston's Ranking Among Largest 60 Cities**

STATISTIC	HOUSTON'S RANK AMONG LARGEST 60 CITIES
Total FTE Enrollment per 1000 Population	59
Total Degrees Conferred per 1000 Population	57
Total Higher Education Expenditure per 1000 Population	39
Total Research Expenditure per 1000 population	21
Federal Grants and Contracts per 1000 population	29
Total Staff Employment per 1000 population	48

APPENDIX 1

UH State Funding (2002 - 2004)

	FY2002	FY2003	FY2004
Annual State Support *			
Tier 1 Excellence Funds	\$5,533,185	\$6,651,584	\$0
State General Revenue Appropriation **	\$130,736,757	\$135,067,138	\$129,705,973
State Staff Benefits Appropriation	\$22,335,000	\$23,078,000	\$23,078,000
Dedicated Appropriations (primarily Texas Grant)	\$6,704,781	\$8,855,560	\$8,076,590
Higher Education Assistance Fund (HEAF)	\$25,819,929	\$25,519,929	\$25,519,929
Interest Income on State Treasury Balances	\$1,340,000	\$390,000	\$645,000
Total	\$192,469,652	\$199,562,211	\$187,025,492
* Excludes State Research Grants			
** In addition to support for university educational & general operations, this line includes funding for the following special line items:			
	FY2002	FY2003	FY2004
Texas Center for Superconductivity	\$4,340,000	\$4,340,000	\$3,797,500
Small Business Development Center	\$2,769,500	\$2,769,500	\$2,707,033
Houston Partnership for Space Exploration	\$421,037	\$421,037	\$368,407
Health Law and Policy Institute	\$350,000	\$350,000	\$306,250
Center for Public Policy	\$300,000	\$300,000	\$262,500
Partnerships-Support Publ. Schools	\$1,647,215	\$1,647,215	\$1,441,313
Commercial Development of Space	\$482,288	\$482,288	\$422,002
Learning and Computation Center	\$2,328,789	\$2,328,789	\$2,037,690
Total	\$12,638,829	\$12,638,829	\$11,342,695
GRAND TOTALS	\$205,108,481	\$212,201,040	\$198,368,187

APPENDIX 1

UHD State Funding (2002 - 2004)

	FY2002	FY2003	FY2004
Annual State Support *			
Tier 1 Excellence Funds	\$49,445	\$59,439	\$0
State General Revenue Appropriation **	\$20,906,276	\$22,325,142	\$20,880,465
State Staff Benefits Appropriation	\$3,565,836	\$3,806,788	\$3,710,706
Dedicated Appropriations (primarily Texas Grant	\$1,860,945	\$1,871,179	\$1,972,422
Higher Education Assistance Fund (HEAF)	\$4,626,264	\$4,626,264	\$4,626,264
Interest Income on State Treasury Balances	\$300,000	\$350,000	\$56,900
Total	\$31,308,766	\$33,038,812	\$31,246,757

APPENDIX 1

UHCL State Funding (2002 - 2004)

Annual State Support*	FY2002	FY2003	FY2004
Tier 1 Excellence Funds	\$633,661	\$761,740	\$0
State General Revenue Appropriation **	\$27,246,060	\$29,715,633	\$26,723,744
State Staff Benefits Appropriation	\$4,374,381	\$4,485,244	\$5,079,234
Higher Education Assistance Fund (HEAF)	\$3,013,471	\$3,013,471	\$3,013,471
Interest Income on State Treasury Balances	\$310,000	\$270,000	\$295,000
Total	\$35,577,573	\$38,246,088	\$35,111,449
* Excludes State Research Grants			
** In addition to support for university educational & general operations, this line includes funding for the following special line items:			
	FY2002	FY2003	FY2004
Houston Partnership for Environmental Studies	\$500,001	\$500,001	\$437,501
High Technologies Lab	\$69,229	\$69,229	\$60,575
Total	\$569,230	\$569,230	\$498,076
GRAND TOTALS	\$36,146,803	\$38,815,318	\$35,609,525

APPENDIX 1

UHV State Funding (2002 - 2004)

Annual State Support *	FY2002	FY2003	FY2004
Tier 1 Excellence Funds	\$0	\$0	\$0
State General Revenue Appropriation **	\$10,610,078	\$10,725,933	\$11,881,430
State Staff Benefits Appropriation	\$842,965	\$1,578,905	\$2,076,030
Dedicated Appropriations			
(primarily Texas Grant)	\$31,576	\$82,674	\$81,640
Higher Education Assistance Fund (HEAF)	\$443,325	\$443,325	\$443,325
Interest Income on State Treasury Balances	\$47,747	\$21,828	\$14,811
Total	\$11,975,691	\$12,852,665	\$14,497,236
* Excludes State Research Grants			
** In addition to support for university educational & general operations, this line includes funding for the following special line items:			
	FY2002	FY2003	FY2004
Small Business Development Center	\$200,000	\$195,000	\$195,489
Regional Outreach	\$300,000	\$300,000	\$262,500
Total	\$500,000	\$495,000	\$457,989
GRAND TOTALS	\$12,475,691	\$13,347,665	\$14,955,225

APPENDIX 2

UH Division of Research Annual Report of Sponsored Research Activity Awards By Federal Agency

Federal Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
Institute for Museum and Library Services		\$112,500.00	\$2,970.00
National Aeronautics and Space Administration	\$6,120,533.00	\$3,280,300.00	\$2,261,917.00
National Endowment for the Arts	\$50,000.00	\$76,132.00	
National Institute of Standards and Technology	\$33,950.00		\$74,945.00
National Institutes of Health	\$10,322,818.38	\$15,439,629.90	\$23,683,884.00
National Science Foundation	\$4,378,990.00	\$4,622,582.00	\$7,928,196.00
South Texas Veterans Health Care System			\$71,347.65
U.S. Dept. of Agriculture	\$121,000.00	\$34,400.16	
U.S. Dept. of Commerce		\$59,176.00	
U.S. Dept. of Commerce - Nat'l Oceanic & Atmospheric Admin.	\$45,284.00		
U.S. Dept. of Defense	\$2,608,403.50	\$2,009,425.00	\$2,394,802.50
U.S. Dept. of Education	\$2,106,750.00	\$3,096,653.00	\$2,584,472.00
U.S. Dept. of Energy	\$978,528.00	\$2,341,902.00	\$1,498,326.00
U.S. Dept. of Housing and Urban Development	\$15,000.00		
U.S. Dept. of Interior Minerals Management		\$328,492.00	
U.S. Dept. of State	\$125,000.00		
U.S. Dept. of the Interior	\$80,000.00	\$25,000.00	\$30,000.00
U.S. Dept. of Transportation - Federal Highway Admin.	\$27,406.00		
U.S. Environmental Protection Agency		\$1,995,600.00	\$3,500,000.00
U.S. Small Business Administration	\$1,553,083.00	\$1,613,453.00	\$1,613,452.00
U.S.D.A. Forest Service			\$68,990.00
Veterans Administration	\$47,463.20	\$10,706.88	
Total Awards for Federal Agencies	\$28,614,209.08	\$35,045,951.94	\$45,713,302.15

APPENDIX 2

UH Division of Research Annual Report of Sponsored Research Activity Awards By State Agency

State Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
Alcon Research Limited			\$100,000.00
Gulf Coast Hazardous Substance Research Center - Lamar Univ.		\$366,968.00	\$153,528.00
Introgen Therapeutics	\$51,660.00		
Lamar Univ.	\$369,656.00	\$32,152.00	
Region 13 Education Service Center		\$75,060.00	
Roche Diagnostics	\$43,131.66		
Texas A&M Engineering Experiment Station			\$513,942.00
Texas A&M Univ.	\$261,981.00	\$119,382.00	\$99,786.00
Texas Cancer Council	\$77,304.00	\$75,390.00	
Texas Commission on Alcohol and Drug Abuse	\$27,000.00		
Texas Commission on Environmental Quality		\$1,804,200.00	\$2,299,692.00
Texas Commission on the Arts	\$24,254.00	\$32,598.00	\$48,443.00
Texas Department of Health	\$399,200.00	\$535,699.00	\$612,075.00
Texas Department of Protective and Regulatory Services	\$940,105.00	\$1,929,713.00	\$1,139,487.00
Texas Department of Transportation	\$1,012,983.89	\$642,782.00	\$1,365,138.00
Texas Education Agency	\$1,184,089.00	\$1,225,233.00	\$2,115,554.00
Texas Engineering Extension Service	\$436,857.00	\$550,258.00	\$681,815.00
Texas Hazardous Waste Research Center	\$96,455.00	\$64,304.00	\$66,182.00
Texas Higher Education Coordinating Board	\$206,700.00	\$422,119.00	\$155,968.00
Texas Higher Education Coordinating Board - ARP		\$2,901,611.97	\$23,400.00
Texas Higher Education Coordinating Board - ATP		\$2,311,673.00	\$26,100.00
Texas Higher Education Coordinating Board - ERAP		\$158,000.00	
Texas Higher Education Coordinating Board - TDT		\$406,100.00	
Texas Natural Resource Conservation Commission	\$174,827.00		
Texas Parks and Wildlife	\$10,538.03		\$124,000.00
Texas Tech Univ.		\$104,942.00	\$16,000.00
Texas Telecommunications Infrastructure Fund Board		\$1,267,269.00	\$1,207,417.00
Texas Water Development Board		\$30,000.00	
Univ. of Houston - Residual Funds	\$19,111.91		
Univ. of Texas - Cancer Center		\$176,614.05	
Univ. of Texas - Cancer Center (M.D. Anderson Hosp. & Tumor Inst.)	\$2,398,019.65		\$177,086.27
Univ. of Texas at Austin		\$914,812.00	\$671,738.00
Univ. of Texas at El Paso		\$20,911.00	\$90,000.00
Univ. of Texas Health Science Center at Houston		\$1,482,167.37	\$877,920.95
Univ. of Texas Health Science Center at San Antonio		\$29,523.00	
Univ. of Texas Medical Branch at Galveston			\$93,187.00
Total Awards for State Agencies	\$7,733,873.14	\$17,679,481.39	\$12,658,459.22

APPENDIX 2

UH
Division of Research
Annual Report of Sponsored Research Activity
Awards By Local Agency

Local Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
Aldine Independent School District		\$200,000.00	
City of Houston Health and Human Services	\$30,000.00		
City of Houston, Department of Public Works			\$100,000.00
City of Houston, Texas		\$49,842.00	\$1,219,186.00
City of Pearland Public Works Dept.		\$18,624.50	
City of San Marcos	\$4,127.00		
Foerester Elementary School		\$111,698.00	
Fort Bend Independent School District		\$17,000.00	
Harlandale Independent School District	\$25,550.00	\$18,600.00	
Harris County Department of Education	\$406,082.00		
Houston Independent School District	\$135,450.00	\$11,936.00	\$138,609.00
Mental Health Mental Retardation Authority	\$9,000.00		\$9,120.00
Metropolitan Board of Education	\$108,359.00		
Metropolitan Transit Authority		\$20,000.00	\$11,963.00
Total Awards for Local Agencies	\$718,568.00	\$447,700.50	\$1,478,878.00

APPENDIX 2

UH Division of Research Annual Report of Sponsored Research Activity Awards By Private/Non-Profit Agency

Private/Non-Profit Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
American Chemical Society		\$130,000.00	\$80,000.00
American Heart Association - National Center	\$259,600.00	\$140,000.00	\$75,000.00
American Heart Association - Texas Affiliate		\$76,441.00	\$62,000.00
American Petroleum Institute	\$181,545.00	\$93,337.00	\$280,591.00
American Psychological Association		\$6,930.00	
American Society of Nephrology			\$12,500.00
City of Norfolk Virginia	\$33,044.00	\$8,000.00	
Corporation for Public Broadcasting	\$288,564.00	\$329,290.00	\$361,512.00
Cultural Arts Council of Houston and Harris County	\$133,548.00	\$121,431.00	\$106,544.00
DePelchin Children's Center	\$86,434.00		\$43,217.00
Fermi National Accelerator Laboratory			\$28,959.00
Fiberglass Tank & Pipe Institute	\$85,000.00		
Garth Hill School			\$81,260.40
Gas Technology Institute		\$57,886.00	
Greater Houston Restaurant Association	\$6,000.00		
Gulf Coast Community Services Association			\$509,257.00
Hines Elementary School		\$37,500.00	\$32,912.00
Houston Advanced Research Center			\$188,337.81
Human Frontier Science Program	\$187,500.00		
Interfaith Ministries	\$5,000.00		
International Association of Chiefs of Police		\$5,000.00	
International Center for Scientific Culture World Laboratory		\$168,000.00	
March of Dimes	\$50,000.00		
Montgomery County United Way		\$4,500.00	
Muscular Dystrophy Association	\$66,818.00	\$73,908.00	
NAFSA: Association of International Educators		\$850.00	
National College Choreography Initiative		\$10,000.00	
National Football League Youth Fund			\$8,000.00
National Geographic Society			\$16,500.00
National Institute of Polar Research		\$39,344.00	
National Multiple Sclerosis Society		\$27,500.00	
National Renewable Energy Lab			\$30,000.77
Neighborhood Centers, Inc.	\$8,831.00		
Oshman's Supersports USA	\$2,500.00		
Pecos County/West Texas Spaceport Development Corporation			\$80,000.00
Petroleum Research Fund	\$88,500.00	\$180,000.00	\$145,000.00
Project GRAD		\$183,585.43	\$552,819.00
Project Grad - Atlanta		\$510,773.00	\$760,184.88
Project Grad - Cincinnati			\$118,806.00
Project Grad - Houston		\$988,011.00	\$661,141.00

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UH Division of Research Annual Report of Sponsored Research Activity Awards By Private/Non-Profit Agency

Private/Non-Profit Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
Project GRAD - Knoxville Elementary Schools		\$144,856.00	\$403,623.00
Project GRAD - Newark		\$520,549.00	\$109,051.80
Project Grad - USA			\$80,877.00
Project Grad, Columbus, Ohio		\$444,430.00	\$204,447.00
Project Grad, Los Angeles	\$1,913,448.28	\$544,811.00	\$250,258.00
Research Corporation			\$35,000.00
Research Institute of the American College of Clinical Pharmacy			\$27,000.00
Research Partnership to Secure Energy for America			\$153,848.00
Sandler Program for Asthma Research			\$125,000.00
South Florida Water Management District		\$24,900.00	
Tejano Center for Community Concerns		\$55,000.00	\$60,000.00
Texas Air Research Center	\$107,572.00	\$150,000.00	\$216,693.00
Texas Alliance for Minorities in Engineering, Inc.	\$25,000.00	\$25,000.00	
Texas Center for Educational Research	\$45,396.00	\$49,256.00	
Texas Chemical Council	\$44,715.10	\$45,551.70	\$45,450.35
Texas Children's Hospital	\$14,006.00		
Texas Council for the Humanities			\$4,700.00
Texas Space Grant Consortium	\$25,000.00	\$12,500.00	
The Institute for Rehabilitation and Research	\$135,271.69	\$217,802.09	\$135,569.24
United Way Clinic Service and Sales			\$107,944.54
United Way of Baytown		\$3,600.00	
United Way of the Texas Gulf Coast	\$301,806.94	\$261,399.00	\$266,399.00
Universities Space Research Association		\$132,623.00	\$68,698.00
Total Awards for Private/Non-Profit Agencies	\$4,095,100.01	\$5,824,564.22	\$6,529,100.79

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UH Division of Research Annual Report of Sponsored Research Activity Awards By Private/Profit Agency

Private/Profit Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
ABS - American Bureau of Shipping			\$131,085.00
AGIP Petroleum Co.		\$16,860.00	\$11,025.00
Ameron International		\$48,000.00	\$45,000.00
Anadarko Petroleum Corporation		\$7,500.00	\$34,005.00
Applied Ethnographics LTD		\$1,600.00	
Applied Optoelectronics Inc.	\$40,000.00		
AstraZeneca Pharmaceuticals, LP			\$79,543.30
Axcelis Technologies, Inc.	\$114,736.00		
Baker Oil Tools	\$25,000.00		
Bartok Incorporated			\$35,416.60
Baseline DGSi		\$960.00	\$4,165.00
Bausch and Lomb Company	\$55,760.00	\$32,258.96	\$120,821.07
Bayer Corporation	\$7,500.00		
Champion Technologies		\$24,000.00	
Chemterra International (CTI)			\$1,925.00
Chevron Corporation		\$141,659.00	
Chevron Petroleum Technology Company	\$193,249.00	\$25,000.00	
ChevronTexaco		\$13,541.00	\$166,746.00
Ciba Vision	\$28,348.20		\$37,195.04
Conoco Corporation			\$600.00
COVA Materials, Inc.			\$23,100.00
Cummins Engine Company	\$18,399.00		
Cummins Inc.			\$22,267.79
Dassault Aviation		\$10,000.00	
Eagle-Picher Technologies, LLC	\$3,654.00		
Eckerd Corp.		\$36,331.20	
Educational Development Corporation	\$3,570.00	\$3,964.95	\$3,871.00
Epichem, Ltd.	\$50,000.00		
Equilon Enterprises LLC	\$20,000.00	\$5,500.00	
Exxon Chemical Company		\$27,972.09	
Exxon-Mobil Upstream Development Company	\$150,186.00		
ExxonMobil Upstream Research Co.		\$102,027.91	\$50,000.00
Fusion Systems Corp.		\$112,999.00	
Glaxo Wellcome	\$100,350.00		
Greater Houston Partnership	\$53,000.00	\$70,666.00	\$53,000.00
Groundwater Services, Inc.	\$126,420.00		
Halliburton Energy Services	\$75,000.00		\$30,000.00
Headworks, Inc.	\$2,320.00		
Hill-Rom Inc.	\$1,440.00		
Houston Advocates for Mental Health in Children	\$21,700.00		

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UH Division of Research Annual Report of Sponsored Research Activity Awards By Private/Profit Agency

Private/Profit Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
Idaho National Engineering Laboratory		\$7,375.00	
Infineon Technologies	\$109,000.00	\$54,500.00	
In-Space Propulsion, Inc.			\$16,000.00
International Food Policy Research Institute	\$10,000.00		
Ionen Mikrofabrikations Systeme	\$13,500.00		
Ionwerks, Inc.	\$130,045.29		
Istanbul Stock Exchange	\$32,000.00		
J. Ray McDermott Company			\$1,993.62
Jet Propulsion Laboratory	\$131,102.00		
John W. Largen, Ph.D.	\$16,053.00	\$14,643.84	\$761.55
Kalsi Engineering, Inc.			\$45,422.00
Kellogg Brown & Root	\$21,000.00		
KLT Gas Incorporated			\$41,000.00
Lam Research Corporation		\$28,387.00	
Lockheed Martin Missiles and Fire Control - Dallas	\$45,000.00		\$45,000.00
Lockwood, Andrews & Newnam (LAN), Inc.	\$72,415.00	\$49,855.00	
Lowry Environmental Engineering		\$84,100.00	
Lucent Technologies	\$53,419.82		\$2,382.20
Macro International Inc.	\$71,981.00		
Marubun Corporation	\$10.00		
Matthew L. Nance, Ph.D.		\$16,679.88	\$351.18
Medennium, Inc.			\$2,881.00
Merck & Co. Inc.		\$39,525.00	\$60,000.00
Metal Oxide Technologies, Inc		\$382,775.00	\$190,999.00
Metro Optics		\$12,496.10	
Microgen Systems, Inc.	\$37,589.00		
Miller Theatre Advisory Board, Inc.	\$78,000.00	\$80,000.00	\$60,393.00
Mixed Multi-Donors	\$280,784.94	\$138,153.18	\$68,885.50
Montgomery Watson Americas, Inc.		\$35,000.00	\$45,001.00
Novartis Ophthalmics AG			\$56,127.00
Ocean Drilling Program	\$35,721.41		
Ocular Sciences, Inc.		\$26,140.44	\$140,586.86
Ortho-McNeil Pharmaceuticals	\$20,956.00		
Paragon Vision Science	\$10,625.00		
Pemex Exploration y Produccion	\$74,940.00		
Petroleos de Venezuela - Exploracion y Produccion		\$95,385.00	
Pfizer Central Research	\$149,769.00		\$101,032.00
Pharmacia		\$29,905.00	\$209,078.00
Phillips Petroleum Company		\$9,069.00	
Quest Vision	\$8,248.56		

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UH Division of Research Annual Report of Sponsored Research Activity Awards By Private/Profit Agency

Private/Profit Agency Name	2001 Award Total	2002 Award Total	2003 Award Total
Robertson Research International Limited		\$20,000.00	
SABIC Americas, Inc.			\$15,000.00
Sandia National Laboratories		\$30,000.00	\$64,940.00
Santa Ana Unified School District	\$29,096.09		
Seagate Technology			\$75,000.00
SEMATECH		\$95,522.00	\$85,000.00
Sharp Laboratories of America, Inc.	\$75,000.00	\$200,000.00	\$380,000.00
Shell Chemicals		\$15,000.00	
Shell International Exploration and Production Inc.	\$20,000.00	\$40,000.00	\$105,000.00
Sinotech Engineering Consultant, Inc.	\$89,925.00		
Sistemas y Procesos Avanzadas	\$25,000.00		
Sojourner Truth Academy	\$21,791.00	\$9,600.00	
Solvay Polymers, Inc.	\$11,412.67		
Sud-Chemie, Inc.	\$75,437.00		
SUN Microsystems		\$25,000.00	
Swiss Federal Institute of Technology (ETH)			\$45,000.00
Texaco Group, Inc.	\$397,237.00	\$77,016.00	
Texas Engineering Experiment Station		\$141,135.00	
Texas Resource for Early Autism Treatment			\$80,910.42
The RETEC Group, Inc.			\$120,000.00
TomoSeis	\$42,823.00		
UNOCAL Corporation			\$25,900.00
Valvtechnologies, Inc.		\$150,000.00	\$50,000.00
Various Private Profit Agencies	\$425,250.88	\$618,980.00	\$986,702.14
VisiGen Biotechnologies, Inc.	\$56,795.00	\$262,031.00	
Westport Technology Center International			\$141,161.00
WYLE Laboratories		\$9,000.00	\$5,000.00
Xeotron Corporation		\$924,010.00	
Total Awards for Private/Profit Agencies	\$3,762,559.86	\$4,402,123.55	\$4,117,273.27

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UH Division of Research Annual Report of Sponsored Research Activity Awards By Foundations

Foundation Name	2001 Award Total	2002 Award Total	2003 Award Total
Alberta Heritage Foundation for Medical Research		\$3,117.91	
Alfred P. Sloan Foundation		\$40,000.00	
American Speech-Language-Hearing Foundation			\$4,280.00
American Water Works Association Research Foundation		\$150,000.00	
Andrew W. Mellon Foundation	\$5,305.93		\$2,915.74
Arnold and Mabel Beckman Foundation		\$240,000.00	
Brookdale Foundation		\$6,000.00	
Brown Foundation, Inc.	\$45,000.00		
California Wellness Foundation			\$25,000.00
Carnegie Corporation of New York			\$25,000.00
Charles Stewart Mott Foundation		\$75,000.00	
David and Lucile Packard Foundation	\$18,400.00		
Ewing Marion Kauffman Foundation	\$159,500.00		
Ford Foundation		\$170,000.00	
Greater Houston Community Foundation	\$82,678.00		
Hogg Foundation for Mental Health	\$89,472.00	\$59,603.00	
Houston Endowment, Inc.	\$50,000.00		
John A. Hartford Foundation		\$166,128.00	\$17,872.00
Keck Foundation	\$53.09		\$29.63
Kelsey-Seybold Foundation		\$20,615.00	
Life Sciences Research Foundation	\$40,000.00	\$80,000.00	
Lion's Eye Bank Foundation	\$9,050.00		
McDougal Family Foundation			\$65,637.00
Meadows Foundation	\$115.68		
National Association of Chain Drug Stores Education Foundation		\$4,000.00	
National Association of Scholars		\$49,495.14	\$32,794.86
National Foundation of Cancer Research	\$300,000.00		\$50,000.00
National Keratoconus Foundation			\$5,000.00
Nolan Moore Memorial Education Foundation			\$5,000.00
Ohio State University Research Foundation	\$226,842.00	\$318,416.00	\$396,692.00
Robert A. Welch Foundation	\$2,298,589.06	\$2,092,334.00	\$2,599,911.68
Rockefeller Foundation			\$77,927.77
San Diego State University Foundation	\$17,391.00	\$24,348.00	
SENG Foundation		\$24,298.16	
Shell Oil Company Foundation	\$20,000.00		
Sid W. Richardson Foundation		\$21,500.00	
Southwestern Bell Foundation			\$20,000.00
Spencer Foundation	\$101,850.65		
Steans Family Foundation	\$28,453.68		
Susan G. Komen Breast Cancer Foundation	\$180,000.00		

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Awards By Foundations

Foundation Name	2001 Award Total	2002 Award Total	2003 Award Total
Texas A&M Research Foundation	\$53,810.00		\$105,506.00
Texas Equal Access to Justice Foundation		\$55,000.00	
United States Israel Binational Science Foundation	\$15,877.00		\$13,577.00
University of Houston Foundation	\$1,000,000.00	\$659,767.00	\$77,354.00
US Civilian Res/Dev Fdtn. for Indep States of Former Soviet Union	\$32,260.00		
US Civilian Research and Development Fdtn.			\$6,000.00
Total Awards for Foundations	\$718,568.00	\$2,564,860.14	\$3,530,497.68

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UH Division of Research Annual Report of Sponsored Research Activity Awards By University

University Name	2001 Award Total	2002 Award Total	2003 Award Total
Ames Laboratory/Iowa State University			\$8,400.00
Baylor College of Medicine	\$498,788.24	\$644,950.40	\$801,376.74
Brown University	\$251,456.00	\$175,692.00	\$67,412.00
Colorado School of Mines			\$138,348.00
Columbia University	\$80,391.00		\$41,948.00
Essex County College			\$52,140.00
Ferris State University			\$29,700.00
Iowa State University		\$8,400.00	
New Jersey City University			\$19,000.00
Ohio State University		\$69,000.00	
PVAMU Center for Applied Radiation Research		\$24,601.00	
Rice University	\$1,201,321.00	\$888,469.00	\$1,000,858.00
Rochester Institute of Technology	\$8,000.00		
U. C. - Lawrence Livermore National Laboratory			\$50,000.00
University of Alaska Geophysical Institute			\$108,225.00
University of Albany, SUNY			\$18,123.00
University of Arizona			\$70,000.00
University of Bergen			\$20,650.00
University of California - Irvine		\$23,500.00	\$131,900.00
University of California - San Diego		\$192,745.00	
University of California - Santa Cruz	\$920,867.00	\$1,907,453.00	\$164,066.00
University of California (Los Alamos National Laboratory)			\$50,566.00
University of Georgia			\$10,330.00
University of Illinois	\$106,125.00		
University of Illinois at Chicago		\$275,700.00	\$70,000.00
University of Louisville School of Medicine		\$63,962.00	\$21,040.00
University of Miami			\$189,412.00
University of New Orleans - Great Cities Universities			\$31,999.60
University of North Carolina at Chapel Hill	\$132,654.00	\$79,416.00	
University of Rochester			\$263,704.00
University of Tennessee			\$82,140.00
University of Tulsa	\$116,495.00		\$200,833.00
Uppsala University, Sweden	\$29,555.70		
Vanderbilt University	\$79,356.00		
Yale University		\$34,607.00	\$107,175.00
Total Awards for Universities	\$3,425,008.94	\$4,388,495.40	\$3,749,346.34
GRAND TOTAL ALL AGENCIES	\$53,123,967.12	\$72,047,939.21	\$77,776,857.45

APPENDIX 2

UHD Division of Research Annual Report of Sponsored Research Activity Awards By Agency

	2001	2002	2003
Agency Name	Award Total	Award Total	Award Total
FEDERAL AGENCIES			
College Work Study		\$424,150.00	\$419,259.00
Dept of Ed	\$1,429,645.00	\$1,939,598.00	\$2,028,029.00
DOD/Army	\$236,846.00		\$30,000.00
DOD/ARO			\$794,780.00
DOD/Navy	\$199,900.00		
DOD/ONR		\$65,000.00	\$110,000.00
DOT	\$118,600.00	\$118,600.00	\$118,600.00
Federal Pell Grant Program	\$7,216,248.00	\$8,442,418.00	\$10,013,395.00
NASA	\$491,996.00	\$264,598.00	\$269,265.00
NIH			\$37,800.00
NSF	\$241,961.00	\$2,158,125.00	\$609,685.00
SEOG		\$302,971.00	\$300,778.00
USDA	\$284,982.00		
Total Awards for Federal Agencies	\$10,220,178.00	\$13,715,460.00	\$14,731,591.00
STATE AGENCIES			
Coordinating Board/ARP	\$50,000.00		
Coordinating Board/ATP	\$39,080.00		
JAMP/State of TX	\$86,017.00		
THECB	\$158,000.00		
TIFB	\$184,532.00		
Total Awards for State Agencies	\$517,629.00		
LOCAL AGENCIES			
CACHH		\$4,000.00	
City of Houston			\$6,200.00
Cultural Arts Council Houston			\$5,000.00
Fusion UV Systems		\$5,800.00	
HGAC	\$19,598.00		
HISD		\$40,000.00	
Welch Foundation		\$120,000.00	
Total Awards for Local Agencies	\$19,598.00	\$169,800.00	\$11,200.00
GRAND TOTAL ALL AGENCIES	\$10,757,405.00	\$13,885,260.00	\$14,742,791.00

APPENDIX 2

UHCL Division of Research Annual Report of Sponsored Research Activity Awards By Agency

	2001	2002	2003
Agency Name	Award Total	Award Total	Award Total
FEDERAL AGENCIES			
Army Environmental Policy Institute	\$100,877	\$18,495	
Baylor College of Medicine			\$55,190
Department of Health and Human Services	\$39,815	\$54,886	
General Land Office	\$10,980		
GlaxoSmithKline	\$49,643	\$68,903	\$61,000
Houston Advanced Research Center			\$15,000
Houston Independent School District		\$7,500	\$3,750
Jefferson Laboratories			\$9,346
Jet Propulsion Laboratory		\$9,465	
Lee College	\$53,584	\$55,191	
LifeGift	\$54,418		
MMRF	\$39,000		
NABI	\$93,620	\$74,942	\$20,000
NASA		\$275,441	\$387,642
NASA Headquarters	\$9,572		
NASA/Johnson Space Center	\$5,538,646		\$50,982
National Environmental Education & Training Founda	\$5,000		
National Environmental Policy Act	\$5,000	\$7,232	
National Fish and Wildlife Fund	\$38,000		
National Institutes of Health			\$39,793
National Science Foundation	\$172,679		\$100,000
National Writing Project	\$28,000	\$38,000	\$53,000.00
Rice University	\$35,443	\$17,850	\$20,600
Sloan Foundation			\$6,000
Texas Commission on Environmental Quality		\$137,000	\$21,000
Texas Engineering Extension Service	\$158,000	\$158,000	\$168,000
Texas Higher Education Coordinating Board	\$79,000	\$157,881	\$79,999
Texas Natural Resource Conservation Commission	\$167,424		
U. S. Department of Agriculture	\$20,000		\$65,000
U. S. Department of Education	\$4,579,405	\$3,124,239	\$4,308,350
U. S. Fish and Wildlife Service	\$20,000	\$26,917	
University of Texas Medical Branch at Galveston	\$31,872		
UT Health Science Center-San Antonio		\$1,730	\$1,730
Wyle Laboratories		\$4,831	
Total Awards for Federal Agencies	\$11,329,978.00	\$4,238,503.00	\$5,466,382.00

APPENDIX 2

UHCL Division of Research Annual Report of Sponsored Research Activity Awards By Agency

	2001	2002	2003
Agency Name	Award Total	Award Total	Award Total
STATE AGENCIES			
Texas Commission on the Arts	\$4,818		
Texas Council on Economic Education	\$84,074	\$84,074	
Texas Department of Criminal Justice	\$155,000	\$154,671	\$195,018
Texas Telecommunications Infrastructure Fund	\$159,352		
Texas Telecommunications Infrastructure Fund	\$287,816	\$136,973	
Texas Workforce Commission	\$34,650		
Total Awards for State Agencies	\$725,710.00	\$375,718.00	\$195,018.00
LOCAL AGENCIES			
Annenberg Foundation			\$25,000
Central Brazos Co., Inc.	\$14,847		
ECOT		\$55,618	
GTRI		\$5,591	
Houston Advanced Research Center			\$5,579
Houston Independent School District	\$24,750		
Houston Ship Channel Environmental			\$3,262
Malcolm Pirnie, Inc.		\$20,000	
Parsons Engineering	\$4,560		
Parsons Engineering Science, Inc.			\$6,400
Science Applications International	\$7,000		
The Welch Foundation	\$45,000	\$45,000	\$95,000
Total Awards for Local Agencies	\$96,157.00	\$126,209.00	\$135,241.00
GRAND TOTAL ALL AGENCIES	\$12,151,845.00	\$4,740,430.00	\$5,796,641.00

APPENDIX 2

UHV Division of Research Annual Report of Sponsored Research Activity Awards By Agency

	2001	2002	2003
Agency Name	Award Total	Award Total	Award Total
FEDERAL AGENCIES			
Department of Education	\$755,498.07	\$967,805.00	\$1,196,373.00
Small Business Administration	\$132,153.00	\$134,127.00	\$120,000.00
Total Awards for Federal Agencies	\$887,651.07	\$1,101,932.00	\$1,316,373.00
STATE AGENCIES			
Texas Higher Education Coordinating Board	\$291,149.00	\$454,712.00	\$316,835.00
Texas State Library	\$18,671.00		
Texas Telecommunications Infrastructure	\$151,868.00		
University of Texas at San Antonio	\$65,045.00	\$65,381.00	\$60,564.00
University of Texas Health Science Center at Houston			\$68,995.00
Total Awards for State Agencies	\$526,733.00	\$520,093.00	\$446,394.00
LOCAL AGENCIES			
Golden Crescent Workforce Development Contract	\$23,944.89		
Houston Endowment, Inc.	\$225,000.00		
Southwestern Bell Foundation	\$2,500.00		
Union Carbide	\$6,000.00		
Alcoa Grant			\$102,600.00
Dow Grant			\$11,500.00
Fondren Grant			\$125,000.00
Houston Endowment, Inc.			\$177,500.00
Trull Foundation			\$6,000.00
Total Awards for Local Agencies	\$257,444.89	\$0.00	\$422,600.00
GRAND TOTAL ALL AGENCIES	\$1,671,828.96	\$1,622,025.00	\$2,185,367.00

APPENDIX 3

UH System Enrollment (2003 - 2004)

	UH	UHV	UHCL	UHD	ALL
Summer 2003	Headcount by Classification				
Freshman	746	0	0	679	1,425
Sophomore	1,476	22	0	685	2,183
Junior	2,705	207	642	932	4,486
Senior	5,154	347	1,295	1,853	8,649
Post Bacc.	800	213	77	304	1,394
Master	2,217	917	2,246	112	5,492
Doctoral	730	0	0	0	730
Law	530	0	0	0	530
Optometry	183	0	0	0	183
Pharmacy	228	0	0	0	228
All	14,769	1,706	4,260	4,565	25,300
	UH	UHV	UHCL	UHD	ALL
Fall 2003	Headcount by Classification				
Freshman	6,001	0	0	3,739	9,740
Sophomore	5,483	52	0	1,678	7,213
Junior	6,331	446	1,644	1,766	10,187
Senior	8,209	554	2,036	3,055	13,854
Post Bacc.	1,643	87	246	624	2,600
Master	3,992	1,272	3,850	112	9,226
Doctoral	1,372	0	0	0	1,372
Law	1,190	0	0	0	1,190
Optometry	376	0	0	0	376
Pharmacy	469	0	0	0	469
All	35,066	2,411	7,776	10,974	56,227
	UH	UHV	UHCL	UHD	ALL
Spring 2004	Headcount by Classification				
Freshman	4,164	0	0	2,761	6,925
Sophomore	5,331	60	0	1,810	7,201
Junior	6,558	441	1,555	2,073	10,627
Senior	8,719	556	2,063	3,099	14,437
Post Bacc.	1,566	70	229	552	2,417
Master	3,839	1,235	3,684	109	8,867
Doctoral	1,357	0	0	0	1,357
Law	1,135	0	0	0	1,135
Optometry	378	0	0	0	378
Pharmacy	452	0	0	0	452
All	33,499	2,362	7,531	10,404	53,796

APPENDIX 4

Metropolitan Commitments to Higher Education Comparisons Among the Largest 60 Cities

MSA/ PMSA Name	Total FTE Enrollment per 1000 Population	Total Degrees Conferred per 1000 Population	Total Higher Education Expenditure per 1000 Population	Total Research Expenditure per 1000 population	Federal Grants and Contracts per 1000 population	Total Staff Employment per 1000 population
Atlanta, GA MSA	33.69	6.97	\$1,112,970	\$177,811	\$137,147	11.86
Austin-San Marcos, TX MSA	66.07	14.05	\$1,311,164	\$200,845	\$190,327	23.02
Baltimore, MD PMSA	29.19	6.36	\$1,182,138	\$227,202	\$334,731	11.33
Bergen-Passaic, NJ PMSA	22.12	3.09	\$304,481	\$471	\$13,240	4.36
Boston, MA-NH PMSA	47.86	12.71	\$1,556,706	\$229,847	\$201,065	18.80
Buffalo-Niagara Falls, NY MSA	40.26	10.08	\$841,117	\$63,817	\$117,677	9.95
Charlotte-Rock Hill, NC-SC MSA	27.40	3.86	\$398,604	\$4,402	\$26,642	6.35
Chicago, IL PMSA	36.22	6.76	\$922,260	\$71,476	\$90,265	11.41
Cincinnati, OH-KY-IN PMSA	31.01	5.74	\$602,786	\$53,025	\$69,689	8.87
Cleveland-Lorain-Elyria, OH PMSA	20.14	3.83	\$495,509	\$83,947	\$82,927	6.85
Columbus, OH MSA	48.03	10.80	\$1,538,971	\$151,248	\$115,638	19.67
Dallas, TX PMSA	28.96	5.23	\$562,170	\$57,506	\$56,085	8.05
Denver, CO PMSA	31.93	6.00	\$567,795	\$70,392	\$112,407	7.73
Detroit, MI PMSA	21.99	4.03	\$332,969	\$27,412	\$29,788	4.61
Fort Lauderdale, FL PMSA	19.04	3.48	\$277,811	\$2,044	\$12,730	3.82
Fort Worth-Arlington, TX PMSA	26.64	3.81	\$405,057	\$15,460	\$26,835	6.37
Grand Rapids-Muskegon, MI MSA	36.65	5.54	\$494,161	\$4,818	\$22,750	5.88
Greensboro-Winston-Salem, NC MSA	38.94	7.02	\$1,041,058	\$82,318	\$121,044	10.67
Hartford, CT MSA	35.57	8.12	\$1,231,244	\$92,205	\$84,737	14.12
Houston, TX PMSA	17.67	2.30	\$548,110	\$100,262	\$105,914	6.30

APPENDIX 4

Metropolitan Commitments to Higher Education Comparisons Among the Largest 60 Cities

MSA/ PMSA Name	Total FTE Enrollment per 1000 Population	Total Degrees Conferred per 1000 Population	Total Higher Education Expenditure per 1000 Population	Total Research Expenditure per 1000 population	Federal Grants and Contracts per 1000 population	Total Staff Employment per 1000 population
Indianapolis, IN MSA	20.70	3.83	\$576,955	\$56,500	\$67,929	7.04
Jacksonville, FL MSA	21.34	3.19	\$262,589	\$2,440	\$24,755	4.57
Kansas City, MO-KS MSA	27.10	5.18	\$446,055	\$40,805	\$32,741	7.75
Las Vegas, NV-AZ MSA	20.85	2.62	\$230,761	\$11,266	\$19,671	4.16
Los Angeles-Long Beach, CA PMSA	38.45	6.05	\$996,138	\$87,175	\$123,076	10.03
Memphis, TN-AR-MS MSA	31.51	3.99	\$723,718	\$57,015	\$66,457	7.66
Miami, FL PMSA	32.05	5.82	\$740,968	\$74,451	\$112,152	11.04
Middlesex-Somerset, NJ PMSA	11.54	0.07	\$1,115,061	\$140,162	\$125,763	1.54
Milwaukee-Waukesha, WI PMSA	36.78	7.11	\$841,637	\$64,711	\$75,426	11.37
Minneapolis-St. Paul, MN-WI MSA	37.22	6.61	\$893,503	\$122,291	\$123,397	12.01
Monmouth-Ocean, NJ PMSA	18.36	2.13	\$190,246	\$1,147	\$7,354	3.15
Nashville, TN MSA	41.81	8.58	\$1,483,703	\$140,892	\$206,697	19.10
Nassau-Suffolk, NY PMSA	31.39	5.69	\$709,411	\$39,384	\$65,524	6.45
New Orleans, LA MSA	36.35	7.12	\$1,863,022	\$117,411	\$133,460	12.74
New York, NY PMSA	37.10	8.00	\$995,051	\$88,575	\$108,567	11.43
Newark, NJ PMSA	30.50	5.59	\$1,025,443	\$68,943	\$75,463	11.81
Norfolk-Newport News, VA-NC MSA	29.03	6.13	\$520,554	\$32,009	\$57,100	7.80
Oakland, PA PMSA	41.07	6.40	\$784,600	\$134,899	\$122,305	12.22
Oklahoma City, OK MSA	52.39	9.82	\$1,087,865	\$88,457	\$118,108	14.53
Orange County, CA PMSA	46.64	5.61	\$505,100	\$44,038	\$49,407	9.30

APPENDIX 4

Metropolitan Commitments to Higher Education Comparisons Among the Largest 60 Cities

MSA/ PMSA Name	Total FTE Enrollment per 1000 Population	Total Degrees Conferred per 1000 Population	Total Higher Education Expenditure per 1000 Population	Total Research Expenditure per 1000 population	Federal Grants and Contracts per 1000 population	Total Staff Employment per 1000 population
Orlando, FL MSA	33.74	5.06	\$360,329	\$31,504	\$28,705	6.10
Philadelphia, PA-NJ PMSA	34.61	7.14	\$1,505,334	\$119,717	\$127,854	11.92
Phoenix-Mesa, AZ MSA	36.10	5.16	\$422,665	\$22,197	\$42,450	5.38
Pittsburgh, PA MSA	40.24	7.87	\$966,416	\$170,358	\$185,208	13.76
Portland-Vancouver, OR-WA PMSA	28.51	5.21	\$444,862	\$16,146	\$44,966	6.90
Providence-Fall River, RI-MA MSA	43.79	7.93	\$889,729	\$38,259	\$81,692	11.31
Raleigh-Durham-Chapel Hill, NC MSA	65.75	16.26	\$3,754,364	\$577,674	\$530,599	44.62
Riverside-San Bernardino, CA PMSA	19.59	1.64	\$262,857	\$28,718	\$27,395	4.61
Rochester, NY MSA	47.53	8.73	\$1,856,465	\$151,107	\$230,414	15.03
Sacramento, CA PMSA	40.24	3.14	\$190,968	\$4,270	\$16,686	4.72
Salt Lake City-Ogden, UT MSA	27.11	4.72	\$1,031,822	\$117,659	\$109,730	10.62
San Antonio, TX MSA	28.75	4.32	\$535,482	\$49,478	\$86,839	7.23
San Diego, CA MSA	49.76	8.88	\$937,524	\$149,466	\$180,744	12.76
San Francisco, CA PMSA	55.29	8.77	\$1,453,209	\$203,612	\$212,498	20.53
San Jose, CA PMSA	34.19	8.50	\$1,356,630	\$361,296	\$373,056	9.33
Seattle-Bellevue-Everett, WA PMSA	39.26	6.38	\$1,108,540	\$184,574	\$215,022	11.70
St. Louis, MO-IL MSA	27.27	6.73	\$740,365	\$101,584	\$139,428	9.97
Tampa-St. Petersburg, FL MSA	26.47	4.36	\$397,529	\$42,218	\$44,846	6.39
Washington, DC-MD-VA-WV PMSA	22.21	5.56	\$608,319	\$53,666	\$114,883	7.13
West Palm Beach-Boca Raton, FL MSA	24.01	4.90	\$357,408	\$17,232	\$27,682	5.44

APPENDIX 5

University of Houston

Arts and Entertainment

A.I. Lack Music Master Series

The Moores School of Music's A.I. Lack Music Master Series presents renowned master teachers and performers in a series of public master classes. Previous guests include such recognized artists as Christoph Eschenbach, Pinchas Zukerman, Samuel Ramey, Marilyn Horne, and Frederica von Stade. Tickets are available through the Moores School of Music Box Office, (713) 743-3313. For information, call (713) 743-3167.

Arte Público Press

Arte Público Press is the oldest and largest publisher of U.S. Hispanic books and anthologies of fiction, nonfiction, and history for children and adults. Its imprint for children and young adults, Piñata Books, is dedicated to the realistic and authentic portrayal of the themes, languages, characters, and customs of Hispanic culture in the United States. Based at the University of Houston, Arte Público Press, Piñata Books and the Recovering the U.S. Hispanic Literary Heritage project provide the most widely recognized and extensive showcase for Hispanic literary arts, history, and politics. For information, visit www.artepublicopress.com.

Athletics Ticket Office

The Athletics Ticket Office, located in the Athletics/Alumni Center, sells season and individual tickets to all Cougar athletics events. UH competes in 15 NCAA Division 1-A sports as a member of Conference USA. For information, visit the website at www.uhcougars.com or call the Ticket Office at (713) 743-9444 or (713) GO COOGS.

Blaffer Gallery, the Art Museum of the University of Houston

Blaffer Gallery serves as the University of Houston's laboratory for the visual arts and culture. Innovative, challenging exhibitions, programs, and publications bring artists, the university community, and the people of Houston into closer engagements with each other and with the important cultural issues of our time. Museum hours are Tuesday through Saturday, 10 a.m. to 5 p.m. The museum is closed on Sundays, Mondays and university holidays. Blaffer Gallery is free and open to the public. For information, call (713) 743-9530 or visit www.blaffergallery.org.

Blaffer Internships

Blaffer Gallery offers internships to UH students as well as to people from other institutions, including the Chicago Art Institute and Wellesley. Interns work in the areas of curatorial, public relations, art handling, registration, development, and financial management. For information, call (713) 743-9526.

Children's Theatre Festival

The Children's Theatre Festival produces three plays each summer for more than 30,000 children and their families. Held in the Lyndall Finley Wortham Theatre on the UH campus, the festival

employs actors, directors and technicians from regional, national, and international communities. For more information, call (713) 743-2930. For performance schedule and ticket information, call the theatre box office at (713) 743-2929 or visit www.class.uh.edu/theatre/performances_childrenstheatrefestival.html.

Cougar Hall of Fame

University sports highlights and memorabilia are featured in the Cougar Hall of Fame near the entrance of the Athletics/Alumni Center. Among the items on display are Andre Ware's Heisman Trophy, Wilson Whitley's Lombardi Award and Carl Lewis' Olympic Gold Medals. The Cougar Hall of Fame is open to the public Monday through Friday, from 8 a.m. to 5 p.m. For information, contact the Athletics Department at (713) 743-9450.

Creative Writing Program

The UH Creative Writing Program sponsors readings and literary programs in museums, arts organizations, schools, and bookstores. Many programs are presented in collaboration with other organizations, such as Brazos Bookstore, Inprint Inc., Nuestra Palabra, The Asia Society, and the UH M.D. Anderson Library. For information, call (713) 743-3013.

Creative Writing Program Community Partnership

In collaboration with Writers in the Schools, graduate students in the Creative Writing Program teach creative writing to Houston Independent School District students in elementary through high school at the M.D. Anderson Cancer Center and the Menil Museum. An arrangement with Inprint, Inc. allows UH students to work weekly with underprivileged children at Project Row Houses and with senior citizens at the Jewish Community Center to develop creative writing skills and an appreciation of literature. For information, call (713) 743-3013.

Edward Albee Workshop

In collaboration with Stages Repertory Theatre, UH's three-time Pulitzer Prize-winning playwright Edward Albee mounts full-length original plays. For information, call (713) 743-2930.

Engines of Our Ingenuity

The Engines of Our Ingenuity, a daily radio feature written and hosted by John Lienhard and produced by KUHF-88.7 FM, tells the story of how human creativity forms our culture. The program uses the record of history to reveal the way art, technology, and ideas have shaped us. The Engines website, www.uh.edu/engines/, is a rich resource, providing classroom material and transcripts of more than 2,000 episodes accompanied by graphics, source references, and links to related sites. For information, contact John Lienhard at (713) 743-4518.

EVENTLine

This 24-hour telephone line, (713) 743-9999, features recorded information about entertainment, lectures, meetings, sports, and workshops scheduled each day at the University of Houston. For information, access the UH Events calendar website from the UH home page (www.uh.edu) or call UH OnCALL at (713) 743-2255.

Exhibitions and Lectures - Gerald D. Hines College of Architecture

The Gerald D. Hines College of Architecture hosts lectures, exhibits and events in cooperation with agencies of several nations, the Rice Design Alliance, the American Institute of Architects, and other organizations. Events are open to the public. For information, call (713) 743-2385.

French Artists in Houston

Blaffer Gallery collaborates with the Texas French Alliance to present French artists in Houston and Texas artists in Lyon, France. For information, call (713) 743-9526.

FreshArts Coalition

Blaffer Gallery collaborates with the FreshArts Coalition to market 19 Houston-based visual and performing arts groups. For information, call (713) 743-9526.

Graduate Internships – Sports Administration

Under the supervision of the College of Education faculty, graduate students in sports management serve internships with professional sports teams and facilities, and exercise science students work with area businesses and recreation agencies. For information or to request an intern, call (713) 743-9848.

Houston Shakespeare Festival

Houston Shakespeare Festival annually presents two Shakespeare plays at the Miller Outdoor Theatre in Hermann Park. More than 34,000 people attend the free performances each summer. The City of Houston co-produces the festival. For information, call (713) 743-2930. For performance schedules, call (713) 743-3003 or (713) 520-3290 or visit www.class.uh.edu/theatre/performances_houstonshakespearefestival.html.

Immanuel and Helen Olshan Texas Music Festival

The Immanuel and Helen Olshan Texas Music Festival is a four-week summer residency orchestral and chamber music performance program for outstanding instrumentalists from Houston, the United States, and abroad. It offers performance study with members of the UH faculty, the Houston Symphony, and distinguished guest artists. TMF also offers specialized performance institutes for younger musicians in the Houston area. Tickets for public concerts are available through the Moores School of Music Box Office at (713) 743-3313. For information, call (713) 743-3167 or email tmf@uh.edu.

Inprint Brown Reading Series

Presented by Inprint, Inc. in association with the UH Creative Writing Program and the Alley Theatre, the Inprint Brown Reading Series is one of the most highly regarded literary programs in the United States. It has brought in many famous authors and poets, including Pulitzer Prize winners. Held at the Alley Theatre, the Reading Series runs from September through April on Monday evenings and admission is \$5 per reading and free for students. For information, contact Inprint at (713) 521-2026 or visit the Inprint website, www.inprint-inc.org.

International Piano Festival

Three internationally recognized pianists present this annual series of recitals and master classes during a weekend in late January. Concert tickets and a full list of events are available through the Moores School of Music Box Office at (713) 743-3313. For information, call (713) 743-3167.

Jenkins Distinguished Lecture

Presented annually by the Graduate College of Social Work, the Jenkins Distinguished Lecture features nationally and internationally known speakers who address issues of importance to both social work professionals and the community at large. For information, call (713) 743-3599.

John P. McGovern Annual Lectureship

This lecture series, sponsored by the College of Liberal Arts and Social Sciences, brings to campus speakers with notable expertise in the areas of family, health, and/or human values. For information, call (713) 743-3110.

Joint Exhibitions

Blaffer Gallery collaborates with various museums in Houston on joint exhibitions. For information, call (713) 743-9526.

KUHF-88.7 FM

KUHF- 88.7 FM broadcasts classical music and National Public Radio (NPR) news to the Gulf Coast region. In addition, KUHF-88.7 FM records concerts from a diverse cross-section of the Houston performing arts community and provides national exposure to performers by making these recordings available on NPR's Performance Today. For information, log on to www.uh.edu/kuhf or call (713) 743-0887.

KUHT-TV

HoustonPBS (KUHT-TV/Channel 8 & KUHT-DT/Channel 9), the nation's first public television station, broadcasts local and national PBS productions, and other acquired programs to viewers throughout the Southeast Texas Gulf Coast. The station also televises college courses and educational outreach services to improve school readiness for young children. HoustonPBS also provides "beyond broadcast" resources and educational workshops on numerous issues concerning area viewers. For information, call (713) 748-8888 or (800) 364-KUHT, or visit www.houstonpbs.org.

Moores School of Music

The Rebecca and John J. Moores School of Music serves the community with a wide variety of public concerts and cultural opportunities. Among the school's annual offerings are performances by student ensembles, faculty, and guest recitalists, and programs such as the A.I. Lack Music Master Series, International Piano Festival, the Immanuel and Helen Olshan Texas Music Festival, and the Moores School of Music Preparatory and Continuing Studies. For information about concert schedules, visit www.uh.edu/music or call (713) 743-3313.

Moore School of Music Preparatory and Continuing Studies

This non-credit, non-degree granting program brings music to all ages and all levels of ability through private and group instruction. Lessons are available in most orchestral instruments, piano, guitar, saxophone, Suzuki violin, voice, music theory, composition, flute, and percussion. PCS is also the current home of the renowned Houston Boychoir. For more information, visit www.music.uh.edu/%PCS/geninf.html or call (713) 743-3398.

Museum Website Development

Blaffer Gallery collaborates with the UH College of Education to develop educational websites for museums. For information, call (713) 743-9526.

Poetry & Prose: Creative Writers at the University of Houston

This program is a reading series presented by the University of Houston Libraries and features faculty, graduate students, and alumni of the UH Creative Writing Program. All readings are free and open to the public and held at the M.D. Anderson Library. For information, call (713) 743-9781.

School of Theatre Costume Department

The School of Theatre's Costume Department provides costume rental service to not-for-profit theaters, school districts, UIL competitions, private schools, churches, fraternal organizations, and other university programs on a fee schedule that is standardized for all participants. The department also provides advice in makeup and costume design, craftsmanship and technology on an individual basis to Houston Independent School District, private, professional, community and statewide theatrical productions. In addition, the school's Design Program will make recommendations for novice costume and makeup designers in producing organizations. Student designers are available for a fee to the venue as contracted. For information, call (713) 743-2918.

School Partnership Program

Blaffer Gallery's UHReach School Partnership Program provides elementary, middle, and high schools with a multidisciplinary experience through guided tours of the gallery as well as pre- and post-visit classroom instruction. The pre-visit interactive slide presentation introduces students to the works of the exhibition. The gallery visit reinforces the exhibition's concepts and familiarizes the students with the physical characteristics of an art gallery. The post-visit involves a hands-on art activity related to the exhibition. Additionally, teachers from participating schools receive education kits. For information, call (713) 743-9526.

Shakespeare Outreach

A touring company of young actors brings Shakespeare to public venues free of charge. Programs are approximately 35 minutes in length. For information, call (713) 743-2930.

Sports Camps

Each summer, the Athletics Department hosts a variety of sports camps for boys and girls ages 6 to 18. Typically, the following sports are offered: baseball, boy's basketball, girl's basketball, football, soccer, track and field, and volleyball. The individual sport departments set dates, times, fees, and age requirements. For information, search the summer camp database at

www.uh.edu/summercamp, contact UH OnCALL at (713) 743-2255, or visit <http://uhcougars.collegesports.com/index-main.html>.

Studio Saturday

This community event is held in conjunction with Blaffer Gallery exhibitions. Community members, families, students, and art lovers can explore their creative sides and gain inspiration from Blaffer exhibits. Events include guided tours and drawing contests. For information, call (713) 743-9530.

Summer Arts Workshop

Blaffer Gallery invites children ages 6 to 12 to create their own artworks at its popular Summer Arts Workshop. Children learn artistic concepts while using a broad range of media – everything from crayons to chalk, paint, fabric, glitter, sculpting clay, feathers, cardboard, and shells – to create collages, paintings, and ingenious 3D projects. For information, call (713) 743-9526.

Tour Program

Free guided tours of Blaffer Gallery are offered to groups of 10 or more children or adults. Teachers, professors, parents, and tour groups with their escorts are invited to register for a tour. Knowledgeable docents are advanced undergraduate and graduate students in art, art history, and education, as well as professional artists. Interactive tours offer students and others insight into Blaffer's changing exhibitions of internationally known contemporary artworks, and tours can be customized to the group. To schedule a tour, call (713)743-9526 at least one week in advance.

Touring Authors of Houston

Arte Público Press is the oldest and largest publisher of U.S. Hispanic books and anthologies of fiction, non-fiction, and history for children and adults. Arte Público Press authors conduct creative writing workshops and readings at schools and community centers throughout the United States. For more information about organizing an author visit for your organization or school, call (713) 743-2999.

UH OnCALL

Friendly customer service specialists are "on call" at (713) 743-CALL (2255) weekdays 8 a.m. to 6 p.m. to answer questions about services, programs, and events at UH. The call center also maintains the university's online events calendar (accessible from the home page at www.uh.edu) and the EVENTLine at (713) 743-9999.

Underwood Lecture

Hosted by the UH Graduate College of Social Work's American Humanities Nonprofit Certificate Program, the annual Underwood Lecture focuses on youth, community, philanthropy, and other social issues. This lecture is free and open to the public. For information, call (713) 743-8145.

Wortham Theatre Box Office

The Lyndall Finley Wortham Theatre Box Office handles individual and group ticket sales and distribution for School of Theatre productions including student productions, Children's Theatre Festival, Houston Shakespeare Festival and performances by the school's Dance Division. For

information about performance schedules, visit the School of Theatre website at www.class.uh.edu/theatre/ or call the box office at (713) 743-2929.

Young Artist Apprenticeship Program

Blaffer Gallery partners with local art teachers to provide an intensive workshop experiences with professional artists to at-risk high school students. Participants visit the gallery each day after school for hands-on studio experience with practicing artist-mentors. Workshops are six weeks long and held in the fall and spring. After exploring artistic and professional techniques, the young artists create their own works of art, which are then presented publicly in a professionally installed exhibition. For information, call (713)743-9526.

Business and Industry

Allied Geophysical Laboratories (AGL)

The AGL mission is to develop and calibrate new means of imaging hydrocarbon accumulations. AGL uses state-of-the-art physical modeling and cluster computing as tools to extract new information from currently underutilized types of seismic data. Current efforts address issues in vector seismic analysis, extraction of more information from the long-offset component of seismic data that is usually muted, and the integrated analysis of multiple 3D seismic attribute cubes. For information, visit www.agl.uh.edu/ or call (713) 743-9119.

Asian American Studies Center (AASC)

The AASC explores Asians' and Asian Americans' social, historical, educational, economic, political, and linguistic characteristics and development through course work and study abroad trips. The center's China Study Abroad Program is one of the largest such programs in the United States. Similar study abroad programs in Japan, Vietnam, and South Korea are being developed. The center also offers a Leadership Training Program for Asian government officials and business and educational leaders. For information, call (713) 743-4982.

Blakely Advocacy Institute (BAI)

Continuing legal education in advocacy and lawyering technique and representation of Houston's underserved are just two of the methods the Blakely Advocacy Institute uses to improve the efficacy of the legal profession and justice system. BAI also coordinates all of the UH Law Center's practical skills courses and sponsors the many interscholastic moot court and mock trial teams that compete throughout the nation. For information, call (713) 743-2065, email Blakely@uh.edu, or visit www.law.uh.edu/blakely/.

Building Performance Laboratory (BPL) Initiative

Using digital instrumentation and computer simulation models, the BPL performs comprehensive post-occupancy evaluation studies where environmental design intentions are verified and validated against everyday experiences of the building occupants. It also provides LEED-accredited project commissioning and continuous commissioning services matching the ongoing operation and control of a building to its design intent as well as its changing use patterns. For information, call (713) 743-2372 or visit www.arch.uh.edu/news/BPL.html.

Catering Research Institute (CRI)

CRI provides the hospitality industry with research assistant internships in menu development, salary surveys, event themes, legal issues, data analysis, and curriculum design. CRI also offers internships, mentoring opportunities, scholarships, continuing education programs and workshops and seminars through distance learning or satellite programs. For information, call (713) 743-1480.

Center for Applied Geoscience Excellence

Researchers in this center, with the support of industry and government partners, are improving the methods of analyzing reservoirs using new seismic data. For information, call (713) 743-9119.

Center for Entrepreneurship and Innovation (CEI)

The C.T. Bauer College of Business' Center for Entrepreneurship and Innovation serves the business community by promoting the knowledge and practice of entrepreneurship through guest lectures, mentor programs, roundtables, and a Stakeholder Association. For information, contact CEI at (713) 743-4752.

Center for Executive Development

The Center for Executive Development in the C.T. Bauer College of Business provides a range of high-quality public and custom executive education, management development, and business professional training programs to the local, regional, national, and international business communities. For information, call (713) 743-4800 or visit www.bauer.uh.edu/ced.

Center for Innovative Grouting Materials and Technology (CIGMAT)

CIGMAT is an industry/university consortium established to meet growing demand from industry for better management of information on grouts and grout applications. Ongoing research projects include rehabilitation of wastewater facilities, a new generation of deep foundations, and new pipes and materials. The center's goal is to foster improved understanding of grouting materials and their applications. Also of interest are other competing and complementing materials and technologies to grouting used in construction and rehabilitation of civil infrastructure. For information, call (713) 743-4178 or visit <http://gem1.cive.uh.edu/>.

Center for Materials Chemistry (CMC-UH)

The Center for Materials Chemistry at the University of Houston includes faculty members from physics, chemistry, and chemical engineering. The center has two major research themes: Advanced Oxides and Related Materials and Controlled Structures and Properties of Hybrid Organic-Inorganic Nanomaterials and Thin Films. Industry partners help formulate the research goals and participate in joint projects to maximize technology transfer to the commercial sector. CMC-UH offers undergraduates the opportunity to perform cutting edge research during a nine-week in-residence program. Students participating in this National Science Foundation-sponsored program receive a \$4,000 stipend, rent-free housing, and three hours UH course credit. For information, visit www.cmc.uh.edu/home.htm or call (713) 743-2785.

Center for Public Policy

The Center for Public Policy identifies and evaluates major public policy issues affecting the Houston metropolitan area, as well as the state of Texas. The Center is an active source for impartial research regarding regional political, economic, and demographic issues. For information, call (713) 743-3972 or visit www.uh.edu/cpp.

Center for the Americas

The Center for the Americas promotes understanding among American countries through scholarly exchange, international symposiums, and consultation services to the public and private sectors. The center supports research on a wide range of cultural, political and social topics, including trade and economic reform, the environment, pressing social issues, the status of indigenous peoples, drugs, civil-military relations, freedom of the press, human rights and American cultures. For information, call (713) 743-9102.

Center for the Reliability of Ceramics

The center provides a cooperative forum for university, national lab, and industrial researchers to cooperate on research directed toward the improvement of ceramic performance in engineering applications. Research topics include crack growth resistance modeling in brittle materials, statistical prediction of failure of engineering components, multi-scale determination of failure mechanisms in ceramics, and fatigue degradation in ceramics and ceramic composites. For information, visit www.egr.uh.edu/me/ceramics/ or call (713) 743-4526.

Clinical Legal Education Program (CLEP)

Attorneys, judges, legal referral services, and social service agencies can refer cases to the Clinical Legal Education Program. Under the supervision of licensed attorneys, students work directly with clients, handling all aspects of case management, including performing client interviews, preparing motions, and participating in court hearings and trials. For information, call (713) 743-2065 or visit www.law.uh.edu/blakely/.

Composites Engineering and Applications Center (CEAC)

The Composites Engineering and Applications Center for Petroleum Exploration and Production investigates the potential technical and life-cycle cost benefits of composite materials in onshore and offshore operations. Of special interest are structural components such as risers, tethers, moorings, and spoolable sub-sea flow lines for deep-water applications where present materials may have performance and economic limitations. The current CEAC consortium includes the University of Houston, international petroleum E&P companies, supporting industries, and U.S. government/certification agencies. For information, call (713) 743-5053 or visit www.egr.uh.edu/CEAC.

Computer Design Center

The Computer Design Center in the Gerald D. Hines College of Architecture investigates the use of the computer as a design tool, with an emphasis on modeling, visualization, and animation. Partnerships have been established with computer software manufacturers and Houston area nonprofit groups. For information, call (713) 743-2384 or (713) 743-2403.

Cooperative Education

Cooperative Education (Co-op) enables students in any major to receive career training with pay as they work with professionals in their fields of study. Work experience in government, business, industry, and human services enhances a student's academic training. This valuable experience is documented on a student's official transcript. For information, call (713) 743-4232 or visit www.egr.uh.edu/coop.

Customized In-House Training

UH Continuing Education offers onsite training services for corporations and organizations. Programs available include leadership and management skills, foreign languages taught through accelerated learning, marketing communications, project management, English as a Second Language, and employee benefit specialist certification. Customized and standard training programs are available. For information, call (713) 743-1185.

Direct Business Assistance

Direct Business Assistance, a program of the UH Small Business Development Center, provides referrals to professionals such as CPAs and attorneys who offer discounted fees for the first 16 hours of consultation, with the first two hours free of charge. For information, call (713) 752-8400.

Economic Development Program (EDP)

The Economic Development Program at the C. T. Bauer College of Business is a coordinated effort between State Farm Insurance, the Bauer College of Business, and the Local Initiatives Support Corporation to promote community development in Houston. As part of State Farm's efforts to comply with the Community Reinvestment Act (CRA), State Farm Insurance has gifted \$75,500 to the Bauer College to administer the EDP. The EDP provides MBA and undergraduate business students real world experience in community development and inspires them to future leadership in these development organizations, while also building capacities of existing Community Development Corporations (CDCs).

Effective Communication in the American Workplace (English as a Second-Language)

This training program is specifically designed to boost the language skills of employees who speak English as a Second Language. It complements employees' technical and professional expertise and strengthens the effectiveness of multicultural teams. Training modules include Clear Speech, Grammar, Effective E-writing, Effective Presentation and Meeting Skills, Effective Communication: Teamwork and Collaboration, and Effective Communication: Working with Your Manager. For information, call (713) 743-1185 or visit www.uh.edu/continuingeducation/prog/esl.html.

Elizabeth D. Rockwell Career Services Center

The C.T. Bauer College of Business' Elizabeth D. Rockwell Career Services Center helps area businesses identify, recruit and hire qualified and skilled business professionals. The center offers traditional recruiting services as well as cutting-edge technology and online job listings to assist employers in filling structured internships and both part-time and full-time positions. For information, visit the website at www.cba.uh.edu/dept/csc/csc.html or call (713) 743-4590.

Engineering Career Center

The Engineering Career Center is a comprehensive service center for both students and industry dedicated to the development and implementation of programs and services that provide a lifetime of career management for students as well as professional and quality responsiveness to industry partners to assist them in meeting their recruiting targets. For information, visit www.egr.uh.edu/career.

Engineering Education Outreach

Engineering Education Outreach provides individual discipline review courses for graduate engineers taking the upper-level of state exams (Professional Engineer-PE/P&P and Fundamentals of Engineering-FE/EIT). Short courses are available to provide professional development hours for those seeking to continue their registration as professional engineers. A one-hour workshop on engineering ethics can be presented at local companies. Other custom programs may be arranged. For information call (713) 743-4202 or visit www.egr.uh.edu/ContEd/.

Engineering Leadership & Entrepreneurism Program (ELEP)

To meet the challenge of providing engineers for the 21st century, the Cullen College of Engineering promotes the Engineering Leadership & Entrepreneurism Program. ELEP serves the engineering profession by broadening student knowledge base and experience in entrepreneurial and business practices through the sponsorship of guest lectures, mentor programs, and retreats. For information, call (713) 743-4202.

Engineering, Science, Technology Council of Houston (ECH) Annual Open Retreat

In January of each year, the Cullen College of Engineering hosts the Annual Open Retreat of the ECH. Representatives from Houston-area professional engineering societies, as well as deans/representatives from the University of Houston and Rice University, participate in the retreat, and plans for the upcoming year are presented. For information, call (713) 743-4215.

Export Working Capital Program (EWCP)

The Export Working Capital Program provides short-term financing guarantees of up to \$750,000 to small business exporters. The proceeds can be used to finance the manufacture of goods or the purchase of goods and services for export, or it can be used to support stand-by letters of credit. UH Small Business Development Center prepares the loan application at no charge. For information, call (713) 752-8404.

Gaming Education and Research Institute

This institute within the Conrad N. Hilton College of Hotel and Restaurant Management provides public and private policy makers in Texas and other jurisdictions with a source of current information that assists in determining the social, economic, and regulatory impacts of gaming activity. In addition, it sponsors continuing education and executive development programs. For information, call (713) 743-2444.

Global Energy Management Institute (GEMI)

The C. T. Bauer College of Business at the University of Houston has created the Global Energy Management Institute to prepare the energy industry workers of today while exploring the issues

important to the future. GEMI uses a multi-disciplinary approach to address the comprehensive needs of the energy industry, from risk and project management to accounting and systems development. Programs and resources provided by GEMI include educational programs at the undergraduate, graduate and executive levels; professional networking opportunities, including forums, seminars and symposia; and an energy research center with emphasis on topics provided by member companies. For information, visit www.bauer.uh.edu/UHGEMI/index.asp.

Graphic Communications Technology Program

The College of Technology cooperates with the Texas Printing Institute (TPI), a non-profit teaching activity of the Texas Printing Education Foundation, to offer non-credit, short-term courses to working professionals. Courses are taught for three hours on evenings and on Saturdays, usually last only five weeks, and cover topics such as the operation of computer software and hardware. The TPI also offers courses tailor-made to the needs of specific businesses. For information, contact the Texas Printing Institute at (713) 522-1066.

Hands-On Learning/Studio Work

The Gerald D. Hines College of Architecture has a long history of “hands-on learning” through community service. Recent community-based projects include a historic survey of Richmond Avenue architecture as well as proposals for a new library and YMCA for the Upper Kirby District; landscape designs for Levy Park; extreme sports facilities for sites within Beltway 8; an urban village, with mixed-uses, around future Houston light rail stations; Music World Headquarters for client Destiny’s Child; and a prototype sustainable school building for the Houston Independent School District.

Hospitality Financial and Technology Professionals Research Institute (HFTPRI)

The Internet can certainly be a useful resource in the hospitality industry, but it cannot always find exactly what you are looking for. Now HFTPRI has established a research institute to make it easier for you to find the answers to all of your hospitality-related questions, simple or complex, without spending hours making phone calls and searching the Internet. For information, visit www.hrm.uh.edu/?PageID=101.

Hospitality Industry Diversity Institute

Among the first of its kind and one of the top in the nation, the institute was established to create a focus and forum for diversity-related issues and opportunities affecting the hospitality industry, its employees, and the global market place. It offers seminars, survey services, and publications. For information, call (713) 743-2680.

Hospitality Industry Hall of Honor

The Hall of Honor provides an appropriate tribute to the founders and leaders of the hospitality industry, as well as a unique learning experience for those preparing to lead the industry in the future. The Hall of Honor includes more than 32 separate exhibits of memorabilia that illustrate the life stories and accomplishments of these hospitality legends. The exhibits are open for public viewing and are adjacent to the Conrad N. Hilton College Library and Archives in the south wing of the college. For information, call (713) 743-2432 or (713) 743-2470 or visit www.hrm.uh.edu/?PageID=178.

Houston 100

The Houston 100, a program of the UH Small Business Development Center, is an awards program that ranks the fastest-growing, private businesses making the greatest impact on the Houston area. For information, call (713) 752-8449.

Houston InfoComm Technology (HIT) Center

The HIT Center is a consortium that provides support for collaborative research in first response, traffic mobility, clean air mitigation and homeland security. For information, visit www.thehitcenter.org/.

Houston IT Workforce Study

This College of Technology program examines how educators and students in information technology (IT) fields search for and respond to labor demand “signals” from area IT employers. Findings showed that, despite the availability of general labor market information at the federal and state levels, it is difficult for Houston technology students, educators, and workers to locate accurate and timely information on local labor market demand, particularly for rapidly evolving occupations such as technology. Without accurate labor market demand information, education and training investments at both the individual and institutional levels may be misplaced. For information, visit www.tech.uh.edu/college/research/workforce_study.htm.

Industrial Distribution Practicum

Graduating students in the Logistics Technology degree program in the College of Technology are required to complete senior projects that resolve real and substantial problems for business, industry, or community sponsors. These problems include marketing, inventory analysis, warehousing, forecasting, optimizing resources, meeting customer demand, and any issue to help optimize a company’s supply chain. Companies are also invited to contribute real life supply-chain issues for class projects in the graduate distribution courses. The degree program is also establishing logistics internships. For information on the practicum and internships, call (713) 743-4114 or (713) 743-4095.

Industrial Scholar Interns Program

Industrial sponsors provide funding for scholarships as well as paid practical internships for current engineering students. Benefits: industry sees better trained graduates and has the opportunity to test and recruit top students before graduation; students gain invaluable experience while earning significant funding to pay for their education. Industry representatives call (713) 743-4210, students call (713) 743-4204.

Industrial/Organizational Practicum

All industrial/organizational (IO) psychology graduate students are required to work one year in an industrial setting under the supervision of an IO psychologist. Recent host organizations include AON Consulting, Assessment & Development Inc., Compaq Computer, Dell Computer, Jeanneret & Associates, M.D. Anderson Hospital, Personnel Decisions International, and Vandaveer Group. For information about hosting an IO graduate student, call (713) 743-8520.

Information Systems Research Center (ISRC)

The Information Systems Research Center provides a forum for interaction between the Houston business community and C.T. Bauer College of Business information systems faculty and students. The ISRC hosts executive seminars and roundtables on leading-edge issues in information technology management throughout the academic year. The center also conducts directed research with member firms and presents briefings on over-the-horizon information technologies. For information, call (713) 743-4691.

Institute for Business, Ethics, and Public Issues (IBEPI)

The Institute for Business, Ethics, and Public Issues is the facilitating institution for the Greater Houston Business Ethics Roundtable, which is dedicated to promoting ethical business practices. For information, call (713) 743-4560.

Institute for Diversity and Cross-Cultural Management

The Institute for Diversity and Cross-Cultural Management within the C.T. Bauer College of Business helps organizations find ways of working more effectively and cross-culturally through training and advisory services, applied research and access to research databases. For information, call (713) 743-4824.

Institute for Energy, Law & Enterprise (IELE)

The Institute for Energy, Law & Enterprise prepares students, energy industry attorneys and managers, and government policymakers and regulators for more competitive global energy markets. The institute's research focus is on frameworks for commercially viable energy projects and the business-government interface. Professional training opportunities include conferences such as "New Era in Oil, Gas & Power Value Creation," "Commercial Frameworks for LNG in North America," and "Behind the Gas Pump"; custom training programs tailored to individual companies and industries; and case studies on special topics. For information call (713) 743-4634 or visit www.energy.uh.edu/.

Institute for Future of Fitness and Sports

The Institute for the Future of Fitness and Sports is focused on research and the dissemination of information related to lifelong involvement in sport and fitness. Projects have focused on professional sports spectatorship, and currently are focused on sport team formal and emerging leadership roles and behaviors. For information, call (713) 743-9838.

Institute for Health Care Marketing (IHCM)

The C.T. Bauer College of Business' Institute for Health Care Marketing conducts research in health care marketing and health promotion. For information, call 713-743-4576.

Institute for Improved Oil Recovery

The Institute is an industry/university consortium for conducting research in both improved recovery from, and characterization of, hydrocarbon reservoirs. Ongoing projects include miscible flooding for Alaskan shallow sands, surfactant treatment for fractured carbonates, improved characterization of NMR logging, and effect of capillary/bond numbers on relative permeability. For information, call (713) 743-4331.

Institute for Intellectual Property & Information Law

This institute within the UH Law Center sponsors conferences for lawyer-practitioners, scholars, and judges, and is a leading research entity for improvements in the administration of justice in the intellectual property (IP) and information law areas. IP law embraces the subjects of patent, copyright, and trademark law and trade secret law. Information law includes the laws applying to computer software, and also deals with Internet-related issues. For information, call (713) 743-2180.

Institute for Molecular Design

The Institute for Molecular Design is an educational and research center that focuses on bridging the theoretical and experimental approaches to biomolecular structure and function. This is an area of rapidly increasing importance in medicine and industry, in part because extraordinary advances in computing now make it possible to do accurate theoretical and experimental studies of enzymes, nucleic acids, and biomolecular assemblies. Graduate students and postdoctoral associates enjoy unique opportunities for interdisciplinary research through collaborative research projects within the University of Houston and with the Texas Medical Center. For information, visit www.chem.uh.edu/imd/index.html or call (713) 743-3263.

Institute for Regional Forecasting

The Center for Public Policy's Institute for Regional Forecasting provides data on and analyses of the Houston economy. The institute sponsors the annual Houston Economic Symposium and the Houston Real Estate Symposium, with each symposium drawing more than 1,000 local business and government leaders. The Institute also publishes the popular economic data series in DATAbook Houston. For information, call (713) 743-3869.

Institute of Space Systems Operations (ISSO)

The Institute of Space Systems Operations is the operational agency of the Houston Partnership for Space Exploration, whose mission is to advance the development of the aerospace community in the Houston area and Texas. Particular emphasis is directed to the academic, industrial, and government programs associated with NASA's Johnson Space Center. Since 1991, ISSO projects have established solid professional links between NASA-JSC, the Houston aerospace community, and UH and UH-Clear Lake. For information, visit www.issu.uh.edu/ or call (713) 743-9135.

International Law Institute

The International Law Institute supports a wide range of programs and activities concerning international law and works with faculty, students, and international law practitioners pursuing related academic and research programs. Numerous courses in international and comparative law are offered. For information, call (713) 743-2174.

International Trade Center

The International Trade Center at the UH Small Business Development Center offers free one-on-one consulting, training seminars and trade missions and assistance to prepare loan applications properly for the SBA's Export Working Capital Program and others. The objective is to help small to mid-sized business owners export their products and services to other countries. For information, call (713) 752-8404.

Internships - Consumer Sciences and Merchandising

Consumer Science and Merchandising students in the College of Technology participate in internships with local businesses and retailers to gain real world experience in the merchandising industry. For information, call (713) 743-4030.

Lanier Public Policy Conferences

The Lanier Public Policy Conferences is a lecture series that brings together academicians and journalists to examine major public policy issues that impact Houston as well as the nation. The day-long event is coordinated by Dr. Richard Murray and the Center for Public Policy. Visit www.uh.edu/cpp/lanierconference.htm for more information.

Leadership and Management Certificate Program

This 36-hour continuing education program is designed for current or rising supervisors, administrators, managers, or team leaders. Through a fast-paced, thorough and practical curriculum, this certificate program creates proficient managers. Training modules include Performance Improvement, Coaching and Delegation, Conflict Resolution, Legal Aspects, Time and Resource Management, Effective Work and Team Relationships, Conflict and Legal Issue Resolution, and Communications and Leadership. For information, call (713) 743-1060 or visit www.uh.edu/continuingeducation.

Litigation Skills Program

The Litigation Skills Program provides students with in-depth, practice-oriented training on how attorneys litigate in the state and federal courts, and instruction on the methods for effective negotiation, settlement and alternative dispute resolution techniques.

Loss Prevention Management Institute (LPMI)

Through seminars, special studies, printed reports, and related materials, the LPMI works to create a greater awareness among students, faculty, alumni, and industry professionals of the role of loss prevention management in enhancing the “bottom line” of a corporation or enterprise and to help the hospitality industry develop effective programs for training employees in their roles on behalf of safety and security. For information, visit www.hrm.uh.edu/?PageID=273.

Manufacturing Partnership

Faculty in the Mechanical Technology Department of the College of Technology meet monthly with manufacturing industry representatives to discuss quality improvements in Houston manufacturing. For information, call (713) 743-4036.

Nanosystem Manufacturing Center (NMC)

The mission of the NMC is to develop a suite of enabling technologies for integrating the new ultra-small, ultra-fast magnetic, electronic and molecular device families into powerful nanosystems whose capabilities far exceed the state-of-the-art in data processing, storage and communication. The NMC has received significant financial support from the Defense Advanced Research Projects Agency, the National Security Agency, International-Sematech, the Texas Center for Superconductivity at UH, and the State of Texas Advanced Technology Program. Its industrial partners include EDTEK, Inc., Infineon Technologies, Axcelis Technologies, and Seagate Technologies. For information, call (713) 743-4449.

North American Consortium on Legal Education (NACLE)

The North American Consortium on Legal Education provides a quality legal education by promoting an exchange program at nine member laws schools, chosen for not only their complementarity but for their location in cities such as Montreal, Mexico City, and Washington D.C. Cross-border issues and reasonable solutions are more important today than ever. The University of Houston has always known the importance of Mexico and Canada as neighbors. NAFTA reinforced it. Now NACLE promotes the way to understand these dynamic countries. For information, visit www.law.uh.edu/nacle/.

Practicum in Technology Leadership and Supervision

The Information and Logistics Technology Department in the College of Technology requires its graduating students to complete a senior project. The project is directed toward the resolution of real and substantial problems presented by business, industry, or community sponsors. For information call (713) 743-4090.

Project Management Certificate Program

This continuing education program is designed for project managers and leaders, product development managers, engineers, marketing, operations, R&D and construction managers, functional managers who deal with project managers, and team members who manage tasks and subtasks. The certificate program is presented in two parts: Part I, Tools and Techniques (3 days); Part II: The People Side (2 days). For information, call (713) 743-1060 or visit www.uh.edu/continuingeducation.

Radio Frequency Identification Department (RFID) Alliance

The RFID Alliance – Healthcare, Government, Industry, Academia is located within the Information and Logistics Technology Department of the College of Technology. The purpose of the Alliance is to conduct research and promote the awareness and use of RFID technologies for various applications such as logistics, supply chain, transportation, and medicine. For information, call (713) 743-4100.

Regional Biotechnology/Life Sciences Workforce Alliance

The College of Technology has assumed a leadership role in forming and maintaining an alliance of life science employers, universities, community colleges, BioHouston, the Greater Houston Partnership, the Texas Medical Center and its constituent institutions, and the Texas Gulf Coast Workforce Commission. The biotechnology/life sciences industry in the Houston region is growing as momentum gathers in commercializing the extraordinary life-science technologies that have their origins in the Texas Medical Center and the region's academic and other research institutions. For information, call (713) 743-3465.

Sasakawa International Center for Space Architecture (SICSA)

The Sasakawa International Center for Space Architecture is a unique research, design, and teaching entity within the Gerald D. Hines College of Architecture. Its mission is to plan and implement programs that will advance peaceful and beneficial uses of space and space technology. SICSA also pursues planning and design for difficult and extreme environments on Earth that can benefit from advanced approaches, systems, and applications that are revealed through space investigation and concepts. SICSA's location in Houston affords convenient

access to diverse information resources and collaboration opportunities afforded by NASA's Johnson Space Center, local aerospace companies, major research institutions, and commercial technology enterprises. For information, visit www.sicsa.uh.edu/.

Small Business Administration (SBA) Guaranteed Loan Program

The Small Business Administration provides a key source of financing for small businesses. SBA guaranteed loans give small business owners access to long-term capital that is fairly priced. UH Small Business Development Center provides free assistance to entrepreneurs and business owners in developing a viable loan application that can be submitted to the SBA. For information, call (713) 752-8400.

Small Business Development Center (SBDC)

The UH Small Business Development Center helps small and medium-size businesses start, grow and succeed through free one-on-one business consulting, affordable training seminars and specialty programs. Special programs and services include Direct Business Assistance, International Trade Center, SBA Pre-qualification Loan Program, Procurement Technical Assistance Center (also known as Texas Information Procurement Service), the Houston 100 and Women Business Owners' Roundtable, Technology Program, and Comprehensive Business Research Library. For information, call (713) 752-8444 or visit www.sbdc.uh.

Southwest Public Safety Technology Center (SWTC)

The center develops public safety technology test beds; serves as a test site for a national academic consortium to conduct public safety technology research and development; commercializes new public safety technologies through the creation of partnerships with industry; and provides technology assistance to the law enforcement community. The center addresses issues ranging from traffic congestion to emergency evacuation, from environmental impacts to terrorist attacks, from flood control to emergency medical response, and from collective governing across judiciary boundaries to disaster relief. Center staff made important contributions to the FEMA disaster relief centers after Hurricane Katrina and to joint relief efforts in East Texas after Hurricane Rita. It is also providing the technology leadership at the Houston Port Security Steering Council and planning the regional information technology infrastructure. In partnership with others, SWTC has also launched a number of border security projects ranging from communication interoperability to crime mapping along the Texas-Mexico border.

Strategic Selling and Customer Relationship Management Center

The Strategic Selling and Customer Relationship Management Center, which is part of the Sales Excellence Institute, is an outreach program for current sales and sales management professionals interested in enhancing their education. The professional sales trainers teaching in this center are award-winning instructors and are capable of customizing sales and sales management training to fit various industries and company cultures. For information, visit www.bauer.uh.edu/SEI/sei.htm.

Study Tours

The Center for Public Policy coordinates various professional training programs annually for Global Unisource, Inc., focusing on U.S. government, education and business practices for

professionals in China. The sessions are conducted by faculty of the University of Houston, University of Houston-Clear Lake, and the University of St. Thomas. In addition to classroom lectures, the programs include site visits to locations such as Houston City Hall, the state capitol in Austin, and the office of the Harris County Clerk. For information, call (713) 743-3972.

Supply Chain Research Center (SCRC)

The Supply Chain Research Center at the C. T. Bauer College of Business is a university/industry partnership in research, training, and education. The mission of the Center is to be a leader in supply chain management (SCM) training and education, conduct supply chain projects with various industries and add value to both the class room and to the business community through the dissemination of cutting-edge knowledge of SCM concepts, techniques, and technologies. For information, visit www.bauer.uh.edu/SCRC/index.htm.

Survey Research Institute

The Center for Public Policy's Survey Research Institute, under the guidance of Dr. Richard Murray, conducts an ongoing program of political and public opinion polling for Houston and the State of Texas. The center has provided extensive polling data for the *Houston Chronicle* and KPRC television, as well as for regional public and private sector entities. In addition, Dr. Murray's analyses are frequently carried by national media sources such as *The New York Times* and the *Washington Post*. For information, call (713) 743-3972 or visit www.uh.edu/cpp/polling.htm.

Technology Leadership Intern Program

The Technology Leadership Intern Program within the College of Technology matches outstanding junior and senior students with leading edge companies in the Houston area through internships, job placement, and other collaborative partnerships. For information, call (713) 743-4023.

Technology Research and Education Center (TREC)

The Technology Research and Education Center, through its commitment to advanced technology research, partnerships with technology corporations, and relationships with the academic community, will provide the most current and comprehensive technology information services to benefit all stakeholders in the hospitality industry. TREC stakeholders include technology hardware, software and service corporations; industry associations (AH&LA, HFTP, NRA, HITA, CHRIE, etc.); corporations in the hospitality industry; university hospitality management programs; hospitality students and faculty; and industry trade publications. For information, visit www.hrm.uh.edu/?PageID=106.

Telecom Center

The mission of this center is to build a bridge between the telecommunications industry, institutions in the Texas Medical Center, and UH through joint research projects and educational/training programs. Its current research areas are smart antenna systems, wireless devices and systems for telemedicine and homeland security. In addition, the center leads the way in radio-frequency radiation and interference standards and compliance, and provides educational/training programs, including the Engineering Entrepreneurism program. For information, visit www.egr.uh.edu/telecom/.

Texas Energy Center (TEC)

The Texas Energy Center is a non-profit organization created to integrate and mobilize industry, university, government and other entities in the greater Houston region to meet major energy challenges and to ensure that Houston continues its global energy leadership, not only in conventional energy but also in clean energy. The Cullen College of Engineering is a founding member, along with the Fort Bend Economic Development Council and major energy corporations. For information, visit www.txec.org/.

Texas Information Procurement Service (TIPS)

This service of the UH Small Business Development Center provides one-on-one consulting that helps business owners find government contract opportunities. TIPS also offers seminars and workshops on topics such as marketing to government agencies, utilizing the Internet to find contracts, and small disadvantaged business certification. In addition, TIPS has a computerized bid match service to help companies find new government sales leads. For information, call (713) 752-8477.

Texas Learning and Computation Center (TLC²)

The Texas Learning and Computation Center fosters and supports interdisciplinary research, education and training in computational sciences and engineering through centers, laboratories and individual faculty initiatives. TLC² has state-of-the-art computation, visualization and educational facilities for environmental studies; biological, biomedical and energy research; undergraduate and graduate education; and teacher training. TLC² sponsors conferences and workshops as well as competitions. Outreach partners include the European Space Agency, the Fennessey Ranch, the Houston Area Technology Advancement Center, and the World Space Congress. For information, visit www.tlc2.uh.edu/ or call (713) 743-3371.

Texas Manufacturing Assistance Center (TMAC)

TMAC's specialists provide affordable training and technical assistance to upgrade worker skills, implement best business practices, and connect the manufacturing community to critical information and resources. Services include company assessments, production planning and control (ERP/MRP), Lean Enterprise, product manufacturability, quality management systems, e-Enterprise, workforce development, and strategic management. TMAC also sponsors informational seminars and an annual conference for manufacturers. For information, call (832) 842-7043.

Transactional Clinic

Through the Transactional Clinic, students assist small businesses and nonprofit corporations with legal matters encountered on a daily basis, including negotiating lease agreements, selecting proper organizational formats, and developing employment policies. For information, call (713) 743-2094.

University Career Services (UCS)

University Career Services assists employers in all business and industrial sectors in identifying and recruiting qualified UH students and alumni. UCS serves employers seeking entry-level and experienced job candidates, interns, and part-time and temporary employees. UCS services include on-campus interviews, web-based job postings and resume searches, career fairs, and

internships. Students and alumni in all academic majors are eligible to participate. For information, contact University Career Services at (713) 743-5100 or visit www.career.uh.edu/.

Well Logging Laboratory (WLL)

The Well Logging Laboratory investigates the electric properties of reservoir rocks over a wide range of frequency. In addition, theoretical and experimental studies have obtained a better understanding of electric tool response in complex borehole environments, such as dipping formations, thin invaded beds and anisotropic formations. Public services include nuclear logging calibration facilities and industrial consortium on resistivity logging. For information, call (713) 743-4421 or visit www.welllogginglab.com.

Wine & Spirits Management Institute (W&SMI)

The Wine & Spirits Management Institute is the product of a collaborative effort by the UH community and leaders in the alcohol beverage industry. UH's Conrad N. Hilton College of Hotel and Restaurant Management; DIAGEO; Glazer's Family of Companies; E. & J. Gallo Winery; Spec's Wines, Spirits & Finer Foods; Robert Mondavi; Beringer Blass Wine Estates; Brown-Forman; Futurebrands; and Allied Domecq Spirits & Wine North America have developed a new standard of expertise embodied in the creation of a commercial beverage manager certification program. For information, visit www.wsmi.uh.edu/index.htm.

Women Business Owners' Initiative

The Women Business Owners' Initiative of the UH Small Business Development Center fosters business growth by bringing together experienced, successful women business owners who share their knowledge with women in the process of growing their businesses. For information, call (713) 752-8426.

Cultural Heritage

African American Studies (AAS) Program

The African American Studies Program focuses upon the cultural and historical heritage of African Americans and their contributions to U.S. and world civilizations. The purpose of the program is to develop, promote, and enhance education through teaching, research and community service projects. For information, contact the AAS office at (713) 743-2811.

American Voices: E Pluribus Unum

UH is a partner in a program to support secondary history teachers in their efforts to improve their content knowledge of and appreciation for U.S. history. The program emphasizes three themes: the United States as a nation of immigrants; fundamental U.S. values; and forging a stable, democratic, and prosperous U.S. society. It places special emphasis on new history teachers and teachers of students whose first language is not English. The program grant will also support the establishment of history high schools on existing campuses.

Arte Público Press

Arte Público Press is the oldest and largest publisher of U.S. Hispanic books and anthologies of fiction, nonfiction, and history for children and adults. Its imprint for children and young adults,

Piñata Books, is dedicated to the realistic and authentic portrayal of the themes, languages, characters, and customs of Hispanic culture in the United States. Based at the University of Houston, Arte Público Press, Piñata Books and the Recovering the U.S. Hispanic Literary Heritage project provide the most widely recognized and extensive showcase for Hispanic literary arts, history, and politics. For information, visit www.artepublicopress.com.

Asian American Studies Center (AASC)

The AASC explores Asians' and Asian Americans' social, historical, educational, economic, political and linguistic characteristics and development through course work and study abroad trips. The center's China Study Abroad Program is one of the largest such programs in the United States. Similar study abroad programs in Japan, Vietnam, and South Korea are being developed. The center also offers a Leadership Training Program for Asian government officials, business and educational leaders. For information, call (713) 743-4982.

Association for Culturally Diverse Students

The association pairs selected high school students with students in the Conrad N. Hilton College of Hotel and Restaurant Management. Participants have the opportunity to take college hospitality courses and experience the college environment. For information, call (713) 743-2423.

Center for Immigration Research

The Center for Immigration Research studies the consequences of current immigration trends in order to inform decision making concerning international and national immigration policies, as well as to disseminate information to local institutions, organizations and policy-makers involved with the settlement and incorporation of new immigrants into their communities. For information, visit www.uh.edu/cir/index.htm or call (713) 743-3945.

Center for Mexican American Studies (CMAS)

The Center for Mexican American Studies has developed a minor in Mexican American Studies, a Visiting Scholar's Program, a Faculty Research Fellowship and Graduate Student Fellowship program, and a recruitment and retention component. The center also publishes monographs and sponsors research, conferences and lectures. For information, call (713) 743-3134.

Center for the Americas

The Center for the Americas promotes understanding among American countries through scholarly exchange, international symposiums, and consultation services to the public and private sectors. The center supports research on a wide range of cultural, political and social topics, including trade and economic reform, the environment, pressing social issues, the status of indigenous peoples, drugs, civil-military relations, freedom of the press, human rights and American cultures. For information, call (713) 743-9102.

College Career Days

The Center for Mexican American Studies (CMAS) invites hundreds of Latino senior high school students from surrounding school districts to visit the campus and provides them with "UH survival" information. The purpose of College Career Days is to make college a viable option for those who may not have considered it. During their visit, the students break into small

groups and attend a variety of workshops dealing with such topics as admissions, financial aid, and career planning. They hear motivational speeches and enjoy cultural entertainment. For information, call (713) 743-3133.

Common Ground Teachers Institute

In a two-week workshop held each summer, UH professors lead seminars for greater Houston area teachers of grades 6 to 12 who want to learn more about modern classics by African American, Asian American, and Hispanic authors. Newer works are paired with traditional literary classics. Common Ground helps increase the diversity of the middle school and high school English curriculum and gives teachers the chance to discuss teaching strategies, a range of student needs, and state and district expectations with their professional peers in an informal setting. For information, call The Honors College at (713) 743-9007.

Creative Writing Program

The UH Creative Writing Program sponsors readings and literary programs in museums, arts organizations, schools, and bookstores. Many programs are presented in collaboration with other organizations, such as Brazos Bookstore, Inprint Inc., Nuestra Palabra, The Asia Society, and the UH M.D. Anderson Library. For information, call (713) 743-3013.

Friends of Women's Studies

This program supports and provides community input, advice, and expertise to the Women's Archive and Research Center (WARC). Members enjoy discounts for the lecture series, invitations to special Friends' events, an annual subscription to the Women's Studies Newsletter, and more. For information, call (713) 743-9752.

GRADE Camp

GRADE (Girls Reaching and Demonstrating Excellence) Camp is for female high school students interested in electrical engineering. The week-long day camp provides a hands-on experience in electrical and computer engineering (ECE). GRADE Camp participants who complete the program and subsequently major in ECE at the University of Houston will receive a \$1,000 scholarship toward tuition or books. The Cullen College of Engineering hosts the camp through grants from the National Science Foundation and the Texas Engineering and Technical Consortium. For information, call (713) 743-5939 or visit www.egr.uh.edu/grade.

Handbook of Hispanic Cultures of the United States

Arte Público Press' award-winning Handbook of Hispanic Cultures describes and compares the culture of Hispanic groups in the United States. The four volumes of the reference work focus on anthropology, history, sociology, literature and art. Topics covered include "Latino Immigration Experience," "Hispanic Blending and Diversity," "Cuban Women," "Puerto Rican Participation in U.S. Politics," and "Community Newspapers." For information, call (713) 743-2842.

Hospitality Industry Diversity Institute

Among the first of its kind and one of the top in the nation, the institute was established to create a focus and forum for diversity-related issues and opportunities affecting the hospitality industry,

its employees and the global market place. It offers seminars, survey services, and publications. For information, call (713) 743-2680.

Houston-Louis Stokes Alliance for Minority Participation (H-LSAMP)

The Houston-Louis Stokes Alliance for Minority Participation is a multi-university consortium designed to increase the numbers of under-represented minorities who receive bachelor's degrees in science, technology, engineering, and mathematics and to prepare the students to enter the workforce or pursue graduate degrees. Alliance staff members and scholars are available to speak with high school students, their parents, and teachers. Local businesses in the chemical, biotech, actuarial, energy, and information technology fields hire H-LSAMP students as summer interns. For information, call (713) 743-5894.

Immigration Clinic

The Immigration Clinic at the UH Law Center has formed relationships with a network of legal aid and social services agencies in the Houston area to provide fair and humane treatment for immigrants and refugees. For information, call (713) 743-2094 or visit www.law.uh.edu/clinic.

Institute for Diversity and Cross-Cultural Management

The Institute for Diversity and Cross-Cultural Management within the C.T. Bauer College of Business helps organizations find ways of working more effectively and cross-culturally through training and advisory services, applied research and access to research databases. For information, call (713) 743-4824.

Intensive English Program

The Language and Culture Center's Intensive English Program trains international students in verbal and written academic English and cross-cultural communication. The language curriculum includes instruction in grammar, speaking, listening, reading, vocabulary, and writing in preparation for undergraduate or graduate study at a U.S. university. The cross-cultural communication component helps students learn about U.S. and other cultures. Optional courses include TOEFL preparation and pronunciation. For information, call (713) 743-3019.

Language and Culture Center (LCC)

Since 1975, the Language and Culture Center has provided intensive English instruction for international students who want to study at U.S. universities or improve their English language skills to meet personal and professional goals. For information, call (713) 743-3030 or visit <http://lcc.uh.edu/enghome.htm>.

Recovering the U.S. Hispanic Literacy Heritage Project

The Recovery Project, founded by Arte Público Press, is the first national, coordinated effort to recover, preserve, study, and publish long overlooked or forgotten Latino writings that date from the American colonial period through 1960. It is the largest project of its kind undertaken in the history of scholarly efforts to study Hispanic culture in the United States. The broad scope of the 12-year project includes such genres as letters, diaries, oral lore and popular culture by Cuban, Mexican, Puerto Rican, Spanish and other Hispanic Americans. To date, the project has found more than 18,000 books and has indexed and digitized more than 30,000 periodical articles. For information, call (713) 743-2842.

Touring Authors of Houston

Arte Público Press is the oldest and largest publisher of U.S. Hispanic books and anthologies of fiction, non-fiction, and history for children and adults. Arte Público Press authors conduct creative writing workshops and readings at schools and community centers throughout the United States. For more information about organizing an author visit for your organization or school, call (713) 743-2999.

Video Production

The School of Communication produces videos for nonprofit organizations. Fees vary according to the type of video produced. Recent productions include instructional videotape about the dangers and treatment of HIV, a public information project regarding sewer connections, and an Asian culture archival project. For information, call (713) 743-2859.

Women Business Owners' Initiative

The Women Business Owners' Initiative of the UH Small Business Development Center fosters business growth by bringing together experienced, successful women business owners who share their knowledge with women in the process of growing their businesses. For information, call (713) 752-8426.

Women's Archive and Research Center

An integral part of the University Archives is the Women's Archives, established in 1996. The Women's Archives focuses on the history of women's organizations in the Houston area. For information, contact the University Archives at (713) 743-9752.

World Laboratory Center for Pan-American Collaboration in Science and Technology

The World Laboratory Center for Pan-American Collaboration in Science and Technology seeks to strengthen U.S. ties with Latin America by promoting science and technology in developing countries. For information, call (713) 743-3586.

Education and Training

A.A. White Dispute Resolution Center

The A.A. White Dispute Resolution Center fosters public awareness and understanding of conflicts and conflict resolution and the impact of interpersonal disputes on society. It encourages the use of alternative means of dispute resolution. The center offers 40-hour Basic and Advanced Mediation Training courses. The center also provides assistance to the courts in encouraging the early settlement of pending litigation and to educational institutions in the development and use of alternative dispute resolution concepts and procedures. For information, call (713) 743-2066 or visit www.law.uh.edu/blakely/aawhite.

A.I. Lack Music Master Series

The Moores School of Music's A.I. Lack Music Master Series presents renowned master teachers and performers in a series of public master classes. Previous guests include such recognized artists as Christoph Eschenbach, Pinchas Zukerman, Samuel Ramey, Marilyn Horne,

and Frederica von Stade. Tickets are available through the Moores School of Music Box Office, (713) 743-3313. For information, call (713) 743-3167.

Accelerated Language Programs

UH Continuing Education offers language training in Spanish, French, Russian, German, Japanese, and Chinese as well as English as a Second Language programs, including those for healthcare and education professionals. These programs utilize accelerated learning methods that are internationally recognized for superior, long-term retention of knowledge. Language courses are offered in series of 12 levels of proficiency. For information, call (713) 743-1060.

American Humanics Program

The American Humanics Nonprofit Certificate Program at the Graduate College of Social Work prepares undergraduate and post-baccalaureate students in any field of study for careers in nonprofit management. Required courses include human development, nonprofit management, public relations/marketing, fiscal management and fund development. An experiential learning component requires a supervised internship. Organizations interested in offering volunteer or intern opportunities should call (713) 743-8137.

American Voices: E Pluribus Unum

UH is a partner in a program to support secondary history teachers in their efforts to improve their content knowledge of and appreciation for U.S. history. The program emphasizes three themes: the United States as a nation of immigrants; fundamental U.S. values; and forging a stable, democratic, and prosperous U.S. society. It places special emphasis on new history teachers and teachers of students whose first language is not English. The program grant will also support the establishment of history high schools on existing campuses.

Aseptic Techniques Training for Pharmacy Technicians and Pharmacists

The College of Pharmacy offers continuing education classes in aseptic techniques as well as a pharmacy technician training course. For information, call (713) 795-8337.

Asian American Studies Center (AASC)

The AASC explores Asians' and Asian Americans' social, historical, educational, economic, political, and linguistic characteristics and development through course work and study abroad trips. The center's China Study Abroad Program is one of the largest such programs in the United States. Similar study abroad programs in Japan, Vietnam, and South Korea are being developed. The center also offers a Leadership Training Program for Asian government officials and business and educational leaders. For information, call (713) 743-4982.

Blakely Advocacy Institute (BAI)

Continuing legal education in advocacy and lawyering technique and representation of Houston's underserved are just two of the methods the Blakely Advocacy Institute uses to improve the efficacy of the legal profession and justice system. BAI also coordinates all of the UH Law Center's practical skills courses and sponsors the many interscholastic moot court and mock trial teams that compete throughout the nation. For information, call (713) 743-2065, email Blakely@uh.edu, or visit www.law.uh.edu/blakely/.

Catering Research Institute (CRI)

The Catering Research Institute provides the hospitality industry with research assistant internships in menu development, salary surveys, event themes, legal issues, data analysis and curriculum design. CRI also offers internships, mentoring opportunities, scholarships, continuing education programs and workshops and seminars through distance learning or satellite programs. For information, call (713) 743-1480.

Center for Consumer Law

The Center for Consumer Law educates attorneys, professors, and lay people about consumer law; seeks legal, practical, and legislative solutions to common consumer problems; and encourages the development of consumer rights. It offers the community easy-to-understand explanations of consumer law issues through “The People’s Law School,” television programs, newspaper columns, and a video program designed to educate high school students. Its bi-annual conference attracts professors from throughout the world. For information call (713) 743-2168 or visit www.peopleslawyer.net.

Center for Entrepreneurship and Innovation

The C.T. Bauer College of Business’ Center for Entrepreneurship and Innovation (CEI) serves the business community by promoting the knowledge and practice of entrepreneurship through guest lectures, mentor programs, roundtables and a Stakeholder Association. For information, contact CEI at (713) 743-4752.

Center for Executive Development

The Center for Executive Development in the C.T. Bauer College of Business provides a range of high-quality public and custom executive education, management development and business professional training programs to the local, regional, national and international business communities. For more information, call (713) 743-4800 or visit www.bauer.uh.edu/ced.

Center for Materials Chemistry (CMC-UH)

The Center for Materials Chemistry at the University of Houston includes faculty members from physics, chemistry, and chemical engineering. The center has two major research themes: Advanced Oxides and Related Materials and Controlled Structures and Properties of Hybrid Organic-Inorganic Nanomaterials and Thin Films. Industry partners help formulate the research goals and participate in joint projects to maximize technology transfer to the commercial sector. CMC-UH offers undergraduates the opportunity to perform cutting edge research during a nine-week in-residence program. Students participating in this National Science Foundation-sponsored program receive a \$4,000 stipend, rent-free housing, and three hours of UH course credit. For information, visit www.cmc.uh.edu/home.htm or call (713) 743-2785.

Center for Mexican American Studies (CMAS)

The Center for Mexican American Studies has developed a minor in Mexican American Studies, a Visiting Scholar’s Program, a Faculty Research Fellowship and Graduate Student Fellowship program, and a recruitment and retention component. The center also publishes monographs and sponsors research, conferences and lectures. For information, call (713) 743-3134.

Center for Technology Literacy (CTL)

The Center for Technology Literacy in the College of Technology supports technology education professionals throughout Texas by providing such resources as the Texas Technology website (www.texastechnology.com), the annual Technology Education Professional Development Conference, and the “Project Lead the Way” Summer Training Institute. CTL also offers onsite/in-service training workshops, advisory panels, and community collaborations. For information, call (713) 743-4099.

Center for the Americas

The Center for the Americas promotes understanding among American countries through scholarly exchange, international symposiums, and consultation services to the public and private sectors. The center supports research on a wide range of cultural, political and social topics, including trade and economic reform, the environment, pressing social issues, the status of indigenous peoples, drugs, civil-military relations, freedom of the press, human rights and American cultures. For information, call (713) 743-9102.

Criminal Justice Institute (CJI)

The Criminal Justice Institute brings together nationally-recognized scholars, top criminal law practitioners, judges, and students through a variety of programs designed to enhance the study and practice of criminal law. The institute includes such established programs as the Texas Innocence Network, the Criminal Prosecution and Criminal Defense Clinics, the Southwest Juvenile Defender Center, and the Criminal Trial Advocacy training program. The institute also offers opportunities for educational and practice programs, a dual degree in law and criminology, and conferences and symposia. For information, call (713) 743-2134 or visit www.law.uh.edu/cji/.

Customized In-House Training

UH Continuing Education offers onsite training services for corporations and organizations. Programs available include leadership and management skills, foreign languages taught through accelerated learning, marketing communications, project management, English as a Second Language, and employee benefit specialist certification. Customized and standard training programs are available. For information, call (713) 743-1185.

Effective Communication in the American Workplace (English as a Second-Language)

This training program is specifically designed to boost the language skills of employees who speak English as a Second Language. It complements employees’ technical and professional expertise and strengthens the effectiveness of multicultural teams. Training modules include Clear Speech, Grammar, Effective E-writing, Effective Presentation and Meeting Skills, Effective Communication: Teamwork and Collaboration, and Effective Communication: Working with Your Manager. For information, call (713) 743-1185 or visit www.uh.edu/continuingeducation/prog/esl.html.

Engineering Education Outreach

Engineering Education Outreach provides individual discipline review courses for graduate engineers taking the upper-level of state exams (Professional Engineer-PE/P&P and Fundamentals of Engineering-FE/EIT). Short courses are available to provide professional

development hours for those seeking to continue their registration as professional engineers. A one-hour workshop on engineering ethics can be presented at local companies. Other custom programs may be arranged. For information call (713) 743-4202 or visit www.egr.uh.edu/ContEd/.

Exhibitions and Lectures - Gerald D. Hines College of Architecture

The Gerald D. Hines College of Architecture hosts lectures, exhibits and events in cooperation with agencies of several nations, the Rice Design Alliance, the American Institute of Architects, and other organizations. Events are open to the public. For information, call (713) 743-2385.

Funding Source, The (TFS)

The Funding Source assists organizations with locating funding to support ongoing operations or program expansion and aids in the development of grant writing skills. TFS' primary service is the Funding Fax, a bi-weekly faxed newsletter of funding opportunities from public and private sources. Also included in the Funding Fax are schedules of classes and workshops designed to assist organizations in developing grant writing and nonprofit management skills, information to help match organizations with appropriate coalitions and collaborations in the local communities, and profiles of corporate and private foundations. For information, call (713) 743-8143.

Gaming Education and Research Institute

This institute within the Conrad N. Hilton College of Hotel and Restaurant Management provides public and private policy makers in Texas and other jurisdictions with a source of current information that assists in determining the social, economic, and regulatory impacts of gaming activity. In addition, it sponsors continuing education and executive development programs. For information, call (713) 743-2444.

Global Energy Management Institute (GEMI)

The C. T. Bauer College of Business at the University of Houston has created the Global Energy Management Institute to prepare the energy industry workers of today while exploring the issues important to the future. GEMI uses a multi-disciplinary approach to address the comprehensive needs of the energy industry, from risk and project management to accounting and systems development. Programs and resources provided by GEMI include educational programs at the undergraduate, graduate and executive levels; professional networking opportunities, including forums, seminars and symposia; and an energy research center with emphasis on topics provided by member companies. For information, visit www.bauer.uh.edu/UHGEMI/index.asp.

Graphic Communications Technology Program

The College of Technology cooperates with the Texas Printing Institute (TPI), a non-profit teaching activity of the Texas Printing Education Foundation, to offer non-credit, short-term courses to working professionals. Courses are taught for three hours on evenings and on Saturdays, usually last only five weeks, and cover topics such as the operation of computer software and hardware. The TPI also offers courses tailor-made to the needs of specific businesses. For information, contact the Texas Printing Institute at (713) 522-1066.

Hospitality Industry Diversity Institute

Among the first of its kind and one of the top in the nation, the institute was established to create a focus and forum for diversity-related issues and opportunities affecting the hospitality industry, its employees, and the global market place. It offers seminars, survey services, and publications. For information, call (713) 743-2680.

Information Systems Research Center (ISRC)

The Information Systems Research Center provides a forum for interaction between the Houston business community and C.T. Bauer College of Business information systems faculty and students. The ISRC hosts executive seminars and roundtables on leading-edge issues in information technology management throughout the academic year. The center also conducts directed research with member firms and presents briefings on over-the-horizon information technologies. For information, call (713) 743-4691.

Immanuel and Helen Olshan Texas Music Festival

The Immanuel and Helen Olshan Texas Music Festival is a four-week summer residency orchestral and chamber music performance program for outstanding instrumentalists from Houston, the United States, and abroad. It offers performance study with members of the UH faculty, the Houston Symphony, and distinguished guest artists. TMF also offers specialized performance institutes for younger musicians in the Houston area. Tickets for public concerts are available through the Moores School of Music Box Office at (713) 743-3313. For information, call (713) 743-3167 or email tmf@uh.edu.

Institute for Diversity and Cross-Cultural Management

The Institute for Diversity and Cross-Cultural Management within the C.T. Bauer College of Business helps organizations find ways of working more effectively and cross-culturally through training and advisory services, applied research and access to research databases. For information, call (713) 743-4824.

Institute for Energy, Law & Enterprise (IELE)

The Institute for Energy, Law & Enterprise prepares students, energy industry attorneys and managers, and government policymakers and regulators for more competitive global energy markets. The institute's research focus is on frameworks for commercially viable energy projects and the business-government interface. Professional training opportunities include conferences such as "New Era in Oil, Gas & Power Value Creation," "Commercial Frameworks for LNG in North America," and "Behind the Gas Pump"; custom training programs tailored to individual companies and industries; and case studies on special topics. For information call (713) 743-4634 or visit www.energy.uh.edu/.

Institute for Higher Education Law & Governance (IHELG)

The University of Houston Institute for Higher Education Law and Governance provides information and publications to colleges and universities related to the field of higher education law, and also has a broader mission to be a focal point for discussion and thoughtful analysis of higher education legal issues. For information, call (713) 743-2075.

Institute for Intellectual Property & Information Law

This institute within the UH Law Center sponsors conferences for lawyer-practitioners, scholars, and judges, and is a leading research entity for improvements in the administration of justice in the intellectual property (IP) and information law areas. IP law embraces the subjects of patent, copyright, and trademark law and trade secret law. Information law includes the laws applying to computer software, and also deals with Internet-related issues. For information, call (713) 743-2180.

Institute for the Study of Political Economy (ISPE)

The Institute for the Study of Political Economy is affiliated with the Center for Public Policy at the University of Houston. ISPE organizes activities such as the political economy speaker series, research collaborations, workshops, conferences, and graduate student training. For information, call (713) 743-3972 or visit www.uh.edu/cpp/ispe.htm.

Intensive English Program

The Language and Culture Center's Intensive English Program trains international students in verbal and written academic English and cross-cultural communication. The language curriculum includes instruction in grammar, speaking, listening, reading, vocabulary, and writing in preparation for undergraduate or graduate study at an American university. The cross-cultural communication component helps students learn about American and other cultures and about how to interpret that knowledge. Optional courses include TOEFL preparation and pronunciation. For more information, call (713) 743-3019.

International Law Institute

The International Law Institute supports a wide range of programs and activities concerning international law and works with faculty, students, and international law practitioners pursuing related academic and research programs. Numerous courses in international and comparative law are offered. For information, call (713) 743-2174.

International Telecommunications Research Institute (ITRI)

The institute has three primary objectives: to assist in the successful implementation and utilization of communication technology, to address the social consequences of communication technology in its historical context, and to study the underlying processes involved in people's interaction with communication technology. Areas of research include the identification of factors that influence the success or failure of communication systems and services; the potential of telecommunications for altering historic, social and cultural patterns; and applied research on communication and technology. In addition to sponsoring forums and conferences, the institute partners with scholars and other institutions around the world on specific projects. For information, visit www.uh.edu/~itri/.

International Trade Center

The International Trade Center at the UH Small Business Development Center offers free one-on-one consulting, training seminars and trade missions, and assistance to prepare loan applications properly for the SBA's Export Working Capital Program and others. The objective is to help small- to mid-sized business owners export their products and services to other countries. For information, call (713) 752-8404.

Interviewing Institute

The Interviewing Institute, housed within the Department of Psychology, conducts research on interviewing and offers an annual employment interview-training seminar to the public. For information, call (713) 743-8520.

Jenkins Distinguished Lecture

Presented annually by the Graduate College of Social Work, the Jenkins Distinguished Lecture features nationally and internationally known speakers who address issues of importance to both social work professionals and the community at large. For information, call (713) 743-3599.

KUHT-TV

HoustonPBS (KUHT-TV/Channel 8 & KUHT-DT/Channel 9), the nation's first public television station, broadcasts local and national PBS productions, and other acquired programs to viewers throughout the Southeast Texas Gulf Coast. The station also televises college courses and educational outreach services to improve school readiness for young children. HoustonPBS also provides "beyond broadcast" resources and educational workshops on numerous issues concerning area viewers. For information, call (713) 748-8888 or (800) 364-KUHT, or visit www.houstonpbs.org.

Language and Culture Center (LCC)

Since 1975, the Language and Culture Center has provided intensive English instruction for international students who want to study at U.S. universities or improve their English language skills to meet personal and professional goals. For information, call (713) 743-3030 or visit <http://lcc.uh.edu/enghome.htm>.

Leadership and Management Certificate Program

This 36-hour continuing education program is designed for current or rising supervisors, administrators, managers, or team leaders. Through a fast-paced, thorough and practical curriculum, this certificate program creates proficient managers. Training modules include Performance Improvement, Coaching and Delegation, Conflict Resolution, Legal Aspects, Time and Resource Management, Effective Work and Team Relationships, Conflict and Legal Issue Resolution, and Communications and Leadership. For information, call (713) 743-1060 or visit www.uh.edu/continuingeducation.

Moore School of Music Preparatory and Continuing Studies

This non-credit, non-degree granting program brings music to all ages and all levels of ability through private and group instruction. Lessons are available in most orchestral instruments, piano, guitar, saxophone, Suzuki violin, voice, music theory, composition, flute, and percussion. PCS is also the current home of the renowned Houston Boychoir. For more information, visit www.music.uh.edu/%PCS/geninf.html or call (713) 743-3398.

Movers & Shakers Career Forum

This forum, hosted by the Consumer Science and Merchandising program in the College of Technology, brings leading retail industry experts and authorities together with high school, community college, and university students in an interactive setting designed to share experience

and lessons learned, as well as answer questions about future career opportunities. For information, call (713) 743-4637.

New Trainer Certificate Program

The College of Technology developed this program for those who are new to training and need to get up to speed quickly on designing, delivering, and evaluating training. The program consists of four two-day workshops over two months taught by a combination of UH faculty and leading business practitioners. For information, visit www.tech.uh.edu/departments/hdcs/cert_hrd.htm or call (713) 743-0886.

North American Consortium on Legal Education (NACLE)

The North American Consortium on Legal Education provides a quality legal education by promoting an exchange program at nine member laws schools, chosen for not only their complementarity but for their location in cities such as Montreal, Mexico City, and Washington D.C. Cross-border issues and reasonable solutions are more important today than ever. The University of Houston has always known the importance of Mexico and Canada as neighbors. NAFTA reinforced it. Now NACLE promotes the way to understand these dynamic countries. For information, visit www.law.uh.edu/nacle/.

People's Law School

This free biannual (April and October) event from the Center for Consumer Law helps make the law "user-friendly" to the layperson. The People's Law School offers classes in subjects such as consumer law, wills, family law, bankruptcy, business law, landlord/tenant law, credit and debt collection, social security law, and health insurance law, and teaches how to work with attorneys and file claims in small claims court. In addition, answers to frequently asked questions are posted at www.peopleslawyer.net. For information, visit the website or call (713) 743-2168.

Power Tools for Nonprofit Organizations (formerly Non Profit Day)

For eleven years, Centerpoint Energy (formerly Houston Lighting and Power) and the University of Houston have partnered to produce an annual conference for local nonprofit professionals and volunteers. This annual forum allows experts and participants to share practical strategies for managing the political, social, economic, and technological changes they face. For information, call (713) 743-1181 or visit www.uh.edu/academics/dce/prog/np.html.

Project Management Certificate Program

This continuing education program is designed for project managers and leaders, product development managers, engineers, marketing, operations, R&D and construction managers, functional managers who deal with project managers, and team members who manage tasks and subtasks. The certificate program is presented in two parts: Part I, Tools and Techniques (3 days); Part II: The People Side (2 days). For information, call (713) 743-1060 or visit www.uh.edu/continuingeducation.

Protective Services Training Institute

Protective Services Training Institute creates and delivers quality, state-of-the-art training to protective services staff; develops and administers a staff certification program that recognizes the special expertise of child protective services, adult protective services, child care licensing

and statewide intake practice; and researches, develops and assesses new training concepts and technologies. For information, call (713) 743-8145.

Psychology Research and Services Center (PRSC)

The Psychological Research and Services Center is an outpatient mental health training facility offering proven psychological treatments for a variety of behavioral, psychological, and adjustment problems. Individual, family, and group treatment formats are available. In addition to psychotherapy, intellectual, developmental, and personality assessment and evaluation are offered for both children and adults. Advanced doctoral students under the supervision of licensed clinical psychology faculty conduct treatment and assessment services. Fees may be adjusted on a sliding scale according to ability to pay. The PRSC also provides information about mental health to the community through continuing education professional training programs, workshops, and lectures to agencies and organizations. For information, call (713) 743-8600.

Regional Biotechnology/Life Sciences Workforce Alliance

The College of Technology has assumed a leadership role in forming and maintaining an alliance of life science employers, universities, community colleges, BioHouston, the Greater Houston Partnership, the Texas Medical Center and its constituent institutions, and the Texas Gulf Coast Workforce Commission. The biotechnology/life sciences industry in the Houston region is growing as momentum gathers in commercializing the extraordinary life-science technologies that have their origins in the Texas Medical Center and the region's academic and other research institutions. For information, call (713) 743-3465.

Small Business Development Center (SBDC)

The UH Small Business Development Center helps small and medium-size businesses start, grow and succeed through free one-on-one business consulting, affordable training seminars and specialty programs. Special programs and services include Direct Business Assistance, International Trade Center, SBA Pre-qualification Loan Program, Procurement Technical Assistance Center (also known as Texas Information Procurement Service), the Houston 100 and Women Business Owners' Roundtable, Technology Program, and Comprehensive Business Research Library. For information, call (713) 752-8444 or visit www.sbdc.uh.

Social Work Continuing Education

The Graduate College of Social Work's Continuing Education program offers specific courses in the areas of gerontology, grant writing, and nonprofit management. It also offers the Social Work Supervision Certification for LMSWs and ACPs that is required by the Texas State Board of Social Work Examiners. Courses are designed for social workers, counselors, psychologists, psychiatrists, nurses, and other human services professionals in the community. All courses are approved for continuing education units and are acceptable for licensed professional counselors. For information call (713) 743-8143.

Strategic Selling and Customer Relationship Management Center

The Strategic Selling and Customer Relationship Management Center, which is part of the Sales Excellence Institute, is an outreach program for current sales and sales management professionals interested in enhancing their education. The professional sales trainers teaching in this center are award-winning instructors and are capable of customizing sales and sales

management training to fit various industries and company cultures. For information, visit www.bauer.uh.edu/SEI/sei.htm.

Study Tours

The Center for Public Policy coordinates various professional training programs annually for Global Unisource, Inc., focusing on U.S. government, education, and business practices for professionals in China. The sessions are conducted by faculty of the University of Houston, University of Houston-Clear Lake, and the University of St. Thomas. In addition to classroom lectures, the programs include site visits to locations such as Houston City Hall, the state capitol in Austin, and the office of the Harris County Clerk. For information, call (713) 743-3972.

Supply Chain Research Center (SCRC)

The Supply Chain Research Center at the C. T. Bauer College of Business is a university/industry partnership in research, training, and education. The mission of the Center is to be a leader in supply chain management (SCM) training and education, conduct supply chain projects with various industries and add value to both the class room and to the business community through the dissemination of cutting-edge knowledge of SCM concepts, techniques, and technologies. For information, visit www.bauer.uh.edu/SCRC/index.htm.

TcSUH Distinguished Lecture Series

The Texas Center for Superconductivity at UH hosts an annual Nobel Lecture Series and periodic special seminars, workshops, and symposia as part of its educational community outreach program. For calendar information, see www.uh.edu/tcsuh.

Teacher Inservice Program in Ethics, Values and Culture

The Department of Philosophy presents lectures on ethics done as in-services to teachers at Lee High School. The teachers receive both in-service and gifted and talented credit. The department is looking into expanding the program to DeBakey High School. For information, see www.uh.edu/phil/LeeHigh/LeeHigh.html.

Telecom Center

The mission of this center is to build a bridge between the telecommunications industry, institutions in the Texas Medical Center, and UH through joint research projects and educational/training programs. Its current research areas are smart antenna systems, wireless devices and systems for telemedicine and homeland security. In addition, the center leads the way in radio-frequency radiation and interference standards and compliance, and provides educational/training programs, including the Engineering Entrepreneurism program. For information, visit www.egr.uh.edu/telecom/.

Texas Information Procurement Service (TIPS)

This service of the UH Small Business Development Center provides one-on-one consulting that helps business owners find government contract opportunities. TIPS also offers seminars and workshops on topics such as marketing to government agencies, utilizing the Internet to find contracts, and small disadvantaged business certification. In addition, TIPS has a computerized bid match service to help companies find new government sales leads. For information, call (713) 752-8477.

Texas Learning and Computation Center (TLC²)

The Texas Learning and Computation Center fosters and supports interdisciplinary research, education and training in computational sciences and engineering through centers, laboratories and individual faculty initiatives. TLC² has state-of-the-art computation, visualization and educational facilities for environmental studies; biological, biomedical and energy research; undergraduate and graduate education; and teacher training. TLC² sponsors conferences and workshops as well as competitions. Outreach partners include the European Space Agency, the Fennessey Ranch, the Houston Area Technology Advancement Center, and the World Space Congress. For information, visit www.tlc2.uh.edu/ or call (713) 743-3371.

Texas Manufacturing Assistance Center (TMAC)

TMAC's specialists provide affordable training and technical assistance to upgrade worker skills, implement best business practices, and connect the manufacturing community to critical information and resources. Services include company assessments, production planning and control (ERP/MRP), Lean Enterprise, product manufacturability, quality management systems, e-Enterprise, workforce development, and strategic management. TMAC also sponsors informational seminars and an annual conference for manufacturers. For information, call (832) 842-7043.

University of Houston Libraries

The six UH libraries contain more than 2 million volumes; 3.8 million microfilm units; 20,000 research journals and other serial subscriptions; and large quantities of manuscripts, maps and other materials. Information regarding remote access is listed on the libraries' website at <http://info.lib.uh.edu>. The UH libraries are open to the public. Borrowing privileges are available to faculty, staff and students from any of the UH System institutions as well as UH alumni and HARLiC or TexShare cardholders. For information, contact the library at (713) 743-1050.

Wine & Spirits Management Institute (W&SMI)

The Wine & Spirits Management Institute is the product of a collaborative effort by the UH community and leaders in the alcohol beverage industry. UH's Conrad N. Hilton College of Hotel and Restaurant Management; DIAGEO; Glazer's Family of Companies; E.& J. Gallo Winery; Spec's Wines, Spirits & Finer Foods; Robert Mondavi; Beringer Blass Wine Estates; Brown-Forman; Futurebrands; and Allied Domecq Spirits & Wine North America have developed a new standard of expertise embodied in the creation of a commercial beverage manager certification program. For information, visit www.wsmi.uh.edu/index.htm.

Government

A.A. White Dispute Resolution Center

The A.A. White Dispute Resolution Center fosters public awareness and understanding of conflicts and conflict resolution and the impact of interpersonal disputes on society. It encourages the use of alternative means of dispute resolution. The center offers 40-hour Basic and Advanced Mediation Training courses. The center also provides assistance to the courts in encouraging the early settlement of pending litigation and to educational institutions in the

development and use of alternative dispute resolution concepts and procedures. For information, call (713) 743-2066 or visit www.law.uh.edu/blakely/aawhite.

Asian American Studies Center (AASC)

The AASC explores Asians' and Asian Americans' social, historical, educational, economic, political, and linguistic characteristics and development through course work and study abroad trips. The center's China Study Abroad Program is one of the largest such programs in the United States. Similar study abroad programs in Japan, Vietnam, and South Korea are being developed. The center also offers a Leadership Training Program for Asian government officials and business and educational leaders. For information, call (713) 743-4982.

Blakely Advocacy Institute (BAI)

Continuing legal education in advocacy and lawyering technique and representation of Houston's underserved are just two of the methods the Blakely Advocacy Institute uses to improve the efficacy of the legal profession and justice system. BAI also coordinates all of the UH Law Center's practical skills courses and sponsors the many interscholastic moot court and mock trial teams that compete throughout the nation. For information, call (713) 743-2065, email Blakely@uh.edu, or visit www.law.uh.edu/blakely/.

Center for Applied Geoscience Excellence

Researchers in this center, with the support of industry and government partners, are improving the methods of analyzing reservoirs using new seismic data. For information, call (713) 743-9119.

Center for Immigration Research

The Center for Immigration Research studies the consequences of current immigration trends in order to inform decision making concerning international and national immigration policies, as well as to disseminate information to local institutions, organizations and policy-makers involved with the settlement and incorporation of new immigrants into their communities. For information, visit www.uh.edu/cir/index.htm or call (713) 743-3945.

Center for Innovative Grouting Materials and Technology (CIGMAT)

CIGMAT is an industry/university consortium established to meet growing demand from industry for better management of information on grouts and grout applications. Ongoing research projects include rehabilitation of wastewater facilities, a new generation of deep foundations, and new pipes and materials. The center's goal is to foster improved understanding of grouting materials and their applications. Also of interest are other competing and complementing materials and technologies to grouting used in construction and rehabilitation of civil infrastructure. For information, call (713) 743-4178 or visit <http://gem1.cive.uh.edu/>.

Center for Public History

Housed in the Department of History, this program serves the public through the Tenneco Lecture Series, the Houston History Project, the History of Houston Archives, the publication "Houston Review of History and Culture," a variety of internships which place master's degree candidates in organizations and companies, and team research projects for members of the

community. For information, call (713) 743-3090 or visit www.class.uh.edu/hist/Academics/public_history_general.htm.

Center for Public Policy

The Center for Public Policy identifies and evaluates major public policy issues affecting the Houston metropolitan area, as well as the state of Texas. The Center is an active source for impartial research regarding regional political, economic, and demographic issues. For information, call (713) 743-3972 or visit www.uh.edu/cpp.

Center for Public Policy/League of Women Voters Partnership

The Center for Public Policy partners with the League of Women Voters for policy research – such as a recent health care study – and voter registration drives. For information, call (713) 743-3972.

Center for Public Policy's Local Government Internship Program

The Center for Public Policy's Local Government Internship Program offers students the opportunity to experience the political office environment in the Houston area. The interns work an average of eight hours per week over the semester in a Houston office at either a municipal, county, state, or federal level. For information, call (713) 743-3972 or visit www.uh.edu/cpp/GOVTinternships.htm.

Center for the Americas

The Center for the Americas promotes understanding among American countries through scholarly exchange, international symposiums, and consultation services to the public and private sectors. The center supports research on a wide range of cultural, political and social topics, including trade and economic reform, the environment, pressing social issues, the status of indigenous peoples, drugs, civil-military relations, freedom of the press, human rights and American cultures. For information, call (713) 743-9102.

Center for the Reliability of Ceramics

The center provides a cooperative forum for university, national lab, and industrial researchers to cooperate on research directed toward the improvement of ceramic performance in engineering applications. Research topics include crack growth resistance modeling in brittle materials, statistical prediction of failure of engineering components, multi-scale determination of failure mechanisms in ceramics, and fatigue degradation in ceramics and ceramic composites. For information, visit www.egr.uh.edu/me/ceramics/ or call (713) 743-4526.

Civil Clinic

Under the supervision of licensed attorneys, students in the Civil Clinic at the UH Law Center work directly with clients and handle all aspects of case management, interviews, preparation of motions and petitions, and trials. The civil clinic handles legal cases involving family law, guardianships, probate, and Chapter 7 consumer bankruptcy. For information, contact (713) 743-2094.

Clinical Legal Education Program (CLEP)

Attorneys, judges, legal referral services, and social service agencies can refer cases to the Clinical Legal Education Program. Under the supervision of licensed attorneys, students work directly with clients, handling all aspects of case management, including performing client interviews, preparing motions, and participating in court hearings and trials. For information, call (713) 743-2065 or visit www.law.uh.edu/blakely/.

Composites Engineering and Applications Center (CEAC)

The Composites Engineering and Applications Center for Petroleum Exploration and Production investigates the potential technical and life-cycle cost benefits of composite materials in onshore and offshore operations. Of special interest are structural components such as risers, tethers, moorings, and spoolable sub-sea flow lines for deep-water applications where present materials may have performance and economic limitations. The current CEAC consortium includes the University of Houston, international petroleum E&P companies, supporting industries, and U.S. government/certification agencies. For information, call (713) 743-5053 or visit www.egr.uh.edu/CEAC.

Cooperative Education

Cooperative Education (Co-op) enables students in any major to receive career training with pay as they work with professionals in their fields of study. Work experience in government, business, industry, and human services enhances a student's academic training. This valuable experience is documented on a student's official transcript. For information, call (713) 743-4232 or visit www.egr.uh.edu/coop.

Criminal Defense Clinic

Students in the Criminal Defense Clinic represent defendants under the supervision of practicing defense attorneys. Misdemeanor and felony cases are handled from start to finish, including investigations, plea bargains, and sentencing. For information, call (713) 743-2134 or visit www.law.uh.edu/cji/.

Criminal Justice Institute (CJI)

The Criminal Justice Institute brings together nationally-recognized scholars, top criminal law practitioners, judges, and students through a variety of programs designed to enhance the study and practice of criminal law. The institute includes such established programs as the Texas Innocence Network, the Criminal Prosecution and Criminal Defense Clinics, the Southwest Juvenile Defender Center, and the Criminal Trial Advocacy training program. The institute also offers opportunities for educational and practice programs, a dual degree in law and criminology, and conferences and symposia. For information, call (713) 743-2134 or visit www.law.uh.edu/cji/.

Criminal Prosecution Clinic

In the Prosecution Clinic, students work with district attorneys in Harris, Fort Bend, Galveston, and other surrounding counties. While students do not have actual clients in the Criminal Prosecution Clinic (as they represent the state), they do have the opportunity to sharpen their lawyering skills and handle various aspects of simple trials. For information, call (713) 743-2094 or visit www.law.uh.edu/cji/.

Gaming Education and Research Institute

This institute within the Conrad N. Hilton College of Hotel and Restaurant Management provides public and private policy makers in Texas and other jurisdictions with a source of current information that assists in determining the social, economic, and regulatory impacts of gaming activity. In addition, it sponsors continuing education and executive development programs. For information, call (713) 743-2444.

Hands-On Learning/Studio Work

The Gerald D. Hines College of Architecture has a long history of “hands-on learning” through community service. Recent community-based projects include a historic survey of Richmond Avenue architecture as well as proposals for a new library and YMCA for the Upper Kirby District; landscape designs for Levy Park; extreme sports facilities for sites within Beltway 8; an urban village, with mixed-uses, around future Houston light rail stations; Music World Headquarters for client Destiny’s Child; and a prototype sustainable school building for the Houston Independent School District.

Health Law & Policy Institute

Recognized as one of the leading health law programs in the United States, the Health Law & Policy Institute is an interdisciplinary center designed to stimulate teaching, research, and service in all areas of health law and policy. The institute is actively involved in helping shape health law at the local, state, national, and international levels. For information, call (713) 743-2101.

Houston Coastal Center

The Houston Coastal Center has become widely recognized for the 200+ acre prairie segment within its borders. Scientists from several universities, state and federal agencies, and environmental organizations are engaged in studies concerned with restoration and maintenance of native Gulf Coast prairie lands at the center. Presentations and publications document their work as it progresses. Among the center’s work is the Prairie Restoration Project, being done in cooperation with the U.S. Fish and Wildlife Service. For information, visit <http://eih.uh.edu/coastalcenter/index.htm> or call (713) 743-9101.

Houston InfoComm Technology (HIT) Center

The HIT Center is a consortium that provides support for collaborative research in first response, traffic mobility, clean air mitigation and homeland security. For information, visit www.thehitcenter.org/.

Institute for Energy, Law & Enterprise (IELE)

The Institute for Energy, Law & Enterprise prepares students, energy industry attorneys and managers, and government policymakers and regulators for more competitive global energy markets. The institute’s research focus is on frameworks for commercially viable energy projects and the business-government interface. Professional training opportunities include conferences such as “New Era in Oil, Gas & Power Value Creation,” “Commercial Frameworks for LNG in North America,” and “Behind the Gas Pump”; custom training programs tailored to individual companies and industries; and case studies on special topics. For information call (713) 743-4634 or visit www.energy.uh.edu/.

Institute for Higher Education Law & Governance (IHELG)

The University of Houston Institute for Higher Education Law and Governance provides information and publications to colleges and universities related to the field of higher education law, and also has a broader mission to be a focal point for discussion and thoughtful analysis of higher education legal issues. For information, call (713) 743-2075.

Institute for Intellectual Property & Information Law

This institute within the UH Law Center sponsors conferences for lawyer-practitioners, scholars, and judges, and is a leading research entity for improvements in the administration of justice in the intellectual property (IP) and information law areas. IP law embraces the subjects of patent, copyright, and trademark law and trade secret law. Information law includes the laws applying to computer software, and also deals with Internet-related issues. For information, call (713) 743-2180.

Institute for Multi-dimensional Air Quality Studies

The Institute for Multi-dimensional Air Quality Studies is a diverse group of researchers from fields of geosciences, math, computer science, and chemistry committed to using premier scientific tools to model the complex issues of air quality and climate change. Modeling efforts address many critical components simultaneously, including emissions inventories, meteorology, and atmospheric chemistry. Institute members are currently developing atmospheric boundary layer measurement techniques. They work closely with national, state, and local leaders to identify key scenarios to run on their modeling systems so that public policy is guided with the best science. For information, visit www.imaqs.uh.edu/ or call (713) 743-0707.

Institute for Regional Forecasting

The Center for Public Policy's Institute for Regional Forecasting provides data on and analyses of the Houston economy. The institute sponsors the annual Houston Economic Symposium and the Houston Real Estate Symposium, with each symposium drawing more than 1,000 local business and government leaders. The Institute also publishes the popular economic data series in DATAbook Houston. For information, call (713) 743-3869.

Institute for the Study of Political Economy (ISPE)

The Institute for the Study of Political Economy is affiliated with the Center for Public Policy at the University of Houston. ISPE organizes activities such as the political economy speaker series, research collaborations, workshops, conferences, and graduate student training. For information, call (713) 743-3972 or visit www.uh.edu/cpp/ispe.htm.

Institute of Space Systems Operations (ISSO)

The Institute of Space Systems Operations is the operational agency of the Houston Partnership for Space Exploration, whose mission is to advance the development of the aerospace community in the Houston area and Texas. Particular emphasis is directed to the academic, industrial, and government programs associated with NASA's Johnson Space Center. Since 1991, ISSO projects have established solid professional links between NASA-JSC, the Houston aerospace community, and UH and UH-Clear Lake. For information, visit www.issu.uh.edu/ or call (713) 743-9135.

International Law Institute

The International Law Institute supports a wide range of programs and activities concerning international law and works with faculty, students, and international law practitioners pursuing related academic and research programs. Numerous courses in international and comparative law are offered. For information, call (713) 743-2174.

Internships - Sociology

The Department of Sociology offers services to families, the aged, and the homeless through partnerships with 52 community agencies. Students participate in a variety of internships in areas such as education, drug/alcohol abuse, employee assistance/job training, health, housing/community development programs, and institutions and government programs. For information, call (713) 743-3945.

Juvenile Defense Clinic

The Juvenile Defense Clinic provides legal services to indigent juveniles from beginning to end. UH law students participate in detention hearings, jury or bench trials, appeals, and misdemeanor and felony cases. For information, call (713) 743-2094.

Lanier Public Policy Conferences

The Lanier Public Policy Conferences is a lecture series that brings together academicians and journalists to examine major public policy issues that impact Houston as well as the nation. The day-long event is coordinated by Dr. Richard Murray and the Center for Public Policy. Visit www.uh.edu/cpp/lanierconference.htm for more information.

Law Center Externship Placement Program

In the externship placement program, students earn academic credit by working with public interest organizations or government agencies. Field placements include the Internal Revenue Service, American Civil Liberties Union, Aid to Victims of Domestic Abuse, the Texas Attorney Generals' Office, and the Southwest Juvenile Defender Center. For information call (713) 743-1176.

Law Center Health Law Externships

In conjunction with the Health Law and Policy Institute, the external placement program offers credit for supervised fieldwork with nonprofit health institutions and government organizations focused in health law and policy. For information, call (713) 743-1176.

Law Center Judicial Internships

In a judicial internship, students can observe the legal process from the bench's perspective. Interns meet and interact with court personnel while honing research and writing skills. Houston offers a broad range of opportunities for judicial interns, including assignments in the U.S. Fifth Circuit Court of Appeals; U.S. District Court for the Southern District of Texas; the First and Fourteenth Texas State Courts of Appeals; Texas state district courts (civil and criminal); federal magistrates; and specialty courts in family, bankruptcy, immigration, and probate. For information, call (713) 743-1176.

Litigation Skills Program

The Litigation Skills Program provides students with in-depth, practice-oriented training on how attorneys litigate in the state and federal courts and instruction on the methods for effective negotiation, settlement and alternative dispute resolution techniques.

Master of Public Administration Internships

Agencies and organizations in both the private and public sector can request Master of Public Administration students for internships or full-time positions that offer responsible experience in public service. For information, call (713) 743-3931.

Mediation Clinic

The Mediation Clinic at the UH Law Center provides trained mediators to the civil justice courts in Harris County and provides mediation services to individuals who may otherwise be unable to afford the mediation process. Students mediate consumer issues, landlord/tenant disputes, breach of contract, and domestic relations cases. For information, call (713) 743-2094.

Nanosystem Manufacturing Center (NMC)

The mission of the NMC is to develop a suite of enabling technologies for integrating the new ultra-small, ultra-fast magnetic, electronic and molecular device families into powerful nanosystems whose capabilities far exceed the state-of-the-art in data processing, storage and communication. The NMC has received significant financial support from the Defense Advanced Research Projects Agency, the National Security Agency, International-Sematech, the Texas Center for Superconductivity at UH, and the State of Texas Advanced Technology Program. Its industrial partners include EDTEK, Inc., Infineon Technologies, Axcelis Technologies, and Seagate Technologies. For information, call (713) 743-4449.

Protective Services Training Institute

Protective Services Training Institute creates and delivers quality, state-of-the-art training to protective services staff; develops and administers a staff certification program that recognizes the special expertise of child protective services, adult protective services, child care licensing and statewide intake practice; and researches, develops and assesses new training concepts and technologies. For information, call (713) 743-8145.

Public Education Policy Research

The Sociology of Education Research Group (SERG) works with school districts in the Houston metropolitan area and the Texas Education Agency to evaluate educational programs and assess factors that affect student academic achievement, student dropout rates, and teacher morale and retention. SERG also conducts school climate studies for school districts. For information, call (713) 743-3955 or (713) 743-3959.

Public Interest Fellowship Program

Students apply for a competitive fellowship award to spend the summer with a public interest or governmental agency. Previous fellowship recipients have provided services to a wide range of organizations and programs, such as legal aid, U.S. Attorney's Office, HIV projects, migrant farm workers projects.

Radio Frequency Identification Department (RFID) Alliance

The RFID Alliance – Healthcare, Government, Industry, Academia is located within the Information and Logistics Technology Department of the College of Technology. The purpose of the Alliance is to conduct research and promote the awareness and use of RFID technologies for various applications such as logistics, supply chain, transportation, and medicine. For information, call (713) 743-4100.

Sasakawa International Center for Space Architecture

The Sasakawa International Center for Space Architecture is a unique research, design, and teaching entity within the Gerald D. Hines College of Architecture. Its mission is to plan and implement programs that will advance peaceful and beneficial uses of space and space technology. SICSA also pursues planning and design for difficult and extreme environments on Earth that can benefit from advanced approaches, systems and applications that are revealed through space investigation and concepts. SICSA 's location in Houston affords convenient access to diverse information resources and collaboration opportunities afforded by the NASA Johnson Space Center, local aerospace companies, major research institutions, and commercial technology enterprises in the city and region. For information, visit www.sicsa.uh.edu/.

Southwest Public Safety Technology Center (SWTC)

The center develops public safety technology test beds; serves as a test site for a national academic consortium to conduct public safety technology research and development; commercializes new public safety technologies through the creation of partnerships with industry; and provides technology assistance to the law enforcement community. The center addresses issues ranging from traffic congestion to emergency evacuation, from environmental impacts to terrorist attacks, from flood control to emergency medical response, and from collective governing across judiciary boundaries to disaster relief. Center staff made important contributions to the FEMA disaster relief centers after Hurricane Katrina and to joint relief efforts in East Texas after Hurricane Rita. It is also providing the technology leadership at the Houston Port Security Steering Council and planning the regional information technology infrastructure. In partnership with others, SWTC has also launched a number of border security projects ranging from communication interoperability to crime mapping along the Texas-Mexico border.

Study Tours

The Center for Public Policy coordinates various professional training programs annually for Global Unisource, Inc., focusing on U.S. government, education and business practices for professionals in China. The sessions are conducted by faculty of the University of Houston, University of Houston-Clear Lake, and the University of St. Thomas. In addition to classroom lectures, the programs include site visits to locations such as Houston City Hall, the state capitol in Austin, and the office of the Harris County Clerk. For information, call (713) 743-3972.

Survey Research Institute

The Center for Public Policy's Survey Research Institute, under the guidance of Dr. Richard Murray, conducts an ongoing program of political and public opinion polling for Houston and the State of Texas. The center has provided extensive polling data for the Houston Chronicle and KPRC television, as well as for regional public and private sector entities. In addition, Dr.

Murray's analyses are frequently carried by national media sources such as The New York Times and Washington Post. For information, call (713) 743-3972 or visit www.uh.edu/cpp/polling.htm.

Texas Energy Center (TEC)

The Texas Energy Center is a non-profit organization created to integrate and mobilize industry, university, government and other entities in the greater Houston region to meet major energy challenges and to ensure that Houston continues its global energy leadership, not only in conventional energy but also in clean energy. The Cullen College of Engineering is a founding member, along with the Fort Bend Economic Development Council and major energy corporations. For information, visit www.txec.org/.

Texas Innocence Network (TIN)

The Texas Innocence Network at the University of Houston Law Center is a program that focuses exclusively on investigating claims of actual innocence raised by inmates in Texas or elsewhere. TIN accepts cases involving DNA evidence as well as cases that do not. For information, call (713) 743-7552 or visit www.law.uh.edu/cji/.

Texas Learning and Computation Center (TLC²)

The Texas Learning and Computation Center fosters and supports interdisciplinary research, education and training in computational sciences and engineering through centers, laboratories and individual faculty initiatives. TLC² has state-of-the-art computation, visualization and educational facilities for environmental studies; biological, biomedical and energy research; undergraduate and graduate education; and teacher training. TLC² sponsors conferences and workshops as well as competitions. Outreach partners include the European Space Agency, the Fennessey Ranch, the Houston Area Technology Advancement Center, and the World Space Congress. For information, visit www.tlc2.uh.edu/ or call (713) 743-3371.

Texas Legislative Internship Program (TLIP)

The Texas Legislative Internship Program, sponsored by the office of State Senator Rodney Ellis and administered by the Mickey Leland Center on World Hunger and Peace at Texas Southern University, provides undergraduate and graduate students the opportunity to serve as interns in the Texas Legislature and various political offices. University of Houston recruitment efforts are coordinated by the Center for Public Policy. For information, call (713) 743-3972

Tom DeLay Texas Internship Program

The Center for Public Policy coordinates UH recruitment efforts for Congressman Tom DeLay's Texas Internship Program. For information, call (713) 743-3972.

Health

Abramson Family Center for the Future of Health

In its developing stages, this center targets decisioning to give people power over their own health and to bring medicine into the 21st Century.

Alliance for NanoHealth

The Alliance for NanoHealth is a collaborative enterprise aimed at bridging the gap between biology, medicine, public health and physical science with the goal of saving lives. By developing nanoscale engineering devices that can treat the human body at a molecular level, it may be possible to prevent or even cure complex diseases. The five member institutions are Rice University, The University of Texas Health Science Center, Baylor College of Medicine, the University of Texas M.D. Anderson Cancer Center and University of Houston. For information, visit www.nanohealthalliance.org/ and www.uh.edu/bionano/.

Anxiety and Mood Disorder Clinic

The clinic applies cognitive-behavioral treatments, or the process of reinterpreting negative thoughts and changing behavior patterns that fuel the disorders, to reduce anxiety and mood disorder symptoms and improve a participant's quality of life. For information, visit www.uh.edu/anxiety/.

Aseptic Techniques Training for Pharmacy Technicians and Pharmacists

The College of Pharmacy offers continuing education classes in aseptic techniques as well as a pharmacy technician training course. For information, call (713) 795-8337.

Bioengineering Research Center

The center promotes research and graduate education in bioengineering. It sponsors a Bioengineering Seminar Series and fosters interaction of college faculty involved in bioengineering research with colleagues at UH and in the greater Houston area, including the Texas Medical Center, Rice University, and the UT Medical Branch at Galveston. It also coordinates UH's presence in the Annual Houston Conference on Biomedical Engineering Research, organized by the Houston Society for Engineering in Medicine and Biology. For information, call (713) 743-4502.

Brown Bag Medical Review and Counseling

Senior citizens who need help on how to manage their medication can receive one-on-one counseling through brown bag medication reviews at grocery stores, City of Houston offices, community service centers, churches, and other public venues. College of Pharmacy students teach seniors about their medications, how and when they should be taken, possible side effects and drug interactions. For information, call 713-743-1298 or visit <http://rx.pharmacy.uh.edu> and click on the request information link.

Center for Neuro-Engineering and Cognitive Science

This center is the successor of the Cognitive Science Initiative, and its primary mission is to conduct basic and applied research in neuro-engineering and cognitive science. Other important objectives include the education of students in a multi-disciplinary approach to topics relevant to neuro-engineering and cognitive science and the continuation and fostering of research alliances with Houston and Galveston educational institutions and medical centers. For information, call (713) 743-4428.

Clinical Psychology and Neuropsychology Practicum

Doctoral students in the clinical psychology and clinical neuropsychology programs work in a variety of community practicum settings under the supervision of a licensed psychologist. Current practicum placements include the University of Texas - Harris County Psychiatric Center and Health Science Center, Veterans Administration Medical Center, Baylor College of Medicine, M.D. Anderson Cancer Center, Texas Institute for Research and Rehabilitation, Texas Children's Hospital, Children's Assessment Center, Methodist Hospital, and DePelchin Children's Center. For more information about practicum placements, call (713) 743-8600.

Color Vision Service

The Color Vision Service at the College of Optometry provides comprehensive testing to diagnose inherited and acquired vision defects. It also serves various occupational fields that have color vision requirements, such as the aviation, railroad, maritime, and transportation sectors. To schedule an appointment, call (713) 743-2010.

Community Vision Screening and Early Detection Program

This service, offered by the University Eye Institute, provides free vision screening for various community organizations, schools, health fairs, senior citizens groups, churches, and more. For information, call (713) 743-1990.

Community Wellness Program

Through this program, faculty and students of the College of Pharmacy offer screenings for various conditions, personalized drug interaction profiles, immunizations, hemoglobin A1c monitoring, and diabetes education in schools, community centers, churches, nursing homes, malls, and clinics. For information, call (713) 743-1298 or visit <http://rx.pharmacy.uh.edu>.

Cornea & Contact Lens Service (CCLS)

The Cornea and Contact Lens Service provides comprehensive eye and vision services along with both routine and highly complex contact lens fitting and follow-up care. Custom designed lenses for conditions such as presbyopia (bifocal), keratoconus, corneal transplants, and disfigured eyes (prosthetics) are some of the more complex fittings performed in the CCLS. Orthokeratology services are also available. For information or to schedule an appointment, call (713) 743-2015.

Depression Research Center

The Depression Research Center offers a twelve-week, group-based cognitive-behavioral treatment program for depression. The program is open to the public. For information, contact the clinic at (713) 743-8611 or (713) 743-8606.

Development Clinic

The College of Optometry Development Clinic provides testing services and treatment recommendations for children with learning problems that are related to the delayed development of certain vision and/or speech-language processing skills. For information, contact (713) 743-2005.

Dietetic Internship

The dietetic internship within the College of Education places interns in healthcare facilities and provides management and community experiences under the supervision of registered dietitians. Current placements include M.D. Anderson Cancer Center, Shriners' Children's Hospital, and Texas Children's Hospital. For information, call (713) 743-4112.

Diplopia Service

The Diplopia Service provides specialized examinations of adults complaining of double vision. Management of double-vision symptoms with prisms is provided when indicated. Patients needing further evaluation are provided the appropriate referrals. For information, call (713) 743-2010.

Emotions in Marriage Laboratory

The Marriage Laboratory conducts research on couples' communication and psychophysiology, focusing on couples experiencing conflict and/or violence in their relationships. The goal of this research is to help develop better ways to intervene with distressed and violent couples. For information, call (713) 743-8621.

Evaluation and Research to Strengthen School and Community Health Infrastructures

Through the Health Network for Evaluation and Training Systems (HNETS), College of Education Department of Health and Human Performance faculty assist schools, communities, and healthcare organizations meet their health goals. HNETS personnel develop, implement, maintain, and assess health programs and policies. Current projects include establishment and maintenance of monitoring and tracking systems for the Texas Tobacco Prevention and Control Initiative sponsored by Texas Department of Health and an examination of the use of web-based systems to provide training, technical assistance, and real-time feedback to school and community project locations and individual physician offices. For information, call (713) 743-9843 or visit www.uh.edu/hnets.

Eye and Vision Research

College of Optometry faculty members are engaged in research directly benefiting vision needs in the community and throughout the world. Research is conducted in diverse areas of basic and clinical science related to the eye, the brain, and vision in health and disease. The specific research topics range as widely as the expertise and interests of the individual faculty members. For more information, call (713) 743-1885.

Family Practice Service

The Family Practice Service provides full scope, comprehensive eye and vision care to patients six years of age and older. This includes a perceptual screening test for children in kindergarten through third grade and as needed for older children. The Family Practice Service is open five days a week by appointment but walk-ins are always welcome. For information or to schedule an appointment call (713) 743-1975.

Glaucoma Screening

College of Optometry students and faculty provided glaucoma screening under the auspices of the National Black Caucus.

Graduate Internships - Educational Psychology

Educational Psychology students in master's and doctoral programs serve internships in health agencies, schools, and hospitals. To request an intern or information, call (713) 743-9827.

Health Law & Policy Institute

Recognized as one of the leading health law programs in the United States, the Health Law & Policy Institute is an interdisciplinary center designed to stimulate teaching, research, and service in all areas of health law and policy. The institute is actively involved in helping shape health law at the local, state, national, and international levels. For information, call (713) 743-2101.

Health Network for Evaluation and Training Systems (HNETS)

The Health Network for Evaluation and Training Systems provides research, evaluation, training and technical assistance to help schools, communities and healthcare organizations to meet their health goals. Stage-based models are used to help programs facilitate change at the community, organization, work group, and individual levels. Emerging computer-based technologies are used to support these efforts. For information, visit www.uh.edu/hnets/.

Heart and Kidney Institute

The Heart and Kidney Institute researches the pathophysiological mechanisms and treatment of certain cardiovascular disorders while fostering collaborative research efforts among scientists from UH and Texas Medical Center institutions. For information, visit www.uh.edu/pharmacy/research.htm.

HOMES Clinic

Houston Outreach Medical Education and Social Services (HOMES) Clinic is part of the larger Healthcare for the Homeless project, which promotes health, hope, and dignity for Houston's homeless through accessible and comprehensive care. This student-run, free clinic is the joint collaboration of the UH College of Pharmacy, Baylor College of Medicine and the University of Texas - Houston Health Science Center. For information, call (713) 743-1298 or visit www.homeless-healthcare.org.

Institute for Drug Education and Research

The Institute for Drug Education and Research serves as a focal point for health professionals and public education programs on drug use and abuse. For information, call (713) 743-8308.

Institute for Health Care Marketing

The C.T. Bauer College of Business' Institute for Health Care Marketing conducts research in health care marketing and health promotion. For information, call 713-743-4576.

Institute for Molecular Design

The Institute for Molecular Design is an educational and research center that focuses on bridging the theoretical and experimental approaches to biomolecular structure and function. This is an area of rapidly increasing importance in medicine and industry, in part because extraordinary advances in computing now make it possible to do accurate theoretical and experimental studies of enzymes, nucleic acids, and biomolecular assemblies. Graduate students and postdoctoral associates enjoy unique opportunities for interdisciplinary research through collaborative

research projects within the University of Houston and with the Texas Medical Center. For information, visit www.chem.uh.edu/imd/index.html or call (713) 743-3263.

Internships - Sociology

The Department of Sociology offers services to families, the aged, and the homeless through partnerships with 52 community agencies. Students participate in a variety of internships in areas such as education, drug/alcohol abuse, employee assistance/job training, health, housing/community development programs, and institutions and government programs. For information, call (713) 743-3945.

John P. McGovern Annual Lectureship

This lecture series brings to campus speakers with notable expertise in the areas of family, health, and/or human values. For information, call (713) 743-3110.

La Nueva Casa de Amigos Optometry Clinic

The Optometry Clinic at the La Nueva Casa de Amigos Health Center is a joint project between the City of Houston and the UH College of Optometry. The city has provided space and renovations to house the clinic within an existing City of Houston health care facility. The UH College of Optometry operates a full service clinic serving the surrounding community. For information, call (713) 743-1971.

Law Center Health Law Externships

In conjunction with the Health Law and Policy Institute, the external placement program offers credit for supervised fieldwork with nonprofit health institutions and government organizations focused in health law and policy. For information, call (713) 743-1176.

Low Vision Rehabilitation

Patients with visual impairments are referred to the University Eye Institute to address functional vision loss. The goals are to ensure that patients increase their visual independence and improve their quality of life. A multidisciplinary team of professionals offers a continuum of care including assessment of vision loss impact on quality of life, clinical low vision exam, prescription of low vision devices, training with devices to achieve functional goals, and communication regarding progress with each patient's ophthalmologist. For information, call (713) 743-0799.

Meds for Kids Program

UH College of Pharmacy students conduct two medical education programs in elementary schools: Meds for Kids for grades 1 to 5 and Drug Awareness for grades 4 to 5. The elementary students learn about pharmacists, medications, and how to protect their health through exercises involving discussion, games, and hands-on activities. For information call 713-743-1298 or visit <http://rx.pharmacy.uh.edu> and click on the request information link.

NOVA Clinic

Part of the University Eye Institute, the NOVA Clinic meets the vision needs of multiple challenged individuals. For information, call (713) 743-2005.

Nutritional Awareness

Members of the Student Nutrition Association in the College of Education volunteer to provide nutrition information to children, adults, elderly or other specialized groups. For information call (713) 743-4117.

Ocular Diagnostic and Medical Eye Service

Patients receive both general and specialty optometric and ophthalmologic care for a wide range of ocular and medical conditions through use of state-of-the-art instruments. Laser surgery is available for a variety of conditions. Care is provided for individuals with ocular emergencies. For information, call (713) 743-2010.

Pediatric and Binocular Vision Service

This service of the University Eye Institute provides specialized examinations of infants and preschool children. State-of-the-art technology allows for complete evaluation and management of pediatric vision problems. Treatment including vision training, is provided for anomalies of binocular vision (double vision, “crossed-eyes”) and amblyopia (“lazy eye”) for patients of all ages. For information, call (713) 743-2005.

Professional Student Organizations’ Outreach

The College of Pharmacy has 13 professional student organizations which provide community service as part of their mission. Examples include outreach to ethnic communities, screening for various diseases, poison prevention programs for children, and helping to inform new mothers about childhood immunizations.

Psychology Research and Services Center (PRSC)

The Psychological Research and Services Center is an outpatient mental health training facility offering proven psychological treatments for a variety of behavioral, psychological, and adjustment problems. Individual, family, and group treatment formats are available. In addition to psychotherapy, intellectual, developmental, and personality assessment and evaluation are offered for both children and adults. Advanced doctoral students under the supervision of licensed clinical psychology faculty conduct treatment and assessment services. Fees may be adjusted on a sliding scale according to ability to pay. The PRSC also provides information about mental health to the community through continuing education professional training programs, workshops, and lectures to agencies and organizations. For information, call (713) 743-8600.

Radio Frequency Identification Department (RFID) Alliance

The RFID Alliance – Healthcare, Government, Industry, Academia is located within the Information and Logistics Technology Department of the College of Technology. The purpose of the Alliance is to conduct research and promote the awareness and use of RFID technologies for various applications such as logistics, supply chain, transportation, and medicine. For information, call (713) 743-4100.

Regional Biotechnology/Life Sciences & Influenza

The College of Technology is part of a collaboration involving the Baylor College of Medicine and the Technion-Israel Institute of Technology which will provide greater information to the public about influenza. A website will guide users through decisions that will enable the user to

assess his or her present illness and prevent future ones. The project is a prototype for a much larger effort in web-based medicine. For information, call (713) 743-3465.

Speakers Bureau - College of Optometry

College of Optometry faculty and staff are available to address school classes, senior citizens, service clubs, and others on eye and vision care topics. For information, call (713) 743-1886.

Speakers Bureau - College of Pharmacy

The College of Pharmacy provides speakers to community organizations and schools on topics such as women's health; over-the-counter medications; medication use among the elderly; medication while on the job; herbal and homeopathic medicine; poison prevention; drug awareness; and diseases such as diabetes, asthma, hypertension, and cholesterol. For information, call (713) 743-1252.

Speech, Language and Hearing Clinic

The clinic provides evaluation and treatment for speech production (articulation), language, stuttering, augmentative/alternative communication, aphasia, motor speech disorders, and accent modifications, as well as speech/language difficulties associated with hearing impairment or other medical problems. Fees are determined using a sliding scale. Hearing evaluations are available with referrals made for medical evaluation and/or hearing aid evaluation. Hearing aids are available for purchase. There is a Hearing Aid Assistance Program to provide low-cost hearing aids to qualified clients. For information call 713-743-2899.

Telecom Center

The mission of this center is to build a bridge between the telecommunications industry, institutions in the Texas Medical Center, and UH through joint research projects and educational/training programs. Its current research areas are smart antenna systems, wireless devices and systems for telemedicine and homeland security. In addition, the center leads the way in radio-frequency radiation and interference standards and compliance, and provides educational/training programs, including the Engineering Entrepreneurism program. For information, visit www.egr.uh.edu/telecom/.

Texas Eye Research and Technology Center (TERTC)

This research center in the College of Optometry performs independent testing of ophthalmic products for corporations. It is a leader of research and technology in the eye and vision care field. For information, call (713) 743-1931.

Texas Institute for Measurement, Evaluation, and Statistics

The mission of the Texas Institute for Measurement, Evaluation and Statistics is to advance knowledge about and to improve the behavioral, psychological, educational and developmental outcomes of children and adults through the application and development of advanced measurement, evaluation, and statistical research methods, the design and execution of high quality, cutting-edge research projects, and the delivery of state-of-the art research and statistical support services. For information, visit www.times.uh.edu/.

United Way Speech, Language and Hearing Clinic

Communication disorders evaluated and treated at the clinic include speech production, voice, stuttering or language disorders and speech/language difficulties associated with hearing impairment or various other medical problems. The clinic also does hearing evaluations. In the event that the speech difficulty is dialectal rather than a speech disorder, appropriate referrals for services are made. For information, call (713) 743-2898.

University Eye Institute

The College of Optometry University Eye Institute offers general eye and vision care for children, adults, and senior citizens; contact lens services; low vision rehabilitation; ocular emergency and medical eye services; and color vision services. The Eye Institute provides a complete line of frames, eyeglasses, and sports goggles. Medicare, Medicaid and other insurance programs are accepted. In addition, the College of Optometry provides vision and eye care at clinics throughout Houston. For more information, visit www.opt.uh.edu or call (713) 743-1886. To make an appointment, call (713) 743-2020

University Optical Service

The University Optical Service provides a wide selection of frames, prescription lenses, sunglasses, and sports and protective eyewear at competitive prices. For information, call (713) 743-2030.

Video Production

The School of Communication produces videos for nonprofit organizations. Fees vary according to the type of video produced. Recent productions include instructional videotape about the dangers and treatment of HIV, a public information project regarding sewer connections, and an Asian culture archival project. For information, call (713) 743-2859.

Vision Screening at Children's Museum

College of Optometry students and faculty provided a vision screening, conducted at the Children's Museum, for approximately 75 children from the Boys and Girls Clubs of Houston. Approximately 30% of these children were referred for further health care services.

Miscellaneous

A.D. Bruce Religion Center

The A.D. Bruce Religion Center is the focal point for religious activities at UH. The center hosts regular religion services and other activities that are open to the university community. Several religious denominations are represented at the center, and their respective campus ministers offer personal and religious counseling and problem solving. Two chapels are available to the public for weddings, bar and bat mitzvahs, and memorial services. For information about schedules or rental fees, call (713) 743-5051.

ASME/UH Cajun Crawfish Boil

The Cullen College of Engineering sponsors the annual Cajun Crawfish Boil, the kickoff event for the Offshore Technology Conference – an international conference that covers state-of-the art

technology for offshore drilling, exploration, production, and environmental. Held on the UH campus, thousands of industry professionals and their families attend. Many companies provide support as either corporate, food, or door prize sponsors. For information, call (713) 743-4214.

Athletics Facilities

University of Houston's athletics facilities, including Robertson Stadium, Hofheinz Pavilion, Cougar Field (baseball), Cougar Softball Complex, Tom Tellez Track at the Carl Lewis International Complex (track and field stadium) and the Yeoman Field House in the Athletics/Alumni Center, are available for public rental. For information about fees and availability, call (713) 743-9366.

CreationStation

The CreationStation, located in the University Center Underground, offers computer graphics, printed and vinyl banners, buttons, dry mounting, laminating, large format printing, faxing services, T-shirts and passport photos. The CreationStation is open to the public. For more information, contact the CreationStation at (713) 743-5252.

Design Exploration Center Initiative

An old but still usable World War II era building adjacent to the Gerald D. Hines College of Architecture is being refurbished to house expanded and new programs at the college at considerably less cost than it would take to build a new structure. This is a solution that will save money, recycle resources, and provide a clean, safe, and functional new facility. Partners like Hines, CSI, AIA, NAIOP, AGC, USGBC, and IDSA are supporting and helping to implement this project. For information, visit www.arch.uh.edu/news/DesignExp.html.

Hilton University of Houston Hotel and Conference Center

The Hilton University of Houston Hotel and Conference Center, located within the Conrad N. Hilton College of Hotel and Restaurant Management, offers 40,000 square feet of meeting space, 22 meeting rooms, three ballrooms, fine dining in Eric's restaurant, specialty dinners in Barron's restaurant (prepared by students of the college), 85 guest rooms and 6 suites. To make reservations, contact the University Hilton Hotel Front Desk at (713) 741-2447, Eric's Restaurant at (713) 743-2512, Barron's Restaurant at (713) 743-2555, or call (713) 743-2500 for catering and event sales.

Institute for Future of Fitness and Sports

The Institute for the Future of Fitness and Sports is focused on research and the dissemination of information related to lifelong involvement in sport and fitness. Projects have focused on professional sports spectatorship, and currently are focused on sport team formal and emerging leadership roles and behaviors. For information, call (713) 743-9838.

Par Excellence

Par Excellence, an honors student service organization of the Conrad N. Hilton College of Hotel and Restaurant Management, provides quality hospitality service to the Houston community. Members are trained in many aspects of formal service including synchronized service, bartending, flamb, carving, and buffet management. Proceeds provide scholarship awards to Par

Excellence members and other honors students in the college. To book a function, call (713) 743-2456.

Engineering Golf Tournament

The Cullen College of Engineering sponsors an annual golfing event to bring together alumni, friends and supporters of engineering academic programs. Participating teams typically have at least one member affiliated with a college academic program (alumnus, student, or faculty/staff member). Teams without a direct connection to a department are free to choose which department they will represent. Opportunities for corporate and individual sponsors are available (team sponsor, hole sponsor, door prize). For information, call (713) 743-4214.

UH OnCALL

Friendly customer service specialists are “on call” at (713) 743-CALL (2255) weekdays 8 a.m. to 6 p.m. to answer questions about services, programs and events at UH. The call center also maintains the university’s online events calendar (accessible from the home page at www.uh.edu) and the EVENTLine at (713) 743-9999.

University Center (UC)

The University Center offers more than 30 rooms for rental to students, campus departments, and off-campus groups sponsoring nonprofit events. UC facilities can accommodate groups of 10 to 1,000 people. The UC reservations office also handles reservations for auditoriums in Agnes Arnold Hall, the Science and Research Building and the Social Work Building, as well as outdoor space on campus. Full-service catering is available through Aramark at (713) 743-FOOD. For information about rental fees and availability, call (713) 743-5287 or visit www.uh.edu/ucaf/Reservations/reservations.html.

University of Houston Libraries

The six UH libraries contain more than 2 million volumes; 3.8 million microfilm units; 20,000 research journals and other serial subscriptions; and large quantities of manuscripts, maps, and other materials. Information regarding remote access is listed on the libraries’ website at <http://info.lib.uh.edu>. The UH libraries are open to the public. Borrowing privileges are available to faculty, staff, and students from any of the UH System institutions as well as UH alumni and HARLiC or TexShare cardholders. For information, call at (713) 743-1050.

Pre-K-12 Education

Academic Achiever’s Program - Austin High School (AAP-AHS)

Formerly known as the Students Aspiring to a Better Education Program (SABE), AAP-AHS is sponsored by the Center for Mexican American Studies in partnership with Stephen F. Austin High School. It was established in 1985 as the “Hispanic Family College Project” to encourage at-risk high school students to achieve good academic standing, graduate, and enroll at an institution of higher education, preferably the University of Houston. In order to accomplish its mission, AAP-AHS provides mentoring programs, tutoring services, skill workshops, and leadership retreats as well as scholarships upon enrollment at the UH. In order to remain in the program, however, members must do all of the following: enroll in college preparatory courses,

maintain a minimum of a 2.5 GPA, complete at least two hours of studying and/or tutoring per week, attend two skills workshops per semester, participate in community service projects, and attend all program-sponsored meetings and events. For information, call (713) 743-0914.

Academic Achiever's Program - High School Partnerships

The UH Center for Mexican American Studies works with students at many high schools in the metropolitan area to prepare them for and help them get admitted to college. Students who attend UH in the Academic Achiever's Program are eligible for scholarships and various services, including individual academic tutoring, skills workshops and leadership training, internship opportunities, and priority registration. This was formerly known as the Urban Experience Program. For information, call (713) 743-0914.

American Voices: E Pluribus Unum

UH is a partner in a program to support secondary history teachers in their efforts to improve their content knowledge of and appreciation for American history. The program emphasizes three themes: America as a nation of immigrants; fundamental American values; and forging a stable, democratic, and prosperous American society. It places special emphasis on new history teachers and teachers of students whose first language is not English. The program grant will also support the establishment of history high schools on existing campuses.

Association for Culturally Diverse Students

The association pairs selected high school students with students in the Conrad N. Hilton College of Hotel and Restaurant Management. Participants have the opportunity to take college hospitality courses and experience the college environment. For information, call (713) 743-2423.

CAN DO Project

This project provides elementary and middle school students with academic tutorials, social development, educational field trips, and mentoring by college students at their school site. Currently, CAN DO serves Thompson Elementary and Sharpstown Middle Schools. For information, call (713) 743-5020.

Center for Consumer Law

The Center for Consumer Law educates attorneys, professors, and lay people about consumer law; seeks legal, practical, and legislative solutions to common consumer problems; and encourages the development of consumer rights. It offers the community easy-to-understand explanations of consumer law issues through "The People's Law School," television programs, newspaper columns, and a video program designed to educate high school students. Its bi-annual conference attracts professors from throughout the world. For information call (713) 743-2168 or visit www.peopleslawyer.net.

Center for Gifted & Talented Education

The Center for Gifted & Talented Education provides help in finding information and resources on gifted and talented education to anyone who requests assistance. Requesters can be teachers, parents, or students themselves. For information, call (713) 743-4963.

Chemicals and the Environment: Science Teacher Institute

The College of Education hosts a ten-day summer institute for middle and high school science teachers interested in learning more about chemicals and their impact on the environment as well as how to incorporate the information into their curriculum. Teachers visit chemical plants along the Houston Ship Channel to learn how chemicals are produced, used, and disposed. They also receive information from experts about environmental and technological issues. For information, call (713) 743-5017.

Children's Theatre Festival

The Children's Theatre Festival produces three plays each summer for more than 30,000 children and their families. Held in the Lyndall Finley Wortham Theatre on the UH campus, the festival employs actors, directors, and technicians from regional, national, and international communities. For more information, call (713) 743-2930. For performance schedule and ticket information, call the theatre box office at (713) 743-2929 or visit www.class.uh.edu/theatre/performances_childrenstheatrefestival.html.

College Career Days

The Center for Mexican American Studies (CMAS) invites hundreds of Latino senior high school students from surrounding school districts to visit the campus and provides them with "UH survival" information. The purpose of College Career Days is to make college a viable option for those who may not have considered it. During their visit, the students break into small groups and attend a variety of workshops dealing with such topics as admissions, financial aid, and career planning. They hear motivational speeches and enjoy cultural entertainment. For more information, call (713) 743-3133.

Common Ground Teachers Institute

In a two-week workshop held each summer, UH professors lead seminars for greater Houston area teachers of grades 6 to 12 who want to learn more about modern classics by African American, Asian American, and Hispanic authors. Newer works are paired with traditional literary classics. Common Ground helps increase the diversity of the middle school and high school English curriculum and gives teachers the chance to discuss teaching strategies, a range of student needs, and state and district expectations with their professional peers in an informal setting. For information, call The Honors College at (713) 743-9007.

Community Vision Screening and Early Detection Program

This service, offered by the University Eye Institute, provides free vision screening for various community organizations, schools, health fairs, senior citizens groups, churches, and more. For information, call (713) 743-1990.

Community Wellness Program

Through this program, faculty and students of the College of Pharmacy offer screenings for various conditions, personalized drug interaction profiles, immunizations, hemoglobin A1c monitoring, and diabetes education in schools, community centers, churches, nursing homes, malls, and clinics. For information, call (713) 743-1298 or visit <http://rx.pharmacy.uh.edu>.

Consistency Management & Cooperative Discipline (CMCD)

The Consistency Management & Cooperative Discipline program helps students prepare for success, achieve self-discipline, and develop responsibility. The program emphasizes prevention rather than intervention, shared responsibilities between teacher and student, valued-based discipline, increased communication with parents, and effective instruction. The main components of CMCD are prevention, caring, cooperation, organization and community. For information, call (713) 743-8663 or visit www.coe.uh.edu/cmcd/.

Cougar Preview

Each fall and spring, the Office of Student Outreach Services hosts Cougar Preview, a campus open house for prospective students, family members and guests. UH faculty, staff, and student leaders explain admissions requirements, degree plans, scholarships and financial aid. In addition, prospective Cougars have the opportunity to become acquainted with the campus and with student services. For information, call the Cougar Preview Hotline at (713) 743-9595 or visit www.uh.edu/enroll/admis/undergraduate/CougarPreview.htm.

Creative Writing Program

The UH Creative Writing Program sponsors readings and literary programs in museums, arts organizations, schools, and bookstores. Many programs are presented in collaboration with other organizations, such as Brazos Bookstore, Inprint Inc., Nuestra Palabra, The Asia Society, and the UH M.D. Anderson Library. For information, call (713) 743-3013.

Creative Writing Program Community Partnership

In collaboration with Writers in the Schools, graduate students in the Creative Writing Program teach creative writing to Houston Independent School District students in elementary through high school at the M.D. Anderson Cancer Center and the Menil Museum. An arrangement with Inprint, Inc. allows UH students to work weekly with underprivileged children at Project Row Houses and with senior citizens at the Jewish Community Center to develop creative writing skills and an appreciation of literature. For information, call (713) 743-3013.

Development Clinic

The College of Optometry Development Clinic provides testing services and treatment recommendations for children with learning problems that are related to the delayed development of certain vision and/or speech-language processing skills. For information, contact (713) 743-2005.

Digital History Project

Faculty in the Department of History and the College of Education have teamed up to create an interactive website to enhance teaching and research in U.S. history. It includes an online textbook, many primary resources, and a multitude of teaching aids. The project is a collaborative effort of the University of Houston, the Museum of Fine Arts, Houston, the Chicago Historical Society, the National Park Service, the Gilder Lehrman Institute of American History, and Teachers as Historians. To access the database, go to www.digitalhistory.uh.edu/.

Engineering Outreach Dinner

High school teachers and counselors get an update on new Cullen College of Engineering programs as a part of this information session. For information, call (713) 743-4216.

Engineering Presentations

Cullen College of Engineering faculty members provide presentations to high schools, middle schools and community organizations about the different fields of engineering, pre-college preparation, aptitude and ability of prospective engineering students, degree requirements and job opportunities. For information, call (713) 743-4216 or (713) 743-4221.

Evaluation and Research to Strengthen School and Community Health Infrastructures

Through the Health Network for Evaluation and Training Systems (HNETS), College of Education Department of Health and Human Performance faculty assist schools, communities, and healthcare organizations meet their health goals. HNETS personnel develop, implement, maintain, and assess health programs and policies. Current projects include establishment and maintenance of monitoring and tracking systems for the Texas Tobacco Prevention and Control Initiative sponsored by Texas Department of Health and an examination of the use of web-based systems to provide training, technical assistance, and real-time feedback to school and community project locations and individual physician offices. For information, call (713) 743-9843 or visit www.uh.edu/hnets.

GRADE Camp

GRADE (Girls Reaching and Demonstrating Excellence) Camp is for female high school students interested in electrical engineering. The week-long day camp provides a hands-on experience in electrical and computer engineering (ECE). GRADE Camp participants who complete the program and subsequently major in ECE at the University of Houston will receive a \$1,000 scholarship toward tuition or books. The Cullen College of Engineering hosts the camp through grants from the National Science Foundation and the Texas Engineering and Technical Consortium. For information, call (713) 743-5939 or visit www.egr.uh.edu/grade.

Graduate Internships - Educational Psychology

Educational Psychology students in master's and doctoral programs serve internships in health agencies, schools, and hospitals. To request an intern or information, call (713) 743-9827.

Hands-On Learning/Studio Work

The Gerald D. Hines College of Architecture has a long history of "hands-on learning" through community service. Recent community-based projects include a historic survey of Richmond Avenue architecture as well as proposals for a new library and YMCA for the Upper Kirby District; landscape designs for Levy Park; extreme sports facilities for sites within Beltway 8; an urban village, with mixed-uses, around future Houston light rail stations; Music World Headquarters for client Destiny's Child; and a prototype sustainable school building for the Houston Independent School District.

Health Network for Evaluation and Training Systems (HNETS)

The Health Network for Evaluation and Training Systems provides research, evaluation, training and technical assistance to help schools, communities and healthcare organizations to meet their

health goals. Stage-based models are used to help programs facilitate change at the community, organization, work group, and individual levels. Emerging computer-based technologies are used to support these efforts. For information, visit www.uh.edu/hnets/.

High School Equivalency Program (HEP)

The UH High School Equivalency Program (HEP) is a federally funded GED instructional program for high school dropouts from migrant/seasonal farm worker families. The program provides classes to prepare students for all areas of the GED examination. The classes last 12 weeks and are free to students who qualify. For information, call (713) 743-9861.

Houston Area Calculus Teachers (H-ACT)

Houston Area Calculus Teachers is a free program open to all high school calculus teachers in the greater Houston area. This group meets one Saturday each month during the school year to hear presentations by mathematics faculty members or special guests. Topics relate to enhancing effectiveness of teaching high school calculus in preparation for standardized tests and advanced college mathematics. Helpful tools and software are often made available. For information, call (713)743-3455.

Houston Area Teacher Center (HATC)

The Houston Area Teacher Center sponsors the Student Teacher Workshop, which attracts approximately 600 student teachers from eight area colleges and universities to the University of Houston twice year. Workshops are taught by faculty from UH and other participating universities. The event culminates in a job fair where student teachers meet recruiters from the 32 area school districts that work with the HATC. For information, call (713) 743-5059.

Houston Teachers Institute (HTI)

The Houston Teachers Institute offers rigorous, semester-long seminars lead by UH faculty on subjects requested by public school teachers. Teachers who complete the program receive an honorarium of \$1,000. The curriculum units developed by Institute fellows are published in printed volumes and are on the HTI website. Teachers play a leading role in determining how the Institute and its seminars can be of assistance. For information, call (713) 743-3986 or visit www.uh.edu/hti.

Houston-Louis Stokes Alliance for Minority Participation

The Houston-Louis Stokes Alliance for Minority Participation is a multi-university consortium designed to increase the numbers of under-represented minorities who receive bachelor's degrees in science, technology, engineering and mathematics and to prepare the students to enter the workforce or pursue graduate degrees. Alliance staff members and scholars are available to speak with high school students, their parents and teachers. Local businesses in the chemical, biotech, actuarial, energy, and information technology fields hire H-LSAMP students as summer interns. For information, please call (713)743-5894.

Human Development Laboratory School

The Human Development Laboratory School is a model educational program that promotes a child's reasoning, autonomous self-regulation, interpersonal understanding and social

collaboration. Classes are available for children 18 months through Pre-K. Enrollment is open on a first-come, first-served basis. For information, call (713) 743-4130.

Institute for Urban Education

The College of Education's Institute for Urban Education works with guidance from a community forum to improve education in urban areas through research, instruction and collaborative educational projects. For information, call (713) 743-5049.

Internships - Sociology

The Department of Sociology offers services to families, the aged, and the homeless through partnerships with 52 community agencies. Students participate in a variety of internships in areas such as education, drug/alcohol abuse, employee assistance/job training, health, housing/community development programs, and institutions and government programs. For information, call (713) 743-3945.

KUHT-TV

HoustonPBS (KUHT-TV/Channel 8 & KUHT-DT/Channel 9), the nation's first public television station, broadcasts local and national PBS productions, and other acquired programs to viewers throughout the Southeast Texas Gulf Coast. The station also televises college courses and educational outreach services to improve school readiness for young children. HoustonPBS also provides "beyond broadcast" resources and educational workshops on numerous issues concerning area viewers. For information, call (713) 748-8888 or (800) 364-KUHT, or visit www.houstonpbs.org.

Laboratory for Innovative Technology in Education (LITE)

The Laboratory for Innovative Technology in Education prepares educators to embrace technology as a way to address real-world issues through projects that link students to communities. Doctoral students in this program work with teachers in training, practicing teachers, and educational teams to design, develop, and evaluate new educational resources and instructional strategies that emphasize collaboration, active learning, and critical thinking. For information, call (713) 743-5205 or visit www.coe.uh.edu/lite/.

Mathematics TEKS Tool Kit

This electronic toolkit is a World Wide Web resource developed by the College of Education to assist K-12 teachers and administrators in implementing the state curriculum guidelines known as Texas Essential Knowledge and Skills (TEKS). For information, visit www.tenet.edu/teks/math/ or call (713) 743-4969.

McReynolds Middle School Project

With the sponsorship of Fiesta Cab, the UH Center for Mexican American Studies is supplying tutors to a select group of 8th graders at McReynolds Middle School. For information, call (713) 743-3134.

Meds for Kids Program

UH College of Pharmacy students conduct two medical education programs in elementary schools: Meds for Kids for grades 1 to 5 and Drug Awareness for grades 4 to 5. The elementary

students learn about pharmacists, medications, and how to protect their health through exercises involving discussion, games, and hands-on activities. For information call 713-743-1298 or visit <http://rx.pharmacy.uh.edu> and click on the request information link.

Mentoring and Enrichment Seminar in Engineering Training (MESET)

The Cullen College of Engineering sponsors this three-week, expenses paid, residential summer program for rising high school seniors. For more than 20 years, the seminar has been familiarizing high school students with opportunities in the field of engineering and allowing them to experience the university environment. The program provides enrichment mini courses, guest lectures, field trips to industrial installations on the Gulf Coast, tours through college facilities, and recreational activities. For information, call (713) 743-4222.

Movers & Shakers Career Forum

This forum, hosted by the Consumer Science and Merchandising program in the College of Technology, brings leading retail industry experts and authorities together with high school, community college, and university students in an interactive setting designed to share experience and lessons learned, as well as answer questions about future career opportunities. For information, call (713) 743-4637.

Partnership for Quality Education

This program prepares teachers for urban schools using 21st century research, content, methods and technology. For information, call (713) 743-4989 or visit <http://pqe.coe.uh.edu/>.

Personal Financial Planning

C.T. Bauer College of Business undergraduates first learned the principles of personal financial planning. They then taught these principles to students at Austin High School. The college plans to introduce this course permanently into its course offerings.

Prep Summer Camp

The UH School-University Partnerships Program (UH-SUP) offers affordable SAT test preparation for high school juniors and seniors taught by experienced instructors. UH-SUP allows participants to pay on a payment plan. UH-SUP exposes participants not only to SAT test preparation, but college preparation workshops as well. The college workshops include, but are not limited to, college admissions, scholarship search, career assessment, financial management, and job readiness. For information, call (71) 743-5020.

Program and Project Evaluations

When schools and community organizations implement programs using grant money, they are often required to have an outsider evaluate the project – a so called third-party evaluation. The UH College of Education's Institute for Urban Education provides this service. An example of current programs under evaluation by IUE faculty is Bright Beginnings, a \$3 million project supported by the United Way with funding from ExxonMobil to provide professional development to staff in child care centers. Another is an evaluation of recruitment and retention activities funded by Houston Endowment Inc. at four community colleges. To have your program evaluated, call (713) 743-5049.

Program for Mastery in Engineering Studies (PROMES)

PROMES, pronounced “promise,” is a year-long service program for engineering students that provides recruitment, academic advising, workshops, scholarships and job opportunities. PROMES provides a built-in bridge for both freshmen and transfer engineering students. PROMES math/engineering excellence workshops have propelled PROMES students to the top of their math/engineering classes. For information, call (713) 743-4222 or visit www.egr.uh.edu/promes/.

Project CanDo

The UH College of Education’s Institute for Urban Education matches mentors and tutors to students in grades K-12. If your school would like this type of support, or if you would like to volunteer as a mentor or tutor, call (713) 743-5023.

Project GRAD Summer Academy

Students from participating high schools who attend two Summer Academies, maintain a required grade point average, and gain admittance to college are each eligible for a \$4,000 scholarship. The Summer Academy is a month-long program sponsored by the UH College of Education’s Institute for Urban Education. Approximately 500 students attend each summer. For information, call (713) 743-5023.

Public Education Policy Research

The Sociology of Education Research Group (SERG) works with school districts in the Houston metropolitan area and the Texas Education Agency to evaluate educational programs and assess factors that affect student academic achievement, student dropout rates, and teacher morale and retention. SERG also conducts school climate studies for school districts. For information, call (713) 743-3955 or (713) 743-3959.

Quarknet

Quarknet is a program sponsored by the U.S. Department of Energy that pairs high school science teachers with active researchers in particle and nuclear physics. Rice University and the University of Houston hosted a three-week workshop in 2005 for 24 area teachers. Teachers get involved in real research projects with physicists from both Rice and UH. For information, call (713) 743-9965 or visit <http://outreach.phys.uh.edu>.

School of Theatre Costume Department

The School of Theatre’s Costume Department provides costume rental service to not-for-profit theaters, school districts, UIL competitions, private schools, churches, fraternal organizations, and other university programs on a fee schedule that is standardized for all participants. The department also provides advice in makeup and costume design, craftsmanship and technology on an individual basis to Houston Independent School District, private, professional, community and statewide theatrical productions. In addition, the school’s Design Program will make recommendations for novice costume and makeup designers in producing organizations. Student designers are available for a fee to the venue as contracted. For information, call (713) 743-2918.

School Partnership Program

Blaffer Gallery's UHReach School Partnership Program provides elementary, middle and high schools with a multidisciplinary experience through guided tours of the gallery as well as pre- and post-visit classroom instruction. The pre-visit interactive slide presentation introduces students to the works of the exhibition. The gallery visit reinforces the exhibition's concepts and familiarizes the students with the physical characteristics of an art gallery and university campus. The post-visit involves a hands-on art activity related to the exhibition. Additionally, teachers from participating schools receive education kits. For more information, call (713) 743-9526.

Science Carnival

The Texas Center for Superconductivity at the University of Houston (TcSUH) and the Center for Materials Chemistry (CMC), in conjunction with departments from the College of Natural Sciences and Mathematics, hold an annual Science Carnival for approximately 250 fifth-grade students from the Houston area. The carnival includes hands-on science activities, experiments, and demonstrations conducted by TcSUH, CMC, and other personnel. For information, visit www.uh.edu/tcsuh/ or call (713) 743-8213.

Shakespeare Outreach

A touring company of young actors brings Shakespeare to public venues free of charge. Programs are approximately 35 minutes in length. For information, call (713) 743-2930.

Science Mathematics Applied Resources for Teachers (SMART) Center

The Science Mathematics Applied Resources for Teachers Center enhances pre-college math and science teaching through in-service and staff development programs in chemistry, physics, and physical science for K-12 teachers. Offered through the College Natural Sciences and Mathematics, the SMART Center's programs are Enhancement of Chemical Science Concepts for elementary and intermediate school teachers, the Teaching Science with TOYS (Teaching Our Youth Science), and programs requested by schools for staff development. Programs designed for high school and elementary school students are also available. The center also administers the Welch Summer Scholar Program at UH. For information, visit smart.chem.uh.edu/ or call (713) 743-2720. Information on the Welch Program is available at www.utexas.edu/research/chemed/lagowski/WSSP/.

SNA/Houston Public Library After School Program

The Student Nutrition Association has partnered with the Houston Public Library to develop nutrition education programs for after school programs currently held at a local library. Students have opportunities to develop and deliver the educational sessions and get immediate feedback both from the children and the library preceptor.

Speakers Bureau - College of Optometry

College of Optometry faculty and staff are available to address school classes, senior citizens, service clubs, and others on eye and vision care topics. For information, call (713) 743-1886.

Speakers Bureau - College of Pharmacy

The College of Pharmacy provides speakers to community organizations and schools on topics such as women's health; over-the-counter medications; medication use among the elderly;

medication while on the job; herbal and homeopathic medicine; poison prevention; drug awareness; and diseases such as diabetes, asthma, hypertension, and cholesterol. For information, call (713) 743-1252.

Speakers Bureau - College of Technology

College of Technology professors are available to speak at middle and high schools about growth careers for the future, educational opportunities, college life, and specific technology subjects. The college also can assist with career fairs and career days, and provide information on majors and minors available through the college. For information, call (713) 743-4886.

Student Organizations Community Service

Student organizations in the C.T. Bauer College of Business, such as Beta Alpha Psi and the Accounting Society, perform various service activities throughout the year. In some cases, students donate their time to non-profit institutions (churches, etc.) by providing help with the organization's accounting. They also visit high schools to discuss career opportunities with graduating seniors.

Summer Arts Workshop

Blaffer Gallery invites children ages 6 to 12 to create their own artworks at its popular Summer Arts Workshop. Children learn artistic concepts while using a broad range of media – everything from crayons to chalk, paint, fabric, glitter, sculpting clay, feathers, cardboard, and shells – to create collages, paintings, and ingenious 3D projects. For information, call (713) 743-9526.

Summer Discovery Program

The Gerald D. Hines College of Architecture's Summer Discovery Program introduces high school students to the profession of architecture. The five-week program consists of classes in design, structure, and architectural history as well as field trips to job sites, architects' offices and buildings of special interest. For information, call (713) 743-2404.

Surveying Career Program

Faculty in the College of Technology, in partnership with the surveying industry, provide activities and information on careers in surveying. For information call (713) 743-4044 or (713) 743-7620.

Teacher Inservice Program in Ethics, Values and Culture

The Department of Philosophy presents lectures on ethnics done as in-services to teachers at Lee High School. The teachers receive both in-service and gifted and talented credit. The department is looking into expanding the program to DeBakey High School. For information, see www.uh.edu/phil/LeeHigh/LeeHigh.html.

Teachers: Ask a TcSUH Scientist

This online educational resource enables teachers to direct questions about superconductivity to Texas Center for Superconductivity at the University of Houston (TcSUH) scientists. Visit www.uh.edu/tcsuh/educate/ask_tcsuh.html or call (713) 743-8213.

Technology Presentations

College of Technology faculty members provide presentations for high school, middle school, community college and community organizations about different facets of technology, pre-college preparation, transferability of programs, degree requirements and job opportunities. For information, call (713) 743-4886.

Texas Essential Knowledge and Skills Grants (TEKS)

Faculty in the College of Technology are developing curriculum resources for teachers to help them implement TEKS (basic curriculum adhered to by all Texas schools) in the classroom in the areas of marketing, business, and technology education. Resources include computer-aided instruction and distance education delivery methods as well as professional development activities for teachers such as summer workshops and online learning opportunities. The grants are administered by the Texas Education Agency. For information call (713) 743-4024.

Texas High Schools for Hospitality

This partnership between the Hilton University of Houston Hotel and Conference Center and Jefferson Davis High School provides students with training and on-site work experience in six primary areas of hotel operations: front office, food and beverage, rooms division, communications, accounting, sales and marketing. For information, call (713) 743-2446.

Texas Institute for Measurement, Evaluation, and Statistics

The mission of the Texas Institute for Measurement, Evaluation and Statistics is to advance knowledge about and to improve the behavioral, psychological, educational and developmental outcomes of children and adults through the application and development of advanced measurement, evaluation, and statistical research methods, the design and execution of high quality, cutting-edge research projects, and the delivery of state-of-the art research and statistical support services. For information, visit www.times.uh.edu/.

Tour Program

Free guided tours of Blaffer Gallery are offered to groups of 10 or more children or adults. Teachers, professors, parents, and tour groups with their escorts are invited to register for a tour. Knowledgeable docents are advanced undergraduate and graduate students in art, art history, and education, as well as professional artists. Interactive tours offer students and others insight into Blaffer's changing exhibitions of internationally known contemporary artworks, and tours can be customized to the group. To schedule a tour, call (713)743-9526 at least one week in advance.

Touring Authors of Houston

Arte Público Press is the oldest and largest publisher of U.S. Hispanic books and anthologies of fiction, non-fiction, and history for children and adults. Arte Público Press authors conduct creative writing workshops and readings at schools and community centers throughout the United States. For more information about organizing an author visit for your organization or school, call (713) 743-2999.

Upward Bound in Math and Science

Upward Bound for Math and Science is a six-week residential program for 60 high school students from the Houston area. Students live in dorms and engage in classes, labs, and field

trips, all related to science, math, and technology. The College of Education's Institute for Urban Education conducts this program, which is funded by the U. S. Department of Education. For information, call (713) 743-5023.

Upward Bound Math & Science Center (UBMS)

The UBMS program helps student successfully complete high school and obtain a college degree or certification in a math or science field. The center serves fifty high schools students from the Houston metropolitan area through a year-round academic enrichment program. Applications are accepted from February until April of each year from rising 9th and 10th grade students. For information, call (713) 743-5020.

Urban Talent Research Institute

The mission of the University of Houston's Urban Talent Research Institute is to enhance the identification and development of individual gifts and talents of children and youth in urban centers and their metropolitan areas through university-school partnerships. The Institute's priorities are to: 1) provide research, instruction, and service for maximizing talent development in school-aged students; 2) create a national research agenda focused on recognition and enhancement of talent in urban children and youth; 3) develop a national center for research focusing on the development of artistically talented individuals; and 4) demonstrate, through model sites and programs, techniques for improving education of urban school-aged students through talent development. For information, call (713) 743-4984.

Young Artist Apprenticeship Program

Blaffer Gallery partners with local art teachers to provide an intensive workshop experiences with professional artists to at-risk high school students. Participants visit the Gallery each day after school for hands-on studio experience with practicing artist-mentors. Workshops are six weeks long and held in the fall and spring. After exploring artistic and professional techniques, they young artists create their own works of art, which are then presented publicly in a professionally installed exhibition. For information, call (713)743-9526.

Science/Technology/Environment

Alliance for NanoHealth

The Alliance for NanoHealth is a collaborative enterprise aimed at bridging the gap between biology, medicine, public health and physical science with the goal of saving lives. By developing nanoscale engineering devices that can treat the human body at a molecular level, it may be possible to prevent or even cure complex diseases. The five member institutions are Rice University, The University of Texas Health Science Center, Baylor College of Medicine, the University of Texas M.D. Anderson Cancer Center and UH. For information, visit www.nanohealthalliance.org/ and www.uh.edu/bionano/.

Allied Geophysical Laboratories (AGL)

The AGL mission is to develop and calibrate new means of imaging hydrocarbon accumulations. AGL uses state-of-the-art physical modeling and cluster computing as tools to extract new

information from currently underutilized types of seismic data. Current efforts address issues in vector seismic analysis, extraction of more information from the long-offset component of seismic data that is usually muted, and the integrated analysis of multiple 3D seismic attribute cubes. For information, visit www.agl.uh.edu/ or call (713) 743-9119.

Bioengineering Research Center

The center promotes research and graduate education in bioengineering. It sponsors a Bioengineering Seminar Series and fosters interaction of college faculty involved in bioengineering research with colleagues at UH and in the greater Houston area, including the Texas Medical Center, Rice University, and the UT Medical Branch at Galveston. It also coordinates UH's presence in the Annual Houston Conference on Biomedical Engineering Research, organized by the Houston Society for Engineering in Medicine and Biology. For information, call (713) 743-4502.

Building Performance Laboratory (BPL) Initiative

Using digital instrumentation and computer simulation models, the BPL performs comprehensive post-occupancy evaluation studies where environmental design intentions are verified and validated against everyday experiences of the building occupants. It also provides LEED-accredited project commissioning and continuous commissioning services matching the ongoing operation and control of a building to its design intent as well as its changing use patterns. For information, call (713) 743-2372 or visit www.arch.uh.edu/news/BPL.html.

Center for Applied Geoscience Excellence

Researchers in this center, with the support of industry and government partners, are improving the methods of analyzing reservoirs using new seismic data. For information, call (713) 743-9119.

Center for Innovative Grouting Materials and Technology (CIGMAT)

CIGMAT is an industry/university consortium established to meet growing demand from industry for better management of information on grouts and grout applications. Ongoing research projects include rehabilitation of wastewater facilities, a new generation of deep foundations, and new pipes and materials. The center's goal is to foster improved understanding of grouting materials and their applications. Also of interest are other competing and complementing materials and technologies to grouting used in construction and rehabilitation of civil infrastructure. For information, call (713) 743-4178 or visit <http://gem1.cive.uh.edu/>.

Center for Materials Chemistry (CMC-UH)

The Center for Materials Chemistry at the University of Houston (CMC-UH) includes faculty members from physics, chemistry, and chemical engineering. The center has two major research themes: Advanced Oxides and Related Materials and Controlled Structures and Properties of Hybrid Organic-Inorganic Nanomaterials and Thin Films. Industry partners help formulate the research goals and participate in joint projects to maximize technology transfer to the commercial sector. CMC-UH offers undergraduates the opportunity to perform cutting edge research during a nine-week in-residence program. Students participating in this National Science Foundation-sponsored program receive a \$4,000 stipend, rent-free housing, and three

hours of UH course credit. For information, visit www.cmc.uh.edu/home.htm or call (713) 743-2785.

Center for Neuro-Engineering and Cognitive Science

This center is the successor of the Cognitive Science Initiative, and its primary mission is to conduct basic and applied research in neuro-engineering and cognitive science. Other important objectives include the education of students in a multi-disciplinary approach to topics relevant to neuro-engineering and cognitive science and the continuation and fostering of research alliances with Houston and Galveston educational institutions and medical centers. For information, call (713) 743-4428.

Center for the Reliability of Ceramics

The center provides a cooperative forum for university, national lab, and industrial researchers to cooperate on research directed toward the improvement of ceramic performance in engineering applications. Research topics include crack growth resistance modeling in brittle materials, statistical prediction of failure of engineering components, multi-scale determination of failure mechanisms in ceramics, and fatigue degradation in ceramics and ceramic composites. For information, visit www.egr.uh.edu/me/ceramics/ or call (713) 743-4526.

Chemicals and the Environment: Science Teacher Institute

The College of Education hosts a ten-day summer institute for middle and high school science teachers interested in learning more about chemicals and their impact on the environment as well as how to incorporate the information into their curriculum. Teachers visit chemical plants along the Houston Ship Channel to learn how chemicals are produced, used, and disposed. They also receive information from experts about environmental and technological issues. For information, call (713) 743-5017.

Composites Engineering and Applications Center (CEAC)

The Composites Engineering and Applications Center for Petroleum Exploration and Production investigates the potential technical and life-cycle cost benefits of composite materials in onshore and offshore operations. Of special interest are structural components such as risers, tethers, moorings, and spoolable sub-sea flow lines for deep-water applications where present materials may have performance and economic limitations. The current CEAC consortium includes the University of Houston, international petroleum E&P companies, supporting industries, and U.S. government/certification agencies. For information, call (713) 743-5053 or visit www.egr.uh.edu/CEAC.

Computer Design Center

The Computer Design Center in the Gerald D. Hines College of Architecture investigates the use of the computer as a design tool, with an emphasis on modeling, visualization and animation. Partnerships have been established with computer software manufacturers and Houston area nonprofit groups. For more information, call (713) 743-2384 or (713) 743-2403.

Engineering Career Center

The Engineering Career Center is a comprehensive service center for both students and industry, dedicated to the development and implementation of programs and services that provide a

lifetime of career management for students as well as professional and quality responsiveness to industry partners to assist them in meeting their recruiting targets. For information, visit www.egr.uh.edu/career.

Engineering Education Outreach

Engineering Education Outreach provides individual discipline review courses for graduate engineers taking the upper-level of state exams (Professional Engineer-PE/P&P and Fundamentals of Engineering-FE/EIT). Short courses are available to provide professional development hours for those seeking to continue their registration as professional engineers. A one-hour workshop on engineering ethics can be presented at local companies. Other custom programs may be arranged. For information call (713) 743-4202 or visit www.egr.uh.edu/ContEd/.

Engineering Leadership & Entrepreneurism Program (ELEP)

To meet the challenge of providing engineers for the 21st century, the Cullen College of Engineering promotes the Engineering Leadership & Entrepreneurism Program. ELEP serves the engineering profession by broadening student knowledge base and experience in entrepreneurial and business practices through the sponsorship of guest lectures, mentor programs, and retreats. For more information, call (713) 743-4202.

Engineering, Science, Technology Council of Houston (ECH) Annual Open Retreat

In January of each year, the Cullen College of Engineering hosts the Annual Open Retreat of the ECH. Representatives from Houston-area professional engineering societies, as well as deans/representatives from the University of Houston and Rice University, participate in the retreat, and plans for the upcoming year are presented. For information, call (713) 743-4215.

Environmental Institute of Houston (EIH)

Founded at the University of Houston-Clear Lake, the Environmental Institute of Houston addresses real and potential issues of environmental concern, such as loss of biodiversity, health risks from pollution, failure of food supplies, and depletion of natural resources. With the University of Houston as its partner, EIH is a service and research operation with a broad scope of environmental activity. The mission of EIH is to help people in the Houston region participate more effectively in environmental improvement. For information, visit www.eih.uh.edu/index.htm or call (713) 743-9138.

GRADE Camp

GRADE (Girls Reaching and Demonstrating Excellence) Camp is for female high school students interested in electrical engineering. The week-long day camp provides a hands-on experience in electrical and computer engineering (ECE). GRADE Camp participants who complete the program and subsequently major in ECE at the University of Houston will receive a \$1,000 scholarship toward tuition or books. The Cullen College of Engineering hosts the camp through grants from the National Science Foundation and the Texas Engineering and Technical Consortium. For information, call (713) 743-5939 or visit www.egr.uh.edu/grade.

Heart and Kidney Institute

The Heart and Kidney Institute researches the pathophysiological mechanisms and treatment of certain cardiovascular disorders while fostering collaborative research efforts among scientists from UH and Texas Medical Center institutions. For information, visit www.uh.edu/pharmacy/research.htm.

Houston Coastal Center

Scientists from several universities, state and federal agencies, and environmental organizations are engaged in studies concerned with restoration and maintenance of native Gulf Coast prairie lands at the 200-acre center. Presentations and publications document their work as it progresses. Among the center's work is the Prairie Restoration Project, being done in cooperation with the U.S. Fish and Wildlife Service. For information, visit <http://eih.uh.edu/coastalcenter/index.htm> or call (713) 743-9101.

Houston InfoComm Technology (HIT) Center

The HIT Center is a consortium that provides support for collaborative research in first response, traffic mobility, clean air mitigation and homeland security. For information, visit www.thehitcenter.org/.

Houston-Louis Stokes Alliance for Minority Participation

The Houston-Louis Stokes Alliance for Minority Participation is a multi-university consortium designed to increase the numbers of under-represented minorities who receive bachelor's degrees in science, technology, engineering and mathematics and to prepare the students to enter the workforce or pursue graduate degrees. Alliance staff members and scholars are available to speak with high school students, their parents and teachers. Local businesses in the chemical, biotech, actuarial, energy, and information technology fields hire H-LSAMP students as summer interns. For information, please call (713)743-5894.

Institute for Fluid Dynamics and Turbulence

The objectives of the Institute for Fluid Dynamics and Turbulence's experimental, computational and theoretical research are to understand turbulence physics and to apply this knowledge in technologically relevant flows to control entrainment, mixing, drag, combustion, and aerodynamic noise, as well as transport phenomena in two-phase flows. For information, call (713) 743-4544.

Institute for Improved Oil Recovery

The Institute is an industry/university consortium for conducting research in both improved recovery from, and characterization of, hydrocarbon reservoirs. Ongoing projects include miscible flooding for Alaskan shallow sands, surfactant treatment for fractured carbonates, improved characterization of NMR logging, and effect of capillary/bond numbers on relative permeability. For information, call (713) 743-4331.

Institute for Molecular Design

The Institute for Molecular Design is an educational and research center that focuses on bridging the theoretical and experimental approaches to biomolecular structure and function. This is an area of rapidly increasing importance in medicine and industry, in part because extraordinary

advances in computing now make it possible to do accurate theoretical and experimental studies of enzymes, nucleic acids, and biomolecular assemblies. Graduate students and postdoctoral associates enjoy unique opportunities for interdisciplinary research through collaborative research projects within the University of Houston and with the Texas Medical Center. For information, visit www.chem.uh.edu/imd/index.html or call (713) 743-3263.

Institute for Multi-dimensional Air Quality Studies

The Institute for Multi-dimensional Air Quality Studies is a diverse group of researchers from fields of geosciences, math, computer science, and chemistry committed to using premier scientific tools to model the complex issues of air quality and climate change. Modeling efforts address many critical components simultaneously, including emissions inventories, meteorology, and atmospheric chemistry. Institute members are currently developing atmospheric boundary layer measurement techniques. They work closely with national, state, and local leaders to identify key scenarios to run on their modeling systems so that public policy is guided with the best science. For information, visit www.imaqs.uh.edu/ or call (713) 743-0707.

Institute of Space Systems Operations (ISSO)

The Institute of Space Systems Operations is the operational agency of the Houston Partnership for Space Exploration, whose mission is to advance the development of the aerospace community in the Houston area and Texas. Particular emphasis is directed to the academic, industrial, and government programs associated with NASA's Johnson Space Center. Since 1991, ISSO projects have established solid professional links between NASA-JSC, the Houston aerospace community, and UH and UH-Clear Lake. For information, visit www.issu.uh.edu/ or call (713) 743-9135.

International Telecommunications Research Institute (ITRI)

The institute has three primary objectives: to assist in the successful implementation and utilization of communication technology, to address the social consequences of communication technology in its historical context, and to study the underlying processes involved in people's interaction with communication technology. Areas of research include the identification of factors that influence the success or failure of communication systems and services; the potential of telecommunications for altering historic, social and cultural patterns; and applied research on communication and technology. In addition to sponsoring forums and conferences, the institute partners with scholars and other institutions.

Mentoring and Enrichment Seminar in Engineering Training (MESET)

The Cullen College of Engineering sponsors this three-week, expenses paid, residential summer program for rising high school seniors. For more than 20 years, the seminar has been familiarizing high school students with opportunities in the field of engineering and allowing them to experience the university environment. The program provides enrichment mini courses, guest lectures, field trips to industrial installations on the Gulf Coast, tours through college facilities, and recreational activities. For information, call (713) 743-4222.

Nanosystem Manufacturing Center (NMC)

The mission of the NMC is to develop a suite of enabling technologies for integrating the new ultra-small, ultra-fast magnetic, electronic and molecular device families into powerful

nanosystems whose capabilities far exceed the state-of-the-art in data processing, storage and communication. The NMC has received significant financial support from the Defense Advanced Research Projects Agency, the National Security Agency, International-Sematech, the Texas Center for Superconductivity at UH, and the State of Texas Advanced Technology Program. Its industrial partners include EDTEK, Inc., Infineon Technologies, Axcelis Technologies, and Seagate Technologies. For information, call (713) 743-4449.

Program for Mastery in Engineering Studies (PROMES)

PROMES, pronounced “promise,” is a year-long service program for engineering students that provides recruitment, academic advising, workshops, scholarships and job opportunities. PROMES provides a built-in bridge for both freshmen and transfer engineering students. PROMES math/engineering excellence workshops have propelled PROMES students to the top of their math/engineering classes. For information, call (713) 743-4222 or visit www.egr.uh.edu/promes/.

Quarknet

Quarknet is a program sponsored by the U.S. Department of Energy that pairs high school science teachers with active researchers in particle and nuclear physics. Rice University and the University of Houston hosted a three-week workshop in 2005 for 24 area teachers. Teachers get involved in real research projects with physicists from both Rice and UH. For information, call (713) 743-9965 or visit <http://outreach.phys.uh.edu>.

Radio Frequency Identification Department (RFID) Alliance

The RFID Alliance – Healthcare, Government, Industry, Academia is located within the Information and Logistics Technology Department of the College of Technology. The purpose of the Alliance is to conduct research and promote the awareness and use of RFID technologies for various applications such as logistics, supply chain, transportation, and medicine. For information, call (713) 743-4100.

Regional Biotechnology/Life Sciences & Influenza

The College of Technology is part of a collaboration involving the Baylor College of Medicine and the Technion-Israel Institute of Technology which will provide greater information to the public about Influenza. A website will guide users through decisions that will enable the user to assess his or her present illness and prevent future ones. The project is a prototype for a much larger effort in web-based medicine. For information, call (713) 743-3465

Regional Biotechnology/Life Sciences Workforce Alliance

The College of Technology has assumed a leadership role in forming and maintaining an alliance of life science employers, universities, community colleges, BioHouston, the Greater Houston Partnership, the Texas Medical Center and its constituent institutions, and the Texas Gulf Coast Workforce Commission. The biotechnology/life sciences industry in the Houston region is growing as momentum gathers in commercializing the extraordinary life-science technologies that have their origins in the Texas Medical Center and the region’s academic and other research institutions. For information, call (713) 743-3465.

Sasakawa International Center for Space Architecture

The Sasakawa International Center for Space Architecture is a unique research, design, and teaching entity within the Gerald D. Hines College of Architecture. Its mission is to plan and implement programs that will advance peaceful and beneficial uses of space and space technology. SICSA also pursues planning and design for difficult and extreme environments on Earth that can benefit from advanced approaches, systems and applications that are revealed through space investigation and concepts. SICSA 's location in Houston affords convenient access to diverse information resources and collaboration opportunities afforded by the NASA Johnson Space Center, local aerospace companies, major research institutions, and commercial technology enterprises in the city and region. For information, visit www.sicsa.uh.edu/.

Science Carnival

The Texas Center for Superconductivity at the University of Houston (TcSUH) and the Center for Materials Chemistry (CMC), in conjunction with departments from the College of Natural Sciences and Mathematics, hold an annual Science Carnival for approximately 250 fifth-grade students from the Houston area. The carnival includes hands-on science activities, experiments, and demonstrations conducted by TcSUH, CMC, and other personnel. For more information, visit www.uh.edu/tcsuh/ or call (713) 743-8213.

Science Mathematics Applied Resources for Teachers (SMART) Center

The Science Mathematics Applied Resources for Teachers Center enhances pre-college math and science teaching through in-service and staff development programs in chemistry, physics, and physical science for K-12 teachers. Offered through the College Natural Sciences and Mathematics, the SMART Center's programs are Enhancement of Chemical Science Concepts for elementary and intermediate school teachers, the Teaching Science with TOYS (Teaching Our Youth Science), and programs requested by schools for staff development. Programs designed for high school and elementary school students are also available. The center also administers the Welch Summer Scholar Program at UH. For information, visit smart.chem.uh.edu/ or call (713) 743-2720. Information on the Welch Program is available at www.utexas.edu/research/chemed/lagowski/WSSP/.

Southwest Public Safety Technology Center (SWTC)

The center develops public safety technology test beds; serves as a test site for a national academic consortium to conduct public safety technology research and development; commercializes new public safety technologies through the creation of partnerships with industry; and provides technology assistance to the law enforcement community. The center addresses issues ranging from traffic congestion to emergency evacuation, from environmental impacts to terrorist attacks, from flood control to emergency medical response, and from collective governing across judiciary boundaries to disaster relief. Center staff made important contributions to the FEMA disaster relief centers after Hurricane Katrina and to joint relief efforts in East Texas after Hurricane Rita. It is also providing the technology leadership at the Houston Port Security Steering Council and planning the regional information technology infrastructure. In partnership with others, SWTC has also launched a number of border security projects ranging from communication interoperability to crime mapping along the Texas-Mexico border.

TcSUH Distinguished Lecture Series

The Texas Center for Superconductivity at UH hosts an annual Nobel Lecture Series and periodic special seminars, workshops, and symposia as part of its educational community outreach program. For calendar information, see www.uh.edu/tcsuh.

Teachers: Ask a TcSUH Scientist

This online educational resource enables teachers to direct questions about superconductivity to Texas Center for Superconductivity at the University of Houston (TcSUH) scientists. Visit www.uh.edu/tcsuh/educate/ask_tcsuh.html or call (713) 743-8213.

Technology Leadership Intern Program

The Technology Leadership Intern Program within the College of Technology matches outstanding junior and senior students with leading edge companies in the Houston area through internships, job placement and other collaborative partnerships. For information, call (713) 743-4023.

Telecom Center

The mission of this center is to build a bridge between the telecommunications industry, institutions in the Texas Medical Center, and UH through joint research projects and educational/training programs. Its current research areas are smart antenna systems, wireless devices and systems for telemedicine and homeland security. In addition, the center leads the way in radio-frequency radiation and interference standards and compliance, and provides educational/training programs, including the Engineering Entrepreneurism program. For information, visit www.egr.uh.edu/telecom/.

Texas Energy Center (TEC)

The Texas Energy Center is a non-profit organization created to integrate and mobilize industry, university, government and other entities in the greater Houston region to meet major energy challenges and to ensure that Houston continues its global energy leadership, not only in conventional energy but also in clean energy. The Cullen College of Engineering is a founding member, along with the Fort Bend Economic Development Council and major energy corporations. For information, visit www.txec.org/.

Texas Learning and Computation Center (TLC²)

The Texas Learning and Computation Center fosters and supports interdisciplinary research, education and training in computational sciences and engineering through centers, laboratories and individual faculty initiatives. TLC² has state-of-the-art computation, visualization and educational facilities for environmental studies; biological, biomedical and energy research; undergraduate and graduate education; and teacher training. TLC² sponsors conferences and workshops as well as competitions. Outreach partners include the European Space Agency, the Fennessey Ranch, the Houston Area Technology Advancement Center, and the World Space Congress. For information, visit www.tlc2.uh.edu/ or call (713) 743-3371.

University Research, Engineering and Technology Institute for Intelligent Bio-Nano Materials and Structures for Aerospace Vehicles

The next revolution in air travel and space exploration is contingent upon our ability to reduce mass, size, and power consumption while increasing reliability. The Institute will advance nano-bio technologies for both aircraft and space systems. UH engineers are concentrating on establishing distributed intelligence architectures to improve flight and mechanical performance and safety of future aircraft and spacecraft, and fabricating new nanomaterials that are stronger and lighter than conventional materials. The center is based at Texas A&M University, and members include the University of Houston, Prairie View A&M University, Rice University, Texas Southern University, and the University of Texas at Arlington. For information, visit www.egr.uh.edu/nasareti/.

Upward Bound in Math and Science

Upward Bound for Math and Science is a six-week residential program for 60 high school students from the Houston area. Students live in dorms and engage in classes, labs, and field trips, all related to science, math, and technology. The College of Education's Institute for Urban Education conducts this program, which is funded by the U. S. Department of Education. For information, call (713) 743-5023.

Upward Bound Math & Science Center (UBMS)

The UBMS program helps student successfully complete high school and obtain a college degree or certification in a math or science field. The center serves fifty high schools students from the Houston metropolitan area through a year-round academic enrichment program. Applications are accepted from February until April of each year from rising 9th and 10th grade students. For information, call (713) 743-5020.

Well Logging Laboratory (WLL)

The Well Logging Laboratory investigates the electric properties of reservoir rocks over a wide range of frequency. In addition, theoretical and experimental studies have obtained a better understanding of electric tool response in complex borehole environments, such as dipping formations, thin invaded beds, and anisotropic formations. Public services include nuclear logging calibration facilities and industrial consortium on resistivity logging. For information, call (713) 743-4421 or visit www.welllogginglab.com.

World Laboratory Center for Pan-American Collaboration in Science and Technology

The World Laboratory Center for Pan-American Collaboration in Science and Technology seeks to strengthen U.S. ties with Latin America by promoting science and technology in developing countries. For information, call (713) 743-3586.

Social and Consumer Services

A.A. White Dispute Resolution Center

The A.A. White Dispute Resolution Center fosters public awareness and understanding of conflicts and conflict resolution and the impact of interpersonal disputes on society. It encourages the use of alternative means of dispute resolution. The center offers 40-hour Basic

and Advanced Mediation Training courses. The center also provides assistance to the courts in encouraging the early settlement of pending litigation and to educational institutions in the development and use of alternative dispute resolution concepts and procedures. For information, call (713) 743-2066 or visit www.law.uh.edu/blakely/aawhite.

African American Studies (AAS) Program

The African American Studies Program focuses upon the cultural and historical heritage of African Americans and their contributions to U. S. and world civilizations. The purpose of the program is to develop, promote and enhance education through teaching, research and community service projects. For more information, contact the AAS office at (713) 743-2811.

American Humanics Program

The American Humanics Nonprofit Certificate Program at the University of Houston Graduate College of Social Work prepares undergraduate and post-baccalaureate students in any field of study for careers in nonprofit management. Required courses include human development, nonprofit management, public relations/marketing, fiscal management and fund development. An experiential learning component requires a supervised internship. Organizations interested in offering volunteer or intern opportunities should call (713) 743-8137.

Annual Social Work Awards Breakfast

Practitioners and scholars in the field of social work gather every March, National Social Work Month, for the Social Work Awards Breakfast. The breakfast provides a platform for both the discussion of topics of interest to social workers and public recognition of professional contributions by individuals and organizations in the local human services community. For information, call (713) 743-3599.

Center for Consumer Law

The Center for Consumer Law educates attorneys, professors, and lay people about consumer law; seeks legal, practical, and legislative solutions to common consumer problems; and encourages the development of consumer rights. It offers the community easy-to-understand explanations of consumer law issues through “The People’s Law School,” television programs, newspaper columns, and a video program designed to educate high school students. Its bi-annual conference attracts professors from throughout the world. For information call (713) 743-2168 or visit www.peopleslawyer.net.

Center for Public History

Housed in the Department of History, this program serves the public through the Tenneco Lecture Series, the Houston History Project, the History of Houston Archives, the publication “Houston Review of History and Culture,” a variety of internships which place master’s degree candidates in organizations and companies, and team research projects for members of the community. For information, call (713) 743-3090 or visit www.class.uh.edu/hist/Academics/public_history_general.htm.

Child Welfare Education Project (CWEP)

The Child Welfare Education Project prepares master’s level social work students for the challenging and rewarding work found in children’s protective services. The program provides

financial aid, internships, seminars, career advising, and job placement. For information, call (713) 743-1394.

Children's Christmas Party

The Conrad N. Hilton College of Hotel and Restaurant Management hosts an annual Christmas party for children in local orphanages. UH student organizations provide food and beverages and the university community contributes toys. Organizations that would like to participate should submit information about eligible children (under age 10) by mid-November. For information, call (713) 743-2423.

Civil Clinic

Under the supervision of licensed attorneys, students in the Civil Clinic at the UH Law Center work directly with clients and handle all aspects of case management, interviews, preparation of motions and petitions, and trials. The civil clinic handles legal cases involving family law, guardianships, probate, and Chapter 7 consumer bankruptcy. For information, contact (713) 743-2094.

Clinical Legal Education Program (CLEP)

Attorneys, judges, legal referral services, and social service agencies can refer cases to the Clinical Legal Education Program. Under the supervision of licensed attorneys, students work directly with clients, handling all aspects of case management, including performing client interviews, preparing motions, and participating in court hearings and trials. For information, call (713) 743-2065 or visit www.law.uh.edu/blakely/.

Clinical Psychology and Neuropsychology Practicum

Doctoral students in the clinical psychology and clinical neuropsychology programs work in a variety of community practicum settings under the supervision of a licensed psychologist. Current practicum placements include the University of Texas - Harris County Psychiatric Center and Health Science Center, Veterans Administration Medical Center, Baylor College of Medicine, M.D. Anderson Cancer Center, Texas Institute for Research and Rehabilitation, Texas Children's Hospital, Children's Assessment Center, Methodist Hospital, and DePelchin Children's Center. For more information about practicum placements, call (713) 743-8600.

Community Projects

Students in the C.T. Bauer College of Business undertake marketing projects for community or nonprofit organizations. These projects equip students with specific analytical concepts and skills and instill a broad perspective of society and sense of values that foster pride and responsible participation in civic affairs. For information, call (713) 743-4560.

Community Vision Screening and Early Detection Program

This service, offered by the University Eye Institute, provides free vision screening for various community organizations, schools, health fairs, senior citizens groups, churches, and more. For information, call (713) 743-1990.

Community Wellness Program

Through program, faculty and students of the College of Pharmacy offer screenings for various conditions, personalized drug interaction profiles, immunizations, hemoglobin A1c monitoring, and diabetes education in schools, community centers, churches, nursing homes, malls, and clinics. For information, call (713) 743-1298 or visit <http://rx.pharmacy.uh.edu>.

Community-Based Research, Needs Assessments and Program Evaluations

Social service agencies have the opportunity to collaborate on needs assessments and program evaluations with faculty of the UH Graduate College of Social Work through the Office of Community Projects. Information gathered in needs assessments supports agency strategic planning decisions. Program evaluation often begins as assistance in preparing grant proposals and continues through program implementation. Call (713) 743-8142 for more information.

Cooperative Education

Cooperative Education (Co-op) enables students in any major to receive career training with pay as they work with professionals in their fields of study. Work experience in government, business, industry, and human services enhances a student's academic training. This valuable experience is documented on a student's official transcript. For information, call (713) 743-4232 or visit www.egr.uh.edu/coop.

Creative Writing Program Community Partnership

In collaboration with Writers in the Schools, graduate students in the Creative Writing Program teach creative writing to Houston Independent School District students in elementary through high school at the M.D. Anderson Cancer Center and the Menil Museum. An arrangement with Inprint, Inc. allows UH students to work weekly with underprivileged children at Project Row Houses and with senior citizens at the Jewish Community Center to develop creative writing skills and an appreciation of literature. For information, call (713) 743-3013.

Criminal Defense Clinic

Students in the Criminal Defense Clinic represent defendants under the supervision of practicing defense attorneys. Misdemeanor and felony cases are handled from start to finish, including investigations, plea bargains, and sentencing. For information, call (713) 743-2134 or visit www.law.uh.edu/cji/.

Criminal Justice Institute (CJI)

The Criminal Justice Institute brings together nationally-recognized scholars, top criminal law practitioners, judges, and students through a variety of programs designed to enhance the study and practice of criminal law. The institute includes such established programs as the Texas Innocence Network, the Criminal Prosecution and Criminal Defense Clinics, the Southwest Juvenile Defender Center, and the Criminal Trial Advocacy training program. The institute also offers opportunities for educational and practice programs, a dual degree in law and criminology, and conferences and symposia. For information, call (713) 743-2134 or visit www.law.uh.edu/cji/.

Economic Development Program (EDP)

The Economic Development Program at the C. T. Bauer College of Business is a coordinated effort between State Farm Insurance, the Bauer College of Business, and the Local Initiatives Support Corporation to promote community development in Houston. As part of State Farm's efforts to comply with the Community Reinvestment Act (CRA), State Farm Insurance has gifted \$75,500 to the Bauer College to administer the EDP. The EDP provides MBA and undergraduate business students real world experience in community development and inspires them to future leadership in these development organizations, while also building capacities of existing Community Development Corporations (CDCs).

Emotions in Marriage Laboratory

The Marriage Laboratory conducts research on couples' communication and psychophysiology, focusing on couples experiencing conflict and/or violence in their relationships. The goal of this research is to help develop better ways to intervene with distressed and violent couples. For information, call (713) 743-8621.

Evaluation and Research to Strengthen School and Community Health Infrastructures

Through the Health Network for Evaluation and Training Systems (HNETS), College of Education Department of Health and Human Performance faculty assist schools, communities, and healthcare organizations meet their health goals. HNETS personnel develop, implement, maintain, and assess health programs and policies. Current projects include establishment and maintenance of monitoring and tracking systems for the Texas Tobacco Prevention and Control Initiative sponsored by Texas Department of Health and an examination of the use of web-based systems to provide training, technical assistance, and real-time feedback to school and community project locations and individual physician offices. For information, call (713) 743-9843 or visit www.uh.edu/hnets.

Funding Source, The (TFS)

The Funding Source assists organizations with locating funding to support ongoing operations or program expansion and aids in the development of grant writing skills. TFS' primary service is the Funding Fax, a bi-weekly faxed newsletter of funding opportunities from public and private sources. Also included in the Funding Fax are schedules of classes and workshops designed to assist organizations in developing grant writing and nonprofit management skills, information to help match organizations with appropriate coalitions and collaborations in the local communities, and profiles of corporate and private foundations. For information, call (713) 743-8143.

Graduate Internships - Sports Administration

Under the supervision of the College of Education faculty, graduate students in sports management serve internships with professional sports teams and facilities, and exercise science students work with area businesses and recreation agencies. For more information or to request an intern, call (713) 743-9848.

Hands-On Learning/Studio Work

The Gerald D. Hines College of Architecture has a long history of "hands-on learning" through community service. Recent community-based projects include a historic survey of Richmond Avenue architecture as well as proposals for a new library and YMCA for the Upper Kirby

District; landscape designs for Levy Park; extreme sports facilities for sites within Beltway 8; an urban village, with mixed-uses, around future Houston light rail stations; Music World Headquarters for client Destiny's Child; and a prototype sustainable school building for the Houston Independent School District.

Honors College Community Service Scholarships

The Honors College seeks to incorporate community service into students' undergraduate experience. Organizations seeking student volunteers or assistance in coordinating community service projects should call (713) 743-9020.

Immigration Clinic

The Immigration Clinic at the UH Law Center has formed relationships with a network of legal aid and social services agencies in the Houston area to provide fair and humane treatment for immigrants and refugees. For information, call (713) 743-2094 or visit www.law.uh.edu/clinic.

Internships - Human Development and Family Studies

The Department of Human Development and Family Studies in the College of Education offers services to families, children, and the aged through partnerships with community agencies. Students participate in a variety of internships in many community areas. For more information call (713) 743-5019.

Internships - Sociology

The Department of Sociology offers services to families, the aged, and the homeless through partnerships with 52 community agencies. Students participate in a variety of internships in areas such as education, drug/alcohol abuse, employee assistance/job training, health, housing/community development programs, and institutions and government programs. For information, call (713) 743-3945.

Juvenile Defense Clinic

The Juvenile Defense Clinic provides legal services to indigent juveniles from beginning to end. UH law students participate in detention hearings, jury or bench trials, appeals, and misdemeanor and felony cases. For information, call (713) 743-2094.

Law Center Externship Placement Program

In the externship placement program, students earn academic credit by working with public interest organizations or government agencies. Field placements include the Internal Revenue Service, American Civil Liberties Union, Aid to Victims of Domestic Abuse, the Texas Attorney Generals' Office, and the Southwest Juvenile Defender Center. For information call (713) 743-1176.

Mediation Clinic

The Mediation Clinic at the UH Law Center provides trained mediators to the civil justice courts in Harris County and provides mediation services to individuals who may otherwise be unable to afford the mediation process. Students mediate consumer issues, landlord/tenant disputes, breach of contract, and domestic relations cases. For information, call (713) 743-2094.

Metropolitan Volunteer Program

This program seeks to match community agencies and organizations with UH student, faculty, and staff volunteers for ongoing programs and special events. For information, call (713) 743-5200 or visit www.uh.edu/SVP.

Office of Community Projects

The Office of Community Projects (OCP) at UH Graduate College of Social Work is the administrative unit that houses and manages a majority of the research and community service projects that link expertise within the college to the broader human services community. For more information, call (713) 743-8145 or visit www.uh.edu/ocp.

People's Law School

This free biannual (April and October) event from the Center for Consumer Law helps make the law “user-friendly” to the layperson. The People's Law School offers classes in subjects such as consumer law, wills, family law, bankruptcy, business law, landlord/tenant law, credit and debt collection, social security law, and health insurance law, and teaches how to work with attorneys and file claims in small claims court. In addition, answers to frequently asked questions are posted at www.peopleslawyer.net. For information, visit the website or call (713) 743-2168.

Power Tools for Nonprofit Organizations (formerly Non Profit Day)

For eleven years, Centerpoint Energy and the UH have partnered to produce an annual conference for local nonprofit professionals and volunteers. This forum allows experts and participants to share practical strategies for managing the political, social, economic, and technological changes they face. For information, call (713) 743-1181 or visit www.uh.edu/academics/dce/prog/np.html.

Professional Student Organizations' Outreach

The College of Pharmacy has 13 professional student organizations which provide community service as part of their mission. Examples include outreach to ethnic communities, screening for various diseases, poison prevention programs for children, and helping to inform new mothers about childhood immunizations.

Program and Project Evaluations

When schools and community organizations implement programs using grant money, they are often required to have an outsider evaluate the project – a so called third-party evaluation. The UH College of Education's Institute for Urban Education provides this service. An example of current programs under evaluation by IUE faculty is Bright Beginnings, a \$3 million project supported by the United Way with funding from ExxonMobil to provide professional development to staff in child care centers. Another is an evaluation of recruitment and retention activities funded by Houston Endowment Inc. at four community colleges. To have your program evaluated, call (713) 743-5049.

Protective Services Training Institute

Protective Services Training Institute creates and delivers quality, state-of-the-art training to protective services staff; develops and administers a staff certification program that recognizes the special expertise of child protective services, adult protective services, child care licensing

and statewide intake practice; and researches, develops and assesses new training concepts and technologies. For information, call (713) 743-8145.

Psychology Research and Services Center (PRSC)

The Psychological Research and Services Center is an outpatient mental health training facility offering proven psychological treatments for a variety of behavioral, psychological, and adjustment problems. Individual, family, and group treatment formats are available. In addition to psychotherapy, intellectual, developmental, and personality assessment and evaluation are offered for both children and adults. Advanced doctoral students under the supervision of licensed clinical psychology faculty conduct treatment and assessment services. Fees may be adjusted on a sliding scale according to ability to pay. The PRSC also provides information about mental health to the community through continuing education professional training programs, workshops, and lectures to agencies and organizations. For information, call (713) 743-8600.

Public Interest Fellowship Program

Students apply for a competitive fellowship award to spend the summer with a public interest or governmental agency. Previous fellowship recipients have provided services to a wide range of organizations and programs, such as legal aid, U.S. Attorney's Office, HIV projects, migrant farm workers projects.

School of Theatre Costume Department

The School of Theatre's Costume Department provides costume rental service to not-for-profit theaters, school districts, UIL competitions, private schools, churches, fraternal organizations, and other university programs on a fee schedule that is standardized for all participants. The department also provides advice in makeup and costume design, craftsmanship and technology on an individual basis to Houston Independent School District, private, professional, community and statewide theatrical productions. In addition, the school's Design Program will make recommendations for novice costume and makeup designers in producing organizations. Student designers are available for a fee to the venue as contracted. For information, call (713) 743-2918.

Shakespeare Outreach

A touring company of young actors brings Shakespeare to public venues free of charge. Programs are approximately 35 minutes in length. For information, call (713) 743-2930.

Social Work Continuing Education

The Graduate College of Social Work's Continuing Education program offers specific courses in the areas of gerontology, grant writing, and nonprofit management. It also offers the Social Work Supervision Certification for LMSWs and ACPs that is required by the Texas State Board of Social Work Examiners. Courses are designed for social workers, counselors, psychologists, psychiatrists, nurses, and other human services professionals in the community. All courses are approved for continuing education units and are acceptable for licensed professional counselors. For information call (713) 743-8143.

Speakers Bureau - UH

The Office of Advancement arranges UH faculty or staff speakers for Houston area organizations. Topics and speakers match the interests of the group and range from e-business to social security and from consumer law to virtual reality. For more information, visit www.advancement.uh.edu/marketing, call (713) 743-0772, or email llee4@uh.edu.

Student Organizations Community Service

Student organizations in the C.T. Bauer College of Business, such as Beta Alpha Psi and the Accounting Society, perform various service activities throughout the year. In some cases, students donate their time to non-profit institutions (churches, etc.) by providing help with the organization's accounting. They also visit high schools to discuss career opportunities with graduating seniors.

Technology Presentations

College of Technology faculty members provide presentations for high school, middle school, community college and community organizations about different facets of technology, pre-college preparation, transferability of programs, degree requirements and job opportunities. For information, call (713) 743-4886.

Texas Innocence Network (TIN)

The Texas Innocence Network (TIN) at the University of Houston Law Center is a program that focuses exclusively on investigating claims of actual innocence raised by inmates in Texas or elsewhere. TIN accepts cases involving DNA evidence as well as cases that do not. For information, call (713) 743-7552 or visit www.law.uh.edu/cji/.

Touring Authors of Houston

Arte Público Press is the oldest and largest publisher of U.S. Hispanic books and anthologies of fiction, non-fiction, and history for children and adults. Arte Público Press authors conduct creative writing workshops and readings at schools and community centers throughout the United States. For more information about organizing an author visit for your organization or school, please call (713) 743-2999.

Transactional Clinic

Through the Transactional Clinic, students assist small businesses and nonprofit corporations with legal matters encountered on a daily basis, including negotiating lease agreements, selecting proper organizational formats, and developing employment policies. For information, call (713) 743-2094.

UH OnCALL

Friendly customer service specialists are "on call" at (713) 743-CALL (2255) weekdays 8 a.m. to 6 p.m. to answer questions about services, programs and events at UH. The call center also maintains the university's online events calendar (accessible from the home page at www.uh.edu) and the EVENTLine at (713) 743-9999.

Speech, Language and Hearing Clinic

The clinic provides evaluation and treatment for speech production (articulation), language, stuttering, augmentative/alternative communication, aphasia, motor speech disorders, and accent modifications, as well as speech/language difficulties associated with hearing impairment or other medical problems. Fees are determined using a sliding scale. Hearing evaluations are available with referrals made for medical evaluation and/or hearing aid evaluation. Hearing aids are available for purchase. There is a Hearing Aid Assistance Program to provide low-cost hearing aids to qualified clients. For information call (713) 743-2899.

Underwood Lecture

Hosted by the UH Graduate College of Social Work's American Humanics Nonprofit Certificate Program, the annual Underwood Lecture focuses on youth, community, philanthropy, and other social issues. This lecture is free and open to the public. For information, call (713) 743-8145.

Victim's Resource Institute (VRI)

Victims' Resource Institute helps child victims and their families deal with society's increasingly violent environment. The program provides intensive treatment for children and their families who have been victimized by criminal violence. Treatment services are free to individuals meeting criteria. VRI also conducts research on the psychological impact of crime and on effective treatment procedures for crime victims. For more information, call (713) 743-8600.

Video Production

The School of Communication produces videos for nonprofit organizations. Fees vary according to the type of video produced. Recent productions include instructional videotape about the dangers and treatment of HIV, a public information project regarding sewer connections, and an Asian culture archival project. For information, call (713) 743-2859.

Service Learning Classes and Programs

(Classes that have a service learning component are listed by course number. The data on number of students or hours is from 2003/2004.)

American Humanics Program

The American Humanics Nonprofit Certificate Program at the UH Graduate College of Social Work prepares undergraduate and post-baccalaureate students in any field of study for careers in nonprofit management. Required courses include human development, nonprofit management, public relations/marketing, fiscal management and fund development. An experiential learning component requires a supervised internship. Organizations interested in offering volunteer or intern opportunities should call (713) 743-8137.

ARCH 3500: Architecture Design Studio V

Students produced designs for a city archive facility for Houston. 108 students/10 hours each per week in class plus additional hours outside class

ARCH 4500/4501: Architecture Design Studio VII & VIII

Students produced designs for developing site developments related to evolving rail service in Houston. 14 students/10 hours each per week in class plus additional hours outside class

ARCH 5500/5501: Architecture Design Studio IX & X

Students produced designs for several projects in Houston. 32 students/10 hours each per week in class plus additional hours outside class

ARCH 7600: Architecture Design Studio V

Students designed proposals for a research laboratory facility in Houston. 24 students/10 hours each per week in class plus additional hours outside class

Center for Public Policy's Local Government Internship Program

The Center for Public Policy's Local Government Internship Program offers students the opportunity to experience the political office environment in the Houston area. The interns work an average of eight hours per week over the semester in a Houston office at either a municipal, county, state, or federal level. For information, call (713) 743-3972 or visit www.uh.edu/cpp/GOVInternships.htm.

Civil Clinic

Under the supervision of licensed attorneys, students in the Civil Clinic at the UH Law Center work directly with clients and handle all aspects of case management, interviews, preparation of motions and petitions, and trials. The civil clinic handled legal cases involving family law, guardianships, probate, and Chapter 7 consumer bankruptcy. For more information, call (713) 743-2094.

Clinical Psychology and Neuropsychology Practicum

Doctoral students in the clinical psychology and clinical neuropsychology programs work in a variety of community practicum settings under the supervision of a licensed psychologist. Current practicum placements include the University of Texas - Harris County Psychiatric Center and Health Science Center, Veterans Administration Medical Center, Baylor College of Medicine, M.D. Anderson Cancer Center, Texas Institute for Research and Rehabilitation, Texas Children's Hospital, Children's Assessment Center, Methodist Hospital, and DePelchin Children's Center. For more information about practicum placements, call (713) 743-8600.

COMMD 7391, 7392, 7393: Practicum in Speech-Language Diagnosis and Therapy, Externship in Speech-Language Diagnosis and Therapy, Advanced Practicum in Audiology (Fall 2003)

Practical work with patients with speech and language disorders. 20 students/200 hours each

Criminal Defense Clinic

Students in the Criminal Defense Clinic represent defendants under the supervision of practicing defense attorneys. Misdemeanor and felony cases are handled from start to finish, including investigations, plea bargains and sentencing. For more information, call (713) 743-2134 or visit www.law.uh.edu/cji/.

Criminal Prosecution Clinic

In the Prosecution Clinic, students work with district attorneys in Harris, Fort Bend, Galveston, and other surrounding counties. While students do not have actual clients in the Criminal Prosecution Clinic (as they represent the state) they do have the opportunity to sharpen their lawyering skills and handle various aspects of simple trials. For more information, call (713) 743-2094 or visit www.law.uh.edu/cji/.

CUST 2300, 3310, 4300: Intro to Asian American Studies, Asian American Communities in Popular Culture, Asian American Cultures

These three courses within the minor in Asian American Studies focus directly on observation and participation in the Asian community. Students visit and observe such community groups as the Chinese Community Center, Huaxia Chinese School, Jade Buddhist Temple and Chinatown. Students conduct

interviews with parents and grandparents of Asian descent. These seminar courses require a project as well as a reflective paper. 60 students/15 hours each

Dietetic Internship

The dietetic internship within the College of Education places interns in healthcare facilities and provides management and community experiences under the supervision of registered dietitians. Current placements include M.D. Anderson Cancer Center, Shriners' Children's Hospital, and Texas Children's Hospital. For more information on dietetic internships, call (713) 743-4112.

Dietetic Internship – Post Graduate

The internship is a post-graduate requirement of accreditation for students to complete the examination to become a registered dietitian. The accreditation standards mandate 54 competencies. Of these, roughly one third deal directly with community and service organizations to provide nutritional services to various populations. Students must be proactive in developing creative ways to meet their competencies within a variety of community settings. They are required to set goals at the outset of the rotations and will have evaluations completed on their work at the end of the four week session. In addition, the interns are required to do a broad assessment of each site, the population that it serves, and the effectiveness of the service to that population. Where service is inadequate, the intern must suggest remedial action for improvement. Each intern must complete two four-week rotations in this area for a total of about 350 hours.

DISC 4358

Working in teams of 6, 30 students completed 11,190 hours on projects for Frito-Lay, Continental Airlines, EDS, GE Power Systems, and Spring Communications.

DISC 4370: Systems Analysis and Design

A total of 71 students, in groups of 4 or 5, spent 160 hours each on the 17 projects for non-profit organizations.

DISC 4379: Business Systems Consulting

A total of 33 students spent 1,657 hours on 25 projects for businesses.

ECE/INDE/MECE 4334: Engineering Systems Design (Fall 2003)

Projects in the Texas Medical Center, with local small businesses and NASA.
42 students/12 hours each

ECON 4398

Practical work with firms and local governmental agencies.

Economic Development Program (EDP)

The Economic Development Program at the C. T. Bauer College of Business is a coordinated effort between State Farm Insurance, the Bauer College of Business, and the Local Initiatives Support Corporation to promote community development in Houston. As part of State Farm's efforts to comply with the Community Reinvestment Act (CRA), State Farm Insurance has gifted \$75,500 to the Bauer College to administer the EDP. The EDP provides MBA and undergraduate business students real world experience in community development and inspires them to future leadership in these development organizations, while also building capacities of existing Community Development Corporations (CDCs).

EDUC 3205, 3206: Learning to Teach

Student teach as part of PUMA (Pedagogy for Urban and Multicultural Action), the state funded teacher education program. Agencies: PUMA schools in local districts. 21 students/192 hours each

ELCS 7392: Internship in Educational Leadership

Students attended school board meetings and site-based management meetings with community representatives. The students reflect on these activities in an Activity Log and in seminar sessions with school and university supervisors. Student must also fulfill a service component within the internship (e.g., visit a senior citizen's home, Habitat for Humanity). 21 students/minimum of 125 hours each in school setting

ELCS 8361: Public & Community Relations

Students develop action plans for community college, university and K-12 building/central office administrators built around seminar goals of communication, social systems, partnerships, philanthropy, and governance. Article summaries and reflections related to these goals are also required. 15 students/15 hours each

ENG 2307: Introduction to Drama

50 students/12 hours each

ENG 4390: Professional Internship

Supervised work experience in professions related to the English major. 16 students/70 hours each

ENG 4398: Language and Culture Center Tutoring Project

Supervised work experience in professions related to the English major. 10-15 students/30 hours each

EPSY 6370: Intro to Multi-Cultural Counseling

Social Action Project (option for final project): involves student volunteering at community agencies with multicultural populations; student chooses an agency from 4 options; student works 3-4 hrs/week for a minimum of 6 weeks. Agencies: Lighthouse of Houston, SIRE Equestrian Assistant for Disabled Children, AIM Adoption Agency, Houston Area Women's Center. 4 students/minimum of 62 hours each in school setting

EPSY 7393: Practicum - Masters in Counseling

Students are placed in an agency (school, hospital, clinic, shelter) for two semesters to provide counseling services under the supervision of a licensed mental health professional. Students spend about 12 to 15 hours a week in the agency; at least 50 of these hours each semester must be spent providing direct services to clients. 19 students/4179 hours each

EPSY 7393: Practicum - Masters in Counseling Psychology

Students are involved in unpaid practicum experiences off-campus.

Sites: Houston VAMC, Texas Children's Hospital, Rice University - Student Counseling, UH-Clear Lake - Student Counseling, Perez & Associates - Neuropsychological Assessment, Community Clinic - Counseling, Alief ISD, MD Anderson - Psychological Assessment Counseling, Rice University - Student Counseling, HISD - Psychological Assessment . 12 students/256 hours each

FINA 4337: Commercial Banking

Guest lecturing by and interaction with senior managers from the Houston banking community, including Eduardo Aguirre, Bank of America, Downey Bridgwater, Sterling Bank; John Fields, Encore Bank. Forty-four students spent three hours each.

FINA 4397: Insurance Operations

Interaction with senior insurance industry managers to learn about insurance regulations and operations. Sixty students spent three hours each.

FINA 4397: Security Financial Analysis

Twenty undergraduate students manage virtual financial portfolios with extensive mentoring and contacts with investment professionals from the Houston business community. They spend 20 hours each on the project.

FINA 7322: Security Analysis

Sixteen graduate students manage a real-money investment fund with extensive mentoring and contacts with investment professionals from the Houston business community. They spend about 30 hours each on the project.

Glaucoma Screening

College of Optometry students and faculty provided glaucoma screening under the auspices of the National Black Caucus.

Graduate Internships - Educational Psychology

Educational Psychology students in master's and doctoral programs serve internships in health agencies, schools, and hospitals. To request an intern or information, call (713) 743-9827.

Graduate Internships - Sports Administration

Under the supervision of the College of Education faculty, graduate students in sports management serve internships with professional sports teams and facilities, and exercise science students work with area businesses and recreation agencies. For more information or to request an intern, call (713) 743-9848.

Hands-On Learning/Studio Work

The Gerald D. Hines College of Architecture has a long history of "hands-on learning" through community service. Recent community-based projects include a historic survey of Richmond Avenue architecture as well as proposals for a new library and YMCA for the Upper Kirby District; landscape designs for Levy Park; extreme sports facilities for sites within Beltway 8; an urban village, with mixed-uses, around future Houston light rail stations; Music World Headquarters for client Destiny's Child; and a prototype sustainable school building for the Houston Independent School District.

HOMES Clinic

Houston Outreach Medical Education and Social Services (HOMES) Clinic is part of the larger Healthcare for the Homeless project, which promotes health, hope, and dignity for Houston's homeless through accessible and comprehensive care. This student-run, free clinic is the joint collaboration of the UH College of Pharmacy, Baylor College of Medicine and the University of Texas - Houston Health Science Center. For information, call (713) 743-1298 or visit www.homeless-healthcare.org.

Industrial/Organizational Practicum

All industrial/organizational (IO) psychology graduate students are required to work one year in an industrial setting under the supervision of an IO psychologist. Recent host organizations include AON Consulting, Assessment & Development Inc., Compaq Computer, Dell Computer, Jeanneret & Associates, M.D. Anderson Hospital, Personnel Decisions International, and Vandaveer Group. For information about hosting an IO graduate student, call (713) 743-8520.

Internships - Consumer Sciences and Merchandising

Consumer Science and Merchandising students in the College of Technology participate in internships with local businesses and retailers to gain real world experience in the merchandising industry. For information, call (713) 743-4030.

Internships - Human Development and Family Studies

The Department of Human Development and Family Studies in the College of Education offers services to families, children, and the aged through partnerships with community agencies. Students participate in a variety of internships in many community areas. For more information call (713) 743-5019.

Internships - Sociology

The Department of Sociology offers services to families, the aged, and the homeless through partnerships with 52 community agencies. Students participate in a variety of internships in areas such as education, drug/alcohol abuse, employee assistance/job training, health, housing/community development programs, and institutions and government programs. For information, call (713) 743-3945.

ITEC 3345

Individual face-to-face interviews with human relations managers-to ascertain responsibilities of HR managers and the importance of human relations skills and interviews with selected identified industry people-to ascertain elements of high performance work systems. Approximately 40 students/5-8 hours each.

KIN 4390, 4391: Internship

The Quality of Life and Fitness (Q-FIT) Program of the Health and Human Performance Department is designed so that UH faculty, staff, and students become engaged in improving their overall fitness and wellbeing. Physical fitness assessments are offered at a minimal cost and include body composition, factors to assess risk for cardiovascular disease, flexibility, anaerobic and aerobic capacity, and indices to identify fitness and health behavior. Q-FIT interns learn how to expertly perform these assessments and learn techniques in client consultation and dissemination of information. 3 students/150 hours each

KIN 4390, 4391: Internship

Students intern in public schools, hospitals/clinics, corporations, non-profit organizations, community agencies, universities, and research settings. 40 students/150 hours each

KIN 4390: Special Problems

Koala Wellness Centers - student participated in a variety of biomechanical assessments, learned modality applications and the implementation of a variety of manual massage techniques. Also participated in preparation of participants for the Houston Marathon. She also assisted in the conducting of research on the joint range of motion and strength components of collegiate and professional baseball athletes. She submitted a paper of the entire case study for her assessment component. 1 student/225 hours

Law Center Externship Placement Program

In the externship placement program, students earn academic credit by working with public interest organizations or government agencies. Field placements include the Internal Revenue Service, American Civil Liberties Union, Aid to Victims of Domestic Abuse, the Texas Attorney Generals' Office, and the Southwest Juvenile Defender Center. For information call (713)743-1176.

Law Center Health Law Externships

In conjunction with the Health Law and Policy Institute, the external placement program offers credit for supervised fieldwork with nonprofit health institutions and government organizations focused in health law and policy. For information, call (713) 743-1176.

Law Center Judicial Internships

In a judicial internship, students can observe the legal process from the bench's perspective. Interns meet and interact with court personnel while honing research and writing skills. Houston offers a broad range

of opportunities for judicial interns, including assignments in the U.S. Fifth Circuit Court of Appeals; U.S. District Court for the Southern District of Texas; the First and Fourteenth Texas State Courts of Appeals; Texas state district courts (civil and criminal); federal magistrates; and specialty courts in family, bankruptcy, immigration, and probate. For information, call (713) 743-1176.

Legal Clinical Studies: Civil Clinic, Immigration Clinic, Juvenile Defense, Criminal Defense, Criminal Prosecution, Consumer Law, Mediation Clinic, Transactional Clinic

In all of the clinics students are representing clients who would not be able to receive legal assistance if it was not for the student attorneys. 17 students/180-250 hours each

MANA 4354: Issues in EEO

Each semester, approximately 15 students provide the regional offices of the EEOC with 10 hours per week of unpaid service for a wide variety of activities related to the Commission's mission. Students must follow-up each week with the instructor vis-à-vis the social, legal, and academic implications of their activities.

MARK 4397: Selected Topics in Marketing

Ten students spent 80 hours each doing marketing consulting for United Way agencies.

MARK 4397: Selected Topics in Marketing

Six students spent 80 hours each doing business plan consulting for UH Gulf Coast Small Business Development Center clients.

MARK/GENB 4397: Selected Topics in Marketing/General Business Admin

Five students spent 150 hours each doing marketing consulting for businesses.

Master of Public Administration Internships

Agencies and organizations in both the private and public sector can request Master of Public Administration students for internships or full-time positions that offer responsible experience in public service. For more information, call (713) 743-3931.

MECT 4384: Manufacturing Systems Control (Fall 2003)

Students worked in close contact with HP engineers and managers to examine existing and new techniques that identify, evaluate, and quantify mechanical stresses that result in failures in Notebook PCs and their sub-assemblies. The end-of-semester report summarizes the students' findings and provides recommendations to HP for further research, development, and testing. Fifteen students spend an average of five hours each.

NUTR 4334: Community Nutrition

Students were assigned a project to develop a nutritionally related intervention within a community population. Students had to conduct the needs assessment, research the current programs serving that need, and develop the intervention. Final component was to evaluate the strengths and weaknesses of the proposal. 55 students/hours varied

OCTE 2338: Technology in the Community

Determined IT requirements and developed a project plan to satisfy needs of non-profit organization. Ten different non-profits participated. 60 students/20 hours each

OCTE 4371

Emphasis on leadership (skills, attributes, models, motivation, etc) and strategic planning focused on leading change in the workplace; included exchanges of resources (with recommended book/resource reading, issues from video presentations, etc.). Approximately 35 students/6-10 hours each.

Office of Community Projects

The Office of Community Projects (OCP) at UH Graduate College of Social Work is the administrative unit that houses and manages a majority of the research and community service projects that link expertise within the college to the broader human services community. For more information, call (713) 743-8145 or visit www.uh.edu/ocp.

OPTO 6173: Clinic Practicum III

Second-year students participated in vision screenings. Children and adults were screened for vision and ocular disease at a variety of sites including elementary schools, community centers, and Harris County Juvenile Probation facilities. In Fall 2003, 1421 individuals were screened, with about 40% being referred for some type of ocular problem. Discussions are held with the attending faculty about the implications, to the patient, of the ocular problems seen. 98 students/20 hours each

OPTO 7494: General Clinic IIIB

Third-year students examine patients at the University Eye Institute, at other facility throughout the city, and through partnerships with organizations like HISD, Salvation Army, Pearl Vision Foundation, and American Optometric Association. Many of the patients are indigent or low income. Each student provided patient care to about 120 individuals. 83 students/16 hours per week each

OPTO 8696: General Clinic IV

Fourth-year students examined patients from the community at the University Eye Institute facility. Each student provided care to about 150 people. Additionally, the college operated a clinic at the Rusk Elementary School serving this primarily indigent population of children through the provision of vision screenings and comprehensive eye and vision care at no cost to the patient. Spectacles were obtained through programs the college has with Lions Clubs, Prevent Blindness, Texas Commission for the Blind, and other agencies. 32 students/30 hours per week each

OPTO 8990, 8992, 8993: Community Health Clinics

Each fourth-year student enrolled in two of these courses. Students provided patient care in community health centers, e.g. Good Neighbor Healthcare Center and San Jose Clinic in Houston, private practices, military, Indian Health Service, or Veteran's Administration hospitals, and other facilities. Each student examined 500-600 patients during the semester. 64 students/36 hours per week each

Personal Financial Planning

C.T. Bauer College of Business undergraduates first learned the principles of personal financial planning. They then taught these principles to students at Austin High School. The college plans to introduce this course permanently into its course offerings.

PHAR 4350, 4351, 5352, 5353, 5354, 5355: Pharmacy Skills I, II, III, IV, V & VI

Community Wellness Program - Services provided include osteoporosis, cholesterol, blood pressure screenings; diabetic foot examinations; medication review and counseling; student-given seminars on various health topics; hemoglobin A1c monitoring; immunizations; MEDS for Kids Program for elementary school age children; tobacco cessation program. Students provide services in over forty events and contribute 1000-1500 hours of service to the community during each semester.

PHAR 5492: Hospital Pharmacy

Second-year students complete either a Community or Hospital Pharmacy early experiential 4-hour course in the summer after their second year. Approximately 50 students/170 hours minimum each

PHAR 5493: Community Pharmacy

All experiential courses are in community pharmacies, hospitals, or other patient-care sites in the community. Second-year students complete either a Community or Hospital Pharmacy early experiential 4-hour course in the summer after their second year. Approximately 50 students/170 hours minimum each

PHAR 5660-5696: Experiential Courses, Various

All fourth-year students complete 6 six-hour experiential courses in their last year of the program. Each of these courses is completed in a community pharmacy, hospital, or other patient-care site in the community. Approximately 90 students/1500 hours minimum each

POLS 4198, 4298, 4398, 4498, 4598: Special Problems

Mickey Leland Congressional Internship Program: 5 students/750 hours each

POLS 4198, 4298, 4398, 4498, 4598: Special Problems

Mickey Leland Congressional internship Program: 5 students/750 hours each

Texas Legislative Intern Program (Ellis): 6 students/600 hours each

Texas Legislature - T. DeLay program: 3 students/150-750 hours each

POLS 4390, 4398: Governmental Internships

Local government internship program. 25 students/150 hours each

POLS 6379: Problem Analysis Project

Work with various local governments. 6 students

Practicum in Technology Leadership and Supervision

The Information and Logistics Technology Department in the College of Technology requires its graduating students to complete a senior project. The project is directed toward the resolution of real and substantial problems presented by business, industry, or community sponsors. For information call (713) 743-4090.

Professional Student Organizations' Outreach

The College of Pharmacy has 13 professional student organizations which provide community service as part of their mission. Examples include outreach to ethnic communities, screening for various diseases, poison prevention programs for children, and helping to inform new mothers about childhood immunizations.

PSYC 3351: Health Psychology Research

Assessment of the connection between social psychological theory and research based applications in health-related settings; combines traditional lectures and readings with participation in actual field intervention projects. 25 students/5 hours each

PSYC 4306: Community Service Practica

Direct experience in the application of psychological theory to a community service program. 20 students/12 hours each

PSYC 4322, 4397: Behavior Modification, Selected Topics in Psychology

Work in Autism Clinic. 60 students/35 hours each

PSYC 4398: Special Problems

30 students/12 hours each

Public Interest Fellowship Program

Students apply for a competitive fellowship award to spend the summer with a public interest or governmental agency. Previous fellowship recipients have provided services to a wide range of organizations and programs, such as legal aid, U.S. Attorney's Office, HIV projects, migrant farm workers projects.

RELS 1301: Introduction to Religious Studies

Community service. 12 students/15 hours each

RELS 3330: Christianity

Community service. 17 students/15 hours each

RELS 3396: Selected Topics in Religious Studies

Community service. 81 students/15 hours each

SNA/Houston Public Library After School Program

Student Nutrition Association has partnered with the Houston Public Library to develop nutrition education programs for after school programs currently held at a local library. Students have opportunities to develop and deliver the educational sessions and get immediate feedback both from the children and the library preceptor.

SOC 3397: Selected Topics in Sociology

Internship/30 students/120 hours each

SOC 4394: Internship in Sociology

Supervised field experience through placement. 35 students/11 hours each

SOCW 6322: Confronting Oppression

Students researched social problems and talked to community experts regarding social problems and approaches to addressing these problems. Reflection occurs when students dialogue with experts, among themselves, with class peers, then offer their perspectives on ways to confront oppression in society. 18 students/2-3 hours each

SOCW 6351: Social Welfare Policy Analysis

Students did research on the fringe economy by interviewing employees in these firms and consumers. 20 students/10 hours each

SOCW 7310: Social Service Program Evaluation

Social work graduate students performed evaluations of the Initiatives for Children's hotline program, the truancy learning camp program, Harris County Children Protective Services, and the Zina Garrison All Court Tennis Foundation Program; did needs assessments related to end of life care and Hispanics views on hospice; and performed an outcome study of the Court Appointed Special Advocate Program in Brazoria County, Texas. 16 students/30 hours each

SOCW 7311: Single-System Research

Research in agencies to assess effectiveness of social work practice. 15 students/80 hours each

SOCW 7331: Social Work Intervention with Older Adults

A social work graduate student worked in gerontology setting with seniors with dementia and their families. 1 student/12 hours

SOCW 7358: Critical Issues in Mental Health

Social work graduate students attend one meeting of the Harris County Mental Health Needs Council at the Mental Health Association Office and wrote up an analysis of the meeting. 35 students/2 hours each

SOCW: Advanced Field Practicum I

Advocate for client needs in Austin as a follow-up to the 2003 Legislative Session. 1 student/75 hours

SOCW: Advanced Field Practicum II

Social work graduate students assist with the development of new program initiatives within community agencies and design a program to increase parent involvement in schools. 3 students/150 hours each

SOCW: Field Practicum II, Various Areas

Social work graduate students provide services to at risk students and their families in schools, counsel homeless families and assist with education and employment opportunities, and provide after school enrichment activities and social skill development to children of immigrant families. 30 students/225 hours each

SOCW: Field Practicum III, Various Areas

Social work graduate students help patients and families cope with severe and chronic illness, counsel with older adults who have been abused or neglected, provide mental health services to the indigent, assist with the recruitment of Hispanic families for foster care and adoption, and counsel with gay, lesbian, bisexual transgendered youth. 97 students/225 hours each

SOCW: Field Practicum IV, Various Areas

Social work graduate students assist with the investigation and treatment of child sexual abuse, create therapeutic games for use with abused and at-risk children, provide therapeutic services to patients who are dying and to their families, participate in interdisciplinary teams to develop individualized patient treatment plans, and co-facilitate therapeutic groups for persons with mental illness. 4 students/225 hours each

Student Organizations Community Service

Student organizations in the C.T. Bauer College of Business, such as Beta Alpha Psi and the Accounting Society, perform various service activities throughout the year. In some cases, students donate their time to non-profit institutions (churches, etc.) by providing help with the organization's accounting. They also visit high schools to discuss career opportunities with graduating seniors.

Technology Leadership Intern Program

The Technology Leadership Intern Program within the College of Technology matches outstanding junior and senior students with leading edge companies in the Houston area through internships, job placement, and other collaborative partnerships. For information, call (713) 743-4023.

Texas Legislative Internship Program (TLIP)

The Texas Legislative Internship Program (TLIP), sponsored by the office of State Senator Rodney Ellis and administered by the Mickey Leland Center on World Hunger and Peace at Texas Southern University, provides undergraduate and graduate students the opportunity to serve as interns in the Texas

Legislature and various political offices. University of Houston recruitment efforts are coordinated by the Center for Public Policy. For information, call (713) 743-3972

Tom DeLay Texas Internship Program

The Center for Public Policy coordinates UH recruitment efforts for Congressman Tom DeLay's Texas Internship Program. For information, call (713) 743-3972.

TRDE 6302: Design and Management of E-Learning

Based on analysis, students designed a training program on cultural diversity for Reliant Energy. Completed project components were presented to Reliant representatives at the end of the semester. 18 students/5 hours per week each

Vision Screening at Children's Museum

College of Optometry students and faculty provided a vision screening, conducted at the Children's Museum, for approximately 75 children from the Boys and Girls Clubs of Houston. Approximately 30% of these children were referred for further health care services.

UH-Clear Lake

Art and Entertainment

UHCL Cultural Arts

UHCL Cultural Arts offers the community a great variety of the state and nation's best touring artists. The 2004 season featured local treasures such as the Mercury Baroque Ensemble and the Fly Dance Company, who have delighted audiences in the United States and abroad; veteran touring artists and performers such as ventriloquist Lynn Trefzger and Orange Kellin's New Orleans Blue Serenaders; classical guitarists Philip Hii and Jeremy Garcia; and the medieval music group, Istanpitta. For information, call (281) 283-2555.

Visual Arts Scholastic Event / Texas Art Education Association

The Visual Arts Scholastic Event, sponsored by the Texas Art Education Association, is a statewide curricular opportunity for middle school and high school students of art. The event provides students the opportunity to develop creative works of art and to discuss and analyze their artworks with trained professional art jurors. Unlike a competition, VASE establishes a standard of excellence for students to pursue. For information, call (281) 283-3378.

Business and Industry

Center for Advanced Management Programs (CAMP)

The Center for Advanced Management Programs offers a variety of services, ranging from problem identification to strategic planning, to meet specific organizational needs of business and government organizations. CAMP provides professional continuing education by sponsoring, developing, and implementing seminars, conferences, workshops, and short courses in a wide variety of fields. The center's broad spectrum of programs and services includes professional development seminars, custom designed programs, consulting services, tutorials, professional certification review programs, and certificate programs. For information, call (281) 283-3120.

Center for Economic Development and Research (CEDR)

Center for Economic Development and Research provides assistance to local communities in conducting economic impact research. For information, call (281) 283-3239.

Environmental Institute of Houston (EIH)

A partnership between UH-Clear Lake and UH which works to promote sustainable development and environmental quality in the Houston-Galveston region and around the world, EIH provides seed funding for research grants in the four focus areas of pollution prevention, natural resource conservation, environmental regulation and policy, and environmental education. EIH supports a variety of environmental education activities including professional development for educators through workshops, hands-on activities and other community educational activities. Many EIH projects are collaborative and bring together people from businesses, environmental agencies, environmental organizations, and universities to seek solutions for environmental issues. For information, call (281) 283-3950.

High Technologies Laboratory

The High Technologies Laboratory identifies problems common to government agencies, corporations, and academic researchers which can benefit from the faculty, student, and equipment resources available at UHCL. The laboratory mobilizes UHCL faculty expertise to perform research and development in

computer science, computer engineering, telecommunications, robotics, software engineering, information technology, electro-optical systems, and control systems. For information, call (281) 283-3809.

InfraGard Meetings

InfraGard is a public-private partnership of the FBI and other area government, industry, and academia organization focused upon the issues of homeland security and cyberspace protection. UHCL is one of the host sites for their meetings. Because of potential national security concerns, these meetings are sometimes restricted to members with appropriate security clearances. For information, call (281) 283-3865.

Institute for Futures Research

The Institute for Futures Research conducts long-term forecasting and planning projects in association with the graduate program in Studies of the Future. The institute's mission is to help clients across the state and nation anticipate the future using the latest futures technology and to provide graduate students the opportunity to participate in actual futures projects before they graduate. For information, call (281) 283-3323.

International Council on Systems Engineering (INCOSE) Meetings

In partnership with the Clear Lake chapter of the INCOSE professional organization, UHCL is one of the host sites for their monthly meetings and technical presentations on advancements and issues in systems engineering. Meetings are open to the public. For information, call (281) 283-3875.

Mid-Continent Technology Transfer Center of Houston (MCTTC)

One of six NASA-funded regional centers that offers a variety of services in technology transfer and commercialization, the MCTTC's mission is to serve federal laboratories and private industries by providing a direct link between technology sources and recipients. For information, call (281) 283-3040.

NASA Small Business Technology Transfer Program (STTR)

STTR is partnership between UH-Clear Lake and Tietronix, a local small business, to provide a three-phased approach to develop a technology in response to a specific set of NASA's mission driven needs. In this case, the STTR is titled a "Model-Based Torque Control of Piezoelectric Ultrasonic Motors," a technology needed by NASA for future robotics applications in space. For information, call (281) 283-3852.

Research Institute for Computing and Information Systems (RICIS)

RICIS was established in 1986 in collaboration with the NASA Johnson Space Center to plan, implement, and oversee a program of research and education to meet the burgeoning needs in advanced computing and information systems. The mission of RICIS is to conduct, coordinate, and disseminate research and professional-level education in computing and information systems to serve the needs of the government, industry, community, and academia. For information, call (281) 283-3703.

Small Business Development Institute

The Small Business Development Institute provides faculty-supervised management counseling conducted by students for small business owners. The institute offers seminars and workshops for managers and owners of small to medium-sized businesses and maintains working partnerships with the Small Business Administration and the Service Corps of Retired Executives. For information, call (281) 283-3120.

UHCL Annual Computer Applications Conference

This annual research conference provides a forum for area research papers and presentations in modern computing applications from participants in area industries, the NASA/Johnson's Space Center, and other government organizations. A special feature of this conference is the section reserved for student papers and presentations. The conference is open to the public. For information, call (281) 283-3875.

UHCL Capstone Courses in Computing and Mathematics and in Engineering

Each year, UHCL invites proposals from area industry and government agencies for capstone projects that would benefit the proposing organization. These computing-related project proposals are evaluated by a team of UHCL faculty. Projects that are believed to be of sufficient complexity to require teams of School of Science Computer Engineering students to exercise what they have learned during their work toward their computing related degree and that are also believed to be achievable by teams of students over a one-to two-semester period are accepted. The proposing organization provides a domain expert and SCE provides a faculty expert to help mentor the team throughout the project. The resulting team projects are demonstrated and presented to the public at the conclusion of the work. For information, call (281) 283-3865.

World Year of Physics Seminar Series

In celebration of the World Year of Physics, UHCL faculty and guest presenters from the NASA/Johnson's Space Center and aerospace contractors are presenting a weekly seminar series for this current spring semester on relevant topics in physics. The series is open to the general public for free, or, for a fee of \$15, continuing education certificates can be obtained. For information, call (281) 283-3796.

Cultural Heritage

New Horizons Bilingual Education and ESL Teacher Training Project

This program provides financial and academic support for students seeking certification as bilingual education and ESL teachers. For information, call (281) 283-3591.

Research Center for Language and Culture

The Research Center for Language and Culture develops national models that can be used to improve minority education. Efforts include improving training for teachers working with limited English proficient learners. Ongoing research is addressing English as a second language, bilingual education, and the development of science skills in language-minority students. For information, call (281) 283-3591.

Education and Training

Alfred R. Neumann Library

The Alfred R. Neumann Library is a dynamic organization with resources, facilities and staff dedicated to excellent service for both UHCL and the surrounding community. With a collection of more than 375,000 volumes, more than 3,500 journals, numerous electronic databases, and federal and state document depositories, the library provides a broad range of informational resources for everyone. For information, call (281) 283-3931.

Amazon Ecotours

This 19-day riverboat trip along the Amazon River travels through the world's largest rainforest. It is part of an on-going research and instruction program for UHCL students that is available for course credits. It

is also available to other UHCL students, faculty, staff, alumni, and community friends on a space-available basis. This tour is typically conducted twice a year. For information, call (281) 283-3745.

Center for Advanced Management Programs (CAMP)

The Center for Advanced Management Programs offers a variety of services, ranging from problem identification to strategic planning, to meet specific organizational needs of business and government organizations. CAMP provides professional continuing education by sponsoring, developing, and implementing seminars, conferences, workshops, and short courses in a wide variety of fields. The center's broad spectrum of programs and services includes professional development seminars, custom designed programs, consulting services, tutorials, professional certification review programs, and certificate programs. For information, call (281) 283-3120.

Collaborative Bilingual Administrator Training

The Collaborative Bilingual Administrator Training programs prepares bilingual educators to become principals, assistant principals, and other supervisory personnel to lead schools with high populations of English language learners in seven collaborating school districts. The project provides participants an array of professional development, mentoring, and support to ensure success. For information, call (281) 283-3555.

Collaborative Bilingual Counselor Training

The Collaborative Bilingual Counselor Training program prepares bilingual educators to become school counselors in schools with high populations of English language learners in collaborating school districts. The project provides participants an array of professional development, mentoring, and support to ensure success. As part of the training process, counseling interns in this project provide free counseling at after school clinics located in neighborhood schools. For information, call (281) 283-3559.

Collaborative School Librarian Training

The Collaborative School Librarian Training program prepares school librarians to serve in schools with large Hispanic populations. The project also provides professional development to practicing school librarians, increases community communications and collaborations, and disseminates information on meeting the needs of Hispanic students. For information, call (281) 283-3577.

Environmental Institute of Houston

A partnership between UH-Clear Lake and UH which works to promote sustainable development and environmental quality in the Houston-Galveston region and around the world. EIH provides seed funding for research grants in the four focus areas of pollution prevention, natural resource conservation, environmental regulation and policy, and environmental education. EIH supports a variety of environmental education activities including professional development for educators through workshops, hands-on activities and other community educational activities. Many EIH projects are collaborative and bring together people from businesses, environmental agencies, environmental organizations and universities to seek solutions for environmental issues. For information, call (281) 283-3950.

Expanding Your Horizons

The annual conference encourages young girls to study mathematics, science, and technology and to consider career options such as engineering, computer science, and physical science. The event offers girls in grades 6 to 8 career exploration workshops presented by female professionals in aerospace and chemical engineering, banking, health and medical science, and other science-, math- or technology-related fields. Parents and teachers also participate in adult workshop sessions. For information, call (281) 283-2021.

Foreign Languages Program

The Foreign Languages Program offers classes in a variety of languages including English-enhancement classes for foreign professionals. Language courses include Chinese, French, German, Japanese, Polish, Portuguese, Russian, Spanish and Vietnamese. For information, call (281) 283-3033.

Greater Houston Area Writing Project

The Greater Houston Area Writing Project at UH-Clear Lake is one of the model programs designed to provide advanced training in teaching writing skills. Each year, a four-week institute for exemplary teachers of writing, a Young Writer's Camp (grades 2-5), and an annual writing conference are held. For information, call (281) 283-3533.

Gulf Coast Community College Consortium

The Gulf Coast Community College Consortium, a statutorily created advisory council, includes community college chancellors and presidents from nine counties. UHCL and the consortium work to monitor the needs of the region for the development of programs and resources in higher education. UHCL and the nine community colleges have developed a series of articulation agreements to help students with the transfer process to the university. One major initiative, the 2+2 Program, provides course work guidelines for community college students interested in pursuing a four-year degree. A joint admission program, UniLINK, enables students to experience university life while enrolled as freshmen and sophomores at a community college. For information, call (281) 283-2004.

Higher Education Partnership Agreement – Alvin Community College (ACC), ACC Pearland Center

UH-Clear Lake began offering courses in 2004 at Alvin Community College and ACC's Pearland Center as a collaborative initiative between the university and the community college to help meet the higher education needs of the region as well as bolster the workforce training capabilities needed to support the rapid growth and development of the area. Course work offered by UHCL at both locations may be applied toward bachelor's and master's degrees in criminology, psychology, and general behavioral sciences; a bachelor's degree in business administration; or a master's degree in educational management with principal certification and professional development and appraisal system certification. For information, call (281) 283-3032.

Human Performance Institute

This institute offers advanced programs in sports medicine and human performance. It promotes community health with exercise sessions, lecture/discussion series, testing services, and fitness instruction. For information, call (281) 283-3032.

International Council on Systems Engineering (INCOSE) Meetings

In partnership with the Clear Lake chapter of the INCOSE professional organization, UHCL is one of the host sites for their monthly meetings and technical presentations on advancements and issues in systems engineering. Meetings are open to the public. For information, call (281) 283-3875.

Johnson Space Center History Collection

On February 8, 2001, UHCL signed a Memorandum of Understanding with the NASA Johnson Space Center and the National Archives and Records Administration to provide "temporary transfer of custody and loan of historically significant records accumulated by JSC relating to human spaceflight." This MOU allows the records to be housed in the University Archives where researchers can access them. The JSC History Collection at UHCL consists of eight series: Apollo, Skylab, Apollo Soyuz Test Project (ASTP), Shuttle, Station, Oral History, General Reference, and Center. For information, call (281) 283-3936.

New Horizons Bilingual Education and ESL Teacher Training Project

Provide financial and academic support for students seeking certification as bilingual education and ESL teachers. For information, call (281) 283-3591.

Professional Development Laboratory School (McWhirter Elementary)

The Professional Development Laboratory School at McWhirter Elementary School is a collaborative initiative of UH-Clear Lake and Clear Creek Independent School District (CCISD). The partnership emphasizes the professional development of teachers (CCISD teachers, UHCL candidates and UHCL faculty) and research, both of which are focused on improving the achievement levels of CCISD students. For information, call (281) 283-3620.

Research Center for Language and Culture

The Research Center for Language and Culture develops national models that can be used to improve minority education. Efforts include improving training for teachers working with limited English proficient learners. Ongoing research is addressing English as a second language, bilingual education, and the development of science skills in language-minority students. For information, call (281) 283-3591.

Research Institute for Computing and Information Systems (RICIS)

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Small Business Development Institute

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Southeast Coop Gifted Seminar Series

The Southeast Coop Seminar Series, established in 1999, supports the development of gifted teaching talent in 23 area school districts. The collaborative series features five seminars (30 clock hours) to certify classroom teachers, maximize resources, and sustain a consistent program to serve gifted children in all area school districts. The seminars are held on Saturdays at UH-Clear Lake during the fall and spring semesters. For information, call (281) 283-3530.

Space Science Seminar

Weekly, evening seminar on current topics in space science is open to the public and available each spring semester. For information, call (281) 283-3796.

Student Conference for Research and Creative Arts

UH-Clear Lake's Student Conference for Research and Creative Arts, an annual event, provides students across all disciplines from many universities in a state region opportunities to present original research and creative arts projects in a professional forum as well as participate in a broad spectrum of workshops and lectures. The conference plays a significant role in students' education by enhancing classroom experiences through interaction within and across disciplines. For information, call (281) 283-3375.

Success Through Education Program (STEP)

STEP, a collaborative teacher education project established in 1993, comprises special academic programs and comprehensive support services that guide students through a seamless track from high school to community college to UH-Clear Lake, culminating in a college degree, teacher certification and employment in local school districts. This program enables disadvantaged students to pursue a four-year degree and certification and increases the number of teachers in local school districts. STEP programs include the Baytown Area Education Recruitment & Retention, Galveston Area Education Recruitment & Retention, HomeGrown Teacher Project, and Pathway to Teaching. For information, call (281) 283-3501.

Texas Department of Criminal Justice (TDCJ) Program: Academics for Offenders

UH-Clear Lake offers courses to TDCJ inmates through the School of Human Sciences and Humanities leading to bachelor's degrees in Behavioral Sciences and Humanities, and master's degrees in Humanities and Literature. UH-Clear Lake is one of very few institutions that offer graduate degrees to offenders. The university employs both full-time instructors and adjuncts to teach classes at the TDCJ units and strives to ensure that the TDCJ regimen matches that of on-campus classes. For information, call (281) 283-3385.

Texas Undergraduate Education in Biological Sciences (TUEBS) Regional Conference

UHCL hosted a regional meeting of TUEBS for biology faculty members from all area community colleges and other universities, including Sam Houston State and Stephen F. Austin.

UHCL Annual Computer Applications Conference

This annual research conference provides a forum for area research papers and presentations in modern computing applications from participants in area industries, the NASA/Johnson's Space Center and other government organizations. A special feature of this conference is the section reserved for student papers and presentations. The conference is open to the public. For information, call (281) 283-3875.

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Government

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Galveston County Partnership with UHCL and Tietronix.

Galveston County government approached UHCL to form a partnership to improve the real-time, computing and communications infrastructure for Galveston County. This includes cybersecurity issues and infrastructure support for coordination of emergency management services and homeland security during combinations of large-scale, catastrophic accidents, acts of nature, or terrorist attacks. This real-time computing and communications infrastructure must support interactions among human decision makers of local and regional municipalities, county, state, regional, national, and even international government entities and the military. For information, call (281) 283-3853.

High Technologies Laboratory

The High Technologies Laboratory identifies problems common to government agencies, corporations, and academic researchers which can benefit from the faculty, student, and equipment resources available at UHCL. The laboratory mobilizes UHCL faculty expertise to perform research and development in computer science, computer engineering, telecommunications, robotics, software engineering, information technology, electro-optical systems, and control systems. For information, call (281) 283-3809.

InfraGard Meetings

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Mid-Continent Technology Transfer Center of Houston (MCTTC)

One of six NASA-funded regional centers that offers a variety of services in technology transfer and commercialization, the MCTTC's mission is to serve federal laboratories and private industries by providing a direct link between technology sources and recipients. For information, call (281) 283-3040.

NASA Oral History Project

The NASA Oral History Project began in the mid-1990s with a mission to identify key personnel involved with Johnson's Space Center activities and to interview them as part of the historical record. Materials housed at UHCL consist of transcripts, CD, and/or cassette recordings. For information, call (281) 283-3936.

NASA Small Business Technology Transfer Program (STTR)

TTR is partnership between UH-Clear Lake and Tietronix, a local small business, to provide a three-phased approach to develop a technology in response to a specific set of NASA's mission driven needs. In this case, the STTR is titled a "Model-Based Torque Control of Piezoelectric Ultrasonic Motors," a technology needed by NASA for future robotics applications in space. For information, call (281) 283-3852.

Research Institute for Computing and Information Systems (RICIS)

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UHCL Annual Computer Applications Conference

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UHCL Capstone Courses in Computing and Mathematics and in Engineering

Each year, UHCL invites proposals from area industry and government agencies for capstone projects that would benefit the proposing organization. These computing-related project proposals are evaluated by a team of UHCL faculty. Projects that are believed to be of sufficient complexity to require teams of School of Science Computer Engineering students to exercise what they have learned during their work toward their computing related degree and that are also believed to be achievable by teams of students over a one – to two-semester period are accepted. The proposing organization provides a domain expert and SCE provides a faculty expert to help mentor the team throughout the project. The resulting team projects are demonstrated and presented to the public at the conclusion of the work. For information, call (281) 283-3865.

World Year of Physics Seminar Series

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Health

Human Performance Institute

This institute offers advanced programs in sports medicine and human performance. It promotes community health with exercise sessions, lecture/discussion series, testing services, and fitness instruction. For information, call (281) 283-3032.

Psychological Services Clinic

UH-Clear Lake's Psychological Services Clinic is a training facility for graduate programs in clinical psychology, family therapy, and school psychology. The clinic provides family, individual, and couples counseling and psychological testing for children and adolescents. Fees are assessed on a sliding scale. For information, call (281) 283-3330.

Miscellaneous

Alfred R. Neumann Library

The Alfred R. Neumann Library is a dynamic organization with resources, facilities and staff dedicated to excellent service for both UHCL and the surrounding community. With a collection of more than 375,000 volumes, more than 3,500 journals, numerous electronic databases, and federal and state document depositories, the library provides a broad range of informational resources for everyone. For information, call (281) 283-3931.

Cooperative Agreement for Library Services to NASA/Johnson Space Center (JSC)

In September 2002, a cooperative agreement was signed with JSC to outsource most of the space center's library services to UHCL's Neumann Library. Since the Neumann Library already housed the JSC archives under an earlier agreement, and since UHCL has a long history of working with JSC, the Neumann Library seemed the most logical entity to provide library services for space center personnel. This agreement further enhanced a long history of cooperation between UHCL and JSC. For information, call (281) 283-3931.

Friends of the Neumann Library

Friends of the Alfred R. Neumann Library members play a vital role in the life of the library and the university. Membership provides a range of benefits for the individual while helping the library sustain current informational resources that are responsive to the community. For information, call (281) 283-3931.

Learning Resources Review Center

Jointly sponsored by the Alfred R. Neumann Library and the School of Education, the center houses current children's books furnished the generosity of publishers and producers of books and materials. The primary function of the center is to encourage review activities. For information, call (281) 283-3931.

UHCL Human Space Flight Collection

To chronicle and commemorate the individuals involved in the space industry, the UHCL archives established the UHCL Human Space Flight Collection. The program seeks materials (personal papers, correspondence, drawings, designs, etc.) that offer personal insights into the history and operation of human space flights which will complement and enhance the official JSC records. For information, call (281) 283-3936.

Pre-K-12 Education

Advanced Knowledge Transfer Laboratory

This lab is dedicated to the application of cutting-edge information technology to student's learning styles and levels of mastery, curriculum designer's development strategies, and teacher's pedagogical approaches. For information, call (281) 283-3587.

Aerospace Academy for Engineering and Teacher Education

The Aerospace Academy for Engineering and Teacher Education is a K-18 partnership including school districts, community colleges, universities, aerospace employers and the NASA Johnson Space Center. Academy goals are to 1) produce a highly educated workforce for aerospace and other high-technology employers, 2) create highly qualified science and math teachers to produce that workforce, and 3) move students through education faster via K-18 partnerships. The academy includes three institutes:

Community-Oriented Science and Mathematics Opportunities for Students (COSMOS), Mathematics/Science Pedagogy Institute, and High Technology Institute. For information, call (281) 283-3703.

Alpha Gifted Program

The Alpha Gifted Program, established in fall 1986, brings fourth- and fifth-grade students in the Clear Creek to UH-Clear Lake every Wednesday September through May. Students actively participate in courses taught in university classrooms by practitioners in the field. The Alpha Gifted Program strives to foster a passion for lifelong learning by providing gifted students opportunities that enrich and supplement their public school experiences. For information, call (281) 283-3530.

Art School for Children and Young Adults

UH-Clear Lake's Art School for Children and Young Adults is a model program in art education for children the Clear Lake and the surrounding areas. Classes provide art instruction for the community and serve as a laboratory for observation, teaching, and research in visual arts education. A special focus of the curriculum is the art of the world's varied cultures and the contributions of major artists. Children are encouraged to progress at their own pace and acquire skills appropriate to their developmental level. Classes are also offered for artistically gifted children from the Clear Creek Independent School District. For information, call (281) 283-3344.

Center for Economic Education

The Center for Economic Education conducts educational training for teachers in grades K-12 on methodologies and materials designed to incorporate economics in their classrooms. For information, call (281) 283-3137.

Center for Educational Programs

The center offers an array of programs serving the citizens of the Bay Area, such as seminars for teachers of gifted children, reading, mathematics tutoring, Kids' U, grant support for local school districts, and an independent testing service for area families. Offerings include programs for children, educators and the community. For information, call (281) 283-3530.

Center for Professional Development of Teachers (CPDT)

The UHCL School of Education is a state-approved Center for Professional Development of Teachers. The teacher preparation program provides extensive public school-based experiences for prospective educators. These expanded experiences include a two-semester internship, public school-based university course work and close cooperation with a number of professional development school sites. The collaborative initiative between UHCL and area independent school districts focuses on providing a rich and supportive environment for the preparation of professional educators through a range of field experiences. For information, call (281)-283-6121.

Collaborative Bilingual Administrator Training

The Collaborative Bilingual Administrator Training programs prepares bilingual educators to become principals, assistant principals, and other supervisory personnel to lead schools with high populations of English language learners in seven collaborating school districts. The project provides participants an array of professional development, mentoring, and support to ensure success. For information, call (281) 283-3555.

Collaborative Bilingual Counselor Training

The Collaborative Bilingual Counselor Training program prepares bilingual educators to become school counselors in schools with high populations of English language learners in collaborating school districts. The project provides participants an array of professional development, mentoring, and support to ensure

success. As part of the training process, counseling interns in this project provide free counseling at after school clinics located in neighborhood schools. For information, call (281) 283-3559.

Collaborative School Librarian Training

The Collaborative School Librarian Training program prepares school librarians to serve in schools with large Hispanic populations. The project also provides professional development to practicing school librarians, increases community communications and collaborations, and disseminates information on meeting the needs of Hispanic students. For information, call (281) 283-3577.

Environmental Institute of Houston (EIH)

A partnership between UH-Clear Lake and UH which works to promote sustainable development and environmental quality in the Houston-Galveston region and around the world, EIH provides seed funding for research grants in the four focus areas of pollution prevention, natural resource conservation, environmental regulation and policy, and environmental education. EIH supports a variety of environmental education activities including professional development for educators through workshops, hands-on activities and other community educational activities. Many EIH projects are collaborative and bring together people from businesses, environmental agencies, environmental organizations, and universities to seek solutions for environmental issues. For information, call (281) 283-3950.

Environmental Education Workshops

The Environmental Institute of Houston offers Environmental Education Workshops, providing a wide range of learning experiences for public school teachers and students. Programs include the School Habitat Curriculum Guide, Air-O-Dynamic Curriculum, Habitat Hopping (San Jacinto Battleground State Historic Site), and Estuary Ecotour of Galveston Bay (Interactive CD). For information, call (281) 283-3950.

Expanding Your Horizons

The annual conference encourages young girls to study mathematics, science, and technology and to consider career options such as engineering, computer science, and physical science. The event offers girls in grades 6 to 8 career exploration workshops presented by female professionals in aerospace and chemical engineering, banking, health and medical science, and other science-, math- or technology-related fields. Parents and teachers also participate in adult workshop sessions. For information, call (281) 283-2021.

Greater Houston Area Writing Project

The Greater Houston Area Writing Project at UH-Clear Lake is one of the United State model programs designed to provide advanced training in teaching writing skills. Each year, a four-week institute for exemplary teachers of writing, a Young Writer's Camp (grades 2-5), and an annual writing conference are held. For information, call (281) 283-3533.

Kids' U

Kids' U is a supplementary academic program for elementary and secondary students operating during the summer and on Saturdays during the academic year. There are five camps or divisions within Kids' U: Science Camp, Technology Camp, Math Camp, Young Writers Camp and Gifted Academy. In addition, summer opportunities are co-sponsored with Science Adventures, a for-profit national endeavor. The Assistance League of the Bay Area provides significant scholarship assistance annually to children who cannot otherwise afford to participate. For information, call (281) 283-3530.

Math Center

The Math Center supports and encourages students preparing to be teachers of K-8 mathematics. Center staff help student delve beyond their textbooks into underlying mathematical concepts. The center offers a

broad range of resources for future mathematics educators, including mathematics software, reference books and magazines, geometrical models, instructional videotapes, and video recording and playback equipment as well as problem review sessions and math anxiety workshops. The Math Center is a collaborative program of UHCL's School of Education and School of Science and Computer Engineering. For information, call (281) 283-3723.

Mathematics Institute

A collaborative program of UHCL's School of Education and School of Science and Computer Engineering, the Mathematics Institute provides training in probability, statistics, and geometry for middle school teachers. For information, call (281) 283-3536.

New Horizons Bilingual Education and ESL Teacher Training Project

This program provides financial and academic support for students seeking certification as bilingual education and ESL teachers. For information, call (281) 283-3591.

Professional Development Laboratory School (McWhirter Elementary)

The Professional Development Laboratory School at McWhirter Elementary School is a collaborative initiative of UH-Clear Lake and Clear Creek Independent School District (CCISD). The partnership emphasizes the professional development of teachers (CCISD teachers, UHCL candidates and UHCL faculty) and research, both of which are focused on improving the achievement levels of CCISD students. For information, call (281) 283-3620.

Research Center for Language and Culture

The Research Center for Language and Culture develops national models that can be used to improve minority education. Efforts include improving training for teachers working with limited English proficient learners. Ongoing research is addressing English as a second language, bilingual education, and the development of science skills in language-minority students. For information, call (281) 283-3591.

Science Olympiad

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Southeast Coop Gifted Seminar Series

The Southeast Coop Seminar Series, established in 1999, supports the development of gifted teaching talent in 23 area school districts. The collaborative series features five seminars (30 clock hours) to certify classroom teachers, maximize resources, and sustain a consistent program to serve gifted children in all area school districts. The seminars are held on Saturdays at UH-Clear Lake during the fall and spring semesters. For information, call (281) 283-3530.

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include the Baytown Area Education Recruitment & Retention, Galveston Area Education Recruitment & Retention, HomeGrown Teacher Project, and Pathway to Teaching. For information, call (281) 283-3501.

Texas Scholars in Computer Science

Seven endowed scholarships have been established to enable qualifying students graduating from Pasadena Independent School District and Clear Creek Independent School District to enter one of the campuses of the San Jacinto College District (SJCD) to pursue a career in computer science. Qualifying SJCD graduates may then continue their scholarship to earn a bachelor of science degree at UHCL. For information, call (281) 283-3863.

Visual Arts Scholastic Event / Texas Art Education Association

The Visual Arts Scholastic Event, sponsored by the Texas Art Education Association, is a statewide curricular opportunity for middle school and high school students of art. The event provides students the opportunity to develop creative works of art and to discuss and analyze their artworks with trained professional art jurors. Unlike a competition, VASE establishes a standard of excellence for students to pursue. For information, call (281) 283-3378.

Science/Technology/Environment

Aerospace Academy for Engineering and Teacher Education

The Aerospace Academy for Engineering and Teacher Education is a K-18 partnership including school districts, community colleges, universities, aerospace employers and NASA's Johnson Space Center. Academy goals are to 1) produce a highly educated workforce for aerospace and other high-technology employers, 2) create highly qualified science and math teachers to produce that workforce, and 3) move students through education faster via K-18 partnerships. The academy includes three institutes: Community-Oriented Science and Mathematics Opportunities for Students (COSMOS), Mathematics/Science Pedagogy Institute, and High Technology Institute. For information, call (281) 283-3703.

Amazon Ecotours

This 19-day riverboat trip along the Amazon River travels through the world's largest rainforest. It is part of an on-going research and instruction program for UHCL students that is available for course credits. It is also available to other UHCL students, faculty, staff, alumni, and community friends on a space-available basis. This tour is typically conducted twice a year. For information, call (281) 283-3745.

Cooperative Agreement for Library Services to NASA/Johnson Space Center

In September 2002, a cooperative agreement was signed with JSC to effectively outsource most of the Space Center's library services to UHCL's Neumann Library. Since the Neumann Library already housed the JSC archives under an earlier agreement, and since UHCL has a long history of working with JSC, the Neumann Library seemed the most logical entity to provide library services for space center personnel. This agreement further enhanced a long history of cooperation between UHCL and JSC. For information, call (281) 283-3931.

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High Technologies Laboratory

The High Technologies Laboratory identifies problems common to government agencies, corporations, and academic researchers which can benefit from the faculty, student, and equipment resources available at UHCL. The laboratory mobilizes UHCL faculty expertise to perform research and development in computer science, computer engineering, telecommunications, robotics, software engineering, information technology, electro-optical systems, and control systems. For information, call (281) 283-3809.

International Council on Systems Engineering (INCOSE) Meetings

In partnership with the Clear Lake Chapter of the INCOSE professional organization, UHCL is one of the host sites for their monthly meetings and technical presentations on advancements and issues in Systems Engineering. Meetings are open to the public. For information, call (281) 283-3875.

Johnson Space Center History Collection

On February 8, 2001, UHCL signed a Memorandum of Understanding with the NASA Johnson Space Center and the National Archives and Records Administration to provide “temporary transfer of custody and loan of historically significant records accumulated by JSC relating to human spaceflight.” This MOU allows the records to be housed in the University Archives where researchers can access them. The JSC History Collection at UHCL consists of eight series: Apollo, Skylab, Apollo Soyuz Test Project (ASTP), Shuttle, Station, Oral History, General Reference, and Center. For information, call (281) 283-3936.

Math Center

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Mathematics Institute

A collaborative program of UHCL's School of Education and School of Science and Computer Engineering, the Mathematics Institute provides training in probability, statistics, and geometry for middle school teachers. For information, call (281) 283-3536.

Mid-Continent Technology Transfer Center of Houston (MCTTC)

One of six NASA-funded regional centers that offers a variety of services in technology transfer and commercialization, the MCTTC's mission is to serve federal laboratories and private industries by providing a direct link between technology sources and recipients. For information, call (281) 283-3040.

NASA Oral History Project

The NASA Oral History Project began in the mid-1990s with a mission to identify key personnel involved with Johnson Space Center activities and to interview them as part of the historical record. Materials housed at UHCL consist of transcripts, CD, and/or cassette recordings. For information, call (281) 283-3936.

NASA Small Business Technology Transfer Program (STTR)

STTR is a partnership between UH-Clear Lake and Tietronix, a local small business, to provide a three-phased approach to develop a technology in response to a specific set of NASA's mission driven needs. In this case, the STTR is titled a "Model-Based Torque Control of Piezoelectric Ultrasonic Motors," a technology needed by NASA for future robotics applications in space. For information, call (281) 283-3852.

Research Institute for Computing and Information Systems (RICIS)

RICIS was established in 1986 in collaboration with the NASA Johnson Space Center to plan, implement, and oversee a program of research and education to meet the burgeoning needs in advanced computing and information systems. The mission of RICIS is to conduct, coordinate, and disseminate research and professional-level education in computing and information systems to serve the needs of the government, industry, community, and academia. For information, call (281) 283-3703.

Science Olympiad

UH-Clear Lake and NASA's Johnson Space Center host the annual Gulf Coast Regional Science Olympiad to promote student interest in science and to improve the quality of K-12 education. Science Olympiad tournaments are rigorous academic competitions balanced between the various science and engineering disciplines of biology, earth science, chemistry, physics, computers, and technology. There is a balance between events requiring knowledge of facts, concepts, processes, skills, and science applications. Participants also learn important life skills such as teamwork, cooperation, and creative problem solving. For information, call (281) 283-2021.

Space Science Seminar

This weekly, evening seminar on current topics in space science is open to the public and available each spring semester. For information, call (281) 283-3796.

Texas Scholars in Computer Science

Seven endowed scholarships have been established to enable qualifying students graduating from Pasadena Independent School District and Clear Creek Independent School District to enter one of the campuses of the San Jacinto College District (SJCD) to pursue a career in computer science. Qualifying SJCD may then continue their scholarship to earn a bachelor of science degree at UHCL. For information, call (281) 283-3863.

Texas Undergraduate Education in Biological Sciences (TUEBS) Regional Conference

UHCL hosted a regional meeting of TUEBS for biology faculty members from all area community colleges and other universities, including Sam Houston State and Stephen F. Austin.

UHCL Annual Computer Applications Conference

This annual research conference provides a forum for area research papers and presentations in modern computing applications from participants in area industries, the NASA/Johnson Space Center and other government organizations. A special feature of this conference is the section reserved for student papers and presentations. The conference is open to the public. For information, call (281) 283-3875.

UHCL Capstone Courses in Computing and Mathematics and in Engineering

Each year, UHCL invites proposals from area industry and government agencies for capstone projects that would benefit the proposing organization. These computing-related project proposals are evaluated by a team of UHCL faculty. Projects that are believed to be of sufficient complexity to require teams of School of Computer Science Engineering students to exercise what they have learned during their work toward their computing related degree and that are also believed to be achievable by teams of students over a one – to two-semester period are accepted. The proposing organization provides a domain expert and SCE provides a faculty expert to help mentor the team throughout the project. The resulting team projects are demonstrated and presented to the public at the conclusion of the work. For information, call (281) 283-3865.

UHCL Human Space Flight Collection

The chronicle and commemorate the individuals involved in the space industry, the UHCL archives established the UHCL Human Space Flight Collection. The program seeks materials (personal papers, correspondence, drawings, designs, etc.) that offer personal insights into the history and operation of human space flights which will complement and enhance the official JSC records. For information, call (281) 283-3936.

World Year of Physics Seminar Series

In celebration of the World Year of Physics, UHCL faculty and guest presenters from the NASA/Johnson Space Center and aerospace contractors are presenting a weekly seminar series for this current spring semester on relevant topics in physics. The series is open to the general public for free, or, for a fee of \$15, continuing education certificates can be obtained. For information, call (281) 283-3796.

Social and Consumer Services

Clear Lake Association of Senior Programs (CLASP)

CLASP provides various programs and activities for senior citizens in the Bay Area. For information, call (281) 283-2021.

Student Leadership Institute (SLI)

The UHCL Student Leadership Institute prepares today's students to lead in tomorrow's global communities. SLI provides information and tools to propel college leaders forward into a lifetime of service and leadership in their chosen careers and in their communities; offers programs and environments that promote growth and development in seven distinct areas, critical thinking, communication, information technology, interpersonal competence, ethical citizenship, global perspectives, and self-directed learning; provides a broad spectrum of opportunities to develop leadership in service to the community; and cultivates partnerships within the UHCL community to embrace and model the concept of shared responsibility for learning. For information, call (281) 283-2611.

Texas Department of Criminal Justice (TDCJ) Program: Academics for Offenders

UH-Clear Lake offers courses to TDCJ inmates through the School of Human Sciences and Humanities leading to bachelor's degrees in Behavioral Sciences and Humanities, and master's degrees in Humanities and Literature. UH-Clear Lake is one of very few institutions that offer graduate degrees to offenders. The university employs both full-time instructors and adjuncts to teach classes at the TDCJ units, and strives to ensure that the TDCJ regimen matches that of on-campus classes. For information, call (281) 283-3385.

Service Learning Classes and Program

Advanced Knowledge Transfer Laboratory

This lab dedicated to the application of cutting-edge information technology to student's learning styles and levels of mastery, curriculum designer's development strategies, and teacher's pedagogical approaches. For information, call (281) 283-3587.

Aerospace Academy for Engineering and Teacher Education

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Alpha Gifted Program

The Alpha Gifted Program, established in fall 1986, brings fourth- and fifth-grade students in Clear Creek ISD to UH-Clear Lake every Wednesday during September through May. Students participate in courses taught by practitioners in the field. The Alpha Gifted Program strives to foster a passion for lifelong learning by providing gifted students opportunities that enrich and supplement their public school experiences. For information, call (281) 283-3530.

Center for Economic Development and Research (CEDR)

Center for Economic Development and Research provides assistance to local communities in conducting economic impact research. For information, call (281) 283-3239.

Center for Economic Education

The Center for Economic Education conducts educational training for teachers in grades K-12 on methodologies and materials designed to incorporate economics in their classrooms. For information, call (281) 283-3137.

Center for Professional Development of Teachers (CPDT)

The School of Education is a state-approved Center for Professional Development of Teachers. The teacher preparation program provides extensive public school-based experiences for prospective educators. These expanded experiences include a two-semester internship, public school-based university course work, and close cooperation with a number of professional development school sites. The collaborative initiative between UH Clear Lake and area independent school districts focuses on providing a rich and supportive environment for the preparation of professional educators through a range of field experiences. For information, call (281)-283-6121.

Collaborative Bilingual Administrator Training

The Collaborative Bilingual Administrator Training programs prepares bilingual educators to become principals, assistant principals, and other supervisory personnel to lead schools with high populations of English language learners in seven collaborating school districts. The project provides participants an array of professional development, mentoring, and support to ensure success. For information, call (281) 283-3555.

Collaborative Bilingual Counselor Training

The Collaborative Bilingual Counselor Training program prepares bilingual educators to become school counselors in schools with high populations of English language learners in collaborating school districts. The project provides participants an array of professional development, mentoring, and support to ensure success. As part of the training process, counseling interns in this project provide free counseling at after school clinics located in neighborhood schools. For information, call (281) 283-3559.

Collaborative School Librarian Training

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Cooperative Agreement for Library Services NASA's/Johnson Space Center (JSC)

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Environmental Education Workshops

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Galveston County Partnership with UHCL and Tietronix.

Galveston County government approached UH Clear Lake to form a partnership to improve the real-time, computing and communications infrastructure for Galveston County. This includes cybersecurity issues and infrastructure support for coordination of emergency management services and homeland security during large-scale, catastrophic, accidents, acts of nature, or terrorist attacks. This real-time computing and communications infrastructure must support interactions among human decision makers of local and

regional municipalities, county, state, regional, national, and even international government entities and the military. For information, call (281) 283-3853.

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High Technologies Laboratory

The High Technologies Laboratory identifies problems common to government agencies, corporations, and academic researchers which can benefit from the faculty, student, and equipment resources available at UHCL. The laboratory mobilizes UHCL faculty expertise to perform research and development in computer science, computer engineering, telecommunications, robotics, software engineering, information technology, electro-optical systems, and control systems. For information, call (281) 283-3809.

InfraGard Meetings

InfraGard is a public-private partnership of the FBI along with other area organizations of government, industry and academia focused upon the issues of homeland security and cyberspace protection. UHCL is one of the host sites for their meetings. Because of potential national security concerns, these meetings are sometimes restricted to members with appropriate security clearances. For information, call (281) 283-3865.

Johnson Space Center History Collection

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UH-Downtown

Business and Industry

Applied Business and Technology Center

The Applied Business and Technology Center is a self-sustaining, non-credit granting center of the UHD. The center's mission is to provide quality continuing education to the public; quality research and consulting services to industry and the public; services leading to the improvement of the community; personal and professional opportunities for UHD faculty, staff, and departments; as well as to contribute to the expansion and improvement of the UHD. The center offers courses in applied business and technology at various levels, from entry through advanced. The center courses are taught on-campus as well as on-site. The Center also develops and delivers customized courses for business and industry.

Center for Applied Polymer Research

This center provides the opportunity for undergraduate students to participate directly in basic and applied polymer science research projects that have academic and industrial significance. It includes an internationally recognized center for applied research in ultraviolet (UV) polymerization chemistry and technology, which disseminates information to the Texas-based chemical industry concerning the productivity, environmental, and energy saving features of UV polymerization processes. Another component, H.U.N.S.T.E.M. – Houston Urban Network for Educators in Science, Technology, Engineering and Mathematics – helps connect educators, students, and parents to resources needed to promote study in these areas.

Center for Entrepreneurship

Through extensive support programs and educational resources, this award-winning center enhances the competitiveness and profitability of young entrepreneurs. The center prepares students for leadership roles in the business world by providing education from an executive perspective, from idea to implementation. The center also seeks to be a resource for the Houston entrepreneurial community by hosting and sponsoring events within the community.

Criminal Justice Center

UHD has one of the largest criminal justice training centers in Texas. The mission of the training division is to provide quality adult education to people desiring to enter public and private sector criminal justice professions and continuing education to criminal justice practitioners. In addition, students, faculty, and staff of the division donate thousands of hours annually to activities leading to the improvement of the criminal justice professions and the community at large. The division has conducted more than 100 police academy classes, trained more than 15,000 students for the criminal justice professions, and won regional and national awards for excellence. Its location near the Harris County Courthouse and criminal justice complex makes it an ideal training site.

Professional Land Management Certification

The program is designed for landmen, lease and title analysts, attorneys, and others involved in supporting exploration and development activities.

Cultural Heritage

Cultural Enrichment Center

The Cultural Enrichment Center provides support for the recruitment and retention of minority students and engages in programs that offer greater access to higher education for UHD students. The center also provides research and evaluation to promote effective program development, extend cooperative efforts with the Mexican American and African American Studies Programs at the University of Houston, and increase activities in support of outreach efforts with Houston area public schools. The center has an activities fund to encourage the university community's participation in events that may be of special interest to minority students or that increase awareness of ethnic and cultural issues in society. The fund is offered in support of speakers, workshops, publicity, and activities undertaken on behalf of the center.

Education and Training

Applied Business and Technology Center

The Applied Business and Technology Center is a self-sustaining, non-credit granting center of the UHD. The center's mission is to provide quality continuing education to the public; quality research and consulting services to industry and the public; services leading to the improvement of the community; personal and professional opportunities for UHD faculty, staff, and departments; as well as to contribute to the expansion and improvement of the UHD. The center offers courses in applied business and technology at various levels, from entry through advanced. The center courses are taught on-campus as well as on-site. The Center also develops and delivers customized courses for business and industry.

Center for Computational Sciences and Advance Distributed Simulation (C²SDS)

This very successful program is for pre-college and college students whose interests lie in computer science, mathematics, engineering, and the sciences. C²SDS is also highly involved in the development of K-12 school teachers. Pre-college programs, directed at middle and high school students, include Houston PREP, Computational Science Academy, CS Academy, Scholars Academy, and High School Tours/Visits. Teacher training is being undertaken in collaboration with NASA and other entities. These training sessions involve hands-on exposure to and experience with new technologies and educational materials.

Center for Entrepreneurship

Through extensive support and educational resources, this award-winning program enhances the competitiveness and profitability of young entrepreneurs. The center prepares students for leadership roles in the business world by providing education from an executive perspective, from idea to implementation. The center also seeks to be a resource for the Houston entrepreneurial community by hosting and sponsoring events within the community.

Criminal Justice Center

UHD has one of the largest criminal justice training centers in Texas. The mission of the training division is to provide quality adult education to people desiring to enter public and private sector criminal justice professions and continuing education to criminal justice practitioners. In addition, students, faculty, and staff of the division donate thousands of hours annually to activities leading to the improvement of the criminal justice professions and the community at large. The division has conducted more than 100 police academy classes, trained more than 15,000 students for the criminal justice professions, and won regional and national awards for excellence. Its location near the Harris County courthouse and criminal justice complex makes it an ideal training site.

English Language Institute (ELI)

Approximately 90 students study in each of the ELI's six sessions per year. Students come from all over the world with all levels of English skills to learn about U.S. culture, business practices, and daily living. Major fields of study range from computer science, medicine, and business to the liberal arts. Most come with specific academic or career enhancement goals.

Professional Land Management Certification

The program is designed for landmen, lease and title analysts, attorneys, and others involved in supporting exploration and development activities.

Government

Criminal Justice Center

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Pre-K-12 Education

Center for Applied Polymer Research

This center provides the opportunity for undergraduate students to participate directly in basic and applied polymer science research projects that have academic and industrial significance. It includes an internationally recognized center for applied research in ultraviolet (UV) polymerization chemistry and technology, which disseminates information to the Texas-based chemical industry concerning the productivity, environmental, and energy saving features of UV polymerization processes. Another component, H.U.N.S.T.E.M. – Houston Urban Network for Educators in Science, Technology, Engineering and Mathematics – helps connect educators, students, and parents to resources needed to promote study in these areas.

Center for Computational Sciences and Advance Distributed Simulation (C²SDS)

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Computational Science Academy (aka Saturday PREP)

An academic year continuation of the PREP Program, this academy mentors and nurtures students by providing necessary reinforcement and encouragement to pursue mathematics, science, and engineering technology careers and teaching conceptualization and problem solving. Students in 8th and 9th grade are encouraged to apply.

CS Academy

An activity of the Advanced Distributed Simulation Research Consortium (ADSRC - a unit of the U.S. Army Research Office), this program is designed to allow socially and economically disadvantaged students to bypass remediation upon entering college in areas of computer science, computational science, and mathematics. Topics include pre-calculus, C++, Java, and HTML. Students in their senior year of high school are encouraged to apply.

Cultural Enrichment Center

The Cultural Enrichment Center provides support for the recruitment and retention of minority students and engages in programs that offer greater access to higher education for UHD students. The center also provides research and evaluation to promote effective program development, extend cooperative efforts with the Mexican American and African American Studies Programs at the University of Houston, and increase activities in support of outreach efforts with Houston area public schools. The center has an activities fund to encourage the university community's participation in events that may be of special interest to minority students or that increase awareness of ethnic and cultural issues in society. The fund is offered in support of speakers, workshops, publicity, and activities undertaken on behalf of the center.

Educational Talent Search and Upward Bound

This program reaches out to students in Houston public schools with activities designed to improve college-going rates among under-represented populations. These highly successful efforts have significantly increased the number of students who go on to college from the schools where these programs are present.

GEARUP (Gaining Early Awareness and Readiness for Undergraduate Programs)

The GEARUP Program, funded by the U.S. Department of Education, is a partnership among Project GRAD, Houston Independent School District (Davis, Yates, and Wheatley feeder patterns), and partner universities (UH-Downtown, University of Houston, and Texas Southern University). GEARUP seeks to develop early college awareness in middle school students by establishing ongoing relationships with the faculty, staff, and students of local colleges and universities. UH-Downtown is a university partner to Marshall Middle School and provides reading and mathematics tutoring, mentoring experiences, and an early college awareness curriculum to sixth and seventh graders.

Houston Pre-Freshman Enrichment Program (PREP)

A distinguished and intensive mathematics-based summer enrichment program, PREP provides educational opportunities for high ability, socially and economically disadvantaged students who are interested in careers in mathematics, science, computer science, or engineering technology. Students in grades 7 to 9 are invited to apply.

Ketelsen Institute for Academic Excellence

The Ketelsen Institute for Academic Excellence is a summer enrichment program that assists high school students academically and helps prepare them to transition to the more rigorous university experience. Students are offered an opportunity to participate in a four-week academic enrichment program that supports and enhances their high school curriculum, helps prepare them for college, and acculturates them to a university environment. The university experience, in turn, helps to reduce apprehension about college attendance by familiarizing students with campus life through interactions with university faculty and state-of-the-art technology. The goals of the institute include encouraging academic excellence and increasing the high school graduation and college enrollment rates.

Science and Engineering Fair of Houston

Over 1,500 young scientists from 145 Houston area middle and high schools take part in the Science and Engineering Fair of Houston. Now in its 47th year, the event has more than doubled in size since UH-

Downtown became the principal sponsor in 1985. The fair is the largest provider of scholarships for science and engineering students in the greater Houston area, recognizing over 600 students and providing over 50 scholarships.

Science/Technology/Environment

Center for Applied Polymer Research

This center provides the opportunity for undergraduate students to participate directly in basic and applied polymer science research projects that have academic and industrial significance. It includes an internationally recognized center for applied research in ultraviolet (UV) polymerization chemistry and technology, which disseminates information to the Texas-based chemical industry concerning the productivity, environmental, and energy saving features of UV polymerization processes. Another component, H.U.N.S.T.E.M. – Houston Urban Network for Educators in Science, Technology, Engineering and Mathematics – helps connect educators, students, and parents to resources needed to promote study in these areas.

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Social and Consumer Services

Criminal Justice Center

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Project Leadership UHD

This seminar-based, participatory program is sponsored by the Office of Student Activities and Events. UHD students are challenged to develop their strengths and skills as collaborative leaders. Project Leadership UHD features a core curriculum of required seminars, including the annual Student Leadership Conference, a commitment to community service, and an elective curriculum of additional seminars.

Volunteer Center

UH-Downtown's Volunteer Center promotes public service and organizes support for volunteer opportunities in the community. The UHD Volunteer Center also serves as a clearinghouse of volunteer opportunities for UHD student organizations, individual students, faculty, and staff.

UH-Victoria

Art and Entertainment

Center for Nonprofit Management/DeLeon Symposium on the Humanities

The center partners with the DeLeon Club of Victoria to present a morning-long symposium on Mexican-American contributions to the humanities. It is free and open to the public and usually held in April. For information, call (361) 570-4296.

Chamber of Commerce Jazz Fest

Students volunteered to sell drinks at the Jazz Fest on April 7, 2005. For information, call (361) 570-4142.

Business and Industry

Communication Internships

Internships for communication majors offer valuable work experience for students and provide a great return to the sponsoring organizations. Students are allowed to choose the type of work experience they want. Previous internship positions have ranged from human resource in a bank to marketing and public relations with the Houston Astros. Many interns have been located in the nonprofit sector, providing students with the opportunity to work on specific service projects. For information, call (361) 570-4292.

Economic Development Luncheon

This is a networking opportunity for economic developers. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Internships at Small Business Development Center (SBDC)

“Real life” defines the internship experiences provided for University of Houston-Victoria business majors through the university’s SBDC. Interns are assigned to a senior counselor to assist with clients. They spend 120 hours creating business plans, designing marketing pieces, and performing financial evaluations on companies in the 11-county SBDC region. For information, call (361) 570-8931.

MBA Case Competition

The MBA Case Competition is part of the capstone course for UHV’s MBA students. The case competition provides students the opportunity to apply what they have learned in real-world business situations. Teams participating in the competition prepare business case analyses for companies and are judged on several criteria including organization, subject knowledge, audience interaction, elocution, and teamwork. For information, call (361) 570-4251.

Spanish Language MBA Program (In Development Phase)

Open Enrollment. For information, call (361) 570-4186.

Cultural Heritage

Black History Steering Committee

UHV Mexican American Students Organization and UHV Student Senate volunteer at the Black History Festival and provide drivers for the parade in February. For information, call (361) 570-4142.

Center for Nonprofit Management/DeLeon Symposium on the Humanities

The center partners with the DeLeon Club of Victoria to present a morning-long symposium on Mexican-American contributions to the humanities. It is free and open to the public and usually held in April. For information, call (361) 570-4296.

Chamber Noche en la Calle

Members of UHV's Mexican American Students Organization and the Victoria Chamber of Commerce raise funds through this event, which targets the community as well as faculty, staff, and other students. For information, call (361) 570-4142.

Cinco De Mayo

Members of UHV's Mexican American Students Organization and Victoria College students raise funds through this event, which targets the community as well as faculty, staff and other students. For information, call (361) 570-4142.

Fiesta Day

This is a celebration of Hispanic culture held on the Victoria College/UHV campus. All proceeds benefit UHV and VC scholarships. For information, call (361) 570-4142.

Sabor de Mexico

Mexican American Students Organization, Victoria College Mariachi and Memorial High School Ballet Folklorico collaborate with Victoria College to promote the Hispanic culture. For information, call (361) 570-4142.

Spanish Language MBA Program (In Development Phase)

Open Enrollment. For information, call (361) 570-4186.

Study Abroad program

UHV maintains consortial relationships in Mexico, Spain, and other countries. The goal is to have 20 percent of UHV undergraduates participate. For information, call (361) 570-4186.

Tamale Sales

Students collaborate with Ventura Restaurant to promote Hispanic culture and raise money for Mexican American Students Organization. For information, call (361) 570-4142.

Victoria College Spring Connection

Members of the Mexican American Students Organization promote their organization to Victoria College students and sell popcorn. For information, call (361) 570-4142.

Education and Training

Access to Success

The Access to Success program is designed to recruit and support instructional aides and long-term substitute teachers in their efforts to become certified teachers. This collaboration between UHV, Victoria Independent School District, and Victoria College has resulted in 74 students who have received their bachelor's degree and teaching certification. This program provides many students who may not otherwise have the opportunity to attend college with the financial, personal, and instructional support to do so; it also address the teacher shortage by preparing teachers from a group that is shown to have a

higher retention rate as teachers than those who have had not experience within the schools. For information, call (361) 570-4257.

Center for Nonprofit Leadership

The center provides board governance training for Leadership Victoria participants. Aided in the startup of a tourism coalition for Victoria to help bring additional funding to the area, and provided resources/referrals for the Sure BET Program through e-mail distributions. For information, call (361) 570-4296.

Courses for Nonprofit Organizations

CEUs for professional development. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Creating Effective Websites

Open enrollment class for professional development. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Economic Development Luncheon

Networking opportunity for economic developers. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Effective Use of Census 2000

Open enrollment class for professional development. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Golden Crescent Alliance of Case Managers (GCAM)

The Center for Nonprofit Leadership partnered with the UHV Professional Development Department to facilitate the development of the GCACM. GCACM meets case managers need for training and networking that is specific to their profession. For information, call (361) 570-4296.

Grant Workshops

DeGoLA, Guadalupe-Blanco River Authority and the Center for Nonprofit Leadership (CNL) partnered to provide grant workshops to approximately 65 people. The CNL has also referred 40 organizations to DeGoLA for technology resources and equipment. DeGoLA and CNL also conducted town hall meetings in Calhoun County for community planning/development with approximately 50 participants. For information, call (361) 570-4296.

Leadership Institute Series

This institute, sponsored annually by the UHV Center for Nonprofit Leadership, provides affordable and desired professional training for nonprofit practitioners, leaders, and students. Since 2003, the institute has provided 72 hours of professional development to more than 250 people in the Coastal Bend region, strengthening the capacity of nonprofits to serve this area. For information, call (361) 570-4296.

Nonprofit Community Coffee

The Center for Nonprofit Leadership hosts a monthly coffee for the community. More than 600 reminders are sent to individuals, organizations, and elected officials. The coffees are a time to network, share best practices, and sustain dialogue within the community. For information, call (361) 570-4296.

Quarterly meetings of Victoria Ethics Alliance

Provide CEUs for professional development. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Self Defense Class

UHV and the Victoria police department teach self defense class for students at UHV. For information, call (361) 570-4142.

Spanish Language MBA Program (In Development Phase)

Open Enrollment. For information, call (361) 570-4186.

Study Abroad program

UHV maintains consortial relationships in Mexico, Spain, and other countries. The goal is to have 20 percent of University of Houston-Victoria undergraduates participate. For information, call (361) 570-4186.

Technical Writing for Public Officials

Professional training for city employees (utilities and police). For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

University of Houston-Victoria Open House

Counselors from Victoria College Wharton County Junior College and UHV advisors are on hand to advise students. Representatives are available from the Educational Opportunity Center and the Victoria College Bookstore along with the UHV School of Business, Arts and Sciences and Educational and Human Development Departments, Office of Admissions, Recruitment and Financial Aid. These events are to inform the public about opportunities that UHV has to offer.

Victoria Spring Workshop

Each year the School of Education and Human Development hosts a spring workshop for superintendents and school board members. Partners with UHV in this endeavor include the Texas Association of School Boards, Region III Education Service Center, and Texas Association of School Administrators. Approximately 250 board members and administrators attend this conference each spring. For information, call (361) 570-4257.

Wealth Management Strategies for Lifetime Security

Open enrollment courses for personal enrichment. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Government

Nonprofit Community Coffee

The Center for Nonprofit Leadership hosts a monthly coffee for the community. More than 600 reminders are sent to individuals, organizations, and elected officials. The coffees are a time to network, share best practices, and sustain dialogue within the community. For information, call (361) 570-4296.

Tax Assistance Program

Partnered with the IRS, United Way of Victoria, First Victoria National Bank, Community Action Council, City of Victoria Public Information, and the YMCA, the Center for Nonprofit Leadership provides free tax assistance to senior citizens and low-income families. The partnership works to increase the awareness of the Earned Income Tax Credit (EITC). A total of \$230,000 in EITC benefits were generated by the partnership. For information, call (361) 570-4296.

Technical Writing for Public Officials

Professional training for city employees (utilities and police). For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Health

University of Houston-Victoria/Victoria College Annual Health Awareness Fair

Twenty vendors participated and set up booths to educate students, staff, and faculty on health issues. For information, call (361) 570-4142.

Victoria Blood and Tissue Center Drive

UHV faculty, staff, and students and community members participate in blood drives on campus. For information, call (361) 570-4142.

Miscellaneous

Hope of South Texas Sexual Abuse and Awareness Seminar

UHV and Victoria College students, faculty, and staff attended. For information, call (361) 570-4142.

Regional Data Report on Children

This is a compilation of data on children in the UHV service area of 14 surrounding counties. For information, visit www.uhv.edu/visitors_community.asp and click on Regional Data on Children or call (361) 570-4114.

Pre-K-12 Education

Access to Success

The Access to Success program is designed to recruit and support instructional aides and long-term substitute teachers in their efforts to become certified teachers. This collaboration between UHV, Victoria Independent School District, and Victoria College has resulted in 74 students who have received their bachelor's degree and teaching certification. This program provides many students who may not otherwise have the opportunity to attend college with the financial, personal, and instructional support to do so; it also address the teacher shortage by preparing teachers from a group that is shown to have a higher retention rate as teachers than those who have had not experience within the schools. For information, call (361) 570-4257.

Boys Academy

This one-day event, held twice annually, began in 2005 to give the same opportunity to eighth grade boys that Girls Academy provided for eighth grade girls. It follows a similar format as Girls Academy, assisting young men to develop and utilize their leadership abilities. For information, call (361) 570-4146.

Girls Academy

This one-day conference is held twice a year for eighth grade girls. Each middle school in a 14 county region is invited to select three girls who show leadership potential, but have not had opportunity to develop their leadership abilities, to attend either the Spring or the Fall Girls Academy. Girls Academy

reaches 120 girls annually and follow-up focus groups indicate this event accomplishes its goal. For information, call (361) 570-4146.

LEAD Ambassador School Visits

Lead Ambassadors travel to area schools, giving interactive classroom presentations about college. For pre-K-3 student, they present a puppet show stressing that college is the way to achieve your dreams. For information, visit www.uhv.edu/SSRO/LEAD/ or call (361) 570-4146.

LEAD College Campus Visits

LEAD staff present information to students visiting the UHV campus where they gain exposure to a college environment and learn first-hand the value of a college education, ways to finance their education, and career paths available to them. For information, visit www.uhv.edu/SSRO/LEAD/ or call (361) 570-4146.

LEAD G-Force

LEAD formed a collegiate student-led outreach organization, G-Force, which supports the operation of a network of area Go Centers to help high school students make successful transition to post-secondary education. For information, visit www.uhv.edu/SSRO/LEAD/ or call (361) 570-4146.

LEAD Mentoring

The LEAD program helps establish mentoring programs, trains mentoring applicants, and provides on going support in working with mentoring groups. For information, visit www.uhv.edu/SSRO/LEAD/ or call (361) 570-4146.

LEAD Parent Presentations

LEAD personnel organize and conduct Free Application for Federal Student Aid (FAFSA) presentations in English and/or Spanish to parents at schools and parent gatherings to provide information about financial aid and scholarships. For information, visit www.uhv.edu/SSRO/LEAD/ or call (361) 570-4146.

Letting Education Achieve Dreams (LEAD)

“College is important and accessible!” This is the message that the LEAD programs carries to 15,000 pre K-12th grade students, parents, and community leaders annually through presentations at schools, college campus visits for 4th, 7th and 12th graders, mentoring programs and bilingual presentations. Motivation and accessibility information form the backbone of this award-winning higher education campaign begun in 1999 to raise the college going rates in the Coastal Bend region of Texas. For information, visit www.uhv.edu/SSRO/LEAD/ or call (361) 570-4146.

Math & Computer Awareness 2005

The event encouraged high school students to explore the fields of math and computer science and consider career options open to them in these fields. There were presentations, interactive workshops and contests, with winners receiving scholarships from Victoria College and the University of Houston-Victoria.

University of Houston-Victoria County Spelling Bee

Elementary and middle school students compete in local spelling bees and winners advance to the regional level. For information, visit www.uhv.edu/ssro/default.asp or call (361) 570-4135.

University of Houston-Victoria Open House

Counselors from Victoria College Wharton County Junior College and UHV advisors are on hand to advise students. Representatives are available from the Educational Opportunity Center and the Victoria College Bookstore along with the UHV School of Business, Arts and Sciences and Educational and

Human Development Departments, Office of Admissions, Recruitment and Financial Aid. These events are to inform the public about opportunities that UHV has to offer.

Victoria Spring Workshop

Each year the School of Education and Human Development hosts a spring workshop for superintendents and school board members. Partners with UHV include Texas Association of School Boards, Region III Education Service Center, and Texas Association of School Administrators. Approximately 250 board members and administrators attend this conference. For information, call (361) 570-4257.

Youth Leadership Conference

This is an annual four-day summer conference that began in 2003 as a collaborative effort of UHV, the Greater Victoria Chamber of Commerce, and Victoria Independent School District. Fifty incoming seventh graders are chosen to participate in this event that emphasizes leadership and service through hands-on experiences. Participant surveys and parental feedback indicate the positive impact of this conference. For information, call (361) 570-4339.

Science/Technology/Environment

Math & Computer Awareness 2005

The event encourages high school students to explore the fields of math and computer science and consider career options open to them in these fields. There are presentations, interactive workshops and contests, with winners receiving scholarships from Victoria College and the University of Houston-Victoria.

Social and Consumer Services

Angel Tree

Students, faculty, staff and community members donate gifts to children. The Salvation Army provides the ages and gender of children to appreciate gifts for these angels may be selected. For information, call (361) 570-4142.

Center for Nonprofit Leadership

Provides board governance training for Leadership Victoria participants. Aided in the startup of a tourism coalition for Victoria to help bring additional funding to the area. Provided resources/referrals for the Sure BET Program through e-mail distributions. For information, call (361) 570-4296.

Communication Internships

Internships for communication majors offer valuable work experience for students and provide a great return to the sponsoring organizations. Students are allowed to choose the type of work experience they want. Previous internship positions have ranged from human resource in a bank to marketing and public relations with the Houston Astros. Many interns have been located in the nonprofit sector, providing students with the opportunity to work on specific service projects. For information, call (361) 570-4292.

Consulting Services

The Center for Nonprofit Leadership (CNL) provides consulting services such as foundation research, board governance, strategic planning, nonprofit startup and proposal reviews for regional nonprofit

organizations. It assisted with the formation of four nonprofits and provided general advisement/foundation/proposal review and research for 18 organizations. For information, call (361) 570-4296.

Courses for Nonprofit Organizations

CEUs for professional development. For information, visit <http://www.uhv.edu/ssro/profdev.asp> or call (361) 570-4383.

Food Bank of Victoria

Students volunteer at the Food Bank. For information, call (361) 570-4142.

Giving Tree

Students, faculty and staff collect gifts, food and pet supplies for the Salvation Army, Food Bank of Victoria, Adopt a Pet, and Affectionate Arms Day Care Center in December. For information, call (361) 570-4142.

Golden Crescent Alliance of Case Managers (GCAM)

The Center for Nonprofit Leadership partnered with the UHV Professional Development Department to facilitate the development of the GCACM. GCACM meets case managers' need for training and networking that is specific to their profession. For information, call (361) 570-4296.

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DeGoLA, Guadalupe-Blanco River Authority and the Center for Nonprofit Leadership (CNL) partnered to provide grant workshops to approximately 65 people. The CNL has also referred 40 organizations to DeGoLA for technology resources and equipment. DeGoLA and CNL also conducted town hall meetings in Calhoun County for community planning/development with approximately 50 participants. For information, call (361) 570-4296.

Habitat for Humanity

Students, faculty, and staff volunteer to help build a Habitat home. For information, call (361) 570-4142.

Lacks Trim a Tree

UHV Student Senate collected gifts for needy families in our community. For information, call (361) 570-4142.

Leadership Institute Series

This institute, sponsored annually by the UHV Center for Nonprofit Leadership, provides affordable and desired professional training for nonprofit practitioners, leaders, and students. Since 2003, the institute has provided 72 hours of professional development to more than 250 people in the Coastal Bend region, strengthening the capacity of nonprofits to serve this area. For information, call (361) 570-4296.

Nonprofit Community Coffee

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Tax Assistance Program

Partnered with the IRS, United Way of Victoria, First Victoria National Bank, Community Action Council, City Of Victoria Public Information, and the YMCA, the Center for Nonprofit Leadership provides free tax assistance to senior citizens and low-income families. The partnership works to increase

the awareness of the Earned Income Tax Credit (EITC). A total of \$230,000 in EITC benefits were generated by the partnership. For information, call (361) 570-4296.

Toy Donation

Working with Hope of South Texas, the UHV community donates toys to children in the community. For information, call (361) 570-4142.

Trinity Head Start Easter Egg Hunt

Mexican American Students Organization and Gamma Beta Phi students help hide eggs and donate plastic eggs filled with candy for this event. For information, call (361) 570-4142.

Victoria Blood and Tissue Center Drive

UHV faculty, staff, and students and community members participate in blood drives on campus. For information, call (361) 570-4142.

Wrap a Kid in Warmth

Students, faculty, staff and community members donate coats to families in need. For information, call (361) 570-4142.

Service Learning Classes and Programs

Access to Success

The Access to Success program is designed to recruit and support instructional aides and long-term substitute teachers in their efforts to become certified teachers. This collaboration between UHV, Victoria Independent School District, and Victoria College has resulted in 74 students who have received their bachelor's degree and teaching certification. This program provides many students who may not otherwise have the opportunity to attend college with the financial, personal, and instructional support to do so. It also address the teacher shortage by preparing teachers from a group that is shown to have a higher retention rate as teachers than those who have had not experience within the schools. For information, call (361) 570-4257.

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Internships for communication majors offer valuable work experience for students and provide a great return to the sponsoring organizations. Students are allowed to choose the type of work experience they want. Previous internship positions have ranged from human resource settings in a bank to marketing and public relations with the Houston Astros. Many interns have been located in the nonprofit sector, providing students with the opportunity to work on specific service projects. For information, call (361) 570-4292.

Internships at Small Business Development Center (SBDC)

“Real life” defines the internship experiences provided for UHV business majors through the university's SBDC. Interns are assigned to a senior counselor to assist with clients. They spend 120 hours creating business plans, designing marketing pieces, and performing financial evaluations on companies in the 11-county SBDC region. For information, call (361) 570-8931.

MBA Case Competition

The MBA Case Competition is part of the capstone course for UHV's MBA students. The case competition provides students the opportunity to apply what they have learned in real-world business situations. Teams participating in the competition prepare business case analyses for companies and are

judged on several criteria including organization, subject knowledge, audience interaction, elocution, and teamwork. For information, call (361) 570-4251.

Study Abroad Program

UHV maintains consortial relationships in Mexico, Spain and other countries. The goal is to have 20% of UHV undergraduates participate. For information, call (361) 570-4186.