

Miller Institute for Basic Research in Science celebrating 50 years

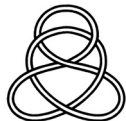


Welcome to the celebration of the Miller Institute's 50th year. For a half century, distinguished scientists have come to Berkeley to pursue research excellence. The Institute has provided the financial support needed to make this multi-disciplinary extravaganza happen. It is a venue where people from all the basic research disciplines, young and old, fresh out of graduate school and seasoned researchers can meet and share their experience and insight across a wide spectrum of interests.

We have organized a day of presentations and in-depth discussions in areas at the frontiers of science, led by past and present members of the Miller Institute. I'm looking forward to our having a fascinating look into the current state of nanoscience, bioscience and the cosmology-fundamental physics connection, combined with the chance to meet old and new friends from the Institute and beyond.

Welcome!

Jonathan Arons, Executive Director
Miller Institute



The Miller Institute for Basic Research in Science

The Miller Institute at the University of California Berkeley was established in the mid-1950s through a generous donation made by Adolph C. and Mary Sprague Miller. "Dedicated to the encouragement of creative thought and the conduct of research and investigation in the field of pure science . . . and investigation in the field of applied science in so far as such research and investigation are deemed by the Advisory Board to offer a promising approach to fundamental problems," the Institute hosts scientists in three programs – the Miller Research Professorship program, the Visiting Miller Professorship program, and the Miller Research Fellowship program.

The gift of time granted by the Institute allows Miller Professors to dedicate full-time effort to their research in fields ranging from physical and biological sciences to mathematics. The Visiting Miller Professorship program brings to the Institute faculty from other UC campuses as well as from institutions across the United States and abroad for short term collaborative visits. The donor's primary purpose in endowing the Miller Institute was to discover scientists of great talent or promise. Therefore, the Institute offers three-year fellowships to brilliant young men and women who have recently taken the doctoral degree.

Members from all three programs are represented in the 50th Anniversary Symposium.

Miller Institute Leadership

Executive Director:

Jonathan Arons
Professor of Astronomy
Professor of Physics

Executive Committee:

David Chandler
Professor of Chemistry

Alberto Grünbaum
Professor of Mathematics

Mimi Koehl
Professor of Integrative Biology

Advisory Board:

Chancellor Robert Birgeneau,
Berkeley

Gerald Fink, Professor of Biology
Massachusetts Institute of
Technology

Nancy Kopell, Professor of
Mathematics, Boston University

Venkatesh Narayanamurti
Dean of Engineering & Applied
Sciences, Harvard University

Staff:

Kathryn Day

Jennifer Hong, student

Donata Hubert

Heather Lynch

Suling Tan

AGENDA

Welcome **9:00 - 9:15**

New Science at the Scale of Nanometers **9:15 - 11:50**

Miller Institute scientists are leaders in the emerging field of nanoscience, inventing the smallest machines and devices that promise new advances for medicine, information technology, and energy resources.

Matt Francis 9:20 - 9:55

Hongkun Park 9:55 - 10:30

Break **10:30 - 10:50**

Paul Alivisatos 10:50 - 11:25

Discussion

Lunch at The Alumni House **11:50 - 1:00**

Biology at Different Scales, from Planet to Molecules **1:00 - 3:30**

Former Miller Fellows are playing major roles in important aspects of modern biology that span many scales, ranging from the emerging fields of genomics and proteomics to questions of extinction and evolution on the planet.

David Jablonski 1:05 - 1:45

John Huelsenbeck 1:45 - 2:25

Erin O'Shea 2:25 - 3:05

Discussion

Break **3:30 - 3:50**

The Cosmology – Fundamental Physics Connection **3:50 - 5:45**

Cosmology and particle physics have converged in the last 25 years in the search for the understanding of the most basic rules of the natural order. A number of former and current members of the Miller Institute are major participants in this modern convergence.

John Barrow 3:55 - 4:35

Hitoshi Murayama 4:35 - 5:15

Discussion

General Discussion **5:45 - 6:00**

Hors d'oeuvres – The Faculty Club **6:30**

Dinner **7:30**



Paul Alivisatos

Paul Alivisatos is Professor of Chemistry and of Materials Science at the University of California, Berkeley, where he has been a faculty member since 1988. He was a Miller Research Professor in 2001-02. Educated at the University of Chicago (BS, 1981) and Berkeley (Ph.D, 1986), Paul Alivisatos is among the two or three scientists generally credited as the originators of the field of nanotechnology. A member of the National Academy of Sciences and the recipient of numerous awards, he couples his research activities with service to our Nation's scientific efforts through his editorship of the American Chemical Society's most successful new journal, *Nano Letters*, his work as Associate Director for Physical Sciences at Lawrence Berkeley National Laboratory, and his memberships on various committees, including the Defense Science Study Group and the Department of Energy Council on Materials Sciences.



John D. Barrow

John D. Barrow, FRS, a Miller Fellow in 1980-1981, is Professor of Mathematical Sciences at Cambridge University and Director of the Millennium Mathematics Project, an initiative to improve the understanding and appreciation of mathematics and its applications amongst young people and the general public. He received his doctorate in Astrophysics from Oxford University in 1977. After his Miller Fellowship he moved to the University of Sussex, where he became professor of astronomy and Director of the Astronomy Centre until he left in 1999 for Cambridge. At Cambridge he is also Fellow and Vice-President of Clare Hall College. He is the author of 395 scientific articles and 17 books, translated into 28 languages, which explore many of the wider historical, philosophical and cultural ramifications of developments in astronomy, physics and mathematics. He is a recipient of the Locker Prize for Astronomy and the 1999 Kelvin Medal of the Royal Glasgow Philosophical Society, the 2003 Italgas Prize and the 2005 Lacchini Prize of the Italian Astronomical Union. He was elected a Fellow of the Royal Society in 2003. He is a frequent lecturer, including many notable public lectures in many countries, with the curious distinction of having delivered lectures on cosmology at the Venice Film Festival, 10 Downing Street, Windsor Castle and the Vatican Palace.



Matt Francis

A Miller Fellow from 1999 to 2001, Matt Francis joined the Berkeley Chemistry faculty in 2001. Despite his young age, he is already well-known around campus for his superb teaching, and around the world for his research. He has developed many new methods that can be used to attach synthetic molecules to proteins, enabling the creation of hybrid biomaterials for a variety of nanoscience applications. In particular, he has used these methods to convert the protein shells of viruses into delivery vehicles for anticancer drugs and light collecting components for solar cells. The quality and impact of his work has been recognized by a Camille-Dreyfus Young Investigator's Award and a Career Award from the NSF. In 2005, he also received the Departmental Teaching Award for his classroom efforts.



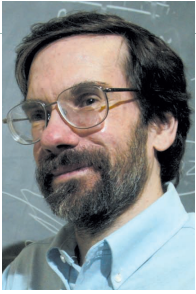
John Huelsenbeck

John Huelsenbeck is a Professor of Biology in the Division of Biological Sciences at UC San Diego. He held a Miller Postdoctoral Fellowship from 1995 to 1997. Educated at UC Berkeley (B.A. 1988) and UT Austin (Ph.D. 1995), his research is in the genetics of adaptation and phylogenetic theory. Huelsenbeck's research is widely considered to be at the forefront of statistical phylogenetics and has profoundly influenced quantitative analysis in evolutionary biology. He co-wrote a computer program, MrBayes, which incorporates Bayesian inference of phylogeny and is now widely used by systematic biologists worldwide.

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NANOS

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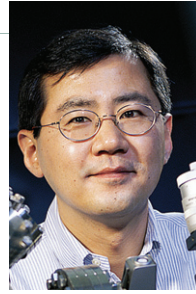
David Jablonski

David Jablonski is the William R. Kenan, Jr., Professor in the Department of the Geophysical Sciences and Chair of the Committee on Evolutionary Biology at the University of Chicago. He received his Ph.D. from Yale University in 1979, and was a Miller Fellow in 1980-1982. Dr. Jablonski's research emphasizes the combining of data from living and fossil organisms to study both the origins and the fates of lineages and adaptations. He has published more than 100 papers on the origins of evolutionary novelties in the fossil record, environmental expansion and contraction of major groups of marine invertebrates, shaping of evolutionary patterns by mass extinctions and subsequent recoveries, and evolutionary and spatial dynamics underlying the biodiversity gradient from tropics to poles today and in the past. He has received the Paleontological Society's Schuchert Award and a Simon R. Guggenheim Fellowship, and is a member of the American Academy of Arts & Sciences



Hitoshi Murayama

Hitoshi Murayama, Professor of Physics at Berkeley and Miller Professor in Spring 2006, is a theorist working on particle physics, trying to understand the fundamental constituents of matter and the forces acting among them. A Fellow of the American Physical Society, he received his Ph.D. from the University of Tokyo in 1991 and has been at Berkeley since 1993, as a postdoctoral fellow at the Lawrence Berkeley Laboratory, then as a member of the faculty since 1995. His interests take him to the most fundamental questions of science: Why are there so many "elementary" particles, repeating three generations which have identical properties except their masses? Why are there three (electromagnetic, weak and strong) forces acting on elementary particles in a seemingly random manner? Why is the Universe so long-lived and has more matter than anti-matter in it? Using these puzzling phenomena as clues to what is really going on at the most fundamental level in Nature, studying them in detail and asking what is behind the phenomena we see is the motivating approach in most of his research. He has also launched a career in expressing his excitement about physics to the wider public.



Hongkun Park

Hongkun Park of Harvard University was a Visiting Miller Professor during the 2004-05 academic year. Born and raised in Korea, in a family of many medical doctors, he chose science for his calling, coming to America to do his Ph.D. studies at Stanford, and then a postdoctoral research assistantship at Lawrence Berkeley National Laboratory before joining the Harvard faculty in 1999. One of the first to make a transistor from a single molecule, his device is so small that it wiggles when a single electron passes through it. He is now trying to modify these nano-switches to generate and detect the most elementary units of light. He is also interested in probing brain function at a molecular level by interfacing brain cells with microchips. Only 37, his research attracts international attention, earning him tenure at Harvard, and an assortment of prestigious awards including the David and Lucile Packard Foundation Fellowship for Science and Engineering in 2001 and the Alfred P. Sloan Research Fellowship in 2002.

Photo: Jim Harrison



Erin O'Shea

Erin O'Shea is an Investigator of the Howard Hughes Medical Institute, Professor of Molecular and Cellular Biology and Co-director of the Bauer Center for Genomics Research at Harvard University. O'Shea has pioneered research in signal transduction and the regulation of gene expression, using the yeast *Saccharomyces cerevisiae* as a model to explore how cells respond to changes in nutrients in their environment. O'Shea and colleagues have also developed tools that can scan an individual's entire complement of proteins and pinpoint which proteins are active and when and to what degree they are active. Recent publications in *Science*, *Genetics* and *PNAS* have explored subjects as diverse as the origins and consequences of noise in the expression of genes, and the filters within a cell that buffer external changes in the environment. Erin O'Shea is already a member of the National Academy of Sciences. She was a Miller Fellow from 1992 to 1993, leaving early for a position at UC San Francisco.

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The Miller Institute Timeline

1943

Adolph C. and Mary Sprague Miller entered into a trust with the Board of Regents to establish an institute "dedicated to the encouragement of creative thought and conduct of research and investigation in the field of pure science."

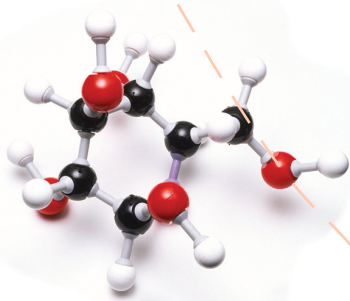


1953

Adolph Miller passes away.

1956

Mary Sprague Miller passes away. The names of the donors became public and the Institute was designated: "The Adolph C. and Mary Sprague Miller Institute for Basic Research in Science."



BIOLOGY

PHYSICS

1955

The Statement Establishing the Institute for Basic Research in Science was submitted to the Regents and was subsequently approved.



1957

Six professors were named the first Miller Research Professors:

James Carson, Jr.
CHEMISTRY

Jack Evernden
GEOLOGY &
GEOFYSICS

Daniel Mazia
ZOOLOGY

Jerzy Neyman
STATISTICS

William Nierenberg
PHYSICS

Roger Stanier
BACTERIOLOGY



CHEMISTRY

G

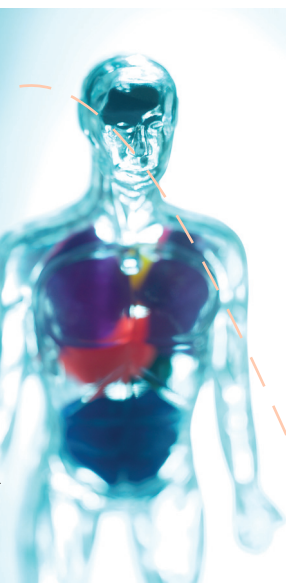
BOTANY

1958

1st Visiting Miller
Professor is named
Leopold Schmetterer
STATISTICS



STATISTICS



1960

1st Miller Fellows are
named:

John Fletcher
PHYSICS

James Kinsey
CHEMISTRY

Carl Sagan
ASTRONOMY

Dana Scott
MATHEMATICS

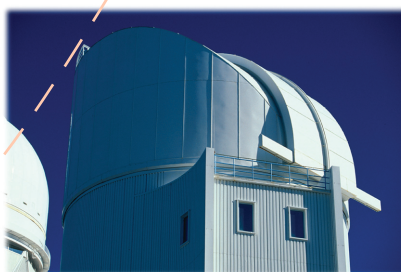
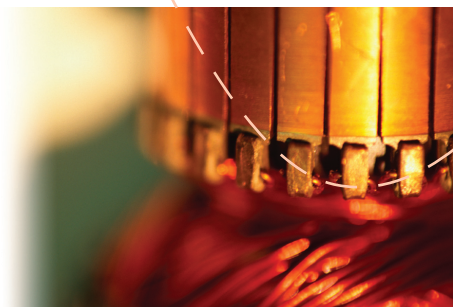
Charles Shuster
BACTERIOLOGY

Paul Whitfeld
BIOCHEMISTRY



2005

The Miller Institute
celebrates 50 years
of science.



1997

Miller Institute
establishes an
annual Interdisciplinary
Symposium

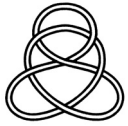
EVOLUTIONARY BIOLOGY

GLAESER, ANDREAS	MP	F	1991	HELSON, HENRY	MP	F	1964	KAPPAN, HILBERT	VMP	S	2005	LAWRENCE, PETER	VMP	S	2002
GLASER, DONALD	MP		1962-1964	HENDERSON, RICHARD	VMP	S	1993	KARDAR, MEHRAN	VMP	S	2002	LAZARUS, RICHARD	MP		1970-1971
GLICKMAN, STEPHEN	MP	F	1993	HENRY, CLARISSA	MF		2001-2004	KAROUBI, MAX	VMP	F	2003	LECAM, LUCIEN	MP		1971-1972
	MF		1962-1964	HENSLEY, PRESTON	MF		1975-1977	KARP, RICHARD	MP		1980-1981	LEE, DUNG-HAI	MP	S	1999
GLOVER, FRED	MF		1966-1967	HERMANSON, JOHN	MF		1968-1970	KASPAROV, GENNADI	VMP	S	1991	LEE, EDWARD	MP	F	1999
GOLDBETER, ALBERT	VMP	S	1989	HERRMANN, GUNTER	VMP	S	1987	KASS, ROBERT	VMP	S	2005	LEE, PATRICK	VMP	S	2003
GOLDFELD, MORRIS	MF		1969-1971	HERSCHBACH, DUDLEY	VMP	S	1997	KATCHALSKY, AHARON	VMP	F	1967	LEE, YUAN	MP		1981-1982
GOLDHABER, ALFRED	MF		1964-1966	HERSKOVITS, ANAT	MF		2003-2006		S		1968	LEHMANN, ERICH	MP		1962-1963
GOLDHABER, GERSON	MP		1958-1959	HICKMAN, CAROLE	MP	F	1994	KATO, TOSIO	MP		1966-1967		MP		1972-1973
	MP		1975-1976	HIRANO, SUSAN	VMP	S	1991	KATZ, NICHOLAS	VMP	S	1993	LEHMER, DERRICK	MP		1962-1963
	MP		1984-1985	HIRSCH, MORRIS	MP		1972-1973	KAUFFMAN, GUINEVERE	MF		1993-1994	LEINAAS, JON	VMP	F	2002
GOLDHABER, MAURICE	VMP	F	2000	HIRZEBRUCH, FRIEDRICH	VMP	S	1973	KAWAHIGASHI, YASUYUKI	MF		1991-1992	LEITMANN, GEORGE	MP		1966-1967
GOLDREICH, ODED	VMP	F	1996	HQ, PAUL	MF		1979-1981	KAWAI, TAKAHIRO	MF		1974-1976	LENSTRA JR, HENDRIK	MP	S	1994
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GOLDSTEIN, ROBERT	MF		1996-1998		MP		1968-1969	KAWARABAYASHI, YUTAKA				LESTER, MARSHA	VMP	S	2003
GOMPERTS, B D	VMP	F	1994	HODGES, JOSEPH	MP		1969-1970		VMP	F	2004	LEVANDA, CAROLE	MF		1975-1977
GORDON, RICHARD	VMP	S	2000	HOGERHEIJDE, MICHIEL	MF		1998-2001	KEAVENY, TONY	MP	F	2000	LEVIN, SIMON	VMP	S	2003
GORMAN, GEORGE	MF		1968-1971	HOGGATT, AUSTIN	MP		1960-1961	KECHRIS, ALEXANDER	VMP	F	1998	LEVINE, RAPHAEL	VMP	F	1989
GRAY, HARRY	VMP	F	1985	HOLLEY, RICHARD	MF		1969-1971	KEERS, HENK	MF		1997-1999	LEVITAN, EDWIN	VMP	F	2002
GREEN, JEREMY	MF		1992-1994	HOLM, RICHARD	VMP	F	1986	KELDYSH, LEONID	VMP	F	1997	LHEUREUX, DAVY	MF		2000-2003
GREEN, MICHAEL	VMP	F	1993	HOLMER, BRUCE	MF		1983-1985	KELLER, EDWARD	MP	F	1994	LICHT, PAUL	MP		1973-1974
GREEN, ROGER	VMP	F	1994	HOLSINGER, KENT	MF		1982-1984	KELLER, URSULA	VMP	S	2006	LICHTENBERG, ALLAN	MP		1968-1969
GREENHAM, NEIL	MF		1995-1996	HOLTON, JAMES	VMP	S	2004	KELLEY, JOHN	MF		1966-1967	LICHTSTEINER, SERGE	MF		1990-1992
GREENHILL, LINCOLN	MF		1990-1992	HOOK, JOHN	VMP	F	1986	KELLY, JAMES	MP	F	1993	LIDICKER JR, WILLIAM	MP		1967-1968
GRIFFITHS, PHILLIP	VMP	F	1975-S 1976	HOPPER, STEPHEN	VMP	S	1990	KETONEN, JUSSI	MF		1972-1974	LIND, DOUGLAS	MF		1973-1975
	MF		1962-1964	HORN, GABRIEL	VMP	S	1989	KEUNINGS, ROLAND	MF		1983-1984	LIND, STUART	MP	F	1991
GRIGOROPOULOS, COSTAS	MP	F	1999	HOSHI, MOTONORI	VMP	F	1992	KEYS, DAVID	MF		1998-2002		MP	F	2000
GRIMMEISS, HERMANN	VMP	S	1991	HOSOKAWA, KEIICHI	MF		1963-1965	KHALIL, MUNIRA	MF		2003-2006	LINSLEY, EARLE	MP		1960-1961
GRINGARTEN, ALAIN	MF		1970-1972	HOWELL, FRANCIS	MP		1974-1975	KIEFER, JACK	MP	F	1981	LIONS, PIERRE-LOUIS	VMP	S	1987
GROMOLL, DETLEF	MF		1966-1968	HOY, RONALD	VMP	S	2005	KIM, PHILIP	MP	F	1999-2001	LITTLEJOHN, ROBERT	MP	S	1992
GRUNBAUM, ALBERTO	MP		2000-2001	HRUSHOVSKI, EHUD	VMP	F	1997	KIM, SUNG-HOU	MF		1983-1984	LIU, GANG-YI	MF		1992-1994
GUPTA, SUBHADEEP	MF		2003-2006	HSIANG, WU-YI	MP		1977-1978		MP	F	1996	LLOYD, DAVID	VMP	F	1990
GURUSWAMI, VENKATESAN				HSU, CHERRI	MF		1998-2001	KING, DAVID	VMP	S	1996	LO, KWOK-YUNG	MF		1977-1978
	MF		2001-2002	HSU, CHIEH-SU	MP		1973-1974	KINGSOLVER, JOEL	MF		1981-1983	LOGAN, NORMAN	MF		1964-1965
GWINN, WILLIAM	MP		1962-1963	HUANG, JIAXING	MF		2004-2007	KINSEY, JAMES	MF		1960-1962	LOGNONNE, PHILIPPE	VMP	S	2003
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HABER, JAMES	VMP	S	2005	HUELSENBECK, JOHN	MF		1995-1997	KIRBY, ROBION	MP		1973-1974	LOSICK, RICHARD	VMP	S	2006
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	MP		1985-1986	HUNTER III, JOHN	MF		1988-1990	KIRILLOV, ALEXANDRE	VMP	S	1999		MP	F	1995
HAIDVOGEL, DALE	VMP	F	1999	HYMAN, LARRY	MF		1973-1975	KIRKPATRICK, MARK	MF		1983-1985	LOWE, CHRISTOPHER	MF		1998-2001
HAIMAN, MARK	VMP	F	2000	IAGOLNITZER, DANIEL	MF		1967-1969	KIRSCHNER, MARC	VMP	F	2001	LUE, LEO	MF		1995-1997
HALD, OLE	MP		1984-1985	IBACH, HARALD	VMP	S	1994	KIRSHNER, ROBERT	VMP	S	1994	LUK, KAM-BIU	MP	F	2001
HALL, BRIAN	VMP	S	1997	ILLINGWORTH, GARTH	MF		1975-1977	KITTEL, CHARLES	MP		1959-1961	LUMSDEN, ANDREW	VMP	F	1994
HALL, LAWRENCE	MP	F	1995	INGRAM, B LYNN	MP		2003-2004	KIVELSON, STEVEN	VMP	F	1995	LUNINE, JONATHAN	VMP	F	2001
	MF		1981-1983	INKELAS, SHARON	MF		1990-1992	KLAINERMAN, SERGIU	MF		1978-1980	LYONS, RUSSELL	VMP	S	2001
HALLER, EUGENE	MP	F	2001	ISAAC, GLYNN	MP		1972-1973	KLASS, MICHAEL	MF		1975-1976	MACARA, IAN	VMP	F	1997
	MP	F	1990	IZUMI, MASAKI	MF		1994-1996		MF		1975-1976	MACHEN, TERRY	MP	F	2002
HALPERN, MARTIN	MP	S	1999	JABLONSKI, DAVID	MF		1980-1982	KLEIN, MICHAEL	VMP	S	1997	MACHLIS, LEONARD	MP		1960-1961
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HAMMETT, GREG	VMP	F	2004	JACOBSON, RAYMOND	MF		1995-1997	KLEMPERER, WILLIAM	VMP	F	1998	MACKINTOSH, ALLAN	VMP		1989
HANDY, NICHOLAS	VMP	S	1994	JAFFE, JULES	VMP	S	2006	KLINGENBERG, WILHELM	VMP	S	1987	MADDEN, PAUL	VMP	S	2004
HANER, MARK	MF		1987-1989	JAMESON, CYNTHIA	VMP	S	2002	KLINMAN, JUDITH	MP	F	1992	MADOU, MARC	VMP	S	1996
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HARDY, JOHN	MF		1967-1969	JAYAWARDHANA, RAY	MF		2000-2002	KNIGHT, WALTER	MP		1979-1980	MAHADEVAN, LAKSHMINARAYANAN			
HARRIS, CHARLES	MP		1984-1985	JEAN, MICHEL	MF		1965-1967	KNIRK, DWAYNE	MF		1974-1976		VMP	S	2006
HARRIS, ROBERT	MP		1975-1976	JEANLOZ, RAYMOND	MP	F	1992	KOBAYASHI, SHIRO	MP		1977-1978	MAHAN, BRUCE	MP		1973-1974
HARRIS, STEPHEN	MF		1976-1977	JEFFRIES, CARSON	MP		1961-2000	KOCH, HERBERT	VMP	S	2006	MAJUMDAR, ARUNAVA	MP		2003-2004
HARRIS, MORGAN	MP		1963-1965		MP		1983-1984	KOEHL, MIMI	MP		2000-2001	MALIK, JITENDRA	MP	F	2001
HARRISON, JOHN	MF		1989-1991	JELLINEK, MARK	MF		1999-2002	KOEL, BRUCE	MF		1981-1983	MALMSTROM, BO	VMP	F	1973
HARRISON, VIRGINIA	MF		1977-1979	JENKENS, DAVID	MF		2005-2008	KOLBERT, ANDREW	MF		1992-1994		S		1974
HARTE, JOHN	MP	S	2006	JENSEN, WILLIAM	MP		1961-1962	KORENAGA, JUN	MF		2001-2002	MANGA, MICHAEL	MF		1994-1996
HARTSHORNE, ROBIN	MP		1980-1981		MP		1967-1968	KOSTANT, BERTRAM	MP		1958-1959	MANIN, YURI	VMP	F	1989
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HASUO, SHINYA	VMP	F	1993		MP	F	2004	KREBS, CHARLES	MF		1962-1964	MANTOVAN, ELENA	MF		2002-2005
HASZPRUNAR, GERHARD	VMP	F	2001	JHA, SAURABH	MF		2002-2005	KRECH, DAVID	MP		1958-1959	MAOZ, EYAL	MF		1995-1997
HAUBER, MARK	MF		2002-2005	JIA, NANCY	MF		1993-1995		MP		1965-1966	MARCUS, NEIL	MF		1984-1986
HAUSEL, TAMAS	MF		1999-2002	JIRSA, JAMES	VMP	F	2001	KUH, ERNEST	MP		1965-1966	MARCUS, PHILIP	MP		2005-2006
HAWKINS, GILBERT	MF		1973-1975	JOHNSON, LANE	MP		1973-1974	KULKARNI, SHRINIVAS	VMP	S	1995	MARG, ELWIN	MP		1967-1968
HAXTON, WICK	VMP	S	2001	JOHNSON, RONALD	MF		1978-1980	KUSTU, SYDNEY	VMP	MP	2005-2006	MARKENS COFF, XANTHIPPI			
HAY, RICHARD	MP		1962-1963	JOHNSON, BARRY	VMP	F	1999	LACEY, EILEEN	MF		1994-1996		VMP	F	2003
	MP		1969-1970	JONES, RUSSELL	MP		1975-1976	LACKENBY, MARC	MF		1997-1998	MARLETTA, MICHAEL	VMP	F	2000
HAYAKAWA, HISAO	VMP	S	1988	JONES, VAUGHAN	MP	F	1992	LADA, CHARLES	VMP	S	2001	MARLEY, ANTHONY	MF		1965-1967
HEAD-GORDON, MARTIN	MP		2001-2002	JUENGER, THOMAS	MF		1999-2002	LAITONE, EDMUND	MP	F	1960	MARSDEN, JERROLD	MP		1981-1982
HEARST, JOHN	MP		1970-1971	JUNG, YOUNG JOON	MF		2002-2005	LAM, TSIT-YUEN	MP		1978-1979	MARTIN, GAVEN	VMP	F	2002
HEATH, JAMES	MF		1988-1990	KADONAGA, JAMES	MF		1984-1986	LAND, MICHAEL	MF		1967-1969	MARTINELLI, FABIO	VMP	F	2002
HEATHCOCK, CLAYTON	MP		1982-1983	KAINDL, GUNTER	MF		1969-1971	LANDE, RUSSELL	MP		2004-2005	MARTINEZ, GERARD	VMP	S	1998
	MP	F	1992	KALLMAN, ROBERT	MF		1970-1972	LANG, SERGE	VMP	F	2004	MARTINS, JOSE LUIS	MF		1985-1987
HEDRICK, STEPHEN	VMP	F	1999	KAMBER, FRANZ	MF		1965-1967	LANGLANDS, ROBERT	MF		1964-1965	MARYNICK, DENNIS	MF		1973-1975
HEIZER, ROBERT	MP	S	1961	KANNAN, RAVINDRAN	VMP	S	1991	LARSSON, MATS	VMP	F	2001	MASCARELLO, JAMES	MF		1974-1976
	MP	F	1964	KAPLAN, DONALD	MP		1975-1976		S		2002	MASON, KEITH	MF		1977-1979
HEJNOWICZ, ZYGMUNT	VMP	S	1998	KAPLAN, ROBERT	MF		1978-1980	LAVIE, NILLI	MF		1992-1993	MATTHIAS, ECKART	MF		1963-1965
HELGESON, HAROLD	MP		1975-1976	KAPOULEAS, NICOLAOS	MF		1988-1991	LAWRANCE, WARREN	MF		1983-1985				

STANLEY, H. EUGENE MF 1968-1969
 STANLEY, RICHARD MF 1971-1973
 STARFIELD, ANTHONY VMP F 1993
 STARK, PHILIP MP S 1999
 STARKEY, JOHN MF 1963-1965
 STARKS, PHILIP MF 1999-2002
 STASKAWICZ, BRIAN MP 2002-2003
 STATLER, THOMAS MF 1986-1988
 STEARNS, STEPHEN MF 1977-1978
 STEINHARDT, RICHARD MP 1979-1980
 STERIADE, DONCA VMP F 1999
 STERN, CURT MP 1961-1962
 STIRTON, RUBEN MP 1958-1959
 STISHOV, SERGEI VMP F 1992
 STIXRUDE, LARS VMP S 2005
 STOLPER, EDWARD VMP S 1990
 STRASSEN, VOLKER VMP F 1971
 S 1972
 STREITWEISER JR., ANDREW MP 1964-1965
 MP 1979-1980
 STURMFELS, BERND MP 2000-2001
 SUAREZ, ANDREW MF 2001-2003
 SULLIVAN, DENNIS MF 1967-1968
 SULLOWAY, FRANK VMP F 1999
 MF 1978-1980
 SUMMERS, ADAM MF 1999-2001
 SUTO, YASUSHI MF 1986-1988
 TALAGRAND, MICHEL VMP S 1996
 TALBOT, LAWRENCE MP 1960-1961
 TALROZE, RAISA VMP F 1999
 TANIHATA, ISAO MF 1976-1978
 TARDOS, EVA VMP F 1999
 TARJAN, ROBERT MF 1973-1975
 TARSKI, ALFRED MP 1958-1960
 TAUB, ABRAHAM MP 1968-1969
 TAYLOR, JEAN VMP S 1999
 TAYLOR, JOHN MP F 1999
 TAYLOR, RICHARD VMP S 1999
 TEAKLE, DAVID MF 1962-1963
 TEICHNER, PETER MF 1996-1997
 THOMAS, EMERY MP 1966-1967
 THOMAS, GARETH MP 1964-1965
 THOMPSON, ALEX MF 2003-2006
 THOMSON, GLENYS MP S 1996
 THORN III, CHARLES VMP F 2001
 THORNER, JEREMY MP 1984-1985
 MP 1999-2000
 TIELENS, ALEXANDER VMP F 2002
 TIEN, CHANG-LIN MP 1967-1968
 TILLEY, DON MP 2004-2005
 TINKHAM, MICHAEL MP 1960-1961
 VMP S 1987
 TINOCO JR, IGNACIO MP 1963-1964
 TOBIAS, CHARLES MP 1959-1960
 TODORCEVIC, STEVO MF 1983-1985
 TOENNIES, JAN PETER VMP F 2005
 TOLMAN, WILLIAM VMP S 1997
 TORRE, VINCENT VMP F 1988
 TOWNSEND, JEFFREY MF 2002-2005
 TRAN, HUAN MF 2002-2005
 TRILLING, GEORGE MP 1980-1981
 TRIPATHI, SUBRATA VMP F 2002
 TSONG, ANNIE MF 2005-2008
 TSUNODA, SHUICHIRO MF 1985-1987
 TSYBAKOV, ALEXANDRE VMP S 2006
 TURCHYN, ALEXANDRA MF 2005-2008
 TURELLI, MICHAEL MP S 2006
 TURNER, FRANCIS MP 1965-1967
 UHLENBECK, OLKE MF 1969-1971
 UNRUH, WILLIAM MF 1973-1974
 USINGER, ROBERT MP 1964-1965
 VALLS, ORIOL MF 1977-1978
 VAN DER AVOIRD, ADRIANUS VMP F 1992
 VAN DER KLIS, MICHIEL VMP S 1998
 VAN DER VAART, ADRIANUS VMP S 2000
 VAN DISHOCK, EWINE VMP F 2000
 VAN DUZER, THEODORE MP S 1990
 VAN HARLINGEN, DALE VMP F 2001
 VAN HOOSER, AARON MF 2001-2004
 VAN LEER, BRAM MF 1970-1972

VAN MOERBEKE, PIERRE VMP F 2005
 VAN SANTEN, RUTGER VMP F 2004
 VAN SLUYTERS, RICHARD MF 1975-1976
 VAN ZWET, WILLEM VMP S 1997
 VANDEN-EIJNDEN, ERIC VMP F 2005
 VANDERBILT, DAVID MF 1981-1983
 VARAIYA, PRAVIN MP 1978-1979
 VASSILIEV, VICTOR VMP S 1999
 VAZIRANI, UMESH MP 1999-2000
 VEMPALA, SANTOSH MF 1998-1999
 VERMEULEN, THEODORE MP 1959-1960
 VERSHIK, ANATOLY VMP S 1995
 VILLANI, CEDRIC VMP S 2004
 VOICULESCU, DAN MP 1997-1998
 VOJTA, PAUL MF 1987-1989
 VOLLHARDT, K. PETER MP 1985-1986
 VON ZELEWSKY, ALEXANDER MF 1965-1967
 VOTH, GREGORY VMP F 2003
 WACHTER, KENNETH MF 1977-1979
 WALSBY, ANTHONY MF 1971-1973
 WAMPLER, E. JOSEPH MF 1963-1965
 WANG, CHI-YUEN MP 1972-1973
 WANG, FENG MF 2005-2008
 WANG, JAMES MP 1973-1974
 WANG, YAYU MF 2004-2007
 WARD, CALVIN MF 1967-1969
 WARD, STANLEY MP F 1964
 WASHBURN, DOROTHY MF 1976-1978
 WASHBURN, JACK MP 1963-1964
 WASHBURN, SHERWOOD MP 1965-1966
 WASSERMAN, STEVEN MF 1983-1985
 WASSERMANN, ANTONY MF 1986-1988
 WATARI, TAIZAN MF 2003-2006
 WATERMAN, RORY MF 2004-2007
 WAXMAN, ELI VMP F 2004
 WEBSTER, ADRIAN MF 1971-1973
 WEINBERG, DAVID MF 1990-1991
 WEINHOLD, FRANK MF 1968-1969
 WEINSTEIN, ALAN MP 1981-1982
 MP 1997-1998
 WEISS, DAVID MP 1966-1967
 WEISS, LIONEL MP 1965-1967
 WELCH, WILLIAM MP 1999-2000
 WEMMER, DAVID MP F 1998
 WENK, HANS-RUDOLPH MP 1971-1972
 WERBLIN, FRANK MP 1976-1977
 WERES, OLEH MF 1972-1974
 WESS, JULIUS VMP S 1986
 WEST, JOHN MP 1976-1977
 WESTHEIMER, GERALD MP 1975-1976
 WHALEN, MOLLY MF 1980-1982
 WHALEY, BIRGITTA MP 2002-2003
 WHINNERY, JOHN MP 1973-1974
 WHITFIELD, PAUL MF 1960-1962
 WILLSON, CLYDE MF 1967-1969
 WILSON, MARK MF 1989-1991
 WILT, FRED MP 1968-1969
 MP 1985-1986
 WINTERHALTER, DAVID MF 1965-1967
 WITKIN, EVELYN VMP S 1989
 WOFSY, LEON MP 1977-1978
 WOLCZANSKI, PETER VMP S 1995
 WOLF, JOSEPH MP 1972-1973
 MP 1983-1984
 WOLF, FRANTISEK MP 1963-1964
 WOLFENSTEIN, LINCOLN VMP S 1999
 WOLPERT, LEWIS VMP F 1992
 WONG, EUGENE MP 1983-1984
 WOODIN, HUGH MP 1997-1998
 WOOTTON, J. TIM MF 1990-1992
 WORTIS, MICHAEL MF 1962-1964
 WU, HUNG-HSI MP 1977-1978
 WUTHRICH, KURT VMP F 1988
 WYDER, PETER VMP S 2000
 MF 1965-1966
 YAMAZAKI, TOSHIMITSU MF 1964-1966
 YAO, ANDREW VMP S 1999
 YARWOOD, CECIL MP 1963-1964
 YU, BIN MP S 2004
 YU, PETER MP F 1990
 ZACH, MICHAEL MF 2002-2005
 ZAMBRYSKI, PATRICIA MP 2004-2005

ZATMAN, STEPHEN MF 1998-2001
 ZEMVA, BORIS VMP S 1993
 ZETTL, ALEX MP F 1995
 ZHANG, ZHI-LI VMP F 2004
 ZHAO, ERMI VMP S 1991
 ZIEGLER, GUNTER VMP S 2001
 ZIEGLER, MARCO MF 1998-2000
 ZILLICH, ROBERT MF 2001-2004
 ZUCKER, ROBERT MP S 1999
 ZUMINO, BRUNO MP F 1989



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