

Witnesses to who testified at Hearings Conducted by the Science Committee of the Kansas State Board of Education on May 5, 6, and 7, 2005

Mustafa Akyol, M.S. is a Columnist in a Turkish daily newspaper (*Referans*), freelance writer in the U.S. media, and Director of International Relations at the Intercultural Dialogue Platform, headquartered in Istanbul, Turkey. He was educated in Political Science and International Relations at the Bogazici (Bosphorus) University of Istanbul.

Mr. Akyol also writes extensively on Islam and he argues against Islamic extremism and terrorism from a Muslim point of view. Some of his articles have recently appeared on American or international publications like *The Weekly Standard*, *The Washington Times*, *The American Enterprise*, *National Review*, *Frontpage Magazine* and *IslamOnline*. He is currently working on a book titled *An Islamic Case for Liberty*, which he plans to have published in 2006.

From 1996 to 2003, Mr. Akyol was a fellow at the Science Research Foundation (SRF), the main champion of the Intelligent Design (ID) cause in Turkey. He has spoken at more than 30 conferences across Turkey and in Europe about intelligent design, materialism, Darwinism, Islamic history and ethics.

James A. Barham, M.A. was born in Dallas, Texas, and trained in Classics at the University of Texas at Austin and in the History of Science at Harvard University. He also pursued advanced study towards the Ph.D. degree under the auspices of Harvard University in Athens, Greece, and Belgrade, Yugoslavia. He then worked for about 20 years as an independent scholar, publishing some dozen articles on evolutionary epistemology, the philosophy of mind, and the foundations of biology in a variety of print and electronic journals, including *BioSystems*, *Evolution and Cognition*, *Rivista di Biologia*, and *Metanexus.com*. His work consists of a critique of the mechanistic and Darwinian images of life and mind, as well as an exploration of alternative means of understanding value, purpose, and meaning as objectively real, natural phenomena. He reentered graduate school in 2003, and is currently a Ph.D. candidate in the History and Philosophy of Science Program at the University of Notre Dame.

Michael J. Behe, Ph.D. grew up in Harrisburg, Pennsylvania. He did his graduate studies in biochemistry at the University of Pennsylvania and was awarded the Ph.D. for his dissertation research on sickle-cell disease. Subsequently, he did postdoctoral work on DNA structure at the National Institutes of Health. He served as Assistant Professor of Chemistry at Queens College in New York City, where he met his wife. In 1985 he moved to Lehigh University where he is currently Professor of Biochemistry. He has also served as Visiting Professor at both the City University of New York, Queens College and at the Pennsylvania State University, Hershey Medical Center. In his career he has authored over 40 technical papers and one book, *Darwin's Black Box: The Biochemical Challenge to Evolution*, which argues that living system at the molecular level are best explained as being the result of deliberate intelligent design. *Darwin's Black Box* has been reviewed by the *New York Times*, *Nature*, *Philosophy of Science*, *Christianity Today*, and over one hundred other periodicals.

Jill E. Gonzalez Bravo, M.S. grew up in Topeka, Kansas. She did her undergraduate studies in education at Kansas State University. After a two-year service in the United States Peace Corps, she received a Peace Corps Fellowship to attend Wichita State University. While pursuing her Masters in Curriculum Instruction, with an emphasis in Science and Technology, she taught at an alternative school for students that were unsuccessful in the mainstream school setting. She has written several successful grant initiatives and participated in professional presentations locally. After marrying, she took a position in Rose Hill, Kansas as an 8th grade teacher. While there, she has served on the science curriculum alignment and text book adoption committee and has assisted in the development of curriculum maps for science content.

Nancy Bryson, PhD did her undergraduate work in Biology at Mississippi University for Women and earned her Ph.D. in Physical Chemistry from the University of South Carolina. Her entire career has been devoted to teaching chemistry at the college level. She has received several teaching awards, one of which amounts to faculty-member-of-the-year award at a 3000 + -sized university. Since the early 1990's, she has had a very strong interest in the theory of evolution. As a chemist, she feels strongly that none of the origin-of-life scenarios (molecules-to-biomolecules-to-first cell) hold up to scrutiny.

In February 2003 she made a presentation on the MUW campus entitled *Critical Thinking on Evolution*. The talk presented evidence marshaled by scientists, philosophers of science, mathematicians, law professors, and geologists that evolution is by no means a fact. It was well received; roughly 15-20 people (mostly students) warmly thanked her after the presentation. However, immediately following the talk she was verbally attacked by one professor of biology who read a prepared statement (apparently written out before he heard the talk). The following morning, several (or so she was told) professors of math and science complained to the Vice President of Academic Affairs about the talk. The next day, the VPAA informed her that she would not be retained as Division Head of the Dept of Science and Mathematics the next year, and suggested that she might be dismissed altogether (from her tenure-track appointment).

John Calvert, J.D. received a B.A. in geology from the University of Missouri in Columbia. After serving in the U.S. Army, he returned to receive the J.D. degree, also from the U of M in Columbia. He served for 32 years with Lathrop & Gage LC, a large regional Midwestern law firm until retiring in 2001 to work full time in the area of origins science education. As a former Chairman of the Lathrop & Gage Corporate Department, he focused on Corporate Finance, Mergers and Acquisitions, Securities and Corporate Litigation, and Corporate Governance. During his practiced he managed a number of legal engagements involving geology with respect to investments in the mining and oil and gas ventures. In 2001 his focused switched to Constitutional Law, primarily in the area of public education regarding origins.

Mr. Calvert is a co-founder and a managing director of Intelligent Design Network, Inc., a non-profit organization that seeks institutional objectivity in origins science. Since 1999, Mr. Calvert has advised school teachers, school administrators, state and local boards of education, state legislative bodies and public officials as to constitutionally appropriate ways to teach origins science in public schools. He is the author of a number of legal opinions and memoranda that have been furnished to a variety of public entities

and has written and lectured at a number of public events and venues regarding this issue. He is a graduate of the Litigation Academy of the Alliance Defense Fund and is a member of the Honor Guard of that organization. He is a co-author of *Teaching Origins in Public Schools* (IDnet 2001); *Intelligent Design, the Scientific Alternative to Evolution* (National Catholic Bioethics Quarterly, Vol 3, No. 3, Autumn 2003); and *The Rule: A one-act play about the trial of a biology teacher* (IDnet 2003).

Russell W. Carlson, Ph.D. did his undergraduate work at North Park College in Chicago, IL. After serving four years in the United States Navy, he resumed his studies, receiving his Ph.D in Biochemistry from the University of Colorado at Boulder. He then performed two years of post-doctoral research at the University of Colorado. Dr. Carlson served as Professor with the Chemistry Department at Eastern Illinois University in Charleston, IL. In 1988 Dr. Carlson became a member of the Complex Carbohydrate Research Center at the University of Georgia in Athens, GA where he currently serves as Technical Director, Professor of Biochemistry & Molecular Biology, and Adjunct Professor of Microbiology.

Roger DeHart, B.S. has taught biology at the high school level for 28 years, with 20 of those years being in public schools. Mr. DeHart taught intelligent design for about 10 years without receiving any complaints. After a complaint was filed, he was not only forbidden from teaching ID he was also forbidden from teaching any criticisms of Darwinism and was told to teach just the textbook. He was then reassigned from biology to earth science.

This happened in two school districts in the state of Washington. He currently teaches honors and AP biology at Oakes Christian High School, a college preparatory high school outside of Los Angeles. Mr. DeHart is the author of *Icons of Evolution- A Study Guide*, Coldwater Media

Robert DiSilvestro, Ph.D. currently serves as a Professor of Nutrition at Ohio State University. He received his Ph.D. in Biochemistry from Texas A&M in 1982 and his B.S. in Biochemistry from Purdue University in 1975. He is a member of several scientific societies including, the American Institute of Nutrition and the Society for Experimental Biology & Medicine.

Much sought after as a speaker, he was the invited speaker for National Institute of Health workshop on the current state of zinc research. He spoke at the Functional Food Symposium 2000 annual meeting of the Institute of Food Technology. Dr. DiSilvestro also participated as a speaker at Nutracon, 1998-2000.

Daniel L. Ely, Ph.D. holds a Ph.D. in Physiology from the University of Southern California, School of Medicine. He has also performed post-doctoral studies at the National Institutes of Health. Since 1976, he has been Professor of Biology at the University of Akron in Ohio. His research team is the first to identify a gene on the Y chromosome that raises blood pressure. The team is currently studying how the gene product influences an enzyme that can raise blood pressure. Prof. Ely has received 31 grants, primarily from the American Heart Association and the Nat'l Institutes of Health,

and has also served as a Grant Reviewer. In the past ten years, he has presented twelve Invited Lectures at universities or conferences in the United States, Sweden, and Brazil.

William S. Harris, Ph.D. is a native of Kansas City and attended Shawnee Mission East High School. He obtained an undergraduate degree in chemistry from Hanover College in Hanover, Indiana, and a PhD in Nutritional Biochemistry from the University of Minnesota. He did postdoctoral fellowships in Clinical Nutrition and Lipid Metabolism at the Oregon Health Sciences University, and then moved to Kansas University Medical Center where he became Director of the Lipid Research Laboratory. In 1996 he became the first recipient of the Daniel J. Lauer /Missouri Chair in Metabolism and Vascular Research at the Mid America Heart Institute of Saint Luke's Hospital in Kansas City. He currently is Co-director of the Lipid and Diabetes Research Center at Saint Luke's and Professor of Medicine at UMKC School of Medicine.

Dr. Harris's research has focused primarily on the effects of drugs and nutrients on lipid metabolism in humans. However, his specialty is fish oils (omega-3 fatty acids) and cardiovascular disease, a field in which he has gained an international standing. He was the developer of the Omega-3 Index, a new blood test to assess cardiovascular risk. Dr. Harris has been the Principal Investigator on two previous NIH-funded grants, and is the currently examining the effects of niacin and fish oils on lipid metabolism in patients with the "metabolic syndrome" with funding from the National Institutes of Health.

Dr. Harris is a Managing Director of Intelligent Design network, inc., is a member of the Kansas Science Writing Committee and an author of the Proposed Revisions to the Kansas Science Standards.

Bryan Leonard, MS. earned a B.S. in Biology Education, and an M.S. in Microbiology. Mr. Leonard has years of laboratory research experience and was a co-author of many peer reviewed publications. Currently, Mr. Leonard is a high school biology teacher and has been serving in this capacity for nine years. He is also a Ph.D. candidate in Science Education with a research interest in the area of evolution education in high school biology classes. He was selected to serve on the Science Model Curricula writing team in 2003 – 04. While serving in this capacity, he was a part of the committee that generated the lesson entitled "Critical Analysis of Evolution."

Angus J. L. Menuge, Ph.D. is Professor of Philosophy at Concordia University Wisconsin and Associate Director of the Cranach Institute(www.cranach.org). He received his BA in philosophy (Class 1) from the University of Warwick, England and his MA and Ph.D. (both on action explanation) from the University of Wisconsin-Madison. Dr. Menuge is the author of *Agents Under Fire: Materialism and the Rationality of Science* (Rowman and Littlefield, 2004) and editor of three books, including *Reading God's World: The Vocation of Scientist* (Concordia Publishing House, 2004). He assisted the editors William Dembski and Michael Ruse in the preparation of *Debating Design: From Darwin to DNA* (Cambridge University Press, 2004), a book which grew out of the *Design and its Critics* conference he helped organize at Concordia

University Wisconsin in 2000. Dr. Menuge has written articles on philosophy of mind, Intelligent Design, science and religion and Christianity and culture. Born in England, Dr. Menuge became an American citizen in February, 2005.

Stephen C. Meyer, Ph.D. is nationally recognized for his work on the scientific, philosophical, educational and legal aspects of the biological origins controversy. Dr. Meyer is currently Director and Senior Fellow of the Center for Science and Culture at the Discovery Institute in Seattle, Washington. Dr. Meyer earned his doctorate in the History and Philosophy of Science from Cambridge University for a dissertation on the history of origin of life biology and the methodology of the historical sciences. After earning his doctorate, Dr. Meyer served as Associate Professor of Philosophy at Whitworth College in Spokane, Washington. Subsequent to his undergraduate degrees, Dr. Meyer worked with Atlantic Richfield Co.

He has recently written or edited two books: *Darwinism, Design, and Public Education* plus *Science and Evidence of Design in the Universe*. Dr. Meyer has also written many technical articles and editorials for magazines and newspapers. His testimony before the Ohio State Board of Education helped influence adoption of a provision in the state standards that requires students to learn how to “critically analyze key aspects of evolutionary theory.”

John M. Millam, Ph.D. has been interested in science since at least high school, where he took as many science classes as he could. In college, he earned a Bachelor’s Degree in both chemistry and physics at the University of Arizona. He combined both of these interests by working on a Ph.D. in computational chemistry from Rice University. His doctoral thesis was on using sparse matrix techniques to allow standard quantum chemistry models to be applied to much larger molecules than was previously possible. Additional post-doctoral work was done at Wayne State University developing programs for simulating molecular dynamics of chemical systems. Today, Dr. Millam works for a software company called Semichem and continues to develop computational chemistry software that can be used by chemists, biochemists, pharmaceutical companies, and material scientists.

In addition to his professional interests, Dr. Millam is interested in showing how theology and philosophy are the ally of science rather than the enemy. As a “scientist to the layman,” he is interested in communicating the findings of science in a way that is understandable to the ordinary person and how this integrates with philosophy and theology. This includes writing numerous electronic articles and giving public presentations on science, theology, and philosophy. Of particular recent interest is learning how theology historically gave birth to modern science and understanding the philosophy of science.

Warren A. Nord, Ph.D. did his undergraduate work at the University of Minnesota, served in the U.S. Army, and then resumed his studies, receiving his Ph.D. from the

University of North Carolina at Chapel Hill -- both degrees in philosophy. From 1979 to 2004 he was Director of the Program in the Humanities and Human Values at UNC-Chapel Hill. He continues to teach the philosophy of religion and the philosophy of education in the Philosophy Department. While he was director of the Program in the Humanities and Human Values it sponsored over 700 seminars, workshops, and conferences, attended by more than 40,000 participants.

Dr. Nord has written more than thirty book chapters and articles in professional and scholarly journals, primarily on religion and education, and two books: *Religion and American Education: Rethinking a National Dilemma* (University of North Carolina Press, 1995), the most comprehensive study of religion in secondary and higher education published in the last fifty years, and [with Charles C. Haynes] *Taking Religion Seriously Across the Curriculum* (ASCD Press, 1998) a handbook for teachers on how to deal with religion in the public school curriculum. In both books, his aim was to chart a middle course in our culture wars, one that takes religion seriously, but in a constitutionally permissible and educationally sound way, and addressed the role of science courses within liberal education (particularly evolution, religion and Intelligent Design theory).

Edward T. Peltzer, Ph.D. is an ocean chemist, currently employed as a Senior Research Specialist at the Monterey Bay Aquarium Research Institute. His research interests include the geochemistry of carbon dioxide in the ocean and the development of new analytical techniques for the study of natural and synthetic clathrate hydrates. He earned a Ph. D. in Oceanography from Scripps Institution of Oceanography at the University of California, San Diego in 1979. While a graduate student with Drs. Jeffrey Bada and Stanley Miller, he was the first to identify the presence of extra-terrestrial hydroxy and dicarboxylic acids in the Murchison meteorite.

Dr. Peltzer worked as a Research Specialist at the Woods Hole Oceanographic Institution for almost 20 years. He developed new techniques for measuring plant waxes and lipids in aerosols and studied the long-range transport of terrestrial organic matter in the atmosphere. Subsequently, he investigated the role of dissolved organic matter in the global ocean carbon cycle and collaborated in the development of a new technique for the measurement of dissolved organic carbon in seawater. Dr. Peltzer has participated in numerous scientific research cruises in the Atlantic, Pacific, and Indian oceans from the Arctic to the Ross Sea, Antarctica.

John C. Sanford, Ph.D. is Courtesy Associate Professor of Horticultural Sciences at Cornell University. He holds a Ph.D. in Plant Breeding/Plant Genetics from the University of Wisconsin in Madison. The main thrust of his research has been to work at the interface between molecular genetics and plant breeding, for the purpose of crop improvement. His central research objectives have involved a) applying transformation technologies to horticultural crops, and b) studying new methods for the transfer of high molecular weight DNA into plants. Dr. Sanford has over seventy publications and holds 27 patents.

Ralph Seelke, Ph.D. received his undergraduate education at Clemson University. He then spent two years in the Army on active duty as a tank platoon leader. In 1977 he married a Minnesotan, and went to graduate school at the University of Minnesota and

the Mayo Graduate School of Medicine, finishing his work for a Ph.D. in Microbiology in 1981. He stayed at Mayo doing postgraduate work until 1983, and has been a professor at various places since then and at the University of Wisconsin in Superior since 1989. He has an ongoing interest in Christian apologetics, and is convinced that Christianity is not only true, but that it is perhaps the only way of viewing the world that allows both meaning and rationality in life.

Since 2000, Dr. Seelke's research interest has been in experimental evolution. His work in that area has been supported by the Merck Foundation/AAAS Undergraduate Science Research Program, which has supported the undergraduate research of over 10 students at UW-Superior. In 2004, he was a Visiting Scholar in the Department of Microbiology and Immunology at the Stanford University Medical School (laboratory of Dr. A. C. Matin), conducting research to further our understanding of evolution. His work has resulted in seven presentations at regional or national scientific meetings since 2001 on the capabilities and limitations of evolution in producing new functions in bacteria. He is a co-author on eight publications in such journals as *Proceedings of the National Academy of Science*, *Journal of Bacteriology*, and *Molecular and General Genetics* and has also contributed to four book chapters.

Giuseppe Sermonti, Ph.D. born in Rome, was appointed as Full Professor of Genetics at the University of Palermo in 1965, and at the University of Perugia in 1970. He is presently the retired Professor of Genetics at the University of Perugia. He discovered genetic recombination in antibiotic-producing *Penicillium* and *Streptomyces* and he presided over the *Associazione Genetica Italiana* in 1970-1971. In 1978 he served as Vice-President of the *XIV International Congress of Genetics* in Moscow; and he was an organizer of the *Working Group on the Genetics of Industrial Organisms*, the International Committee of which he chaired from 1979 to 1988.

In 1987, Prof. Sermonti helped to found the Osaka Group for the Study of Dynamic Structure in Japan. Today, he is considered the leading critic of neo-Darwinism in Italy.

Since 1979, Prof. Sermonti has been Chief Editor of *Rivista di Biologia/Biology Forum* (Genoa) founded in Perugia in 1919. *Rivista di Biologia* is one of the oldest extant biology journals in the world. It publishes research and essays in theoretical biology, in the broadest sense, from all biological disciplines – including evolution, development, genetics, biophysics and the history of biology.

Bruce M. Simat, Ph.D. is Associate Professor of Biology at Northwestern College in St. Paul, Minnesota. He earned his Ph.D. in 1983 from the Dept. of Physiology at the University of Minnesota; his dissertation research investigated how thyroid and growth hormones influence the regulation of messenger RNA production in the liver. He performed postdoctoral research in the flexibility of therapeutic drugs that were molecularly modified to reduce their toxic side effects, but retain their therapeutic value. He has contributed ten papers to the scientific literature.

After earning his doctorate, he worked for two medical diagnostics companies, Sanofi Diagnostics Pasteur in Minneapolis, MN, and Abbott Laboratories in Chicago, IL, holding a variety of positions that centered around the invention and development of novel biomolecules for diagnostic blood tests. For the past eleven years he has taught

courses at Northwestern College including: Genetics, Developmental Biology, Immunology, Animal Biology, Cell Biology, Biochemistry, and Human Physiology.

Charles Thaxton, Ph.D. holds his doctorate in Physical Chemistry from Iowa State University. He completed two post-doctoral programs, one in history of science at Harvard University and the second in the molecular biology laboratories of Brandeis University. He has specialized in the origin of life and in selected topics in the history of science, especially the origin of modern science. He is a Fellow of the American Institute of Chemists and of the American Scientific Affiliation, and a member of American Association for the Advancement of Science, American Chemical Society, and the International Society for the Study of the Origin of Life.

He is co-author of *The Mystery of Life's Origin* and also *The Soul of Science*. He is academic editor of the high school biology book *Of Pandas and People*. He has contributed significant chapters to the books *God and Culture*, *The Creation Hypothesis*, and *Finding God at Harvard*. He published numerous technical articles and has lectured widely in American universities, and at the Korean Advanced Institute of Science, the Russian Academy of Science, and in various universities in Romania, Poland, Hungary, and Czechoslovakia. He is president of Konos Connection, a non-profit educational organization.

Jonathan Wells, Ph.D. is a Senior Fellow at the Center for Science & Culture at the Discovery Institute. He has received two Ph.D.s, one in Molecular and Cell Biology from the University of California at Berkeley, and one in Religious Studies from Yale University. Subsequently, he has performed postdoctoral research at UC Berkeley. He worked as the supervisor of Northbay Medical Center in Fairfield, CA (near Sacramento). He has also taught biology at California State University at Hayward. He currently lives with his wife and two children near Seattle.

He is probably best-known as the author of two books:

- ? *Charles Hodge's Critique of Darwinism* (Edwin Mellen Press, 1988)
- ? *Icons of Evolution: Why much of what we teach about evolution is wrong* (Regnery Publishing, 2000)