



edited by Edward W. Lempinen

SCIENCE AND SOCIETY

AAAS Fighting to Defend the Integrity of Science Education

With evolution on trial in Pennsylvania and under renewed attack by the Kansas State Board of Education, AAAS has stepped up its high-profile campaign to protect the integrity of science education by defending the scientific underpinnings of evolution and making clear that science and religion should not be pitted against each other.

In a series of interviews, press briefings, and op-ed commentaries, AAAS Chief Executive Officer Alan I. Leshner and other AAAS officials have stressed that most religious leaders accept evolution and that many scientists are religious. But, they said, leaders of the intelligent design movement who claim scientific motives are actually trying to undermine science—at significant risk to U.S. students.

The world's religions "bring great value to many people's lives," said AAAS President Gilbert S. Omenn. But "they do not prepare students for a world in which math, science, and empirically tested evidence are essential" for advancing human health, security, and economic progress.

"We have a well-established tradition of

separation of church and state," Omenn said. "Forcing creationism or its slightly modernized incarnation as 'intelligent design' into the schools, let alone the science classroom, violates this basic tenet of American society. As many clergy vigorously agree, let's encourage children and adults to practice their religion in their places of worship and their homes, and protect the precious time that children have in school."

The controversy over teaching evolution in public school science classes has been a recurring part of American culture—and a continuing interest of AAAS. In the 1920s, AAAS supported the teaching of evolution and raised money to help defend Tennessee biology teacher John Scopes. Throughout the past decade, AAAS's Dialogue on Science, Ethics, and Religion (DoSER) has produced conferences and books on the issue.

The controversy has been building again in recent years, with anti-evolution efforts in more than 20 states. But two events this year have pushed it into national headlines.



With intelligent design on trial in Pennsylvania, the *York (Pennsylvania) Dispatch* published a column by AAAS CEO Alan I. Leshner.

A trial began last month in U.S. District Court in Harrisburg, Pennsylvania, featuring eight families who sued the Dover Area School District for requiring 9th-grade biology students to hear a statement that questions evolution and promotes intelligent design (ID).

In the weeks leading up to the trial, Leshner was a guest on ABC's *World News Tonight*, *NBC Nightly News*, MSNBC-TV and National Public Radio. After a teleconference, Leshner and Eugenie Scott, executive director of the National Center for Science Education, were cited by the *Washington Post*, the *Philadelphia Inquirer*, China's Xinhua news agency, and others.

He also was quoted by *New York Times Magazine* columnist William Safire. "Whether or not there is or was an intelligent designer is not a scientific question," he told Safire. "It's not an alternative to evolution. What they are trying to do is get religion in the science classroom."

As the trial began, a column written by Leshner was published in the *York (Pennsylvania) Dispatch*, a leading daily newspaper in the Dover area. "Despite their professed devotion to science, ID advocates have published nothing in mainstream, peer-reviewed journals," he wrote. "Their allies in the sciences are few, and mostly fringe players.... Finding a few scientists who endorse a belief does not make it science." A similar column was published in three other Pennsylvania newspapers: the *Allentown Morning Call*, the *Scranton Times*, and the *Harrisburg Patriot-News*.

Albert H. Teich, AAAS head of Science and Policy Programs, defended the teaching of evolution in an August appearance on CNN. DoSER Director Connie Bertka told the *Philadelphia Inquirer* that the controversy would not end with the trial. "This will continue to be a problem until, as a society,

AAAS GOVERNANCE

Council Reminder

The next meeting of the AAAS Council will take place during the Annual Meeting and will begin at 9:00 a.m. on Sunday, 19 February 2006 in the Landmark Ballroom of the Renaissance Grand Hotel in St. Louis, Missouri. Individuals or organizations wishing to present proposals or resolutions for possible consideration by the Council should submit them in written form to AAAS Chief Executive Officer Alan Leshner by 15 November 2005. This will allow time for them to be considered by the Committee on Council Affairs at their fall meeting.

Items should be consistent with AAAS's objectives and be appropriate for consideration by the Council. Resolutions should be in the traditional format, beginning with "Whereas" statements and ending with "Therefore be it resolved."

Late proposals or resolutions delivered to the AAAS Chief Executive Officer in advance of the February 2006 Open Hearing of the Committee on Council Affairs will be considered, provided that they deal with urgent matters and are accompanied by a written explanation of why they were not submitted by the November deadline. The Committee on Council Affairs will hold its open hearing at 2:30 p.m. on 18 February 2006 in the Portland/ Benton Rooms of the Renaissance Grand Hotel.

Summaries of the Council meeting agenda will be available during the annual meeting at both the AAAS Information Desk and in the AAAS Headquarters office. A copy of the full agenda will also be available for inspection in the Headquarters Office.

AAAS NEWS AND NOTES

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we come to grips with it," she said.

In Kansas, meanwhile, AAAS Fellow John Staver went before the Board of Education on 13 September to complain of "inaccurate" and "misleading" information in the board's proposed new science standards. The standards redefine science, he said, so that science might allow for supernatural explanations of the natural world.

The prevailing definition is "one of the primary reasons that science has been fruitful in producing useful knowledge," said Staver, director of the Center for Science Education at Kansas State University.

"We are pleased that AAAS is being proactive and vocal on important and divisive issues, including the teaching of evolution," said Gerry Wheeler, executive director of the National Science Teachers Association. "AAAS's ability to translate complex scientific concepts for the general public will help ensure that pseudo-science and other nonscientific ideas do not become a part of science instruction."

2006 ANNUAL MEETING

Grand Challenges, Great Opportunities

From sustainability to the future of mathematics, from video games to the frontiers of space, the 2006 AAAS Annual Meeting will deliver more cutting-edge science and technology than any conference of its kind in the world.

Under the banner of "Grand Challenges, Great Opportunities," the meeting is expected to bring thousands of scientists, students, teachers and families to St. Louis, Missouri, from 16 to 20 February, 2006.

Among the highlights:

A nanotechnology seminar will examine promising applications, potential health risks, and broad societal implications.

Family Science Days will feature hands-on workshops and demonstrations to educate and entertain. Last year, they drew nearly 3,000 children and family members.

"Physics and Economics of Virtual Worlds" will examine the video game industry, a cultural and economic force.

The "AAAS Evolution Event for St. Louis-Area Teachers" will expand the dialogue on teaching evolution in U.S. public schools.

"Beyond Pi: Grand Challenges in the Mathematical Sciences" is a daylong event that should have broad multidisciplinary appeal.

Altogether, there will be more than 200 symposia, lectures, seminars, and other sessions. For more about the program and registration, see www.aaasmeeting.org.

AAAS Members Elected as Fellows

In September, the AAAS Council elected 376 members as Fellows of AAAS. These individuals will be recognized for their contributions to science at the Fellows Forum to be held on 18 February 2006 during the AAAS Annual Meeting in St. Louis. The new Fellows will receive a certificate and a blue and gold rosette pin as a symbol of their distinguished accomplishments. Presented by section affiliation, they are:

Agriculture, Food, and Renewable Resources

Jose M. Amador, Texas A&M Research and Extension Center, Weslaco • Alan B. Bennett, Univ. of California, Davis • Peter Bretting, USDA-ARS, Beltsville, MD • Bruce C. Campbell, USDA-ARS Western Regional Research Center, Albany, CA • Kenneth G. Cassman, Univ. of Nebraska, Lincoln • Gebisa Ejeta, Purdue Univ. • Charles A. Francis, Univ. of Nebraska, Lincoln • Scot H. Hulbert, Kansas State Univ. • William K. Lauenroth, Colorado State Univ. • Hei Leung, International Rice Research Institute, Manila • Na-Sheng Lin, Academia Sinica, Taiwan • Richard H. Loeppert, Texas A&M Univ. • Timothy D. Paine, Univ. of California, Riverside • Pedro A. Sanchez, Earth Institute at Columbia Univ. • Lawrence B. Schook, Univ. of Illinois Urbana • Jei-Fu Shaw, Academia Sinica, Taiwan

Anthropology

Stephen J. Beckerman, Pennsylvania State Univ. • Russell L. Ciochon, Univ. of Iowa • Gary M. Feinman, Field Museum, Chicago • William L. Hylander, Duke Univ. • Clifford J. Jolly, New York Univ. • William H. Kimbel, Arizona State Univ. • Jeffrey T. Laitman, Mount Sinai School of Medicine, New York City • William C. McGrew, Miami Univ. • Thomas C. Patterson, Univ. of California, Riverside • Payson D. Sheets, Univ. of Colorado, Boulder

Astronomy

Sushil K. Atreya, Univ. of Michigan, Ann Arbor • Henry C. Ferguson, Space Telescope Science Institute, Baltimore • Alan W. Harris, Space Science Institute, Boulder • David C. Jewitt, Univ. of Hawaii, Honolulu • Steven D. Kawaler, Iowa State Univ. • Eugene H. Levy, Rice Univ. • J. Michael Shull, Univ. of Colorado, Boulder • Mark Vincent Sykes, Planetary Science Institute, Tucson • Paul Robert Weissman, Jet Propulsion Lab.

Atmospheric and Hydrospheric Sciences

Francisco P. Chavez, Monterey Bay Aquarium Research Institute, Moss Landing, CA • Peter Henry Gleick, Pacific Institute for Studies in Development, Environment, and Security, Oakland, CA • Philip B. Russell, NASA Ames Research Center • Graeme L. Stephens, Colorado State Univ. • Susan E. Trumbore, Univ. of California, Irvine • Peter J. Webster, Georgia Institute of Technology • Douglas R. Worsnop, Aerodyne Research, Inc., Billerica, MA • Yuk L. Yung, California Institute of Technology

Biological Sciences

Jill P. Adler-Moore, California State Polytechnic Univ., Pomona • Michael F. Allen, Univ. of California, Riverside • Todd Alan Anderson, Texas Tech Univ. • Michael L. Arnold, Univ. of Georgia • Julia N. Bailey-Serres, Univ. of California, Riverside • Tania A. Baker, Massachusetts Institute of Technology • Barbara Gail Beckman, Tulane Univ. • Jeffrey Lynn Bennetzen, Univ. of Georgia • Nora J. Besansky, Univ. of Notre Dame • Roger K. Bretthauer, Univ. of Notre Dame • Arturo Casadevall, Albert Einstein College of Medicine • Vicki L. Chandler, Univ. of Arizona • Joanne Chory, Salk Institute for Biological Studies, La Jolla, CA • Keith Clay, Indiana Univ., Bloomington • Gloria M. Coruzzi, New York Univ. • Evan H. DeLucia, Univ. of Illinois, Urbana-Champaign • Daniel R. Gallie, Univ. of California, Riverside • Robert C. Gallo, Univ. of Maryland Biotechnology Institute • James I. Garrels, Garbrook Associates, Beverly, MA • N. Louise Glass, Univ. of California, Berkeley • Takashi Gojobori, National Institute of Genetics, Mishima, Japan • Carla B. Green, Univ. of Virginia • Joel Francis Habener, Massachusetts General Hospital, Boston • James Edward Haber, Brandeis Univ. • Benjamin D. Hall, Univ. of Washington • Joyce Libby Hamlin, Univ. of Virginia • Linda Kay Hanley-Bowdoin, North Carolina State Univ. • Jon Fewell Harrison, Arizona State Univ. • Stephen Coplan Harrison, Harvard Medical School • Alan Hastings, Univ. of California, Davis • John E. Hearst, Cerus Corp., Concord, CA • Tina M. Henkin, Ohio State Univ., Columbus • Joan Herbers, Ohio State Univ., Columbus • Daniel Herschlag, Stanford Univ. • Philip Andrew Hieter, Univ. of British Columbia • Tatsuya Hirano, Cold Spring Harbor Lab. • F. Kay Huebner, Ohio State Univ., Columbus • James H. Hunt, Univ. of Missouri, St. Louis • Richard Timothy Hunt, Clare Hall Labs., South Mimms, England • Robert D. Ivarie, Univ. of Georgia • Richard A. Jorgensen, Univ. of Arizona • Fotis C. Kafatos, EMBL, Heidelberg, Germany • Nancy Pulane Keller, Univ. of Wisconsin, Madison •

David Kowalski, Roswell Park Cancer Institute, Buffalo • Adam Kuspa, Baylor College of Medicine • Laura Landweber, Princeton Univ. • Meredith Anne Lane, Global Biodiversity Information Facility, Copenhagen • Linda L. Lasure, Pacific Northwest National Lab. • Walter S. Leal, Univ. of California, Davis • Leslie A. Leinwand, Univ. of Colorado, Boulder • Laura S. Levy, Tulane Univ. • Jim Jung-Ching Lin, Univ. of Iowa • Jonathan B. Losos, Washington Univ. • Dario Maestripreri, Univ. of Chicago • Vivek Malhotra, Univ. of California, San Diego • Richard B. Meagher, Univ. of Georgia • Synthia H. Mellon, Univ. of California, San Francisco • Sabeeha Merchant, Univ. of California, Los Angeles • Aaron P. Mitchell, Columbia Univ. • Edward J. Mullaney, USDA-ARS Southern Regional Research Center, New Orleans • Michael W. Nachman, Univ. of Arizona • Berl R. Oakley, Ohio State Univ., Columbus • Philip Osdoby, Washington Univ. • Stephen W. Pacala, Princeton Univ. • Jeffrey D. Palmer, Indiana Univ., Bloomington • Patricia G. Parker, Univ. of Missouri, St. Louis • Aristides A. N. Patrinos, U.S. Dept. of Energy, Germantown, MD • Thomas D. Petes, Univ. of North Carolina, Chapel Hill • Christoph Plass, Ohio State Univ., Columbus • Louise Prakash, Univ. of Texas Medical Branch • Satya Prakash, Univ. of Texas Medical Branch • Patricia J. Pukkila, Univ. of North Carolina, Chapel Hill • Michael D. Purugganan, North Carolina State Univ. • John Ralph, Univ. of Wisconsin, Madison • Yasuko Rikihisa, Ohio State Univ., Columbus • George D. Rose, Johns Hopkins Univ. • Fred D. Sack, Ohio State Univ., Columbus • Sandra L. Schmid, Scripps Research Institute, La Jolla, CA • Eric Ursell Selker, Univ. of Oregon, Eugene • Fred Sherman, Univ. of Rochester • David J. Sherratt, Univ. of Oxford, England • Arend Sidow, Stanford Univ. • Rama S. Singh, McMaster Univ. • Neelima Roy Sinha, Univ. of California, Davis • D. Peter Snustad, Univ. of Minnesota, St. Paul • David R. Soll, Univ. of Iowa • L. Andrew Staehelin, Univ. of Colorado, Boulder • Bruce William Stillman, Cold Spring Harbor Lab. • Douglas M. Stocco, Texas Tech Univ. • Bernard S. Strauss, Univ. of Chicago • Kevin Struhl, Harvard Medical School • Lloyd W. Sumner, Samuel Roberts Noble Foundation, Ardmore, OK • Michael R. Sussman, Univ. of Wisconsin, Madison • Edward I. Bradbridge Thompson, Univ. of Texas Medical Branch • Donald M. Waller, Univ. of Wisconsin, Madison • Xuemin Wang, Univ. of Missouri, St. Louis • Margaret Werner-Washburne, Univ. of New Mexico • Susan R. Wessler, Univ. of Georgia • James Francis White Jr., Rutgers Univ. • H. Steven Wiley, Pacific Northwest National Lab. • Huntington F. Willard, Duke

Univ. • Chun-Fang Wu, Univ. of Iowa • Zhenbiao Yang, Univ. of California, Riverside • Meng-Chao Yao, Fred Hutchinson Cancer Research Center, Seattle • JiuJiang Yu, USDA-ARS Southern Regional Research Center, New Orleans

Chemistry

Daniel J. Auerbach, Hitachi Global Storage Technologies, San Jose, CA • Carlos F. Barbas III, Scripps Research Institute, La Jolla, CA • Mary W. Baum, Princeton Univ. • Henry N. Blount, III, National Science Foundation • Joel M. Bowman, Emory Univ. • Michael S. Chapman, Florida State Univ. • David L. Clark, Los Alamos National Lab. • Dimitri Coucouvanis, Univ. of Michigan, Ann Arbor • Larry R. Dalton, Univ. of Washington • Paul Davidovits, Boston College • Dana D. Dlott, Univ. of Illinois, Urbana-Champaign • Richard Eisenberg, Univ. of Rochester • Gregory J. Exarhos, Pacific Northwest National Lab. • John T. Fourkas, Boston College • Samuel H. Gellman, Univ. of Wisconsin, Madison • Arun K. Ghosh, Univ. of Illinois, Chicago • James L. Gole, Georgia Institute of Technology • Vicki H. Grassian, Univ. of Iowa • Naomi J. Halas, Rice Univ. • Lawrence Brook Harding, Argonne National Lab. • John F. Hartwig, Yale Univ. • W. Christopher Hollinsed, DuPont Experimental Station, Wilmington, DE • Mark A. Johnson, Yale Univ. • Bruce D. Kay, Pacific Northwest National Lab. • Richard A. Keller, Los Alamos National Lab. • John W. Kozarich, Activx Biosciences Corp., La Jolla, CA • Harold H. Kung, Northwestern Univ. • Deborah E. Leckband, Univ. of Illinois, Urbana-Champaign • Timothy J. Lee, NASA Ames Research Center • James L. Leighton, Columbia Univ. • Hung-wen Liu, Univ. of Texas, Austin • Charles E. McKenna, Univ. of Southern California • Terry A. Miller, Ohio State Univ., Columbus • Tyrone D. Mitchell, National Science Foundation • Martin Moskovits, Univ. of California, Santa Barbara • Milan Mrksich, Univ. of Chicago • Amy Sue Mullin, Boston Univ. • Carlos A. Murillo, Texas A&M Univ. • Donna J. Nelson, Univ. of Oklahoma • Keith A. Nelson, Massachusetts Institute of Technology • Cheuk-Yiu Ng, Univ. of California, Davis • Mitchio Okumura, California Institute of Technology • Thomas L. Poulos, Univ. of California, Irvine • G. K. Surya Prakash, Univ. of Southern California • Peter Pulay, Univ. of Arkansas • Antonio Redondo, Los Alamos National Lab. • Dagmar Ringe, Brandeis Univ. • Celeste M. Rohlifing, National Science Foundation • Dennis R. Salahub, Univ. of Calgary • Joseph B. Schlenoff, Florida State Univ. • Ayusman Sen, Penn-

sylvania State Univ. • J. Fraser Stoddart, Univ. of California, Los Angeles • Weihong Tan, Univ. of Florida • Michael J. Therien, Univ. of Pennsylvania • Jacopo Tomasi, Univ. of Pisa, Italy • Robert Tycko, National Institutes of Health • David E. Wemmer, Univ. of California, Berkeley • John C. Wright, Univ. of Wisconsin, Madison • Xiaoliang Sunnery Xie, Harvard Univ.

Dentistry and Oral Health Sciences

Beverly A. Dale-Crunk, Univ. of Washington

Education

William W. Cobern, Western Michigan Univ. • John C. Kotz, State Univ. of New York, Oneonta • Jay B. Labov, National Research Council • Madeleine J. Long, AAAS • Robert J. Semper, Exploratorium, San Francisco

Engineering

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General Interest in Science and Engineering

Adlai J. Amor, Arlington, VA • Marta Cehelsky, InterAmerican Development Bank, Washington, DC • Kathleen M. Donovan, Univ. of Central Oklahoma, Edmond • Kendrick Frazier, Albuquerque, NM • Michael Strigel, Wisconsin Academy of Sciences, Arts and Letters, Madison

Geology and Geography

J. David R. Applegate, U.S. Geological Survey, Reston, VA • Bruce A. Bolt, Univ. of California, Berkeley (posthumous award) • William E. Doolittle, Univ. of Texas, Austin • Richard M. Forester, U.S. Geological Survey, Denver • Claude Hillaire-Marcel, Univ. of Quebec • Roger L. Kaesler, Univ. of Kansas • Erle G. Kauffman, Indiana Univ., Bloomington • Richard Marston, Kansas State Univ. • Peter Molnar, Univ. of Colorado, Boulder • Lonnie G. Thompson, Ohio State Univ., Columbus • Youxue Zhang, Univ. of Michigan, Ann Arbor

History and Philosophy of Science

William Bechtel, Univ. of California, San Diego • Ronald L. Numbers, Univ. of Wisconsin, Madison • M. Norton Wise, Univ. of California, Los Angeles

Industrial Science and Technology

Robert Boily, Inforex, Inc., Laval, Quebec • Charles L. Liotta, Georgia Institute of Technology • Steven W. Popper, RAND, Santa Monica, CA

Information, Computing, and Communication

Ashok K. Agrawala, Univ. of Maryland, College Park • Daniel M. Cotter, URS Corp., Gaithersburg, MD • James D. Foley, Georgia Institute of Technology • Eugene C. Freuder, Univ. College Cork, Ireland • Philip Green, Univ. of Washington • Joseph Y. Halpern, Cornell Univ. • Ravishankar K. Iyer, Univ. of Illinois, Urbana-Champaign • Anil K. Jain, Michigan State Univ. • Christopher R. Johnson, Univ. of Utah • Suzanna E. Lewis, Univ. of California, Berkeley • Linda R. Petzold, Univ. of California, Santa Barbara • Eric S. Roberts, Stanford Univ. • Daniel P. Siewiorek, Carnegie Mellon Univ. • Walter L. Warnick, U.S. Dept. of Energy, Germantown, MD

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Jennifer Tour Chayes, Microsoft Research, Redmond, WA • Robert M. Miura, New Jersey Institute of Technology • T. Christine Stevens, St. Louis Univ. • Robert Williams, Univ. of Texas, Austin

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Physics

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Social, Economic, and Political Sciences

Robert J. Blendon, Harvard School of Public Health • Howard Kunreuther, Univ. of Pennsylvania • Edward L. Miles, Univ. of Washington • James K. Mitchell, Rutgers Univ. • Willie Pearson, Jr., Georgia Institute of Technology • Jeffrey D. Sachs, Columbia Univ. • Paul M. Sniderman, Stanford Univ. • Richard C. Sutch, Univ. of California, Riverside

Societal Impacts of Science and Engineering

John P. Boright, National Academy of Sciences • Barry Bozeman, Georgia Institute of Technology • Bruce B. Darling, Univ. of California, Oakland • Rachel E. Levinson, Office of Science and Technology Policy • James D. Wilson, Committee on Science, U.S. House of Representatives

Statistics

Jianqing Fan, Princeton Univ. • Sallie Keller-McNulty, Los Alamos National Lab. • Sally C. Morton, RAND Corp., Santa Monica, CA • Carol K. Redmond, Univ. of Pittsburgh