

AAAS NEWS & NOTES

edited by DIANA PARSELL

Super Success for Kids' Radio

The AAAS weekly children's radio drama "Kinetic City Super Crew" won a gold medal for Best Educational Series in the annual International Radio Festival of New York. It competed against shows from Australian Radio, BBC, Canadian Broadcasting, and other production companies and networks around the world. In all, the entries totaled 1400 from 31 countries. The winners were honored 13 June in New York City.



The show, written and produced in AAAS studios, also was a finalist or medalist in two other categories: Best Drama Special Series and Best Writing.

The program follows the adventures of a young crew aboard an imaginary high-powered train that travels around the world solving science-based mysteries with the help of a talking computer. Launched in October 1994, the show is now heard on 50 stations nationwide.

Listeners can follow the show's progress on the Web at <http://www.aaas.org/ehrkcsuper.html>. It offers a synopsis of the current week's episode, a related experiment to do at home, and other information. Producer Bob Hirshon of AAAS's Education and Human Resources Director-

ate said the program is seeking funding for a greatly expanded Web site, to be called The Kinetic City Cyber Club. It would feature monthly mysteries with daily clues, science discussion groups, and voting to determine the direction of the Super Crew's investigations.

Two additional outreach initiatives, Kinetic City Classrooms and Kinetic City Super Crew Clubs, began this spring at 150 initial school and community sites. Teachers and other adults implement team-oriented, hands-on experiments based on the show's activities, while students complete and submit a "case-book."

Reports View S&T Future in Two States

California's world-class universities and overall economy and Georgia's growing high-tech industry could suffer major blows if the federal government carries out plans to slash research funding in the next several years, according to two new AAAS reports.

The reports, published by the AAAS Center for Science, Technology, and Congress, are the first in a series analyzing state and regional impacts of research and development (R&D) funding in federal budget proposals. They follow earlier AAAS analyses showing that total government support for nondefense R&D is projected to decline by one-quarter in real terms by 2002.

"Our plan is to revise the project based on feedback from the spring program and offer it to 600 sites in the fall," Hirshon said. "Eventually we hope to secure the resources to start Kinetic City Classrooms and Kinetic City Super Crew Clubs in towns and cities across the country."

A prototype of the Crew Club concept was started last fall at the St. Louis Science Center. Children who joined the free club attended monthly Super Crew rallies, did hands-on science experiments, and solved mysteries that involved hunting for clues in the museum.

The first cassette of the radio

ter in real terms by 2002.

Because of California's heavy dependence on federal R&D, major cutbacks would have "a disproportionate impact" on the state, concludes *The Future of Science and Technology in California: Trends and Indicators*. It notes that more than one-fifth of all U.S. R&D is done in California, which gets about 25% of federal R&D expenditures.

Several of the state's universities—notably Caltech, Stanford, the University of California—San Diego, and the University of California—Santa Barbara—receive more than 80 percent of their R&D funds from the federal government. Steep declines in R&D support would be painful for academic budgets already squeezed by steady reductions in California's spending for its colleges and universities.

AAAS issued the report late last month at a summit of R&D leaders who gathered in Sacramento to discuss ways of collaborating to promote R&D development throughout the state in the face of increased competition, economic job shifts, and curtailed funding.

A comparable AAAS report on Georgia concluded that the federal R&D budget proposals could undermine the state's pro-



Air time. Director and cast of "Kinetic City Super Crew" record an episode in AAAS studios.

show is now available. In this episode, "Concrete Jungle, or the Case of the City Safari," the Crew help Kinetic City's Mayor Schwindle track down wild animals so their town will be named an official "Safari City." (The cost is \$8.95 plus \$4 postage and handling. Order by calling 1-888-GET-CREW.)

gress in establishing a strong high-tech research community.

In 1990, a partnership of research universities, businesses, and state officials founded the Georgia Research Alliance (GRA) to foster economic development by establishing Silicon Valley-type concentrations of high-tech businesses in the vicinity of Georgia universities.

The Defense Department's award of a major F-22 contract to Lockheed Martin in 1991 had "a stunning impact on the R&D picture in Georgia," the AAAS report found. The contract helped boost Georgia from 25th to 5th among states receiving federal research money, said Al Teich, head of the AAAS Science and Policy Directorate. At a 20 May forum in Atlanta hosted by AAAS and GRA, Teich cautioned against over-reliance on the F-22 program and suggested the need for a more diversified R&D portfolio.

Copies are \$8.95 each, plus \$2.50 for postage and handling. Order by phone: 202-326-6600; fax: 202-289-4950; e-mail: science_policy@aaas.org; or from Shirley Young, AAAS Directorate for Science and Policy Programs, 1200 New York Avenue, NW, Washington, DC, 20005.

Reviewers Sought for Media Awards

Scientist volunteers are needed to review entries in this year's AAAS Science Journalism Awards program, sponsored by The Whitaker Foundation. Reviewers screen radio and television reports for scientific accuracy. The deadline for entries is 1 August. Reviewers must be in the Washington, DC, area sometime in September.

If you would like to participate, call Ellen Cooper in the AAAS News and Information Office at 202-326-6431 or send a message to ecooper@aaas.org.

The program was established nearly half a century ago to encourage and recognize excellence in science writing. Last year The Whitaker Foundation, which supports research and training in biomedical engineering, took over sponsorship of the awards.

Brave New World of Biopatents

As biotechnology dangles the promise of a new Golden Age of medicine, companies and research institutions are rushing to patent genetically altered animals and human genetic material, including DNA fragments, that could give them an edge in the marketplace.

Morally troubled by the practice, a broad coalition of religious leaders mounted a national campaign last year against "the granting of government patents on God's Creation."

In response to the controversy, AAAS's Program of Dialogue Between Science and Religion last month convened a panel of scientists, philosophers, religious leaders, and representatives of business and government to discuss the issue. Their talk was complicated by differing interpretations of patent law and lack of agreement about what is being patented. Yet many agreed with Alan Goldhammer of the Biotechnology Industry Organization, who said: "We have more in common than we realize."

The participants didn't object to the use of genetic technologies per se for human benefit, and they agreed some kind of intellectual property rights can advance that cause. They also agreed on the need to prevent "commodification and commercialization" of human genetic material. They had arrived, however, with a range of theological, moral, and social objections, which fueled the debate.

What Is Patented?

Lawrence Goffney Jr., acting deputy assistant secretary of the Commerce Department and deputy commissioner of patents and trademarks, attributed the controversy to a "misunderstanding about what is being patented." The U.S. Patent and Trademark Office, he declared, does "not allow people to patent life forms." A gene patent, he

explained, applies "not to the DNA itself but to the process of altering it in some way using human knowledge to create something else." He also challenged another sticking point: the notion that a patent confers "ownership" of a gene. The patent, he said, merely grants an exclusive right to prevent others from making, using, or selling a particular sequence in a specific application without express permission for a period of 20 years.

"If you think of it in terms of ownership, it's a problem," agreed Francis Collins, head of the National Center for Human Genome Research. "To my mind you step away from the idea that patenting a gene is owning a gene."

Collins said he views the new genetics in the light of one of the strongest mandates of humankind: to relieve suffering—"as Christ spent a lot of his time on Earth healing the sick." He suggested one major question to address: Is patenting in genetics beneficial to the public or not?

Reverend Ben Mitchell of the Southern Baptist Convention's Christian Life Commission found such an approach too reductionistic. "There's an interest in alleviating suffering, but we need to consider unintended consequences," he cautioned. "It's a slippery slope. I see it leading from a flat mecha-

nistic approach to patenting of a full human being."

Although "sanctity of life" concerns were of primary consideration, Jaydee Hansen of the United Methodist Board of Church and Society said principles such as equity and nondiscrimination also are central to the debate. "There's a generational shift going on in the churches, and groups of younger people are more concerned today with medical and distributional justice issues," he noted.

Representing patients and their families, Martha Volner, director of health policy for the Alliance of Genetic Support Groups, suggested that society treat genetic discoveries more like public utilities, to ensure the availability and affordability of drugs that may result.

Industry Viewpoint

Industry representatives defended gene patenting. Goldhammer said intellectual property rights protection is paramount for the biotechnology industry because it takes 6 to 8 years, at nearly \$400 million a year, to take a discovery from invention to commercialization. "For any company to embark on a project of this magnitude you need assurance you have the market to yourself," he said.

Patrick Korten of the Pharmaceutical Research and Manu-

facturers of America said that while his industry welcomed "thoughtful input" on issues related to genetic technology, "we don't see the issue of gene patenting as a debatable one." He added: "A patent makes possible a tremendous good. Without it, an important discovery will not lead to practical products."

Stuart Newman, a professor at New York Medical College and cofounder of the Council for Responsible Genetics, took issue with that assumption, arguing that gene patents work against the tradition of shared knowledge in scientific discovery. "Patents help people who hold the patents," he declared. "They don't help science, and they don't necessarily help people."

Some of the participants expressed a willingness to consider alternative mechanisms that could offer intellectual property protection while accommodating religious and moral principles.

The group concurred that the meeting helped to clarify areas of agreement and identify issues on which there was no consensus, and decided to meet again in the fall to continue the dialogue. They also expressed interest in a new dialogue on genetic discrimination issues.

For information, contact Audrey Chapman: 202-326-6795 or achapman@aaas.org.

AAAS Annual Election: Preliminary Announcement

The 1996 AAAS election of general and section officers will be held in September. All members will receive a general ballot for election of the president-elect, members of the Board of Directors, and members of the Committee on Nominations. Members registered in one to three sections will receive ballots for election of chair-elect, member-at-large of the Section Committee, and members of the Electorate Nominating Committee **for each section.**

Members enrolled in the following sections will also elect Council delegates: Agriculture, Food, and Renewable Resources; Engineering; History and Philosophy of Science; Industrial Science and Technology; Medical Sciences; Psychology; Social, Economic, and Political Sciences.

Candidates for all offices are listed on the

following two pages. Additional names may be placed in nomination for any office by petition submitted to the Executive Officer no later than 12 August. Petitions nominating candidates for president-elect, members of the Board, or members of the Committee on Nominations must bear the signatures of at least 100 members of the Association. Petitions nominating candidates for any section office must bear the signatures of at least 50 members of the section. A petition to place an additional name in nomination for any office must be accompanied by the nominee's curriculum vitae and statement of acceptance of nomination.

Biographical information on the candidates that follow will be enclosed with the ballots mailed to members in September.

AAAS Annual Election: Slate of Candidates

General Election

President-Elect: M. R. C. Greenwood, University of California, Santa Cruz; Chang-Lin Tien, University of California, Berkeley.

Board of Directors: George Campbell Jr., NACME, Inc., New York City; Robert D. Goldman, Northwestern University Medical School; Alice S. Huang, New York University; Cora Bagley Marrett, National Science Foundation.

Committee on Nominations: Lawrence Bogorad, Harvard University; Joseph Gordon II, IBM; Ronald L. Graham, AT&T Research, Murray Hill, NJ; Ann R. Markusen, Rutgers University; Karl S. Pister, University of California, Santa Cruz; Frank Press, Carnegie Institution of Washington; Anne O. Summers, University of Georgia, Athens; William R. Wiley, Battelle Memorial Institute, Richland, WA.

Section Elections

Agriculture, Food, and Renewable Resources

Chair-Elect: Donald C. Beitz, Iowa State University, Ames; R. James Cook, Washington State University, Pullman.

Member-at-Large of the Section Committee: Clifford J. Gabriel, Office of Science and Technology Policy, Washington, DC; Bennie I. Osburn, University of California, Davis.

Electorate Nominating Committee: Charles Guy, University of Florida, Gainesville; Jo-Ann C. Leong, Oregon State University, Corvallis; Barbara Valent, DuPont Central Research & Development, Wilmington, DE; Neal Van Alfen, Texas A&M University, College Station.

Council Delegate: Marjorie A. Hoy, University of Florida, Gainesville; Sue A. Tolin, Virginia Tech, Blacksburg.

Anthropology

Chair-Elect: C. Loring Brace, University of Michigan, Ann Arbor; Emilio F. Moran, Indiana University, Bloomington.

Member-at-Large of the Section Committee: Robert D. Drennan, University of Pittsburgh; Christopher B. Ruff, Johns Hopkins University School of Medicine.

Electorate Nominating Committee: George L. Cowgill, Arizona State University, Tempe; Dean Falk, State University of New York, Albany;

James O'Connell, University of Utah, Salt Lake City; Richard Potts, Smithsonian Institution.

Astronomy

Chair-Elect: Stephen P. Maran, Goddard Space Flight Center, Greenbelt, MD; Virginia Trimble, University of California, Irvine.

Member-at-Large of the Section Committee: Laurence A. Marschall, Gettysburg College; David Morrison, NASA Ames Research Center.

Electorate Nominating Committee: Edmund Bertschinger, Massachusetts Institute of Technology; Peter B. Boyce, American Astronomical Society, Washington, DC; Christine Jones, Harvard-Smithsonian Center for Astrophysics; Alan P. Marscher, Boston University.

Atmospheric and Hydrospheric Sciences

Chair-Elect: Dennis L. Hartmann, University of Washington, Seattle; Michael B. McElroy, Harvard University.

Member-at-Large of the Section Committee: David Randall, Colorado State University, Fort Collins; Thomas C. Royer, University of Alaska, Fairbanks.

Electorate Nominating Committee: Kenneth H. Brink, Woods Hole Oceanographic Institution; Leo J. Donner, Princeton University; James F. Kasting, Pennsylvania State University; Willard S. Moore, University of South Carolina, Columbia.

Biological Sciences

Chair-Elect: Frank Talamantes, University of California, Santa Cruz; Marvalee H. Wake, University of California, Berkeley.

Member-at-Large of the Section Committee: Margaret G. Kidwell, University of Arizona, Tucson; Leonard Krishtalka, University of Kansas, Lawrence.

Electorate Nominating Committee: Michael J. Donoghue, Harvard University; David W. Inouye, University of Maryland, College Park; Deborah K. Letourneau, University of California, Santa Cruz; A. Javier López, Carnegie Mellon University.

Chemistry

Chair-Elect: Peter Beak, University of Illinois, Urbana; Peter C. Jurs,

Pennsylvania State University.

Member-at-Large of the Section Committee: Peter J. Stang, University of Utah, Salt Lake City; Karen E. Wetterhahn, Dartmouth College.

Electorate Nominating Committee: Kathlyn A. Parker, Brown University; C. Dale Poulter, University of Utah, Salt Lake City; Kenneth J. Shea, University of California, Irvine; Fred Wudl, University of California, Santa Barbara.

Dentistry

Chair-Elect: Brian H. Clarkson, University of Michigan, Ann Arbor; Lois K. Cohen, National Institute of Dental Research.

Member-at-Large of the Section Committee: Deborah Greenspan, University of California, San Francisco; Richard R. Ranney, University of Maryland, Baltimore.

Electorate Nominating Committee: J. Terrell Hoffeld, National Institutes of Health; Frank Nichols, University of Connecticut, Farmington; Ichiro Nishimura, Harvard School of Dental Medicine, Boston; Malcolm L. Snead, University of Southern California.

Education

Chair-Elect: Ronald D. Anderson, University of Colorado, Boulder; Susan Phillips Speece, Fresno City College.

Member-at-Large of the Section Committee: Mary M. Atwater, University of Georgia, Athens; Valerie C. Chase, National Aquarium, Baltimore.

Electorate Nominating Committee: Andrea Bowden, Baltimore Public Schools; Loretta L. Jones, University of Northern Colorado, Greeley; Eleanor D. Siebert, Mount St. Mary's College, Los Angeles; Gordon E. Uno, University of Oklahoma, Norman.

Engineering

Chair-Elect: Joseph Bordogna, National Science Foundation; Robert M. Nerem, Georgia Institute of Technology, Atlanta.

Member-at-Large of the Section Committee: Frank S. Barnes, University of Colorado, Boulder; Nancy A. Da Silva, University of California, Irvine.

Electorate Nominating Committee: Cynthia J. Atman, University of Pittsburgh; Erich Bloch, Council on Competitiveness, Washington, DC; L. S. (Skip) Fletcher, Texas A&M University, College Station; Edwin Byron

Stear, Boeing Company, Seattle.

Council Delegates: Delores M. Etter, University of Colorado, Boulder; Jane G. Evans, Los Altos, CA; Jerrier A. Haddad, Briarcliff Manor, NY; John S. Maulbetsch, Electric Power Research Institute, Palo Alto, CA.

General Interest in Science and Engineering

Chair-Elect: Norine E. Noonan, Florida Institute of Technology, Melbourne; John L. Safko, University of South Carolina, Columbia.

Member-at-Large of the Section Committee: Noel W. Hinners, Lockheed Martin Astronautics, Denver; Lawrence Kupchella, Indiana University of Pennsylvania.

Electorate Nominating Committee: S. K. Majumdar, Lafayette College, Easton, PA; J. Shipley Newlin Jr., Science Museum of Minnesota, St. Paul; Gloria J. Takahashi, La Habra High School, CA; Jo Ann Myer Valenti, Brigham Young University.

Geology and Geography

Chair-Elect: Grace S. Brush, Johns Hopkins University; Lisa A. Rossbacher, Dickinson College, Carlisle, PA.

Member-at-Large of the Section Committee: William R. Hammer, Augustana College, Rock Island, IL; Susan Hanson, Clark University, Worcester, MA.

Electorate Nominating Committee: Danita S. Brandt, Michigan State University, East Lansing; Lucy E. Edwards, U.S. Geological Survey, Reston, VA; Jonathan Fink, Arizona State University, Tempe; Sherwood W. (Woody) Wise Jr., Florida State University, Tallahassee.

History and Philosophy of Science

Chair-Elect: Michele L. Aldrich, Cornell University; Michael M. Sokal, Worcester Polytechnic Institute.

Member-at-Large of the Section Committee: Lindley Darden, University of Maryland, College Park; Elizabeth Knoll, W.H. Freeman & Company, Needham, MA.

Electorate Nominating Committee: Joan H. Fujimura, Stanford University; Bruce V. Lewenstein, Cornell University; Vassiliki Betty Smocovitis, University of Florida, Gainesville; M.

Norton Wise, Princeton University.
Council Delegate: John Beatty, University of Minnesota, St. Paul; Phillip R. Sloan, University of Notre Dame.

Industrial Science and Technology

Chair-Elect: William R. Dill, Foreside, ME; Albert H. Rubenstein, Northwestern University.

Member-at-Large of the Section Committee: Aaron J. Gellman, Northwestern University; Barry G. Silverman, George Washington University.

Electorate Nominating Committee: Charles Scouten, Amoco Oil Company, Naperville, IL; Tina M. Kaarsberg, Vista Technologies, Inc., Washington, DC; William G. Morin, R. Wayne Sayer & Associates, Washington, DC; Stephen M. Pollock, University of Michigan, Ann Arbor.

Council Delegate: Don E. Kash, George Mason University, Fairfax, VA; Robert L. Stern, Washington, DC.

Information, Computing, and Communication

Chair-Elect: Caroline M. Eastman, University of South Carolina, Columbia; Alexa T. McCray, National Library of Medicine.

Member-at-Large of the Section Committee: Lois F. Lunin, *Journal of the American Society for Information Science*, New York City; Henry Small, Institute for Scientific Information, Philadelphia.

Electorate Nominating Committee: Ray R. Larson, University of California, Berkeley; Davis B. McCarn, Rockville, MD; Peter G. Neumann, SRI International, Menlo Park, CA; Ralph Z. Roskies, University of Pittsburgh.

Linguistics and Language Science

Chair-Elect: Lila R. Gleitman, University of Pennsylvania; Geoffrey K. Pullum, University of California, Santa Cruz.

Member-at-Large of the Section Committee: Ellen F. Prince, University of Pennsylvania; Susan Steele, University of Arizona, Tucson.

Electorate Nominating Committee: Barbara Abbott, Michigan State University, East Lansing; Ralph W. Fasold, Georgetown University; Keren D. Rice, University of Toronto, Ontario; Catherine O. Ringen, University of Iowa, Iowa City.

Mathematics

Chair-Elect: Lenore Blum, Mathematical Sciences Research Institute, Berkeley, CA; Ronald G. Douglas, Texas A&M University, College Station.

Member-at-Large of the Section Committee: Amy Cohen, Rutgers University; Ian Stewart, University of Warwick, Coventry, United Kingdom.
Electorate Nominating Committee: Edward F. Aboufadel, Grand Valley State University, Allendale, MI; Bonnie Jean Shulman, Bates College, Lewiston, ME; James G. Timourian, University of Alberta, Edmonton; Benjamin S. White, Exxon Research and Engineering Company, Annandale, NJ.

Medical Sciences

Chair-Elect: Neil R. Blacklow, University of Massachusetts Medical School, Worcester; Samuel C. Silverstein, Columbia University College of Physicians and Surgeons.
Member-at-Large of the Section Committee: Josephine P. Briggs, University of Michigan, Ann Arbor; Daniel Steinberg, University of California, San Diego.

Electorate Nominating Committee: Rafi Ahmed, Emory University; David Korn, Stanford University; Stanley M. Lemon, University of North Carolina, Chapel Hill; Abner Louis Notkins, National Institutes of Health.

Council Delegates: Julius C. Allen, Baylor College of Medicine, Houston, TX; Carol D. Blair, Colorado State University, Fort Collins; Rebecca Hatcher Buckley, Duke University Medical Center; Ramzi S. Cotran, Brigham and Women's Hospital, Boston; Richard J. Courtney, Pennsylvania State University College of Medicine, Hershey; William G. Couser, University of Washington, Seattle; Lynn W. Enquist, Princeton University; Hildegund C. J. Ertl, Wistar Institute, Philadelphia; Joseph C. Glorioso, University of Pittsburgh; Joe W. Grisham, University of North Carolina, Chapel Hill; Vincent T. Marchesi, Yale University; Noel R. Rose, Johns Hopkins University; Burton E. Sobel, University of Vermont, Burlington; James Thornton Willerson, University of Texas Medical School, Houston.

Neuroscience

Chair-Elect: Nicholas C. Spitzer, University of California, San Diego; Sandra F. Witelson, McMaster Uni-

versity, Hamilton, Ontario.

Member-at-Large of the Section Committee: John H. Byrne, University of Texas, Houston; Karina F. Meiri, State University of New York, Syracuse.

Electorate Nominating Committee: Stephen S. Easter Jr., University of Michigan, Ann Arbor; Marcus E. Raichle, Washington University, St. Louis; Joshua R. Sanes, Washington University, St. Louis; Richard W. Tsien, Stanford University.

Pharmaceutical Sciences

Chair-Elect: William E. Evans, St. Jude Children's Research Hospital, Memphis; Edward B. Roche, University of Nebraska Medical Center, Omaha.

Member-at-Large of the Section Committee: Paul R. Ortiz de Montellano, University of California, San Francisco; Glynn Wilson, Issaquah, Washington.
Electorate Nominating Committee: Ellen Cheung, Amgen, Inc., Thousand Oaks, CA; Jeffrey L. Cleland, Genentech, Inc., San Francisco; Robert P. Hanzlik, University of Kansas, Lawrence; Robert A. Wiley, University of Iowa, Iowa City.

Physics

Chair-Elect: Hans Frauenfelder, Los Alamos National Laboratory; Jerome Friedman, Massachusetts Institute of Technology.

Member-at-Large of the Section Committee: Jerry P. Gollub, Haverford College, Haverford, PA; Noemie Koller, Rutgers University.

Electorate Nominating Committee: Venky Narayanamurti, University of California, Santa Barbara; Robert L. Park, University of Maryland, College Park; Roy F. Schwitters, University of Texas, Austin; Mary L. Shoaf, West Chester, PA.

Psychology

Chair-Elect: Diana Deutsch, University of California, San Diego; Margaret Jean Intons-Peterson, Indiana University, Bloomington.

Member-at-Large of the Section Committee: Emanuel Donchin, University of Illinois, Champaign; John Gibbon, Columbia University.

Electorate Nominating Committee: Morton Ann Gernsbacher, University of Wisconsin, Madison; Katherine S. Harris, City University of New York; Richard T. Louttit, Gore, VA; James L. McClelland, Carnegie

Mellon University.

Council Delegate: I. Gormezano, University of Iowa, Iowa City; Neal F. Johnson, Ohio State University, Columbus.

Social, Economic, and Political Sciences

Chair-Elect: Cornelia Butler Flora, Iowa State University, Ames; Phyllis Moen, Cornell University.

Member-at-Large of the Section Committee: Robert E. Evenson, Yale University; Joseph P. Newhouse, Harvard University.

Electorate Nominating Committee: Frederick H. Buttel, University of Wisconsin, Madison; Lawrence W. Libby, University of Florida, Gainesville; Vernon L. Smith, University of Arizona, Tucson; Arnold Zellner, University of Chicago.

Council Delegate: Albert J. Reiss Jr., Yale University; Burton A. Weisbrod, Northwestern University.

Societal Impacts of Science and Engineering

Chair-Elect: J. William Futrell, Environmental Law Institute, Washington, DC; Victor Rabinowitch, MacArthur Foundation, Chicago.

Member-at-Large of the Section Committee: Harold M. Schmeck Jr., N. Chatham, MA; Arthur H. Westing, Westing Associates in Environment, Security, and Education, Putney, VT
Electorate Nominating Committee: Kevin Finneran, *Issues in Science and Technology*, Washington, DC; Thomas H. Moss, National Academy of Sciences; Paul Slovic, Decision Research, Eugene, OR; Robert Hunt Sprinkle, University of Maryland, College Park.

Statistics

Chair-Elect: Eugene C. Poggio, Abt Associates, Inc., Cambridge, MA; John E. Rolph, University of Southern California.

Member-at-Large of the Section Committee: Avital Cnaan, Children's Hospital of Philadelphia; Judith M. Tanur, Great Neck, NY.

Electorate Nominating Committee: Patricia A. Jacobs, Naval Postgraduate School, Monterey, CA; Benjamin F. King, Florida Atlantic University, Boca Raton; Stephen M. Samuels, National Science Foundation; Fritz J. Scheuren, George Washington University.