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Meeting with American Association for the Advancement of Science Fellows 2/8/94

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1994-95

AAAS Fellowships for Scientists & Engineers

Congressional

AAAS Congressional Science & Engineering Fellows Program

Fellows spend one year on Capitol Hill working with Members of Congress or congressional committees as special assistants in legislative and policy areas requiring scientific and technical input. Two fellowships will be offered, with annual stipends of \$40,000.

Executive Branch

AAAS-Sloan Executive Branch Science & Engineering Fellows Program

Fellows work in the White House Office of Science and Technology Policy for one or two years, providing expertise in industrial research and development, technology transfer, international competitiveness, and related issues. One or two Fellows will be selected. Applications are invited from candidates with a minimum of five years industrial experience, through midlevel and senior executives. Stipends are negotiable, depending on qualifications and experience. Applicants must be U.S. citizens.

Applicants should be postdoctoral to midcareer scientists and engineers, from any physical, biological, or social science or any field of engineering. The programs are designed to provide each Fellow with a unique public policy learning experience; to make practical contributions to the more effective use of scientific and technical knowledge in the U.S. government; and to demonstrate the value of science and technology in solving important societal problems. All Fellows participate in a rigorous orientation on the relevant congressional and executive branch operations and foreign affairs plus a year-long seminar series on issues involving science, technology, and public policy. The Congressional, Diplomacy, and Executive Branch programs begin in September 1994, and the Environmental program begins in June 1994. All application deadlines are January 15, 1994. For additional program information and application instructions, write:

Diplomacy

AAAS Science, Engineering & Diplomacy Fellows Program

Fellows work in international affairs on scientific and technical subjects for one year, either in foreign policy at the U.S. Department of State or in international development for the U.S. Agency for International Development. Approximately 12 Fellows will be selected. The annual stipend varies with experience, starting at approximately \$41,000. Applicants must be U.S. citizens.

Environmental

AAAS Environmental Science & Engineering Fellows Program

Fellows work as special research consultants with the Office of Research and Development (ORD) of the U.S. Environmental Protection Agency for 10 weeks in the summer. The detailed, future-oriented research assists ORD in assessing the significance of long-range environmental problems. The stipend is \$1,000 a week. Applicants must be U.S. residents. Ten Fellows will be selected.

**Fellowship Programs/Directorate for Science and Policy Programs
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005 202/326-6600**

Directorate for Science and Policy Programs
1333 H Street, NW, Washington, DC 20005
(202) 326-6600 FAX (202) 289-4950

1993-94 AAAS Science and Engineering Fellows

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Name Sponsoring Society	Discipline	Area of Interest or Expertise
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CONGRESIONAL FELLOWS

Oscar Aparicio
American Society for Microbiology

Molecular Genetics

Molecular biology/genetics;
mechanisms for science funding;
technology investment and trade;
education; environmental policies

Charles Barone
American Psychological Association

Psychology

Children, adolescents, and families;
high-risk behaviors; school-based
prevention and intervention programs

Karen Marie Becker
American Veterinary Medical
Association

Veterinary Medicine

Medical issues; public health;
endangered species; wildlife issues;
environmental health; infectious
disease; international health

Bill M. Brent
Triangle Coalition

Chemistry

Elementary and secondary science
education, particularly in regard to the
development and implementation of
the national standards; introduction of
technology education into pre-college
science programs

Dean Cheng Office of Technology Assessment	Political Science	Security issues; naval/maritime issues; Asian security and technology
Paul Benjamin Crilly Institute of Electrical and Electronics Engineers	Electrical Engineering	Telecommunications (international); manufacturing issues; education; biomedical engineering
Debra Dunivin American Psychological Association	Clinical Psychology	Health reform (mental/behavioral health); education; prevention
Jean Fruci American Institute of Biological Sciences/ American Society of Agronomy/Crop Science Society of America/Weed Science Society of America and affiliates	Soil Science	Agriculture/environment issues; global environmental change; impacts of land use management on water quality
Elizabeth M. Gunn Office of Technology Assessment	Public Policy	Science and technology policy; energy policy; environmental policy
Philip W. Hammer American Physical Society	Physics	Science and technology policy; public lands; research funding; environmental policy; human rights
Tracey Henderson American Institute of Biological Sciences/ American Society of Agronomy/Crop Science Society of America/Weed Science Society of America and affiliates	Crop Science	Sustainable agriculture; agricultural production and environmental quality; industrial utilization of agricultural products; international agricultural development
Murray W. Hitzman Geological Society of America	Geoscience/Environment	Natural Resources; environment; energy policy; international relations
Ruth Howes American Association for the Advancement of Science	Physics	Arms control verification; non- proliferation; energy and waste disposal; physics education
Lois Joellenbeck Office of Technology Assessment	Environ. Health Science Public Health	Environmental health science; epidemiology; toxicology; occupational health; use of biomarkers in epidemiology
Robert G. Kennedy III American Society of Mechanical Engineers	Mechanical Engineering	Robotics in space and the future battlefield; low cost access to space; privacy, property and civil liberty issues

Karen E. Kovacs American Psychological Association	Psychology	Health care; disabilities/rehabilitation; self destructive behaviors (e.g. substance abuse); social science policy
Bonnie Leitch Triangle Coalition	Mathematics	National standards in mathematics, technology in education and testing
Carmina Londono American Institute of Physics	Optics/Physics	National/international competitiveness and trade issues; technology transfer; strategic economic alliances; sustainable development; dual use technologies
Duncan T. Moore American Physical Society	Optical Engineering	International competitiveness; role of universities/national labs; small business; technology transfer; sustainable development
Patricia N. Olsen American Veterinary Medical Association	Biomedical Ethics Reproductive Physiology Endocrinology	Gender equity and diversity in higher education; biomedical ethics; women children's health needs; population control; all aspects of veterinary medicine, especially animal welfare
John G. Palenicek American Academy of Physician Assistants	Health Services Research Policy	Health policy and research; Impact of health systems on patients with chronic diseases (eg. cardiovascular, diabetes)
Albert Rosenheck Institute for Electrical and Electronic Engineers	Electronic engineering	Defense conversion; competitiveness (international); industrial policy; energy; science policy; R&D
Ricardo Sierra National Society for Professional Engineers	Mechanical Engineering	National and international energy policy; environmental effects as a result of energy policy (national and international); international competitiveness
Brian D. Smedley American Psychological Association	Clinical Psychology	Education policy (especially access and equality in higher education); poverty and race relations; community mental health; substance abuse treatment, education and prevention

Winston Tao
American Geophysical Union

Geoscience

Environment, resource, and energy
policy; science education;
development; disaster relief planning

Kerry L. Taylor
American Veterinary Medical
Association

Veterinary Medicine

Animal welfare; laboratory animal
medicine; vaccine research and
development; wildlife/resource
management; health care reform;
veteran affairs; forestry and
conservation; defense conversion

Mark A. Tumeo
American Association for the
Advancement of Science

Environmental Engineering
Law

Environmental law and policy;
Superfund; Clean Water Act;
Endangered Species Act; Antarctic
Conservation Act

Mary Therese Tyszkiewicz
American Chemical Society

Chemistry

Economic development; job creation;
science and technology policy;
defense conversion; technology
transfer

Elliot Weiner
American Psychological Association

Psychology

Health care; family issues; mental
health; teenage sexuality; prevention
issues in health care

Gary Ziehe
Federation of American Society
Food Animal Sciences

Animal Breeding
and Reproduction

Animal well-being; public land
use; animal production and
environment; food safety; mission of
land grant university system

DIPLOMACY FELLOWS

Zoltan Annau
State Department Renewal

Environmental Health

Environmental health in developing
countries; science and technology
transfer to developing countries

Felice Apter
USAID Renewal

Medical Sciences

Reproductive biology/
contraceptive development;
mucosal immune responses to enteric
pathogens; oral vaccine development;
maternal and child health

Carrie F. Auer
U.S. Agency for
International Development

Early Childhood
Special Education

Assessment of infants,
toddlers, preschoolers;
education policy

M.J. Finley Austin
U.S. Agency for
International Development

Genetics

Human genetics

Christine Bergmark USAID Renewal	Plant Physiology/ Soil Sciences	Ecology; plant physiology; sustainable agriculture; environmental education
Fred Boadu U.S. Agency for International Development	Law; Agricultural Economics	Law and economic development
John Borazzo USAID Renewal	Environmental Engineering	Indoor air quality; environmental modeling
Janet Rae Buelow U.S. Agency for International Development	Public Health	Public health; nursing; gerontology
Jeanine M. Buzy U.S. Agency for International Development	Neuroscience	HIV effects on the control neurons system in children and adults; HIV/AIDS education and prevention
Bruce Byers USAID Renewal	Biology	Ecology; genetics; conservation biology; conflict resolution; environmental education; environmental ethics; environmental security
Kevin Callahan U.S. Agency for International Development	Immunology	Justice and peace; health policy
Richard Cincotta USAID Renewal	Natural resources ecology	Natural resource modeling; live stock production/nutrition and environment in India and China; pastoralism
Janelle Daane USAID Renewal	Engineering	Engineering management in development; environmental and energy policy; water and sanitation, construction, development; public and environmental health
F. Brian Dilley USAID Renewal	Geography	Global climate; Latin America; geographic information systems; environmental change
Laura Efros U.S. Agency for Development	Chemistry	Bioinorganic chemistry; science and technology policy; International environmental policy

Rebecca A. Efroymsen U.S. Agency for International Development	Environmental Toxicology	Environmental science (pollution, global change, biodiversity); environmental policy; science policy
Eric Fajer USAID Renewal	Biology	Global climate change; biodiversity; ecological sciences; rain forest conservation
Patricia Foster-Turley U.S. Agency for International Development	Zoology/Conservation Biology	Conservation biology; biodiversity and wetlands issues
Andrew N. Fox U.S. Agency for International Development	Geological Sciences	Geology; remote sensing; global change; geographic information systems
Jo Anne Garbe U.S. Agency for International Development	Veterinary Medicine/Law	Wildlife conservation; biodiversity
Gwendolyn Griffith USAID Renewal	Veterinary medicine	Large animal medicine; environmental health; environmental research and education
Curt Grimm USAID Renewal	Anthropology	Community participation in development; natural resource management; semi-arid/arid lands; Africa
Traci M. T. Hall USAID Renewal	Pharmacology and molecular sciences	Education; inner city issues; child welfare; molecular biology; parasitology; international health
Gail Handelsmann U.S. Agency for International Development	Pharmacology	Pharmacology; international health; child survival and development
Sharon Hemond State Department Renewal	International Health	Biomedical science; neuroscience global health problems; international biotechnology transfer; intellectual property
Catherine Ives U.S. Agency for International Development	Microbiology/ Biotechnology	Biotechnology; biosafety and development; environment
Gary Jahn USAID Renewal	Entomology	Insect vectors of human, animal, and plant disease; ecology; biological control

Jeannine Koshear USAID Renewal	Geography	Geography; tropical biology; agroecology; international agricultural policy
Leanna Lamola U.S. Agency for International Development	Law/Biochemistry	Science and technology policy in international economic development; trade and technology transfer; intellectual property rights
Judy Manning U.S. Agency for International Development	Zoology/Anthropology	Reproductive physiology; reproductive health issues; population/contraceptive issues
Stefan J. Michalowski U.S. Department of State	Physics	Rehabilitation engineering; robotics; nuclear weapons safety
Kathleen Michels USAID Renewal	Neurobiology	Development biology; neurobiology; education; environmental issues; sustainable development
Melinda Moree USAID Renewal	Medical Microbiology	Tropical diseases; health research for/in developing countries
Pamela Muick USAID Renewal	Ecology	Hardwood forest ecology, management and restoration; rangeland ecology; urban/rural interface resource management issues
Dona T. Mularkey U.S. Agency for International Development	Management of Technology	Mechanical engineering; manufacturing; science and technology policy; foreign affairs
Linda Padgett USAID Renewal	Neurobiology/Cell Biology	Contraception research; family planning; parasitic disease prevention
Anne Patterson USAID Renewal	Environmental Health Engineering	Water quality; international environmental health in developing countries; environmental microbiology
Mark Powell USAID Renewal	Ecology/policy	Quantitative analysis/decision theory; environmental development, and international policy interests
Daniel Putterman U.S. Agency for International Development	Biochemistry/Molecular Virology	Biotechnology and pharmaceuticals; biotechnology transfer; intellectual property rights
Thomas E. Rhodes U.S. Agency for International Development	Aquatic Sciences	Aquatic ecology; environmental change; ecosystem disturbances; paleoecology

Ivan Rios
U.S. Agency for
International Development

Anne W. Scott
U.S. Agency for
International Development

Marjorie Shovlin
U.S. Agency for
International Development

Lorraine Amory Soisson
U.S. Agency for
International Development

Stacey Tighe
USAID Renewal

Richard Trostle
USAID Renewal

William Wing
USAID Renewal

Polymer Science and
Plastics Engineering

Anthropology, Social
Science and Medicine

Environmental Science
and Engineering

Parasite Immunology

Geological oceanography

Public Health

Physics & Optical
Sciences

Environmental issues; recycling;
renewable energy; biotechnology;
Congressional Law

Public health; ethnic conflict/
conflict negotiation; addiction
and drugs; HIV/AIDS

Drinking water quality; dispute
resolution in water resource
management

International health issues

Marine tectonics; volcanology;
geomorphology; geology

International health; development
strategies; health program design

Atomic, molecular, and optical
physics; instrumentation and
measurement; computer applications;
technology policy; defense
conversion; environmental policy

EXECUTIVE BRANCH FELLOWS

Thomas L. Anderson
RAND-Critical Technologies
Institute

Cynthia Arnold-Mckenna
AAAS Renewal

Kimberly Boller
National Institute of
Child Health and Human
Development

Lisa Bridges
National Institute of
Child Health and Human
Development

Civil engineering

Industrial Technology

Psychology

Psychology

Earthquake engineering;
engineering and construction
industry; education; global
competitiveness

Materials and manufacturing
technology; composites; high
speed civil transportation;
competitiveness

Child development; cognitive/
memory development; day care,
education, child/family issues

Parent-child interaction; early
socioemotional development;
family and child care work place
policy

Elizabeth Cohen
Acoustical Society of America

Acoustics;
Technology Assessment

Relationship of technology to job creation; competitiveness and critical technologies; information superhighways; telecommunications; re-structuring of education for new economy; Headstart; domestic and international technology policy

Kerry Hanson
Office of Science and
Technology Policy

Electrical Engineering

Information technology; defense conversion issues; industry consortia; international high technology issues

Thomas Houlihan
Office of Science and
Technology Policy

Mechanical Engineering

Mechanical engineering; naval engineering; education

James C. Tsang
Office of Science and
Policy

Electrical Engineering

Optical, electronic, and vibrational properties of Technology semiconductors; governmental and industrial funding of basic research