Vignettes: Concern for Animals

Where the women's movement and the struggle of black women and men have been identity movements, made by those people declared Other by those with power, animal liberation was to be carried out by human beings on behalf of others. Arguably the silence of the oppressed was a significant part of their attraction; the liberators could speak on their behalf unfettered by any voices which said "that is not how I feel, that is not how I am, how dare you presume to speak for me."

—Hilary Rose

A question I have often wondered about is whether most students who feel uneasy about dissecting anesthetized animals actually do so out of sympathy with the animals. Would they do whatever is necessary to help an injured animal, or are they just uneasy about handling live animals? I wonder about this especially when I am told that women students are more reluctant to do lab dissections than the men are. Are we really dealing with differences in empathy with other living creatures or with differences in permitted squeamishness?

—Ruth Hubbard

From Reinventing Biology: Respect for Life and the Creation of Knowledge (Lynda Birke and Ruth Hubbard, Eds.; Indiana University Press)

—From Reinventing Biology: Respect for Life and the Creation of Knowledge (Lynda Birke and Ruth Hubbard, Eds.; Indiana University Press)

Books Received


Publishers' Addresses

Below is information about how to direct orders for books reviewed in this issue. A full list of addresses of publishers represented in Science appears in the issue of 26 May 1995, page 1223.

Kluwer Academic Publishers, P.O. Box 358, Ac- cord Sta., Hingham, MA 02018-0358. Phone: (781) 891-6000. FAX: (781) 891-6528.

R. G. Landes Co., P.O. Box 4858, Austin, TX 78765. Phone: 512-863-7762. Fax: 512-863- 0081. E-mail: rglandes@austcomutez.com.

652 · SCIENCE · VOL. 270 · 27 OCTOBER 1995
I
Diagnostic Nuclear characteristics, fluorescence, used complex(203-37), detection.
academic, industrial, includes information apoptosis solids, dirty samples, with even can microorganisms.

B4A11,626, maintenance.
portable sensitive field-effect transistor (ISFET).

B1C8).

The antibodies can be used in protein immunoblotting, immunofluorescence, and immunohistochemistry. Diagnostic BioSystems. Circle 139.

Antibodies
Nuclear matrix proteins (NMPs) are becoming recognized for their potential for cancer detection. A range of NMP antibodies includes specificities for prostate cancer (PRO-4-216.1), breast cancer (NM200.4), apoptosis research (204-41), nuclear pore complex (203-37), and spliceosomes (J82, B4A11, 626, B1C8). The antibodies can be used in protein immunoblotting, immunofluorescence, and immunohistochemistry. Diagnostic BioSystems. Circle 139.

An antibody that detects a surface glycoprotein found only on a subpopulation of circulating B cells, in mantle cell lymphomas, and in differentiated B cell leukemias is formulated for use in flow cytometry. Dako Corp. Circle 140.

PCR Clean Up Kit
The PCR Clean Up Kit separates polymerase chain reaction (PCR) products from impurities that interfere with enzymatic labeling or digestion processes. Under specific salt conditions, the kit binds PCR products and separates them from residual PCR components. The bound products can then be eluted from the silica beads by simple low-salt washes. The kit works with a wide size range of products, purifies them quickly, and recovers them efficiently. Boehringer Mannheim. Circle 141.

Cell Transfection Kit
The Capture-Tec Kit allows the user to create a homogeneous population of transiently transfected cells without creating stable cell lines. The kit features pHook-1 plasmid, which expresses and displays a single-chain antibody to a specific hapten molecule. Users simply cotransfect the pHook-1 plasmid with their own constructs, then isolate transfected cells with hapten-coated magnetic beads to study posttransfection intracellular events. Selected cells can be used for differential display, protein immunoblots, flow cytometry, enzymatic analysis, and pulse-chase experiments. Invitrogen. Circle 142.

Genomic DNA Isolation Kit
The DNA Multiprep kit provides a novel procedure for the simultaneous processing of multiple genomic DNA samples from whole blood, mammalian cells, and select tissues. The procedure is neither labor-intensive nor time-consuming, nor does it involve the use of hazardous organic solvents. The entire

NEWLY OFFERED INSTRUMENTATION, APPARATUS, AND LABORATORY MATERIALS

pH Meter
The Model 101 pH Meter is a handheld, portable unit featuring a state of the art ion-sensitive field-effect transistor (ISFET) probe. The ISFET sensor probe is non-glass, rugged, and completely submersible. It stores dry and requires no fill solutions or routine maintenance. The sensor has a 3-s readout with automatic temperature compensation.

It can be used to test clear liquids, semisolids, dirty samples, and bread dough, and can even measure a single drop of sample. DeltaTRAK. Circle 138.

Ambion offers a complete range of kits and reagents for RNA analysis including:

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For single tube, high sensitivity RPAs use the RPA II™ Kit. And for precious samples the Direct Protect™ Lysate RPA Kit allows probing directly in cell lysates without prior RNA isolation.

S1 Nuclease Protection
The S1 nuclease protection assay is now in convenient kit form. The S1™-Kit provides function tested solutions and controls necessary for analysis and mapping of RNA with DNA probes.

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procedure is performed in one 96-well plate. It entails adding three reagents to the samples with a multichannel pipette. The DNA bound to the plate surface can be used directly for restriction enzyme digest, Southern blot, or polymerase chain reaction. The kit consistently gives high molecular weight DNA preparations of high yield and purity. The DNA prepared is suitable for large-scale screening, forensic testing, medical diagnostics, and reverse genetics. Biotecx Laboratories. Circle 143.

Graphics and Data Analysis Software
Origin 4.0 is a new version of a Windows-based technical graphics and data analysis program. The redesign includes new analysis and graphics tools, a user-friendly and more powerful nonlinear curve fitter, and a tool-bar-based user interface for instant access to analysis tools and common features. The new two-dimensional graphics toolbar allows users to instantly access many graph types, including vector and polar graphs as well as line, scatter, area, bar, pie, and statistical charts. New features include baseline and peak analysis for spectroscopy, improved fast Fourier transform that facilitates digital signal processing, and a powerful nonlinear curve fitter with approximately 200 built-in functions. The program is compatible with Windows 95 and requires only a 386/DX or higher processor, 4 MB random access memory, Windows 3.1 or later, and 4 MB hard drive space. Microcal Software. Circle 144.

Gel Dryers
Model GD 40/50 is a slab gel dryer with a large 40 cm by 50 cm surface capable of quickly drying standard size sequencing gels as well as multiple smaller gels. The design features a vacuum seal provided by a transparent silicone screen and a porous, polypropylene sheet. The unit has an adjustable heater permitting settings from 30°C to 80°C and a timer that runs up to 5 hours adjusted in 5-min intervals. The Model GDS 2000 Gel Dryer combines the attributes of the GD 40/50 with a vacuum pump and chemical trap. Life Technologies. Circle 145.

Literature
496 MOS Multiple Organic Synthesizer is a brochure on an instrument that can perform a variety of solid phase organic syntheses. The unit offers reaction heating and cooling, environmentally controlled reactions, multispread vortex mixing, and more. Advanced ChemTech. Circle 146.

Reagents for Cytoskeletal and Neuromuscular Research highlights a line of these products. Alexis Biochemicals. Circle 147.

A series of application notes covers many facets of rapid kinetics measurements and illustrates an enormous range of applications for the manufacturer's line of equipment. HiTech Scientific. Circle 148.

Fluorescent Gel Mobility Shift Assay is an application note on an assay used to study DNA protein binding in the Escherichia coli DNA mismatch repair system. Fluorescent gel shift assays can also be used to determine the affinity, abundance, binding constants, and binding specificity of DNA binding proteins. Vistra Systems. Circle 149.

Revo Laboratory CO₂ Incubators highlights products designed for growing viruses and cells without desiccation over a broad range of temperatures, humidities, and CO₂ control levels. Revco Scientific. Circle 150.
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AAAS
Annual
Meeting
&
Science
Innovation
Exposition

Where Science Comes To Life

LEARN FROM THE EXPERTS

Discover recent developments in risk assessment, environmental clean up, and sustainability

Explore the latest in medical research: AIDS, the human genome, neuroscience, and cardiovascular science

Find out about new issues in government science policy and funding

Get full details on science education reform

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

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Dear Colleague:

The **AAAS Annual Meeting and Science Innovation Exposition** is the preeminent multidisciplinary event for scientists. It is my pleasure to invite you to attend AMSIE'96 and to join an array of scientists, educators, and policymakers in examining issues and emerging research from all areas of science.

This year’s meeting offers exciting new programming that promises to affirm our interdisciplinary tradition. Researchers from every facet of science — medical, environmental, evolutionary, physical, social and technological — will convene to exchange and publicize new knowledge. In fact, more than 5,000 of your colleagues are expected to be in Baltimore to share their latest research advances, explore the fertile synergies between disciplines, and debate today’s critical issues in science policy and education.

The theme for **AMSIE’96 – Where Science Comes to Life** sets the tone for a unique blend of symposia, topical and plenary lectures, specialized seminars, and poster presentations. Some special highlights:

This year’s **Science Innovation** offers exceptional symposia covering progress in neuroscience, cardiovascular science, AIDS, and genome research. Topical lectures will highlight emerging developments in instrumentation and research methodology ... see page 13 of this program.

**The Origins Seminar** features leading scientists presenting their most recent ideas, research and information on how the universe and the world around us have evolved. Presentations will range from researching the Big Bang and stellar origins to present understanding of biological evolution ... detailed information on page 12.

Other AMSIE'96 highlights include: presentations by senior policymakers on the future of science and technology research funding and a seminar focused on helping scientists master the Internet ... see pages 10 and 12 for more details.

Also of particular interest – field trips to important and educational science centers in the Baltimore area; career development seminars; over 100 exhibits of publishers, computer companies, government agencies, and scientific equipment companies; and Employment Exchange services, which are free to AAAS members.

AMSIE'96 offers numerous opportunities to meet, network and learn from many of the leading figures in various fields of science. Please join us in Baltimore, the city where, indeed, science comes to life. Register now, and take advantage of the advance registration discount rates (see forms on page 16 and 17). I look forward to seeing you at AMSIE'96.

Sincerely,

Rita Colwell
AAAS President and AMSIE'96 Program Chair
## Time Table

**February 8-13, 1996**  
*Baltimore Convention Center*  
*Baltimore, Maryland*

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<th>Friday, 9th</th>
<th>Saturday, 10th</th>
<th>Sunday, 11th</th>
<th>Monday, 12th</th>
<th>Tuesday, 13th</th>
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<tr>
<td>7:00 AM</td>
<td><strong>Meeting Registration</strong> 7:00 AM - 5:00 PM Convention Center</td>
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<td>8:30 AM</td>
<td><strong>Student Awards</strong> Poster Competition 10:00 AM - 2:00 PM Convention Center</td>
<td><strong>EE Career Seminars</strong> 8:30 AM - 5:30 PM Convention Center</td>
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<td><strong>EE Career Seminars</strong> 8:30 AM - 5:30 PM Convention Center</td>
<td><strong>Field Trip</strong> Columbus Science Ctr NASA 8:30 AM - 12:30 PM</td>
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<td>9:00 AM</td>
<td><strong>Field Trips</strong> Columbus Science Ctr Johns Hopkins Lab 1:00 PM - 5:00 PM</td>
<td><strong>Physical/Life Sciences</strong> Poster Sessions 10:30 PM - 2:30 PM Convention Center</td>
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<td><strong>Field Trip</strong> U.S. Dept of Agriculture 12:30 PM - 5:00 PM</td>
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<td>11:00 AM</td>
<td><strong>Seamor: Origins Seminar: Internet 2:30 PM - 5:30 PM Stouffer Renaissance</strong></td>
<td><strong>Awards Ceremony</strong> Noon - 1:00 PM Hyatt Regency</td>
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<td>4:00 PM</td>
<td><strong>Exhibit Grand Opening</strong> 4:00 PM - 6:30 PM Reception 5:00 PM - 6:30 PM Convention Center</td>
<td><strong>Plenary Lecture</strong> Rita R. Cowell 6:30 PM - 7:30 PM Hyatt Regency</td>
<td><strong>Plenary Lecture</strong> Jacqueline Barton 6:30 PM - 7:30 PM Hyatt Regency</td>
<td><strong>Plenary Lecture</strong> Jacqueline Barton 6:30 PM - 7:30 PM Hyatt Regency</td>
<td><strong>Plenary Lecture</strong> David Satcher 6:30 PM - 7:30 PM Hyatt Regency</td>
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<td>4:00 PM</td>
<td><strong>Opening Session:</strong> Allocating Research Funds 6:00 PM - 8:00 PM Hyatt Regency</td>
<td><strong>President's Lecture</strong></td>
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<td>5:00 PM</td>
<td><strong>AJAS Poster Session</strong> 4:00 PM - 6:30 PM Convention Center</td>
<td><strong>Open Session</strong></td>
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<td>AM *The Microbial World: Foundation of the Biosphere</td>
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<td>AM Assessing Systemic Reform from National Perspectives to Student Outcomes</td>
<td>AM Assessing Systemic Reform from National Perspectives to Student Outcomes</td>
<td>PM Identifying Risks Whose Students Learn Best</td>
<td>AM Ethnogeographic: Biodiversity of Disease and Death Among Elderly People of Color</td>
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<td>PM What Works: Successful University-based Outreach Programs</td>
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<td>PM Reforming Elementary Science Education in Urban Districts</td>
<td>PM The Textbook of the Future</td>
<td>PM The Federal Role in Education: Effects of Changing Attitudes</td>
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<td>and Urban Science Education</td>
<td>AM The Middle Atlantic Environmental and Ecological Systems: Strategies for Sustainable Development</td>
<td>AM The U.S. Environmental and Natural Resource Research Strategy</td>
<td>AM Our Lancaster County (PA) Neighbors: The Old Order Amish</td>
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<td>AM Consumption and Population Growth: Twin Challenges to Sustainable Development</td>
<td>PM Limits to Agricultural Productivity Recovering Tropical Forests: Conservation, Development, and Local Communities</td>
<td>AM Biotechnology in Maryland</td>
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<td>AM The Open Exchange of Environmental Information</td>
<td>AM The Open Exchange of Environmental Information</td>
<td>PM The Restoration of the Chesapeake: A National Paradox</td>
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<td>AM Climate Change: The Second Assessment Report of the Intergovernmental Panel on Climate Change</td>
<td>AM Reconfiguration of Floodplain Management Since the Mid-continent Floods</td>
<td>AM Dredged Material Disposal and Waste Management in the Nearshore Environment</td>
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<td>Environment and Science</td>
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<td>AM Science and Technology in the NAFTA Framework</td>
<td>AM Reconfiguration of Floodplain Management Since the Mid-continent Floods</td>
<td>AM Biotechnology and Aquaculture: Fighting Reproduction, Growth, and Development</td>
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<td>on the Chesapeake</td>
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<td>AM Remote Sensing of Climate</td>
<td>AM Assessing Ecological Implications of Changes in Climate</td>
<td>AM Surface Age Dating in Environmental Studies and Reconstruction of Global Change</td>
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<td>AM Building the Health Information Highway: Prognosis for a Cure with New Technologies</td>
<td>AM *Intelligent Agents: Software Assistants in Finding, Retrieving, and Analyzing Information</td>
<td>AM *New Directions in Industrial Research and Development</td>
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<tr>
<td>Physical Sciences</td>
<td>AM Recent Trends in Japanese</td>
<td>AM *All Eyes on the Universe: Multi-wavelength Astrophysics</td>
<td>AM New Studies of Meteors 9:30 AM - 11:30 AM</td>
<td>AM *New Directions in Atomic, Molecular, and Optical Science: Controlling Matter with Light</td>
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<td>Science and Technology</td>
<td>AM The Universe: Views from Space</td>
<td>AM *Mathematics for the Next Century: Knots</td>
<td>AM Impact of the Global Positioning System (GPS)</td>
<td>AM *New Directions in Atomic, Molecular, and Optical Science: Controlling Matter with Light</td>
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<td>PM 2:15 PM - 4:15 PM</td>
<td>PM *Mathematics for the Next Century: Geometric Arrangements with Applications to Physics and Robotics</td>
<td>AM Impact of the Global Positioning System (GPS)</td>
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<td>PM *Mathematics for the Next Century: Pattern Formation</td>
<td>PM The Discovery of Radioactivity: The Birth of Nuclear Physics</td>
<td>AM *New Physics in the Baltimore/ Washington Area</td>
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<td>PM 4:15 PM - 6:15 PM</td>
<td>PM The Search for Extraterrestrial Intelligence</td>
<td>AM *New Directions in Atomic, Molecular, and Optical Science: Controlling Matter with Light</td>
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Time Schedule
- All AM sessions: 8:30 AM - 11:30 AM (unless otherwise indicated)
- All PM sessions: 2:30 PM - 5:30 PM (unless otherwise indicated)
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<td>Public Health</td>
<td>AM Analytic Approaches to Fairness in Medicine</td>
<td>AM Not Just Mentors: Educating for the Responsible Conduct of Research</td>
<td>AM Research Ethics: We’re All Accountable, So Who’s Accounting</td>
<td>AM Science Survival: A Practicum</td>
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<td>PM</td>
<td>Science and Society</td>
<td>PM Analytic Approaches to Fairness in Medicine</td>
<td>PM Science, Technology, and the States</td>
<td>PM Deterioration or Evolution?: Language Standards and Linguistics</td>
<td>PM Limbic System, Our Mammalian Heritage: Normal/Deviating Emotion, Memory, Homicidal Action</td>
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<tr>
<td>PM</td>
<td>Science for All</td>
<td>PM Analytic Approaches to Fairness in Medicine</td>
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<td>PM Limbic System, Our Mammalian Heritage: Normal/Deviating Emotion, Memory, Homicidal Action</td>
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**SCIENCE INNOVATION**

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<th>AM/PM</th>
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<th>AM Neuroscience and Technology: Visual Memory</th>
<th>AM Genomics: Bacteria and Plants</th>
<th>AM Cardiovascular Science and Technology: Reproductive and Developmental Biology: Innovations in Fertility</th>
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<tr>
<td>PM/PM</td>
<td>AM Neuroscience and Technology: Structural and Moleculeal Basis of Cancer Vaccines</td>
<td>AM Cardiovascular Science and Technology: Gene Therapy for Vascular Disease</td>
<td>AM Advances in AIDS Research</td>
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<td>AM/PM</td>
<td>AM Quantum Computation</td>
<td>AM Cardiovascular Science and Technology: Vascular Biology: Viruses as a Cause of Cardiovascular Disease</td>
<td>AM Genomics: Animals</td>
<td>AM Cardiovascular Science and Technology: Reproductive and Developmental Biology: Innovations in Fertility</td>
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<tr>
<td>AM/PM</td>
<td>AM Non-Invasive Functional Brain Mapping</td>
<td>AM Cardiovascular Science and Technology: Vascular Biology: Viruses as a Cause of Cardiovascular Disease</td>
<td>AM Genomics: Animals</td>
<td>AM Cardiovascular Science and Technology: Reproductive and Developmental Biology: Innovations in Fertility</td>
</tr>
</tbody>
</table>

**SEMINARS**

Origins: Thursday, 16th and Friday, 17th, AM/PM
Living with the Internet: Thursday, 16th and Friday, 17th, AM/PM

Note: All information as of 9/1/95. Any changes, additions, or deletions received after that date will be included in the next printing of this program.

(*) = Indicates sessions that may also be of interest to Science Innovation attendees.
PLENARY AND TOPICAL Lectures

All information is as of 9/1/95. Changes, additions or deletions received after that date will be included in the next printing of this program.

Indicates sessions that may also be of interest to Science Innovation attendees

PLENARY LECTURES

THURSDAY, FEBRUARY 8, 1996
OPENING CEREMONIES AND LECTURE
6:00pm-8:00pm
A panel discussion of the National Academy of Science (NAS) report on research funding featuring Dr. Frank Press*, Carnegie Institution of Washington and former President, NAS; and senior administration and congressional representatives*.

FRIDAY, FEBRUARY 9, 1996
KEYNOTE LECTURE
6:30pm-7:30pm
Neal Lane, National Science Foundation

TOPICAL LECTURES

(Tentative List)
FRIDAY, FEBRUARY 9, 1996
1:00pm-2:00pm
Daniel S. Goldin, National Aeronautics and Space Administration
Alvin M. Liberman, Haskins Laboratories
Jocelyn Elders*, Arkansas Children's Hospital

SATURDAY, FEBRUARY 10, 1996
PRESIDENT'S LECTURE
6:30pm-7:30pm
Rita R. Colwell, President, AAAS and President, University of Maryland-Biotechnology Institute

SUNDAY, FEBRUARY 11, 1996
PLENARY LECTURE
Jacqueline Barton, Chemistry Department, California Institute of Technology

MONDAY, FEBRUARY 12, 1996
PLENARY LECTURE
David Satcher*, Director, U.S. Centers for Disease Control and Prevention

SATURDAY, FEBRUARY 10, 1996
1:00pm-2:00pm
France Cordova, National Aeronautics and Space Administration and Pennsylvania State University
Teresa Fryberger*, U.S. Department of Energy
Robert T. Watson*, Office of Science and Technology Policy

SUNDAY, FEBRUARY 11, 1996
1:00pm-2:00pm
D. James Baker, National Oceanic and Atmospheric Administration
John H. Conway*, Princeton University

MCGOVERN LECTURE IN THE BEHAVIORAL SCIENCES:
SUNDAY, FEBRUARY 11, 1996
1:00PM-2:00PM
James L. McGaugh, University of California, Irvine

TUESDAY, FEBRUARY 13, 1996
1:00PM-2:00PM
Kristin Shrader Frechette, University of South Florida
Alan Leshner, National Institute on Drug Abuse
Wylie Poag, U.S. Geological Survey

SCIENCE INNOVATION TOPICAL LECTURES

AM = 8:30AM-9:15AM
PM = 1:30PM-2:15PM
FRIDAY AM
Watt W. Webb*, Cornell University

SATURDAY AM
Flossie Wong-Staal, University of California-San Diego

SUNDAY AM
Robert Bonner, National Institutes of Health

MONDAY AM
William Bialek, NEC Research Institute

MONDAY PM
Steven M. Block, Princeton University

(*) = invited, not yet confirmed

HOTEL FORM – SEE PAGE 17
### Assessing and Managing Risk

**AM = 8:30AM-11:30AM**

**PM = 2:30PM-5:30PM**

**FRIDAY AM**
- Prudent Practices in Laboratory Handling and Disposal of Chemicals
  - Org by Edward M. Arnett, Duke Univ, and Tamae Wong, Natl Resch Council

**FRIDAY PM**
- Safety and Pollution Prevention: Maximizing Research Innovation, Minimizing Regulatory Burden
  - Org by Edward M. Arnett, Duke Univ

**SATURDAY AM**
- Innovative Chemical Separations and the Clean-up of National Nuclear Sites
  - Org by William L. Kuhn, Pacific Northwest Lab

**SATURDAY PM**
- Siting Hazardous Facilities: Views on Fair Process and Outcome
  - Org by Joanne Linnerooth-Bayer, Inst for Applied Systems Analysis

**SUNDAY AM**
- Risk Assessment: The New Panacea Regulatory Morass or Just a Tool?
  - Org by William F. Isnerwood, Lawrence Livermore Natl Lab, and Don Ritter, Natl Environmental Policy Inst

**SUNDAY PM**
- Science of Decision Making in a Complex World
  - Org by Alice F. Healy, Univ of Colorado, and Francis A. Beer, Univ of Colorado

### Biological Diversity

**AM = 8:30AM-11:30AM**

**PM = 2:30PM-5:30PM**

**FRIDAY AM**
- The Science of Biodiversity
  - Org by Joan Abrahamson, Jefferson Inst, Peter Crane, Field Museum, and Anna Roosevelt, Field Museum

**SATURDAY PM**
- The Ethics of Human Genetic Enhancement
  - Org by William Gardner, Univ of Pittsburgh, and Erik Parens, The Hastings Ctr

**SUNDAY AM, PM**
- Coral Reefs: Global Change and Biodiversity Loss
  - Org by Gene Rosenberg, Smithsonian Institution

### Cultural Diversity in Psychological Structure and Functioning

**SUNDAY AM**
- Org by Hazel Rose Markus, Stanford Univ

### Building Evolutionary Trees: Evidence and Analysis

**SUNDAY AM**
- Org by Martin Farach, Rutgers Univ

### Diversity of Human Physiological Adaptability

**SUNDAY PM**
- Org by Peter W. Hochachka, Univ of British Columbia

### Utilizing Africa's Genetic Affluence through Natural Products, Research, and Development

**MONDAY AM, PM**
- Org by Amy Auerbacher Gimbel, AAAS, and Berhanu Abegaz, Univ of Botswana

### The Microbial World: Foundation of the Biosphere

**TUESDAY AM**
- Org by Rita R. Colwell, Univ of Maryland, and James T. Staley, Univ of Washington

### Ethnogeriatrics: Biodiversity of Disease and Death Among Elderly People of Color

**TUESDAY AM**
- Org by Haragopal Thadepalli, Charles R. Drew Univ of Med and Sci

### Microbial Diversity: The Unseen Treasure

**TUESDAY PM**

### Educating for the Future

**AM = 8:30AM - 11:30AM**

**PM = 2:30PM - 5:30PM**

**FRIDAY AM**
- Assessing Progress: Lessons Learned from Some Informal Science Education Programs
  - Org by Cathy Crocker, Amer Statistical Assoc

**FRIDAY PM**
- The National Science Foundation and Urban Science Education
  - Org by James R. Oglesby, AAAS, and Mary Koppal, AAAS

**SATURDAY AM**
- Comprehensive School Health Programs: Promoting Public Health Through K-12 Education
  - Org by Maya Honda, Wheelock College, and Wayne O'Neil, Massachusetts Inst of Tech

**SATURDAY AM**
- From Curiosity to Science Through Linguistic Inquiry
  - Org by Jo Ellen Roseman, AAAS, and Mary Koppal, AAAS

**SATURDAY AM**
- Scientists and Urban Science Education
  - Org by Jo Ellen Roseman, AAAS, and Mary Koppal, AAAS
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>SATURDAY PM</td>
<td>Reforming Elementary Science Education in Urban Districts</td>
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<td>Org by Leon Uekens, Towson State Univ</td>
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<tr>
<td>SATURDAY PM</td>
<td>The Textbook of the Future</td>
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<td>Org by Caroline M. Eastman, Univ of South Carolina</td>
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<td>SUNDAY AM</td>
<td>Assessing Systemic Reform from National Perspectives to Student Outcomes</td>
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<td>Org by Jane Butler Kahle, Miami Univ</td>
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<td>SUNDAY AM</td>
<td>EFARR Education: Giving Meaning to the Sciences of Life</td>
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<td>Org by Vernon B. Cardwell, Univ of Minnesota, and James Ellis, Bio Sci Curriculum Study</td>
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<td>SUNDAY PM</td>
<td>K-12 Math and Science Education: Is Change Really Taking Place?</td>
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<td>Org by George Campbell, Natl Action Council for Minorities in Engineering</td>
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<td>MONDAY AM</td>
<td>What Works: Successful University-based Outreach Programs</td>
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<td>Org by Bonnie Schmidt, Univ of Western Ontario</td>
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<td>MONDAY AM</td>
<td>The Federal Role in Education: Effects of Changing Attitudes</td>
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<td>Org by George Campbell, Natl Action Council for Minorities in Engineering</td>
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<td>MONDAY AM, PM</td>
<td>Pseudoscience, Biology and the Education of African American Studies</td>
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<td>Org by Joseph L. Graves, Arizona State Univ - West, and Bernard Ortiz de Montellano, Wayne State Univ</td>
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<tr>
<td>MONDAY AM</td>
<td>Using Problem Based Learning to Bolster Achievement for All Students</td>
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<td>MONDAY 2:30PM-4:00PM</td>
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<td></td>
<td>Org by Maxine E. Bleich, Ventures in Education</td>
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<tr>
<td>MONDAY AM</td>
<td>Problem-Based Learning in Undergraduate Science</td>
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<td>MONDAY 4:00PM-5:30PM</td>
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<td>Org by Harold B. White, Univ of Delaware, and Barbara Duch, Univ of Delaware</td>
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<td>TUESDAY AM</td>
<td>“School Crossings” on the Information Superhighway</td>
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<td>TUESDAY AM</td>
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<td>Org by Rosanne W. Fortner, Ohio State Univ</td>
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<td>TUESDAY AM</td>
<td>Building Environmental Science Curricula for Youth and Undergraduates</td>
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<td>TUESDAY AM</td>
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<td>TUESDAY AM</td>
<td>Environment and Science on the Chesapeake</td>
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<td>AM = 8:30AM</td>
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<td>PM = 5:30PM</td>
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<tr>
<td>MONDAY AM</td>
<td>The Middle Atlantic Environmental and Ecological Systems: Strategies for Sustainable Development</td>
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<td>FRIDAY AM</td>
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<td></td>
<td>Org by Christopher K. Mooers, Univ of Miami, and Frederick Grassle, Rutgers Univ</td>
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<td>SUNDAY AM</td>
<td>Preservation of Farmland and Open Space in the Northeast</td>
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<td>Org by Dale Colyer, West Virginia Univ</td>
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<td>MONDAY AM</td>
<td>Our Lancaster County (PA) Neighbors: The Old Order Amish</td>
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<td>Org by Victor A. McKusick, Johns Hopkins Schl of Med</td>
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<td>MONDAY AM</td>
<td>Science, Citizens, and Public Policy in the Chesapeake Bay Program</td>
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<td>Org by M. Grant Gross, Chesapeake Resch Consortium</td>
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<td>MONDAY PM</td>
<td>Biotechnology in Maryland</td>
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<td>Org by William A. Haseltine, Human Genome Sciences</td>
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<td>MONDAY PM</td>
<td>The Restoration of the Chesapeake: A National Paradigm</td>
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<td>Org by Ray Miller, Univ of Maryland, and Alan W. Taylor, Univ of Maryland</td>
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<td>MONDAY AM</td>
<td>Environment and Sustainability</td>
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<td>MONDAY AM</td>
<td>How Many People Can the Earth Support?</td>
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<td>Org by Joel E. Cohen, Rockefeller Univ</td>
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<td>MONDAY AM</td>
<td>Consumption and Population Growth: Twin Challenges to Sustainable Development</td>
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<td>Org by A.R. Palmer, Inst for Cambrian Studies, Albert A. Bartlett, Univ of Colorado, and E-An Zen, Univ of Maryland</td>
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<td>Org by Victoria Domika, AAAS</td>
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<td>SATURDAY AM</td>
<td>Limits to Agricultural Productivity</td>
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<td>Org by Shu Geng, Univ of California-Davis, and Donald A. Holt, Univ of Illinois</td>
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<td>SATURDAY AM</td>
<td>Recovering Tropical Forests: Conservation, Development, and Local Communities</td>
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<td>Org by David Barton Bray, Inter-American Foundation</td>
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<td>MONDAY AM</td>
<td>The U.S. Environmental and Natural Resource Research Strategy</td>
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<td>Org by D. James Baker, Natl Oceanic and Atmospheric Admin, and Ronald Pulliam, Natl Biol Serv</td>
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<td>MONDAY AM</td>
<td>Dredged Material Disposal and Waste Management in the Nearshore Environment</td>
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<td>Org by Gerald M. Friedman, Brooklyn College</td>
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<td>MONDAY AM</td>
<td>Biotechnology and Aquaculture: Finfish Reproduction, Growth, and Development</td>
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<td>Org by Jonathan Zohar, Ctr of Marine Biotech, and Jack Greer, Maryland Sea Grant College</td>
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<td>TUESDAY AM</td>
<td>Engineering Functionality into Foods: Benefits for the Consumer</td>
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<td>Org by Gerald E. Gaul, Georgetown Ctr for Food and Nutrition Policy, and Robin Yeaton Woo, Georgetown Ctr for Food and Nutrition Policy</td>
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<td>FRIDAY AM</td>
<td>Examining Global Change</td>
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<td>FRIDAY AM</td>
<td>The Open Exchange of Environmental Information</td>
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<td>Industry, Technology, and Engineering</td>
<td>Information Age</td>
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<td><strong>Ocean Science and Engineering:</strong></td>
<td><strong>Org by Ronald E. Mickens, Clark Atlanta Univ</strong></td>
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<tr>
<td>Two Cultures Meet in the Ocean</td>
<td><strong>Artificial Life in Cyberspace</strong></td>
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<td>Org by Karl S. Pister, Univ of</td>
<td><strong>Org by Maureen C. Kelly, BIOSIS, and Caroline M. Eastman, Univ of South Carolina</strong></td>
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<td>California, and Peter Brewer,</td>
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<td>Monterey Bay Aquarium Resch Inst</td>
<td><strong>National Information Infrastructure: Access and Use at the People and Policy Level</strong></td>
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<td><strong>Science and Technology in the</strong></td>
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<td>NAFTA Framework**</td>
<td><strong>Building the Health Information Highway: Prognosis for a Cure</strong></td>
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<td>Org by Miguel Jose Yacaman, Univ</td>
<td><strong>Org by Marion J. Ball, Univ of Maryland, and Elliot Siegel, Natl Library of Med</strong></td>
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<td>Natl Autonoma de Mexico, and G.</td>
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<td>Ahmed Meer, U.S. Embassy, Mexico</td>
<td><strong>MONDAY PM</strong></td>
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<td><strong>High-Performance Work</strong></td>
<td><strong>Org by Bonnie C. Carroll, Infor Intl Assoc</strong></td>
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<td>Transformations in Advanced</td>
<td><strong>TUESDAY AM</strong></td>
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<td>Manufacturing**</td>
<td><strong>Org by Alexander Fowler, AAAS</strong></td>
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<td><strong>SATURDAY PM</strong></td>
<td><strong>FRIDAY PM</strong></td>
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<td>Org by Joel Yudken, Work and Tech</td>
<td><strong>Org by Cameron Gordon, Univ of Texas-Austin, and Charles Radin, Univ of Texas-Austin</strong></td>
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<td><strong>Industry/DOE Laboratory</strong></td>
<td><strong>FRIDAY AM</strong></td>
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<td>Technology Partnerships: Do the</td>
<td><strong>Frontiers of the Physical Sciences, 1996</strong></td>
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<td>Taxpayers Benefit?**</td>
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<td>Org by Manvendra K. Dubey, SRI</td>
<td><strong>Org by Norine Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>Int'l, and Darin W. Toohy, Univ of</td>
<td><strong>FRIDAY AM</strong></td>
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<td>California-Irvine</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td><strong>Surface Age Dating in</strong></td>
<td><strong>Org by Paul W. Sabin, Univ of Texas-Austin</strong></td>
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<td>Environmental Studies and</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>Reconstruction of Global Change**</td>
<td><strong>FRIDAY AM</strong></td>
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<td><strong>TUESDAY AM</strong></td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>Org by John F. Shroder, Univ of</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>Nebraska-Omaha, and M. Povitch,</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>U.S. Geol Survey</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td><strong>Interactions of Karst Geology</strong></td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>and Ecology**</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>Org by Daniel L. Chess, IBM Corp,</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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<td>and David Luckins, Natl Speleological Soc</td>
<td><strong>Org by Sally Noonan, Florida Inst of Tech, and Melinda Bier, Florida Inst of Tech</strong></td>
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**Climate Change: The Second Assessment Report of the Intergovernmental Panel on Climate Change**

**Reconfiguration of Floodplain Management Since the Midcontinent Floods**

**Remote Sensing of Climate Sensitive Parameters from Space**

**Social Scientists Contributions to Remote Sensing**

**Assessing Ecological Implications of Changes in Climate**

**Stratospheric Ozone Depletion by Halogens: Recent Achievements, and Continuing Challenges**

**Surface Age Dating in Environmental Studies and Reconstruction of Global Change**

**Interactions of Karst Geology and Ecology**

**Information Age**

**FRIDAY AM**

**Artificial Life in Cyberspace**

**SATURDAY AM**

**National Information Infrastructure: Access and Use at the People and Policy Level**

**SATURDAY PM**

**Building the Health Information Highway: Prognosis for a Cure**

**SUNDAY PM**

**Health Research and Education: Information for the Next Century**

**TUESDAY AM**

**Intelligent Agents: Software Assistants in Finding, Retrieving, and Analyzing Information**

**MONDAY PM**

**Cyberscience: Scientific Life Evolving on the Internet**

**TUESDAY AM**

**Mathematics and the Physical Sciences**

**AM = 8:30AM - 11:30AM**

**FRIDAY AM**

**Org by Rolf M. Sinclair, Natl Sci Foundation**

**All Eyes on the Universe: Multiwavelength Astrophysics**

**SATURDAY AM, PM**

**Org by Ron Allen, Johns Hopkins Univ**

**New Studies of Meteorites**

**SUNDAY AM**

**Org by Rolf M. Sinclair, Natl Sci Foundation**

**Mathematics for the Next Century: Knots**

**SUNDAY 9:30AM-11:30AM**

**Org by Cameron Gordon, Univ of Texas-Austin, and Charles Radin, Univ of Texas-Austin**

**Mathematics for the Next Century: Pattern Formation**

**SUNDAY 2:15PM-4:15PM**

**Org by Martin Golubitsky, Univ of Houston**
Neuroscience, Behavior, and Language

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

The Architecture of the Sign in Signed Languages
FRIDAY AM
Org by Richard P. Meier, Univ of Texas-Austin

Policy, Science, and Engineering

AM = 8:30AM - 11:30AM
PM = 2:30PM - 5:30PM

Young Scientists in Transition: Career Challenges and Science Policy Implications
FRIDAY AM
Org by Eliene Augenbraun, U.S. Agency for Intl Development

"Science Studies" and The Advancement of Science
FRIDAY PM
Org by A. Edward Manier, Univ of Notre Dame

Science on the Editorial Page
FRIDAY PM
Org by Rick E. Borchelt, Exec Offc of the President, and Lynne Friedmann, Friedmann Communication

Assessing Competitiveness in Research
SATURDAY AM
Org by Albert H. Teich, AAAS

Implementation Strategies for "Platform for Action": The U.N. Conference on Women
SATURDAY AM
Org by Dominique Homberger, Louisiana State Univ, Catherine J. Didon, Assoc for Women in Sci, and Linda Thompson, AAAS

Science, Technology, and the States
SUNDAY AM
Org by David H. Guston, Rutgers Univ

Impacts of the 104th Congress on Science and Technology
SUNDAY PM
Org by Steve Nelson, AAAS and Dana Isherwood, Lawrence Livermore Natl Lab

Societal Returns to Investment in Research: New Directions, New Concerns
MONDAY AM
Org by Kenneth M. Brown, Natl Sci Foundation

Communicating with Policymakers: Strategies for Scientists and Engineers
MONDAY PM
Org by Steve Nelson, AAAS

Immigration of Scientists and Engineers: Social and Economic Impacts
MONDAY PM
Org by Sharon G. Levin, Univ of Missouri

Science Careers in a Changing Economy
TUESDAY AM
Org by Alan Fechter, Committee on Pros in Sci and Tech, and Paula M. Rayman, Radcliffe Pub Policy Inst

The Critical Appraisal of Science and Technology Policy Analysis
TUESDAY AM
Org by David H. Guston, Rutgers Univ

Innovative Collaboration: Student-Faculty Partnerships Explore Curriculum Development
TUESDAY PM
Org by Susan Higman, Student Pugwash USA

Practice of Science

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

Analytic Approaches to Fairness
FRIDAY AM
Org by Steven J. Brams, New York Univ

Advances in Peer Review Research
FRIDAY PM
Org by Art Stamps, Inst of Environmental Quality

Not Just Mentors: Educating for the Responsible Conduct of Research
SATURDAY AM, PM
Org by Diane Hoffman-Kim, Massachusetts Inst of Tech, and Stephanie J. Bird, Massachusetts Inst of Tech
Research Ethics: We're All Accountable, So Who's Accounting?
SUNDAY AM
Org by C.K. Gunsalus, Univ of Illinois, and Drummond Rennie, Inst for Health Policy Studies

Ethical Standards for Science and Engineering
SUNDAY PM
Org by Mark S. Frankel, AAAS

Science Survival: A Practicum
TUESDAY AM
Org by Susan Higman, Student Pugwash USA

Public Health and Medicine

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

Entertaining, Educational, or Alarming? Public Health Issues and Popular Perceptions
FRIDAY AM
Org by Marcel LaFollette, Ctr for Intl Sci, and Tech Policy, Sharon Dunwoody, Univ of Wisconsin, and James C. Cornell, Harvard-Smithsonian Ctr for Astrophysics

Medicines Discovery in the 21st Century
FRIDAY AM
Org by David J. Triggle, State Univ of New York-Buffalo

Health Care Reform and the Future of the Academic Medical Center
FRIDAY PM
Org by Barry M. Brenner, Harvard Med Schl

Mathematical Problems in the Diagnosis and Treatment of Disease
FRIDAY PM
Org by David Isaacson, Rensselaer Polytec Inst

Scope of the AIDS Epidemic in the United States
SATURDAY AM
Org by Philip S. Rosenberg, Natl Cancer Inst

AIDS: Epidemiology, Biology, and Prevention of HIV Infection
SATURDAY PM
Org by Richard T. Johnson, Johns Hopkins Hosp, and Thomas C. Quinn, Johns Hopkins Univ

Molecular Medicine Enters the Mouth
SATURDAY PM
Org by Lawrence A. Tabak, Univ of Rochester

1995: A Year of Dramatic Shifts in Health Data Policy
SUNDAY AM
Org by John S. Gardenier, Ctrs for Disease Control, and R. Clifton Bailey, Health Care Financing Admin

Replacement Parts and Implantations for People
SUNDAY AM, PM
Org by Robert S. Langer, Massachusetts Inst of Tech, and James G. Martin, Carolinas Med Ctr

Religious, Social, and Environmental Factors That Influence Disease States
SUNDAY AM
Org by Harold G. Koenig, Duke Univ-Med Ctr, and David B. Larson, Natl Inst for Healthcare Resch

Life Long Health: Beyond the Medical Model
SUNDAY PM
Org by Robert M. Schmidt, California Pacific Med Ctr

Global Change and Emerging Infectious Diseases
MONDAY AM, PM
Org by Paul R. Epstein, Harvard Schl of Pub Health, and Rita R. Colwell, Univ of Maryland

Challenges in the Development of Medications for Opiate and Cocaine Addictions
TUESDAY AM, PM

Alzheimer's Disease: Prospects for the Future
TUESDAY PM
Org by Claudia H. Kawas, Johns Hopkins Univ-Sch1 of Med

Science and International Security

AM = 8:30AM - 11:30AM
PM = 2:30PM - 5:30PM

Ballistic Missile Defense
SATURDAY AM
Org by Scott D. Sagan, Ctr for Intl Security and Arms Control

International Arms Control: Lessons from the UNCOM Experience
SATURDAY AM, PM
Org by Raymond A. Zilinskas, Univ of Maryland-Biotech Inst, and Ed Lacey, U.S. Arms Control, and Disarmament Agency

A Comprehensive Test Ban Treaty: Implications for National Security and Nonproliferation
MONDAY AM
Org by Gregory van der Vink, IRIS Consortium, and Thomas Wanders, AAAS

An Assessment of the Nunn-Lugar Cooperative Threat Reduction Program
MONDAY PM
Org by William Potter, Monterey Inst for Intl Studies

Environmental Stress and Violence in the Developing World
TUESDAY AM
Org by Thomas Homer-Dixon, Univ of Toronto

Environmental Refugees and Ecological Restoration
TUESDAY PM
Stuart M. Leiderman, Univ of New Hampshire

Science and Society

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

Intersection of Environment, Health, Professional Ethics, and Law
FRIDAY AM
Org by Colin L. Soskoline, Univ of Alberta, and Laura Westra, Univ of Windsor

The Sense of Justice: Evolutionary Origins of Moral and Legal Behavior
FRIDAY AM
Org by Roger D. Masters, Dartmouth College, and Margaret Gruter, Gruter Inst for Law and Behavioral Resch

Science, Technology, and Disability: 20th Anniversary Reflections
FRIDAY PM
Org by Virginia W. Stern, AAAS

Women Nobelists: Their Work, Their Lives, and Their Impact on Science
FRIDAY PM
Org by Jaleh Daie, Univ of Wisconsin, and Catherine J. Didion, Assoc for Women in Sci

Growing Up American: Dilemmas of the New Second Generation
SATURDAY AM
Org by Ruben G. Rumbaut, Michigan State Univ

Uncertainty, Science, and the Media
SATURDAY AM, PM
Org by Carol L. Rogers, Sharon Dunwoody, Univ of Wisconsin, and Sharon M. Friedman, Lehigh Univ
Seminars

Origins
This will be an examination of the latest research into the subject of origins. The first day will be devoted to origins of the universe and its elements. It will include the most current ideas, hypotheses, theories, and information from the Hubble Space Telescope and other instruments. The second day will focus on origins of our solar system, the earth, its atmosphere, and on the prebiotic and biotic origins of life.

THURSDAY, FEBRUARY 8,
The Big Bang and the Origin of the Universe
John C. Mather, NASA-Goddard Space Flight Ctr

Large Scale Structure in the Universe and its Origin
Mario Livio, Space Telescope Inst

The Evolution of Galaxies: Protogalaxies to the Milky Way
Anne L. Kinney, Space Telescope Inst

The Origins of Time
Paul Davies, University of Adelaide

The Birth of Stars
Alan P. Boss, Carnegie Institution of Washington

The Origin of the Earth
David J. Stevenson, California Inst of Tech

The Origin of the Atmosphere
Joel S. Levine, NASA-Langley Resch Ctr

Early Life: The Geological Record
J. William Schopf, Univ of California-Los Angeles

Late Life: The Biological Evolution
Lyman Margulis, Univ of Massachusetts-Amherst

Living with the Internet
Org by John W. Berry, Univ of Illinois-Chicago, Alice Calabrese, Chicago Library System, and Robert P. Palank, St. Louis Comm College

What is the Internet? How do I get to it? Once there, what can I do? What software do I need? Simply put, this seminar will equip you to successfully work on the information superhighway. The 1 1/2 day workshop will cover the basics of internet operation, electronic mail, telnet, file transfer, world wide web, netscape, mosaic, gopher, and much more.

In addition, plans are being developed to have hands-on workshops available so that you can try out your new skills. These workshops are presently planned for Saturday, February 10 and Sunday, February 11 in a special facility near the Exhibit Hall. Seminar registrants will be afforded a special opportunity during the seminar to register for these sessions.
Science Innovation presents advances in neuroscience, cardiovascular science, AIDS, and genome research. Afternoon topical lectures will highlight emerging developments in instrumentation and research methodology. (See topicals on page 6.)

**Science Innovation Sessions**

**AM** = 8:30AM - 11:30AM  
**PM** = 2:30PM - 5:30PM

**Neuroscience and Technology:**  
*Non-Invasive Functional Brain Mapping*  
**FRIDAY AM, PM**  
Org by Marcus Raichle, Washington Univ-Sch of Med

**Neuroscience and Technology:**  
*Visual Memory*  
**SATURDAY AM**  
Org by Robert Desimone, Natl Insts of Health

**Neuroscience and Technology:**  
*Unique Experimental Protocols*  
**SATURDAY PM**  
Org to be announced

**Cardiovascular Science and Technology:**  
*Gene Therapy for Vascular Disease*  
**SUNDAY PM**  
Org to be announced

**Cardiovascular Science and Technology:**  
*Vascular Biology: Viruses as a Cause of Cardiovascular Disease*  
**SUNDAY AM**  
Org by Stephen Epstein, NIH

**Cardiovascular Science and Technology:**  
*Cardiac MRI*  
**MONDAY AM**  
Org by Robert Balaban, Natl Insts of Health

**Cardiovascular Science and Technology:**  
*Diseases of the Cytoskeleton and Contractile Apparatus*  
**MONDAY PM**  
Org by James Sellers, Natl Insts of Health

**Signal Transduction**  
**FRIDAY AM, PM**  
Org by Kathleen Kelly, Natl Cancer Inst

**DNA Computing**  
**FRIDAY AM**  
Org by Richard Lipton, Princeton Univ

**Quantum Computation**  
**FRIDAY PM**  
Org by Seth Lloyd, Massachusetts Inst of Tech

**Structural and Molecular Basis of Cancer Vaccines**  
**SATURDAY AM**  
Org by Jill O'Donnell-Tormey, Cancer Resch Inst, and Brian Quinn, Cancer Resch Inst

**Chromosomal Instability as a Causal Factor in Cancer**  
**SATURDAY PM**  
Org by Lawrence Grossman, Johns Hopkins Univ

**Structural Biology**  
**SATURDAY PM**  
Org by Michael F. Summers, Univ of Maryland -Baltimore

**Advances in AIDS Research**  
**SUNDAY AM, PM; MONDAY AM, PM**  
Org by Steven Wolinsky, Northwestern Univ-Med Schl

**Genomics: Bacteria and Plants**  
**SUNDAY AM**  
Org by William A. Haseltine, Human Genome Sciences

**Genomics: Animals**  
**SUNDAY PM**  
Org by William A. Haseltine, Human Genome Sciences

**Reproductive and Developmental Biology:**  
*Innovations in Fertility*  
**MONDAY AM**  
Org by Florence Haseltine, Natl Insts of Health, and Wayne Bardin, Population Council

**Reproductive and Developmental Biology:**  
*Developmental Biology*  
**MONDAY PM**  
Org by Florence Haseltine, Natl Insts of Health, and Wayne Bardin, Population Council

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**REGISTER FOR AMSIE’96 TODAY**

Phone: (202) 326-0417  
FAX: (202) 289-4021  
Internet:  
http://www.aaas.org
Meeting Locations

Baltimore Convention Center
One West Pratt Street, Baltimore, MD 21201
AMSIE'96 activities include: Concurrent Sessions, Science Innovation, Poster Sessions, Chairman's Office, Meeting Registration, Exhibition,

Employment Exchange and Career Development Workshops.

Hyatt Regency Baltimore
300 Light Street, Baltimore, MD 21202
AMSIE'96 activities include: Plenary and Topical Lectures, and Concurrent Sessions.

Stouffer Renaissance Hotel
202 East Pratt Street, Baltimore, MD 21202
AMSIE'96 activities include: Topical Lectures, Seminars, and Concurrent Sessions.

Hotel Information

Hyatt Regency Baltimore
Conveniently located on the Inner Harbor, the Hyatt has been one of the city's foremost hotels since its opening. Connected to the hotel by Skywalk is Baltimore's famous Harborplace, the Gallery, and the Baltimore Convention Center. Other major attractions, including the National Aquarium, the Science Center, and the Imax Theater are all within easy walking distance. The Hyatt Regency offers guests every amenity for a memorable stay: two restaurants, a lounge, health club, in-room views, luxurious comfort, superb service, and more. AMSIE'96 activities located at the Hyatt Regency are Plenary and Topical Lectures and Concurrent Sessions.

Stouffer Renaissance
Awarded the prestigious AAA Four-Diamond Award and the Mobil Four-Star Award, the Stouffer Renaissance Harborplace surrounds guests with superior comforts and personalized extras. It is located on the gleaming waterfront of the Inner Harbor, just two short blocks from the Baltimore Convention Center. Amenities include bilingual concierge service, full secretarial services, 24-hour room service, a fully equipped health club, and an indoor pool. AMSIE'96 activities located at the Stouffer Renaissance will be Topical Lectures, Seminars, and some Concurrent Sessions.

Sheraton Inner Harbor
The Sheraton is located directly adjacent to the Baltimore Convention Center and just one block from the shops, restaurants, and attractions of Baltimore's scenic Inner Harbor. This deluxe high rise hotel offers first class service and prides itself on maintaining a small intimate hotel atmosphere. Each guest room is attractively designed for maximum guests comfort. A fully stocked honor bar, coffee pot, blow dryer, iron, and ironing board are just a few of the amenities in each room.

Marriott Inner Harbor
Located only two blocks from the Baltimore Convention Center, the Marriott offers a health club with an oversized indoor pool, whirlpool, sauna, and fully equipped exercise room. Excellent dining options include the Promenade, an upscale multi-purpose restaurant and the Bumpers Dance Bar featuring music of the 50s and 60s. Oversized guest rooms feature individual climate control, remote control cable TV with pay movies, AM/FM radios, and more.

Local Transportation

Airport Taxi: Cabs are available from Baltimore-Washington International Airport (BWI). Taxi stands are located on the airport's lower level near each exit. The fare from BWI to downtown Baltimore is about $15 (flat rates are illegal).

Airport Super Shuttle: The Super Shuttle departs from BWI Airport for downtown Baltimore hotels every half hour between 6:00 AM and 12:30 AM (except holidays). The price is $10 one way, and $15 round trip. For return trips to BWI, reservations are required two hours in advance. For more information call (410) 859-0800.

Rail: Both Amtrak and the local MARC trains provide rail service between BWI Airport and Baltimore's Penn Station. It is a short taxi ride from Baltimore-Penn Station to all downtown hotels. In addition, Amtrak offers convenient service directly to Baltimore-Penn Station from New York, Newark, Wilmington, Philadelphia, and Washington, DC. For Amtrak rates and schedules call: 1-800-USA-RAIL; or contact MARC at 1-800-325-RAIL.

Parking: All AMSIE'96 hotels have on-site parking. Parking rates for hotel guests range from $8 to $10 per day.

Discount Air Fares

Get discount airfares to AMSIE'96 on two major airlines. Make your reservation on either of the following airlines and save money on airfares for travel to and from Baltimore.

American Airlines: Save with special domestic zone fares (2-night stay minimum, no Saturday night requirement) or save 5% off the lowest applicable domestic coach fares — for travel to and from the Baltimore-Washington Area (including Baltimore-Washington International (BWI), National, and Dulles Airports) between February 5-16, 1996. Seats are limited and some restrictions may apply. For details and to make reservations, you or your travel agent can call:

American Airlines
1-800-443-1790 and give the American Airlines agent the AAAS Star Number: 1826AB

On-Site Registration

AMSIE'96 Registration will be located at the Baltimore Convention Center, unless otherwise indicated. Please note operational hours below.

Thurs Feb 8, 1996 7:00 AM - 12:00 PM Seminar Only Registration

Stouffer Renaissance

2:00 PM - 7:00 PM General Registration

Fri-Mon Feb 9-12, 1996 7:00 AM - 5:00 PM General Registration

Tues Feb 13, 1996 8:00 AM - 1:00 PM General Registration
U.S. Air: Save 10% off unrestricted domestic coach fares (7 day advance purchase required), 5% off the lowest applicable domestic fares, or 5% off first-class fares — for travel to and from the Baltimore-Washington Area (including, Baltimore-Washington International (BWI), National, and Dulles Airports) between February 5-21, 1996. Seats are limited and some restrictions may apply. For details and to make reservations, you or your travel agent can call; U.S. Air: 1-800-334-8644 and give the U.S. Air agent theAAAS Gold File Number: 11120010

Outside the United States, contact your local representative for either of the airlines above.

Field Trips

The field trips described below will take participants to places in the Baltimore-Washington Area that enrich the scientific content of AMSIE'96. The trips will be kept small (as few as 20 people) so that everyone can talk with the leaders and learn from the sites. Separate registration is required, see the AMSIE'96 Registration Form. Early enrollment is advised due to space limitations. Field trips are limited to AMSIE'96 registrants and their guests. AAAS reserves the right to cancel a scheduled field trip due to insufficient registration. In the event of such cancellations, fees will be fully refunded except where noted.

Columbus Science Center
Duration: Half Day
Date: Thursday, February 8, 1996 Time: 1:00 PM - 5:00 PM

Date: Tuesday, February 13, 1996 Time: 8:30 AM - 12:30 PM Cost: $5 AAAS Member/$7.50 All Others. No refund.

A fascinating new science center opening a few months after the meeting. AMSIE'96 has arranged a special tour that includes discussions with the center's researchers and developers about the concept, goals, and plans of the center. Tour participants will be among the first to visit this beautiful, new facility that highlights the importance of the worlds marine environment and its diversity. State-of-the-art interactive exhibits will take the group from the global to the atomic levels in organization. In addition, you will also explore the role of modern molecular biology and view the working laboratories of what is expected to be a world-class research facility.

NASA Goddard Space Flight Center
Duration: Half Day
Date: Tuesday, February 13, 1996 Time: 8:30 AM - 12:30 PM Cost: $25 AAAS Member/$30 All Others. Price includes transportation.

In cooperation with the NASA Goddard facility a specially-developed tour is being prepared for AMSIE'96 registrants and their guests. Participants will not take the regular public tour, but instead will meet NASA staff scientists and will examine important areas of the research and development activities of this major aerospace center.

Johns Hopkins Applied Physics Laboratory
Duration: Half Day
Date: Thursday, February 8, 1996 Time: 1:00 PM - 5:00 PM Cost: $25 AAAS Member/$30 All Others. Price includes transportation.

Special arrangements are underway for a tour of the Applied Physics Laboratory at Johns Hopkins University. Participants will have the opportunity to meet staff scientists; discuss the ongoing work of the facility; and view specific research projects.

U.S. Department of Agriculture - Beltsville Agricultural Research Center
Duration: Half Day
Date: Tuesday, February 13, 1996 Time: 12:30 PM - 5:00 PM Cost: $25 AAAS Member/$30 All Others. Price includes transportation.

Modern agriculture is rapidly moving towards low-input, sustainable methods that are environmentally responsible. This specially designed tour of a major USDA facility will provide the opportunity for participants to examine the newest and emerging agricultural methods and to view the ongoing research in sustainable agriculture.

Special Events

AAAS Public Science Day
Thursday, February 8, 1996
This year's Public Science Day will bring together thousands of Baltimore citizens, especially K-12 students and local science resources. Participants will enjoy a full day of events that include special programs, activities and field trips that emphasize the importance of science and technology in our daily lives. Students will learn about scientific careers and course selections; they will participate in technologies of the future through workshops and activities conducted by scientists, such as hands-on science and mathematics experiments; scientists will be linked to classrooms throughout the state via interactive video; and grandparents will take preschooolers to the National Aquarium to see how the fish and other animals are cared for and trained. The grand finale includes an exciting Family Night program.

For more information contact: Amie Hubbard at (202) 326-6760; or on the internet at: ahubbard@aaas.org.

American Junior Academy of Science (AJAS)
The 1996 AJAS Meeting will be held in conjunction with AMSIE'96. Over the course of four days, the AJAS will showcase the work of promising future scientists from across the country. These premier high school students will share their award winning work in oral and poster presentations.

Students will participate in a host of academic, social and cultural events including visits to the Smithsonian Environmental Research Center, Maryland Science Center, National institute on Drug Abuse Addiction Research Center, University of Maryland Center of Marine Biotechnology, and the Baltimore National Aquarium. The grand finale includes an Awards Banquet where students will be recognized for their accomplishments followed by a moonlight cruise on the Chesapeake Bay.

For more information contact: Gloria J. Takahashi at (213) 744-3384 or in California, call (818) 339-2173

Barrier-Free Environment

Accommodations for people with disabilities are provided upon request at all general lectures and other sessions. Services include interpreters for the deaf or hearing impaired, audiotaped highlights for the blind or visually impaired, and mobility assistance. In addition, a resource room for people with disabilities will be available in Room 315 of the Baltimore Convention Center. Please make sure to check the special needs box on the registration form. AAAS will contact you before the meeting.

AAAS Employment Exchange

The AAAS Employment Exchange/Job Fair and the Career Development Seminars and Workshops will take place at the Baltimore Convention Center.

Career Development Seminars and Workshops:
February 10-12, 1996 8:30 AM - 5:30 PM

Employment Exchange/Job Fair
February 12-13, 1996 10:00 AM - 4:00 PM
**ADVANCE REGISTRATION FORM**  
**Advance Deadline: January 5, 1996**

The AAAS Annual Meeting & Science Innovation Exposition*  
February 8-13, 1996  
Baltimore, MD

---

### I. REGISTRANT INFORMATION *(Please type or print clearly; allow 40 characters per line for name and institution)*

<table>
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### II. PATRON/SPECIAL NEEDS/SPECIAL RATES VERIFICATION

- [ ] Check here if AAAS Patron
- [ ] Check here if special needs due to disability

To qualify for Student or *Special registration fees, please complete the appropriate line below:

- [ ] Student: Institution Name: ____________
- [ ] Postdoc: Chairperson's Name: ____________
- [ ] K-12 Teacher: Principal's Name: ___________
- [ ] Retired: Year of Retirement: ___________

---

### III. ADVANCE REGISTRATION FEES *(Special = Retired, K-12 Teacher, Postdoctorals.)*

#### A. CONFERENCE

**AMSI96 Passport:** Unlimited access – Full entry to all sessions - General Meeting, Science Innovation, all Seminars; plenary and topical lectures, exhibition hall and workshops.

<table>
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<td>$180</td>
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<tr>
<td>Student* Registrant</td>
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<td>$130</td>
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**General Meeting Symposia:** Entry to the General Meeting symposia, plenary and topical lectures, exhibition hall and workshops only.

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<tr>
<td>Student* Registrant</td>
<td>$30</td>
<td>$50</td>
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**Science Innovation Symposia:** Entry to the Science Innovation symposia, plenary and topical lectures, exhibition hall and workshops only.

- [ ] All Registrants: $100
- [ ] Special = Postdoc, retired, and K-12 Teacher

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#### B. EACH SEMINAR

Please specify seminar below.

- [ ] Origins Seminar
- [ ] Living with the Internet Seminar
- [ ] Living with the Internet Seminar

---

#### C. ONE DAY ONLY

Please specify day below.

- [ ] Thurs  
- [ ] Fri  
- [ ] Sat  
- [ ] Sun  
- [ ] Mon  
- [ ] Tues

---

#### D. MEMBERSHIP *

If you are not a AAAS member, you can join now by checking the appropriate box below – and take advantage of the discounted member registration fees. You’ll also get a year’s subscription (5 issues) to the journal SCIENCE at the lower 1995 rate.

- [ ] Member  
- [ ] Student Member  
- [ ] Postdoc Member  
- [ ] Retired Member

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#### E. OPTIONAL

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<th>Non-Member</th>
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<tr>
<td>Field Trips: Please specify field trip(s) and number of people. Prices are per person.</td>
<td>$25</td>
<td>$30</td>
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<tr>
<td>Columbus Sci Ctr</td>
<td>$5</td>
<td>$7.50</td>
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<tr>
<td>Check date for Columbus Center: 2-8-96</td>
<td>2-13-96</td>
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<tr>
<td>NASA Goddard</td>
<td>$25</td>
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<td>Johns Hopkins</td>
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### IV. PAYMENT

Check appropriate boxes under section III A, B, C or D and write in Advance Fees below.

**A. CONFERENCE FEES:**

AMSI96 Passport (Unlimited Access) .............................................. $**

*Note: Seminars and Science Innovation are free to AMSI96 Passport registrants, but you must indicate below the program(s) you plan to attend:

- [ ] Origins Seminar
- [ ] Living with the Internet Seminar
- [ ] Science Innovation

General Meeting Symposia .............................................. $**

Science Innovation Symposia .............................................. $**

**B. SEMINARS:**

- [ ] Origins Seminar .............................................. $**
- [ ] Living with the Internet Seminar .............................................. $**

**C. ONE DAY ONLY** .............................................. $**

**D. MEMBERSHIP DUES** if joining now .............................................. $**

**E. OPTION FEES**:

- [ ] Exhibit Only Pass .............................................. $**
- [ ] Field Trip Total .............................................. $**

**Total Amount** .............................................. $**

Payment Method:

- [ ] Check enclosed
- [ ] Original purchase order enclosed
- [ ] Charge to my:  
  - [ ] VISA  
  - [ ] MasterCard  
  - [ ] AmEx

(No other cards accepted)

Credit Card Number:  
Signature:  
Exp. Date:  

---

### V. HOW TO REGISTER

**American Association for the Advancement of Science**  
**Advance Registration Deadline 1/5/96**

**PHONE:**  
(202) 326-6417 (Credit card payments only.)  
(202) 289-4021 (Credit card payments only.)

**FAX:**  
(202) 326-6417 (Credit card payments only.)  
(202) 289-4021 (Credit card payments only.)

**MAIL:**  
AAAS  
Meetings Dept.  
P.O. Box 630285  
Baltimore, MD 21236

**Important Notes:**

1. Students, postdocs, K-12 teachers, and retired members must complete the verification information to be accepted at the special registration rates.

2. Membership dues indicated herein are the 1995 rates. Although dues will increase on January 1, 1996, the 1995 rates are guaranteed through February 8, 1996 for registration of the annual meeting. $50 of dues plus international postage are allocated to SCIENCE. Please allow up to 4 weeks for receipt of your first issue of SCIENCE.

3. Cancellations must be received in writing by January 5, 1996. No refunds will be made for cancellations received after this date. Refunds are subject to a $25 cancellation charge and will be processed after the meeting.

4. Checks must be in United States currency and must be payable on a United States bank.  

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[2] Membership dues indicated herein are the 1995 rates. Although dues will increase on January 1, 1996, the 1995 rates are guaranteed through February 8, 1996 for registration of the annual meeting. $50 of dues plus international postage are allocated to SCIENCE. Please allow up to 4 weeks for receipt of your first issue of SCIENCE. Canadian rates include GST #125468122.

[3] Cancellations must be received in writing by January 5, 1996. No refunds will be made for cancellations received after this date. Refunds are subject to a $25 cancellation charge and will be processed after the meeting.

[4] Checks must be in United States currency and must be payable on a United States bank.
**Housing Form**

The AAAS Annual Meeting & Science Innovation Exposition  •  February 8-13, 1996  •  Baltimore, MD

**Instructions:** Please complete section 1, 2 and 3 below (if not legible, form will not be processed). All reservations must be made through the Baltimore Area Convention and Visitors Association (BACVA) Housing Bureau by mail or fax. NO PHONE REQUESTS WILL BE ACCEPTED. The bureau will acknowledge receipt of your reservation within 10 days by mail. No fax acknowledgments possible. Room confirmation will be mailed by the hotel. Confirmations will be sent to the individual below. **Reservations must be made by January 5, 1996.** After this date, hotel space and convention rates may not be available.

**I. Room Request** Please use a separate form for each room request. (This form may be copied.)

Name:

Institution:

Address:

City:  State:  Zip:

Country:

Daytime Telephone Number: ( )

Room Request: □ 1 bed, 1 person  □ 1 bed, 2 people  □ 2 beds, 2 people  □ 2 beds, 3 people  □ 2 beds, 4 people

Special Needs: □ Wheelchair accessible room  □ Non-smoking room  □ Other

Arrival Date:  Departure Date:

Arrival Time:  Departure Time:

**II. Hotel Preference**

Please list all four choices by code. All hotel rates are subject to 12% sales tax.

1.  2.  3.  4.

<table>
<thead>
<tr>
<th>HOTELS</th>
<th>CODE</th>
<th>Single</th>
<th>Double</th>
<th>Each Additional Person</th>
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<td>Hyatt Regency Baltimore*</td>
<td>HYATT</td>
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<td>Stouffer Renaissance*</td>
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Room rates include $1 per night surcharge to help defray AAAS meeting costs. * Meeting activities will take place in the Baltimore Convention Center, the Hyatt Regency and the Stouffer Renaissance.

LIST FULL NAME OF ADDITIONAL ROOM OCCUPANTS:

1.  2.  3.  4.

**III. Method of Payment**

A credit card number or room deposit of $100 must accompany this form. Forms received without credit card information or check will not be processed. BACVA accepts no liability once deposits are transferred to the assigned hotel.

Please check one: □ VISA  □ MasterCard  □ American Express  □ Discover
□ Diners Club  □ Check Enclosed (payable to BACVA Housing Bureau)

Credit Card Number #:

Expiration Date:

Signature:

Changes/cancellations: reservation changes should be made directly with your assigned hotel. Cancellations must be made through your assigned hotel no later than 72 hours prior to arrival to receive a refund of your deposit.

**IV. Mailing Instructions**

MAIL THIS FORM AND DEPOSIT TO:
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FAX: (410) 659-7313 (credit card reservations only)
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For more information, contact Kevin Bullock

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FAX: (202) 289-4021 E-mail: kbullock@aaas.org

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ASSOCIATE DIRECTOR FOR RESEARCH

The Markey Cancer Center at the University of Ken
cucky is seeking candidates at all levels to serve as ASSOCIATE DIRECTOR for Research. This individual will coordinate cancer related research initiatives involving the Markey Cancer Center and 24 departments and six colleges at the University of Ken
cucky, providing leadership in the definition, articulation, and promotion of interdisciplinary research programs of the center. The successful candidate should have a broad, well-prov
onstrated record of accomplishment in a cancer-related field of research, an interest in fostering the development of new projects, and collaborations in all areas of cancer research, and leadership abilities. The applicant will receive a primary appointment in an appropriate department of the College of Medicine of the University of Kent
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duction, Specialized Animal Care, Biostatistics, Tissue Processing and Banking, and Proteomics. Research Imaging and Scanning Center, and a Clinical Research Office. Applicants with the Ph.D. or M.D. degree should send their curriculum vitae, copies of reprints, a brief summary of research accomplishments, a list of current and proposed projects, and a statement of research interests to: Dr. Lewis G. Smith, Associate Director Search Committee, Markey Cancer Center, University of Kentucky, 750 Rose Street, Lexington, KY 40536-0093. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK ASSISTANT PROFESSOR
TUFTS UNIVERSITY
CONSERVATION BIOLOGIST

Conservation Biology. The Department of Biology in
evites applications from ecologists addressing questions related to biodiversity, evolution and conservation at the pe
ditional or community level. The position will begin in fall 1996. Applicants must have a Ph.D.; teaching and post
doctoral experiences are important. Research should emphasize community structure and ecological interactions in any terrestrial or aquatic habitat. Duties will include participa
ation in university-wide environmental programs, and teaching a four-course load, including an introductory environ
mental and conservation biology. Candidates will be expec
ted to develop an active research program involving undergraduates and graduate students in biology. Ap
lications should include curriculum vitae, reprints of up to three publications, and statements of 1) present and fu
ture research plans, 2) teaching interests, and 3) interest in interdisciplinary environmental programs. Please send application and have three letters of recommendation sent to: Professor Jan A. Pechenik, Biology Search Com
mittee, Tufts University, Boston, MA 02155. All com
pleted applications must be received by December 18, 1995. Tufts University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ENVIRONMENTAL PLANT BIOLOGIST

The Department of Biology, University of South Flor
ida (USF), anticipates a nine-month tenure-track, ASSISTANT PROFESSOR position starting fall 1996. Candidates must have a Ph.D. in molecular biology or closely related fields, preferred, and be able to teach undergraduate courses in ecology, evolution, or genetics, including a team-taught course in environmental science, and graduate courses in specialized areas. Supervision of M.S. and Ph.D. students is expected. Areas of particular interest include physiological, molecular, or landscape ecology, or conservation or evo
lutionary biology. USF is the second largest urban university in Florida, is a comprehensive research/teaching university. The Department has 32 faculty members and over 65 graduate students in the four areas of Biological Sciences. For further information, please contact Dr. Ken Marley, Department of Biology, University of South Florida, Tampa, FL 33620-5100. USF is an Equal Oppor
tunity/Affirmative Action/Disabled Applicant Employer. Applications will be accepted until the position is filled. Send letter of application, a complete curriculum vitae including telephone numbers and addresses, and a listing of all publications, copies of all transcripts (originals re
quired upon employment), three letters of recommen
dation, a brief statement of teaching experience and philosophy, and a brief statement of research interests to: Dr. Ken Marley, Department of Biology, University of South Florida, Tampa, FL 33620-5100. USF is an Equal Opportunity/Affirmative Action/Disabled Applicant Employer.

ASSISTANT PROFESSORS
CHEMISTRY AND PHYSICS
Southeastern Louisiana University (SLU)

The Department of Chemistry and Physics at South
eastern Louisiana University invites applications for three to
fve assistant professorships in Chemistry. Salary for these Pos
itions is negotiable. Deadline: January 15, 1996. Qualifications: undergraduate degree in chemistry and Ph.D. in either chemistry or biochemistry from an accredited university. Preference will be given to candidates with a specialization in analytical, physical, and biochemistry. Applicants must possess a strong commitment to undergraduate teaching, not only in their area of spe
cialization, but also in introductory courses, and service courses, and be prepared to develop a vigorous, independent re
search program that will attract outside funding. Addi
ional emphasis will be placed on instrumental and labora
tory skills. Responsibilities: teach undergraduate courses in chemistry and/or biochemistry; develop active re
search program involving undergraduates in area of expertise; establish record of scholarly activity and publica
tions; serve as academic advisor to chemistry majors; participate in department, college, and university service. Salary: commensurate with experience and qualifications. Applications will be accepted until the positions are filled. Send letter of application, a complete curriculum vitae including telephone numbers and addresses, and a listing of all publications, copies of all transcripts (originals re
quired upon employment), three letters of recommen
dation, a brief statement of teaching experience and philosophy, and a brief statement of research interests to: Dr. Robert W. Egan, Chair, Department of Chemistry and Physics, Southeastern Louisiana University, SLU 878, Hammond, LA 70402. SLU is an Affirmative Action/ Equal Opportunity Employer.

POPPULATION GENETICIST

The Division of Biological Sciences at the University of Missouri-Columbia (MU) continues a multi-year hiring program with a tenure-track ASSISTANT PROFES
SORSHIP for a population geneticist with a strong back
ground in evolutionary theory. The ideal candidate will employ theoretical or molecular techniques in the study of natural or experimental populations with an emphasis on the mechanisms of evolutionary change. Opportuni
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plinary programs in genetics and molecular biology, and the Division has major research programs in the evolution of behavior and plant population biology. A highly com
petitive salary, excellent start-up package, modern re
search laboratories, and an active graduate program pro
vide an extremely strong intellectual environment. Candidates should have postdoctoral experience, demonstrated po	ential for creative research, and a commitment to teach
ing at both the undergraduate and graduate level. Send cur
riculum vitae, reprints of publications, statement of re
search and teaching interests, and three letters of refer
ence to: Dr. John David, Division of Biological Sciences 105 Tucker Hall University of Missouri-Columbia Columbia, MO 65211

Applications should be received by December 1, 1995 to receive full consideration. MU is an Equal Opportunity/ Affirmative Action/Equal Access Institution. We are firmly com
mitted to fostering an environment of diversity on our faculty and strongly encourage applications from minorities and women.

VERTEBRATE BIOLOGIST/ECOLOGIST

The Department of Biology of Carroll College, a coed
cational, small, Catholic, liberal arts college, invites ap
plications for a full-time (academic year), tenure-track ASSISTANT PROFESSOR to begin Fall 1996. Ph.D. de
gree is required. Teaching responsibilities include Ecology, Comparative Anatomy, Life Science for non-majors, and a seminar for biology majors. The Biology Department has ten fac
ulty members and seven laboratories, including a Museum of Natural History, a Herbarium, and a vertebrate prep laboratory. The College is located near the community of Helena, Montana, with nearby access to an extensive natural area. Applications are particularly encouraged from candidates who have demonstrated an ability to work effectively with a diverse student body, and who will contribute to the diversity of our faculty and student body. Review of applications will begin January 15, 1996. Send letter of application, a brief vita, copies of selected publications, a statement of teaching philosophy, and three letters of recommendation to: Dr. Jeff Stanger, Vice President, Carroll College, 1100 North Benton Avenue, Helena, MT 59625-0002. Carroll College is an Equal Opportunity/Affirmative Action Employer.
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The University of Rochester is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Division of Medical Oncology, Department of Medicine, at the University of Texas Health Science Center at San Antonio (UTHSCSA) has a Research FACULTY POSITION in Molecular Pathology in its National Cancer Institute-designated Cancer Center and NIH-funded breast cancer growth program. Participation by the investigator in existing research areas including mechanisms of tumor suppression, genetic instability in breast cancer, breast tissue and cell lines, gene expression and signal transduction, and respective mouse models, as well as development of an independent research area is desired. Minimum requirements are a Ph.D. degree in molecular and/or cell biology, postdoctoral training, and one to two years of experience preferred. The position requires U.S. citizenship or permanent residency status. Appointment will be at the Instructor or Assistant Professor level. Send curriculum vitae, letter of research interest, and the names of three references to: C. Kent Osborn, M.D., Department of Medicine/Medical Oncology, UTHSCSA, 7703 Floyd Curl Drive, San Antonio, TX 78284-7884. The UTHSCSA is an Equal Opportunity/Affirmative Action Employer. Women and Minorities are encouraged to apply.

TWO TENURE-TRACK POSITIONS

1) Plant Physiologist to teach botany, plant physiology, and general ecology. Candidates should have a Ph.D. in plant physiology, a minimum of two years of postdoctoral research experience, and a commitment to excellence in teaching. The candidate should have a strong publication record with experience in research and the ability to teach undergraduate and graduate courses. Send letter of application, curriculum vitae, copies of three recent publications, and the names of three references to: Dr. E. B. Wilkins, Department of Botany, University of Michigan, Ann Arbor, MI 48109-1071. Review of applications will begin December 20, 1995, and continue until all positions are filled.

2) Bird Biologist to teach ornithology and avian behavior. Candidates should have a Ph.D. in ornithology or a related discipline and have a strong publication record in ornithology. The candidate should have a commitment to excellence in teaching and an interest in community service. Send letter of application, curriculum vitae, copies of three recent publications, and the names of three references to: W. W. Hooper, Department of Biology, Michigan State University, East Lansing, MI 48824. Review of applications will begin December 15, 1995, and continue until all positions are filled. Salary and rank will be commensurate with qualifications.

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ENVIRONMENTAL SCIENTIST ASSISTANT PROFESSOR

The Environmental Science Program of DePaul University seeks an ASSISTANT PROFESSOR. Areas of interest include applied ecology or conservation biology. The successful candidate will need to make a significant commitment to undergraduate education, including teaching courses to non-majors. An active research program is expected and supported. A letter indicating interest in the position, your teaching philosophy, and possible research interests should be sent, along with a curriculum vitae, to: The Program Director, Environmental Science Program, DePaul University, 2320 North Kenmore, Chicago, IL 60614-3298. The review and selection process will begin on December 15, 1995, although applications received after that date may be considered. DePaul University practices Equal Opportunity in Employment and Education.

Biology: Cornell College, a private undergraduate liberal arts college, invites applications for a TENURE-TRACK appointment in its Department of Biology. Responsibilities will include teaching introductory courses in genetics, cell biology, and evolution, seminar in evolution, and upper-level courses in botany (plant physiology, plant taxonomy/systematics, and biological problems). The successful candidate will be expected to teach introductory level courses for majors and to develop introductory level courses for non-majors. Applicants should arrange to have the assistant professor letter begin in the fall of 1996. Shared full-time commitment will be considered. Ph.D. required; postdoctoral experience and college teaching experience preferred. Cornell College has attracted highly qualified students into its distinctive academic calendar under which faculty teach and students take one course at a time in month-long terms. The College is committed to excellence in teaching and encourages interdisciplinary interests among its faculty. Candidates for this position should have the ability to develop a research program that incorporates undergraduate students. Send letter, curriculum vitae, and three letters of reference to: Ms. Ann Opats, Assistant for Academic Recruitment, Cornell College, 600 First Street West, Mount Vernon, IA 52314. Consideration is given to applications beginning December 1, 1995. Cornell College is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.

Chemist. Sarah Lawrence College, a liberal arts college dedicated to women, seeks a full-time faculty member in a broadly trained individual for a TENURE-TRACK position in general or organic chemistry, beginning fall 1996. Working closely with students on a daily basis is essential. Candidates will also be expected to develop additional courses of interest to liberal arts undergraduates. Ability to teach courses in related areas, such as environmental chemistry, is desirable. Send curriculum vitae or résumé, three letters of recommendation, and statement of teaching interests by December 15, 1995 to: Dr. Gene Rinchik, Sarah Lawrence College, Bronxville, NY 10708. Equal Opportunity Employer. Applications from women and minorities are encouraged.

PLANT TAXONOMY/BIOLOGY


Assistant Professor: Chemistry, tenur- track, starting August 1996. Must have completed Ph.D. by July 1, 1996. Approved since 1987, department awards ACS-certified degrees in chemistry, chemistry with biochemical emphasis, and interdisciplinary degree in biochemistry. Four full-time faculty utilize modern instrumentation such as GC, HPLC, AA, FTIR, and UN/Vis and fluorescence spectrophotometers. Will teach physical and analytical chemistry, share responsibilities in introductory chemistry. Specialty in physical or analytical chemistry, practical experience with a wide variety of computer-controlled instrumentation. Collaborative research with undergraduates. Chair: Dr. Linda Hodges, Agnes Scott College, Campbell Hall.

Visiting Professor (rank open), Women in Science, during 1997-98, full-time or half-time. Responsibilities include teaching and faculty development seminars. Salary commensurate with rank and qualifications. Desirable experience teaching women in science. Chair: Dr. Roger Senecal, Biology, Bryn Mawr. Send applications and letters of recommendation to: Dr. Larry Martin, Dean, School of Arts and Sciences, Missouri Southern State College, 3505 East Newman Road, Joplin, MO 64801. Questions may be addressed to: Dr. John Rinchik, Sarah Lawrence College, Bronxville, NY 10708. Equal Opportunity Employer.

Assistant Professor: Cell Biology, Tenure-Track,
THE 1996 LOUISA GROSS HIRWITZ PRIZE

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University, and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805-1889), a prominent surgeon of Philadelphia, and author of the outstanding "Systems of Surgery," who served as president of the American Medical Association.

Each year, since its inception in 1967, Columbia University has awarded the Louisa Gross Horwitz Prize for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 1995 awardee was Leland H. Hartwell, Ph.D., Professor of Genetics at the University of Washington, in Seattle, WA.

QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Prospective recipients should be nominated to the Chairman of the Louisa Gross Horwitz Prize Committee, Dr. David I. Hirsh. Nomination letters should include:

1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee's most significant publications relating to the research noted under Item 1.
5. A copy of the nominee's curriculum vitae.

An original and twelve (12) copies of each nomination should be sent to: Dr. David I. Hirsh, Chairman of the Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York, New York 10032.

Deadline for receipt of nominations is January 19, 1996.

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Curriculum Vitae and the names of three references should be mailed to:
Dr. Douglas C. Youvan, CSO
KAIROS Scientific Inc.
3350 Scott Blvd., Bldg. 62
Santa Clara, CA 95054 USA

Screening Sciences

COR Therapeutics, Inc. is a publicly-held biopharmaceutical company located in the San Francisco Bay Area. We are focused on the discovery and development of novel therapeutics for the treatment of severe cardiovascular disease.

We are seeking an individual with creative skills in bioassay research and development to work in our Screening Sciences Group. The position will be responsible for the management of COR's high throughput screening (HTS) operation of chemical and natural product libraries and will include development of an automated screening program, supervision of COR's HTS assays, and research in new areas of assay technology. Candidates should have a Ph.D. in Biochemistry or related field with 2-3 years postdoctoral experience in bioassay development and/or characterization. Experience with assay robotics and computer assisted data analyses are required as well as a solid understanding of biochemical reaction mechanisms. A background in enzymology or molecular pharmacology is required. Familiarity with the use of statistical models in the development of assay validation protocols is highly desirable. Previous supervisory experience would be a plus. Qualified non-Ph.D.s are encouraged to apply.

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PODSTIONS OPEN
ASSISTANT PROFESSOR, ENVIRONMENTAL SCIENTIST

Illinois Benedictine College is seeking a tenure-track environmental scientist as the ASSISTANT PROFESSOR, to begin August 1996. Ph.D. required. Successful candidate will have terrestrial ecological background and experience; be prepared to teach introductory biology courses and upper-level courses in speciality and to develop a research program involving undergraduates. Cover letter and curriculum vitae should be sent by December 1, 1996, to: Father Joseph F. Hughes, C.S.O., President, Illinois Benedictine College, 5700 College Road, Lisle, IL 60532. Applications will be considered until the position is filled.

INTEGRATIVE BIOLOGIST

Tenure-track, ASSISTANT PROFESSOR, beginning fall 1996. Preference will be given to broadly trained applicants who use modern approaches to study integrative processes at the organismal or population level. Areas of particular interest are evolution, environmental physiology, or behavior. The successful candidate will be expected to obtain extramurally funded research grants, develop a search program and participate in teaching at the undergraduate and graduate level. Generous set-up funds are available. Applicants should send a statement of research and teaching experience and interests, curriculum vitae, and three letters of recommendation by 15 January 1996, to: Chair, Integrative Biology Search Committee, Department of Biology, Illinois State University, Normal, IL 61761.

ASSISTANT PROFESSORS

DEPARTMENT OF BIOLOGY
Valdosta State University

The Department of Biology is seeking applicants with Ph.D. for the following four tenure-track positions at the level of ASSISTANT PROFESSOR: (1) Entomologist; (2) Geneticist; (3) Plant Pathologist; to develop a basic and advanced genetics course; (4) Aquatic Biologist, must be able to develop a course in ecology. Research preferences are open for all positions. Appointments are for the fall of 1996. Applicants should submit a letter of application, vita, statement of teaching philosophy and research interests, a curriculum vitae, and three letters of reference by 2 January 1996, to: Dr. David L. Becher, Department of Biology, Valdosta State University, Valdosta, GA 31698. Valdosta State University is an Equal Opportunity/Affirmative Action Employer.

THE CLEVELAND CLINIC FOUNDATION

Facility Position in Inflammatory Bowel Disease Research

We are seeking an individual at the level of ASSISTANT/ASSOCIATE PROFESSOR to develop a basic laboratory research program in inflammatory bowel disease. The position is jointly sponsored by the Research Institute and the Departments of Gastroenterology and Colorectal Surgery. The successful candidate will possess or exhibit the potential to develop an outstanding national reputation as a basic scientist using cellular and molecular approaches to study the pathogenesis of IBD, including, but not limited to, cytokine and growth factor action, signaling pathways, and immune cell function. This position will be provided with generous support for salary and fringe benefits that are highly competitive. The Cleveland Clinic Research Institute has a long standing commitment to excellence in basic and applied biomedical research with an annual research budget in excess of $50 million. A curriculum vitae and names and addresses of three references should be sent to: Dr. Thomas A. Hamilton, Department of Immunology, Research Institute, Cleveland Clinic Foundation, NNN, 9500 Euclid Avenue, Cleveland, OH 44195.

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

BIOMEDICAL SCIENCE

Hampshire College is expanding its program in biomedical science and health science with the appointment of two faculty positions at the Assistant Professor level (Ph.D. required): Six-week summer teaching assistant in:
1) HUMAN BIOLOGIST working in disciplines such as epidemiology, immunology, reproduction, or endocrinology.
2) MOLECULAR/CELLULAR BIOLOGIST working in areas such as immunology, organic toxicology, or molecular genetics.

Hampshire College offers a stimulating and supportive environment for interdisciplinary teaching and collaborative research. We are looking for scientists to help develop our curriculum through the creation of courses combining their research interests. Courses are designed to engage students in hands-on research. Current faculty have research interests in areas such as women and AIDS, food security in Africa, international health, tourism and health in the Yucatan, undernutrition in local inner city schools, water quality in Sri Lanka, and maternal mortality in Native American populations.

Application review begins on January 2, 1996. Send letter of application, vita, and the names of three referees to the search secretary.

Laurie Smith
Hampshire College
School of Natural Science

Email questions to: lns@hamp.hampshire.edu

The University of Southern California has recently received a three-year, $1.5 million grant from the National Aging Research Institute for the Tashjian Family Chair in Neurodegenerative Disease to fund a center on Alzheimer's disease and its was to study the disease of women. The position is available immediately.

The University of Southern California is an Equal Opportunity/Affirmative Action Employer:

NEUROGERONTOLOGY INSTITUTIONAL PHYSICIAN SCIENTIST PROGRAM

The University of Southern California has recently received a three-year, $1.5 million grant from the National Aging Research Institute for the Tashjian Family Chair in Neurodegenerative Disease to fund a center on Alzheimer's disease and its was to study the disease of women. The position is available immediately.

The University of Southern California is an Equal Opportunity/Affirmative Action Employer:

PLANT MOLECULAR GENETICIST

The Department of Molecular Genetics and Cell Biology at the University of Chicago is seeking applications for a full-time, tenure-track assistant professor in the area of molecular biology. The Department seeks to complement its active research program and to develop a new graduate program in plant molecular biology. The applicant is expected to contribute to a rapidly developing section of the Department and to contribute to the effort to develop a new graduate program. The applicant is expected to develop a research program in plant molecular biology. The position is available immediately. The University of Chicago is an Equal Opportunity/Affirmative Action Employer.

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The Strengths Of Serono

The Ares Serono Group is a pioneering organization widely recognized for turning specific challenges into achievements. At Ares Advanced Technology, we employ state-of-the-art methods in Structural Biology, Cell Biology, Molecular Biology and Protein Chemistry to discover and evaluate new biopharmaceutical agents of clinical importance. The exciting, ongoing success of our product portfolio and research projects has justified the need to add gifted individuals to our staff. Exclusive stability, innovative products, an entrepreneurial environment and our emergence as a fully integrated company means Ares Advanced Technology can offer you what no one else can—The Best of Biotech.

The Strengths Of Serono

PRINCIPAL INVESTIGATOR

Protein Purification

In this position, you will take a lead role in the design, execution and optimization of purification methods used to isolate natural and/or recombinant proteins in support of ongoing projects. In addition, you will participate in the evaluation of new processes as novel therapeutic agents or targets for drug development. Through literature research and attendance at meetings, you will help maintain a state-of-the-art Protein Chemistry Laboratory, making significant contributions to drug discovery and research. Requirements for this position include a Ph.D., a minimum of 4 years' experience, expertise in protein isolation, and familiarity with HPLC and ligand- and immuno-affinity techniques. A knowledge of GLP/GMP guidelines is desirable but not required. Excellent oral and written communication skills are essential. Reference Dept. FC45

PRINCIPAL INVESTIGATOR

Experimental Therapeutics

We seek an individual with a proven record in the application of immunological techniques to the discovery and development of novel molecules. The responsibilities of this position are to design and implement in vitro and in vivo experimental procedures for the discovery and evaluation of candidate molecules. Minimum requirements include a Ph.D. in Immunology, Cell Biology, or a related field with a minimum of 3 years' postdoctoral research experience. The successful candidate will have the ability to work in a multidisciplinary environment, maintain clear and accurate records, and have a strong knowledge of immunology with experience applying these techniques at the cellular and molecular level. Experience with in vivo models of autoimmunity and transplantation is highly desirable. Reference Dept. ET29

Purdue University

HEAD, DEPARTMENT OF MEDICINAL CHEMISTRY
AND MOLECULAR PHARMACOLOGY
School of Pharmacy and Pharmacal Sciences

The Department of Medicinal Chemistry and Molecular Pharmacology, a unique, newly consolidated multidisciplinary unit of twenty-eight faculty with research in the areas of Biochemistry, Bioorganic Chemistry, Medicinal Chemistry, Molecular Pharmacology, Natural Products, Radiopharmaceutical Chemistry, and Toxicology, invites applications and nominations for the Chair position. The preferred candidate will be an outstanding scientist with a distinguished record in research and education. Applicants will be expected to have an established independent research program in at least one of the above-mentioned areas. The role of the new chair will be to provide scientific, academic and administrative leadership to the Department, as well as to participate in defining the future development of the Department and coordinate the department's interactions with interdisciplinary research programs on the Purdue campus.

Nominations and applications should be sent to:
Professor D.E. Bergstrom, Chair
Department Head Search Committee
Department of Medicinal Chemistry and Molecular Pharmacology
Purdue University
West Lafayette, IN 47907-1333

Candidates should include in their applications a Curriculum Vitae, the names of three references and a letter indicating their interest in the position. Review of applications will begin on December 15, 1995 and continue until the position is filled.

Purdue University is an Equal Opportunity/Affirmative Action Employer and especially encourages applications from interested minority and female candidates.

For consideration, please forward your CV to
Ares Advanced Technology, Inc., Human Resources,
280 Pond Street, Randolph, MA 02368. Please reference Department. An Equal Opportunity Employer.
**The AAAS Employment Exchange presents...**

**AMSIE '96 JOB FAIR**

1996 AAAS Annual Meeting & Science Innovation Exposition (AMSIE'96)
Baltimore Convention Center • February 12-13, 1996

**EMPLOYERS:**
If you have multiple positions to fill or just one... Not enough qualified candidates to choose from... Low search budget... the AMSIE'96 JOB FAIR can help you.
- Academic Employers/University Labs
- Non-profit Organization and Government Facilities
- Corporate Employers
- AMSIE'96 Exhibitors

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**The AMSIE'96 Job Fair Can Save You Time and Money**

If you are looking for senior scientists, research investigators, tenure tracked-faculty, deans and department heads, research assistants and postdocs, grant administrators... AMSIE'96 Job Fair offers:

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- FREE, on-site interview facilities
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- FREE resume book of all participating candidates

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**FOR MORE INFORMATION, CONTACT**

**MAIL:** Kevin Bullock
AMSIE'96 Job Fair, 1333 H Street, NW, Washington, DC 20005

**PHONE:** (202) 326-7049
**FAX:** (202) 289-4021
**E-mail:** kbullock@aaas.org

American Association for the Advancement of Science

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**The AAAS Employment Exchange presents...**

**AMSIE '96 JOB FAIR**

1996 AAAS Annual Meeting & Science Innovation Exposition (AMSIE’96)
Baltimore Convention Center • February 12-13, 1996

**CANDIDATES:**

If you are starting your scientific career or at a pivotal point... looking for a better paying job... switching from academia to industry... the AMSIE'96 JOB FAIR can help you.

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**JOBS, JOBS, JOBS,**

Biology, Chemistry, Medical Sciences, Agricultural, Earth Sciences, Engineering, Mathematics, Computer Science, Physics, Astronomy, Social and Behavioral Sciences

- Employers will be on-site in Baltimore to talk to you about real job openings.
- Position Postings: various positions and levels of experience for you to review on-site.
- Bring multiple copies of your resume and visit as many employers as you wish
- Bonus for all on-site JOB FAIR registrants: FREE Career Development Seminars on Saturday and Sunday (February 10-11, 1996). Seminars will be conducted by top science recruiters and human resource professionals. Topics include: resume writing, interviewing, and other job-hunting skills, as well as the latest information and issues related to scientific careers
- You can register in advance and just pick up your badge on-site
- You don’t have to attend to participate, all resumes will be given to all employers
- FREE to AAAS Members and AMSIE'96 registrants
- FREE pass to the AMSIE’96 Exposition
- Non-member, non-meeting attendees only $25, on-site

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**FOR MORE INFORMATION, CONTACT**

**MAIL:** Kevin Bullock
AMSIE’96 Job Fair, 1333 H Street, NW, Washington, DC 20005

**FAX:** (202) 289-4021
**E-mail:** kbullock@aaas.org

American Association for the Advancement of Science
# AMSIE’96 JOB FAIR

1996 AAAS Annual Meeting & Science Innovation Exposition (AMSIE’96)  
Baltimore Convention Center • February 12-13, 1996

## CANDIDATE Advance Registration Form

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### FEES  
| Candidates On-Site | Member or AMSIE’96 Registrant | $FREE | $FREE | $25 | $10 |
| Candidates Not Attending | Non-Member or Non-Registrant | | | | |

### Payment Method:  
- [ ] Check enclosed  
- [ ] VISA  
- [ ] MasterCard  
- Card #

Signature | Expiry Date
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## DISCIPLINE (please check the one option which best describes your primary discipline)

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**INSTRUCTIONS:** Complete the AMSIE’96 Advance Registration Form. Enclose a current curriculum vitae (including a listing of three professional references), and mail to: Kevin M. Bullock, Project Coordinator, AAAS Employment Exchange, 1333 H Street, NW, Suite 1159, Washington, DC 20005. NOTE: Faxed forms and resumes are not acceptable. If you are planning to be on-site at AMSIE’96, please remember to bring multiple copies of your current curriculum vitae. Incomplete forms will not be accepted.

American Association for the Advancement of Science
DGI BIOTECHNOLOGIES (DGI)

DGI is a newly formed biopharmaceutical company focused on developing a novel, small molecule drug discovery platform. This new technology will identify promising drug assays and drug leads for license. Specially designed new laboratory space in Edison, NJ.

MOLECULAR PHARMACOLOGISTS

Experienced in cloning, expressing and assaying targets such as G-coupled protein, protein hormone, growth and differentiation and transcription factor receptors.

MOLECULAR BIOLOGISTS

Experienced in molecular immunology (including cloning, constructing, expressing and isolating recombinantly derived antibodies). Experience with various protein/peptide phage display system is also desired.

TECHNICAL SUPPORT POSITIONS

For Molecular Biology: strong background in PCR, cloning, digonucleotide based constructions, and auto sequencing.

For Molecular Pharmacology: Receptor isolation, ligand binding with experience with in vitro and in situ reconstruction.

Reply (with Salary Requirements)

Dr. Arthur Blume
DGI BioTechnologies
P.O. Box 424
Edison, NJ 08818-0424
(FAX 908-287-5566)

DIOGNOCURE INC.

Located in the heart of Quebec City, DiagnoCure is a young rapidly growing medical company developing products for cancer diagnosis and treatment. DiagnoCure will employ up to 25 scientists and technologists and has immediate openings for experienced scientists to lead its research unit in the following fields:

- Immunodiagnostics: Biotechnology/pharmaceutical experience in development of diagnostics kits. Experience with labeling of monoclonals and fluorescence-based assays would be an advantage.
- Recombinant Vaccines: Experience in recombinant vaccine techniques with different vectors, familiarity with anti-idiotypic approaches and synthetic peptides.
- Recombinant Peptides: Experience in screening of peptide libraries and reagent development.

Molecular Biology: Experience in characterization of proteins, cDNA cloning and protein structure-function studies.

Each head scientist will report to the Vice President R & D and will play a key role with its scientific advisory committee in determining research strategies. The head scientists will be responsible for the implementation and management of the research programs with the help of support staff. Applicants must have the skills to lead and motivate the staff to perform effectively in a multidisciplinary team under tight schedules.

We offer a highly competitive salary, commensurate with experience along with the advantages of a progressive, entrepreneurial environment.

Please send your c.v. to the:

Vice President of R&D
DiagnoCure Inc.
70, rue Dalhousie, box. 110
Quebec (Quebec)
G1K 4S2 Canada

Committed to quality, diversity and equal employment opportunities.

REGENERON

Postdoctoral/Staff Scientist Positions in Neurobiology

REGENERON is a world leader in elucidating the role of neurotrophic factors in the ontogeny and maintenance of the nervous system and in the development of these factors as therapeutic agents for the treatment of neurodegenerative disorders and neurotrauma. REGENERON has an established reputation for scientific excellence, vigorously supports publication, and has extensive collaborations with leading academic groups throughout the world. We seek ambitious, career-oriented individuals interested in joining a team involved in cutting edge research.

To augment our multidisciplinary team exploring in vitro and in vivo actions of neurotrophic factors on the peripheral nervous system (PNS), REGENERON has openings for several Ph.D.-level scientists in the Neurobiology Group. We are interested in candidates who have a broad interest in both basic and clinical aspects of the actions of neurotrophic factors on the PNS and animal models of sensory and motor neuron dysfunction.

Scientist/Staff Scientist: Electrophysiology/Behavior

Seeking a Ph.D. with 3 - 6 years postdoctoral training in peripheral nervous system function. Particular emphasis will be given to candidates with the ability to integrate electrophysiological, behavioral or anatomical techniques as they pertain to the normal and pathophysiological function of the PNS.

Postdoctoral Fellow: In vivo studies

Seeking a Ph.D. with 0 - 3 years postdoctoral experience in peripheral nerve studies in vivo. Special emphasis will be given to candidates who show an integrated approach using cellular, molecular and biochemical tools to evaluate the role of neurotrophic factors in the normal maintenance of the PNS and their potential use as treatments for peripheral nerve trauma and neuropathies. Candidates with a specific interest in the system are encouraged to apply.

Postdoctoral Fellow: Cell Biology

Seeking a Ph.D. with 0 - 3 years postdoctoral experience with in vitro approaches to studying peripheral neurons and glial cells. Particular consideration will be given to candidates with an interest in in vitro models of neuron-glia interactions.

Successful candidates for all of these positions will have a proven publication record and demonstrate the ability to integrate into and work well with a project team, and possess good oral and written communication skills. Scientist/Staff Scientist candidates will also have demonstrated ability to initiate independent lines of research.

REGENERON PHARMACEUTICALS, INC. is located in a modern facility in a suburb setting with ready access to the cultural and business centers of New York City. Please send your resume to: BIN N, Regeneron Pharmaceuticals, Inc., Human Resources Dept., 777 Old Saw Mill River Road, Tarrytown, NY 10591.

EOE/M/F/H/V

RESEARCH SPECIALISTS. The Genetics and Biotechnology Section of Westvaco Forest Research has openings for four research specialists; one each in tissue culture, transformation, sterility and stress resistance of tree species. Responsibilities include assisting in all phases of research including planning, preparation, conducting, evaluation, analysis, and reporting. Qualifications for the tissue culture and transformation positions include a B.S. or M.S. degree in Biological Science, Botany, Forestry, Horticulture or a closely related field. A strong background in plant cell and tissue culture is essential. Experience in plant transformation and genetic engineering is highly desirable. Qualifications for the sterility and stress resistance positions include a B.S. or M.S. degree in Biological Science, Molecular Biology, Biotechnology, or a closely related field. A strong background in plant molecular biology is essential. Experience in nucleic acid isolation, cloning, PCR, and different types of electrophoresis is essential. Preference will be given to candidates with experience in genetic engineering and gene regulation. For all four positions, working experience in woody plants is helpful, but not required.

Send resume, college transcripts, and three letters of recommendation before December 15, 1995, to: Cindy McCord, Westvaco Corporation, P.O. Box 1950, Summerville, SC 29484. For more information contact Cindy McCord at (803) 851-4733, or Fax (803) 875-7185 or E-mail: cmccord@awed.com.

Westvaco is an equal opportunity employer m/f.

POSTDOCTORAL RESEARCH POSITIONS

Two to three year positions are available immediately in the molecular genetics laboratory of Richard Strub in the Department of Psychiatry at the Medical College of Virginia. Two projects are funded for the next five years:

- Molecular Genetics of Schizophrenia in Irish Pedigrees: project goals are to a) clone the schizophreriai'vulnerability locus on chromosome 6, b) identify and confirm additional loci by linkage analysis and other methods and c) clone the additional loci. The primary collaborators are Kenneth Kendler, Lindon Eaves and Joanne Meyer.

Applicants should have training and experience in some of the following areas: genotyping, physical mapping, gene identification, mutation detection and DNA sequencing. Experience with the Applied Biosystems DNA sequencer, robotics, and genome informatics is strongly preferred. Salary range is $25,000 and up depending on experience. The Medical College of Virginia offers a generous benefits package. The position will soon be located in the new Virginia Biotechnology Research Park.

Please send (do not email) curriculum vitae, summary of research experience and interests, and three letters of reference to: Richard E. Strub, Director, Molecular Genetics Laboratory, Department of Psychiatry, Box 99710, Medical College of Virginia, Richmond, VA 23298-0710.

Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer.
Our goal is to assemble highly motivated multi-disciplinary teams dedicated to the discovery of drugs for the treatment of psychiatric, neurological and neurodegenerative disorders.

**Molecular Biologists**

B.A., B.S. or M.S. degree with strong background in molecular biology and experience in cell biology and tissue culture techniques, gene cloning and expression, DNA and RNA hybridization, PCR, isotope labeling and mammalian cell transfection. Experience with Western blotting, immunoprecipitation RNase protection assays and enzymatic assays would be advantageous. **Position #1436**

**Neuronal Cell Biologists**

B.A., B.S. with experience in cell culture and molecular biology. Candidates will be responsible for maintaining primary and permanent cell lines and will also develop cellular models for CNS disorders. Experience and/or knowledge of the construction of expression vectors, mammalian transfections and optimization of heterologous gene expression is required. **Position #1614**

B.A., B.S. or M.S. positions to assist with discovery research in neuronal apoptosis, amyloid-related neurodegeneration and growth factor control of neuronal differentiation and survival. These positions will require adaptation and development of culture systems to promote long-term survival of neurons; appropriate support will be provided for high-throughput screening. A working knowledge of neuronomy and previous experience in microdissection, neuronal cell culture, cell transfection techniques, fluorescence imaging and cytotoxicity assays is desirable. **Position #1637**

**Pharmacologists/Molecular Neuroanatomists/Neurochemists/Biochemists**

Brain Microdialysis: B.A., B.S. or M.S. positions with experience and training in the methodology of brain microdialysis. Working knowledge of modern HPLC techniques with electrochemical and fluorometric detection, familiarity with neuronal histological techniques and small animal surgery. **Position #1561**

Molecular Neuroanatomy – Antibody production: B.A., B.S. positions for production of antibodies for identification, characterization and localization of novel molecular targets. Candidates should have experience with a variety of immunological techniques, including peptide conjugation, ELISA, SDS-PAGE, affinity purification, immunoblotting and immunoprecipitation. Additional experience in cell culture including transient transfection of mammalian cells is highly desirable. **Position #1638**

Candidates with B.S./M.S. degrees and experience in histological processing of brain tissue, brain immunohistochemistry, light microscopy, small animal surgery and behavioral testing for programs in stroke. **Position #1639**

Neuropharmacologist/Senior Biochemical Pharmacologist: B.S./B.A. or M.S. degree with background in one or more of the following areas: receptor binding, second messenger system assays, neurotransmitter release and/or methodology involving the quantification of neurochemical parameters. Experience with cell/tissue culture techniques, small animal surgery, animal handling and/or in vivo physiological and pharmacological assays, RIA’s and/or protein biochemistry is desirable. Candidates with strong backgrounds in enzymology, protease and protease inhibitors are also invited to apply for these positions. **Position #1611**

**CNS Electrophysiologists**

In Vitro Electrophysiologist: Ph.D. with 3 or more years of postdoctoral experience in electrophysiology and neurobiology. Candidates must have extensive experience with recording and analyzing specific ion currents from neurons, cell lines, or oocytes using patch clamp or two electrode voltage clamp recording techniques. Experience with extracellular recording will be considered. Familiarity with generating primary neuronal cultures and cell lines, or preparing brain slices and freshly isolated neurons for electrophysiological recordings is essential. **Position #1642**

In Vivo Electrophysiologist: Ph.D. with 3 or more years of postdoctoral experience in electrophysiology and neurobiology. Candidates must be experienced in measuring and analyzing the effects of various psychotropic drugs on electrical activity in specific brain regions, using either single unit or multielectrode recording techniques and microelectrode application of drugs. **Position #1643**

Associate/Senior Pharmacologist: B.A./B.S. with 2-4 years experience or M.S. with 2+ years experience in electrophysiology or a neurobiology background are also required. **Position #1398**

**Behavioral Pharmacologists**

Positions available for behavioral pharmacologists with a B.S. or M.S. in neuroscience, psychology, pharmacology, or animal behavior and approximately 1-5 years of experience. Responsibilities involve pharmacological studies using basic and complex operant conditioning procedures in rodents, pigeons, and monkeys. Strong analytical, computer and communication skills required. Experience with small animal surgery is a plus. **Position #1590**

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please respond by sending your resume with salary requirements and Position # of interest to: Wyeth-Ayerst Research, Human Resources, 2002A Box 8299, Philadelphia, PA 19101. Or you may fax your resume directly into our centralized Research resume database at (610) 998-4854. Principals Only. Equal Opportunity Employer, M/F/D/V.
Faculty Position in Tumor Immunology

Applications are invited to fill two tenure-track positions in Tumor Immunology at the Assistant/Associate Professor level in the Department of Pathology, University of Connecticut School of Medicine. Successful candidates are expected to provide leadership to an interdepartmental program in immunology, develop an independent, externally funded research program in the general area of tumor immunology, and participate in the teaching of medical students. To apply, send curriculum vitae, description of research interests, and the names of three references before November 1995 to:

Tumor Immunology Search Committee
Medical Dean's Office
University of Connecticut School of Medicine
263 Farmington Avenue
Farmington, CT 06030-1920

(Search Code 95-186)
An Affirmative Action/Equal Opportunity Employer
M/F/Pwdr/V

The Department of Biology, Georgia Southern University seeks applications for two tenure track openings at the level of Assistant Professor to begin September 1, 1996. Salary is competitive and commensurate with experience and qualifications. Candidates for both positions must have received a Ph.D. before January 1996. Postmark deadline for both positions is January 2, 1996.

Systematic Biologist utilizing modern molecular techniques as a primary research tool. Teaching responsibilities may include participation in introductory biology and one or more of the following specialty courses: molecular biology, biometry, genetics, systematics, and cell biology. Applicants should send a letter of application, curriculum vita, a statement of teaching and research interests, and the names of three references to: Dr. Dennis K. McNair, Systematics Search, Department of Biology, Landrum Box 8042, Georgia Southern University, Statesboro, GA 30468-8042, USA.

Physiological Ecologist / Aquatic Ecologist able to work in the wetlands or estuaries of the Southeastern Coastal Plain. Teaching responsibilities may include participation in introductory biology and one or more of the following courses: Physiology, Human Anatomy and Physiology, and upper level courses in the area of specialty. Applicants should send a letter of application, curriculum vita, a statement of teaching and research interests, and the names of three references to: Dr. John W. Parrish, Physiology Search, Department of Biology, Landrum Box 8042, Georgia Southern University, Statesboro, GA 30468-8042, USA.

The names of applicants and nominees, resumes and other general non-evaluative information are subject to public inspection under the Georgia Open Records Act. Georgia Southern University is an Equal Opportunity/Affirmative Action Institution. Persons who need accommodations in the application process under the Americans with Disabilities Act should notify Dr. John Averett, Department Chair.

Dean of Natural Sciences and Mathematics
California State University, Long Beach

The College of Natural Sciences and Mathematics, consisting of the Departments of Biological Sciences, Chemistry and Biochemistry, Geological Sciences, Mathematics, Physics and Astronomy, and Science Education, are recruiting for the position of Dean. The University enrollment approximates 27,000; there are about 1,500 majors in the College served by 175 faculty. All departments in the College, except for Science Education offer the bachelor's and master's degrees. The successful candidate must possess an earned doctorate and be eligible for appointment as a tenured faculty member in one of the College's departments. The candidate must be committed to research and have a strong publication record, have had College or University teaching experience, be open to faculty governance and consultation, have successful academic administrative experience, have been involved in fiscal management and fund raising efforts, and have the ability to communicate effectively with an ethnically and culturally diverse campus community. Review of applications will begin on January 9, 1996; the position will remain open until filled. Preferred starting date is July 1, 1996. Applications must include a resume, a letter of interest that addresses qualifications, and a list of at least three professional references including names, addresses, and telephone numbers. Nominees are also invited. Send applications, nominations, and requests for more detailed information about the position to: Dr. Kenneth Marsl, Chair, Dean Search Committee, Office of the Vice President for Academic Affairs, California State University, Long Beach, 12300 Bellflower Blvd., Long Beach, CA 90840. California State University, Long Beach is an Equal Opportunity/Affirmative Action, Title IX Employer, and is in compliance with the Civil Rights Act of 1964 (Title VI and Title VII), Title IX of the Education Amendments of 1972, the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990.

Faculty Position in Cancer Genetics

The Fred Hutchinson Cancer Research Center is developing multidisciplinary capabilities to investigate the role of genetics in the etiology of common cancers. We are seeking a molecular geneticist to fill a newly created position at the rank of assistant, associate, or full member (equivalent to assistant, associate, or full professor at a University), with an interest in collaborating with colleagues in conducting population based epidemiologic research. The person hired will be expected to both initiate independent research projects and provide leadership for the development of an active center-wide program that will involve high-volume characterization of known genes in specimens collected from participants in human studies. Resources available include existing population-based studies that involve collection of biological specimens and laboratory facilities. The position can carry a joint appointment at the University of Washington. Send inquiries and curriculum vitae and the names of at least four references by not later than December 15, 1995 to: David S. Thomas, Program in Epidemiology, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, WA, 98104. The Fred Hutchinson Cancer Research Center and the University of Washington are equal opportunity/affirmative action employers. Both institutions are building culturally diverse faculty and strongly encourage applications from female and minority candidates.

The deadline for applications is December 15, 1995.

Grand Valley State University, a regional comprehensive university which emphasizes excellence in teaching, outreach, and research within its geographic region, and faculty/student research collaboration, is seeking a chair for the Biology Department of full time faculty. This is a tenure track position at the Associate or Professor rank. Qualifications include a Ph.D. in biology or related field as well as demonstrated success in teaching, research, and academic leadership, and research. The successful candidate will have demonstrated experience in managing budgets, developing curricula, nurturing faculty development, and providing opportunities for scholarly activity.

The Biology Department is a dynamic unit offering degrees in biology and natural resources management to approximately 400 majors. The department is in a growth phase, in the process of moving into a newly constructed science facility, considering new curricular options, and adding new faculty positions.

Grand Valley State University, the fastest growing educational institution in Michigan, is a fully accredited, state supported, four year and graduate degree granting institution with a current enrollment of nearly 14,000 students. The main campus comprises 900 acres conveniently located near the city of Grand Rapids and the shores of Lake Michigan. This region of west Michigan offers diverse cultural and leisure activities, and prides itself on a high quality of life enhanced by a moderate cost of living.

Applicants should submit a letter of interest describing how their qualifications meet the position requirements, a statement that describes their academic and administrative philosophy, a curriculum vita and names/address/ phone numbers of three references to: P. Douglas Kindachi, Dean of Science and Mathematics 312 Padnos Hall of Science Grand Valley State University Allendale Michigan 49401

The position is available starting Fall 1996. Consideration of completed applications will begin on November 27, 1995, and the position will remain open until it is filled. EEO/AA/ADA
Faculty Positions in Neurobiology
University of Maryland School of Medicine
Department of Anatomy

The Department of Anatomy is undergoing major expansion and rebuilding. New faculty are being recruited in neurobiology. Positions are available at all ranks.

The Department is located in a newly opened building. Significant expansion of research resources is underway, including core laboratories in molecular biology, tissue culture, neuropathology, imaging, and neurophysiology.

Successful candidates will have a Ph.D. or equivalent, outstanding ability in teaching, and exceptional achievement in their field of research, including the potential to attract external funding. Investigators in the Department use approaches ranging from molecular biology to behavioral neuroscience. A strong focus is understanding the organization, function and development of neural networks. We particularly encourage applicants investigating:

- Neurobiological bases of learning and memory.
- Development and functional organization of chemosensory systems.

The Department teaches a 9.5 week course. "Structure & Development" in the medical school curriculum. New faculty are expected to participate 3-5 weeks in this team taught course. Graduate teaching is also encouraged.

For best consideration, applications should be received before February 1, 1996. Candidates should send a C.V., summary of research accomplishments and goals, and the names of 3-5 individuals from whom recommendations may be obtained to:

Dr. David V. Smith
Chair, Faculty Search Committee
Department of Anatomy
University of Maryland School of Medicine
625 West Baltimore Street
Baltimore, MD 21201-1559

The Department is eager to diversify its faculty. We encourage minorities and women to apply. The University of Maryland is an AA/EEO/ADA employer.

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TOXICOLOGIST

Midwest Research Institute (MRI), a leading research organization, is seeking an experienced toxicology professional to join our Life Sciences Department. This individual will conduct animal toxicology studies, prepare and review protocols and reports, monitor financial performance of projects, supervise staff, evaluate training needs of staff and arrange for appropriate training. Schedule personnel and facilities, contribute to scientific literature, develop new methods and technologies appropriate to new markets, interact and communicate with clients. Requires a Ph.D. in pharmacology, toxicology or related discipline plus a minimum of two years experience in toxicology studies with a minimum of one year as a study director. Supervisory and project management experience a must. Excellent understanding of GLP requirements, contract research, business development and client orientation essential. DABT desirable.

MRI offers competitive compensation and a comprehensive benefits package and a unique environment to meet personal challenges and enhance career growth. If you are interested in being a part of this select group of professionals, please send your resume marked 95-342-3 to: Midwest Research Institute, 425 Volker Boulevard, Kansas City, MO 64110-2299, or fax it to (816) 753-2504, EEO/AA, M/F/D/V. A Drug Screening Employer.

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DIRECTOR

BELLE W. BARUCH INSTITUTE FOR MARINE BIOLOGY & COASTAL RESEARCH

THE UNIVERSITY OF SOUTH CAROLINA invites nominations and applications for the position of Director of the Baruch Institute, a major research facility at the University of South Carolina. The Search Committee will begin reviewing applications on January 8, 1996.

The Baruch Institute for Marine Biology & Coastal Research is a free-standing unit of the College of Science and Mathematics that provides facilities and resources for faculty and student research. Since the Baruch Institute was founded in 1969, associates have attracted $24.4 million in external funding; this year's funding is $4.1 million. Over 1050 scientific articles covering a variety of disciplines have been published, and 250 theses have been generated from student research. There are currently about 60 graduate students and 70 associated faculty conducting research and providing public education on basic and applied problems related to the marine sciences. Utilizing a multidisciplinary approach, the Institute participates in a wide range of studies that involve many departments, institutions, and government agencies. Current projects encompass molecular biology, geochemistry, ecotology, sedimentology, spatial and coastal processes, watershed hydrology, and ecology.

The Institute is housed at the main campus of the University of South Carolina in Columbia and operates the Baruch Marine Field Laboratory on the 17,500 acre Hobcaw Barony near Georgetown on the South Carolina coast. Additional facilities under the Institute's purview are located in Charleston Harbor and at Pritchard's Island near Beaufort.

The Director will be an accomplished, respected scientist with demonstrated excellence in marine research, administration, and communication, as well as entrepreneurial abilities. The successful candidate will be appointed at the rank of Professor in an appropriate academic department and in the Marine Science Program. The Director reports to the Dean of the College of Science and Mathematics.

Letters of Nomination should include the nominee's name, current position, address, tel./fax number(s), and e-mail address. Applications should include a letter of interest, a summary of the applicant's qualifications, a curriculum vitae, and the names of five individuals who have been asked to supply references (include each referee's address, tel./fax number(s), and e-mail address). Nominations and applications should be sent to:

Prof. Bruce C. Coulter
Chair of Baruch Institute Search Committee
College of Science and Mathematics
University of South Carolina
Columbia SC 29208

Tel: 803-777-3940 • Fax: 803-777-9385 • E-mail: bccoul@sc.edu

The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

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EXECUTIVE DEAN OF AGRICULTURE AND NATURAL RESOURCES
Rutgers, The State University of New Jersey seeks candidates for Executive Dean of Agriculture and Natural Resources with responsibilities for George H. Cook College and the New Jersey Agricultural Experiment Station (NJAES). Cook College serves over 3,500 students, offering undergraduate and graduate professional programs across seventeen academic departments. The Agricultural Experiment Station encompasses sixteen research centers and field stations and maintains a network of outreach and service, including Rutgers Cooperative Extension (RCE).

Together, Cook and NJAES epitomize the modern land-grant college and experiment station. The mission is to educate students and to address and resolve the social, economic, physical, biological, and policy dimensions of contemporary and future issues in agriculture and natural resource areas. These include agricultural production and competitiveness, food science and engineering; nutrition, health, and safety; marine and coastal resources; natural resources and environment; and human and community resources and development. The annual appropriated budget is $40 million and there are approximately 300 full-time faculty.

As executive dean and director, the individual reports for NJAES to the president of the university, and for Cook College to the provost of the New Brunswick Campus. The successful candidate should be an established scholar of international stature. In addition, evidence of administrative achievement; excellence in research and teaching; experience in outreach, extension, and service and demonstrated leadership ability at both the governmental and university level are expected.

Applications and nominations will be accepted until December 15, 1995, or until a suitable candidate is found. Letters of application or nomination, including a current vita, should be sent in confidence to:

Dr. Harry Janes
Chair, Search Committee
c/o Office of the Provost and Graduate Dean
Rutgers, The State University of New Jersey
18 Bishop Place
New Brunswick, NJ 08903

Employment eligibility verification is required

An Affirmative Action/Equal Opportunity Employer

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THE STATE UNIVERSITY OF NEW JERSEY
MICHIGAN STATE UNIVERSITY Department of Biochemistry

The Department of Biochemistry seeks applications for a tenure-track position at the ASSISTANT PROFESSOR level. Applicants should have demonstrated productive and evidence of potential for independent research on aspects of the biochemistry of the cell nucleus. We are particularly interested in candidates with research programs in nuclear structure, nuclear transport, nuclear signaling, regulation of transcription, DNA replication or RNA processing. The successful applicant will be expected to participate in the Program for Studying the Cell Nucleus of the Center. The appointee is expected to increase the diversity of its ranks, and, accordingly, candidates from groups currently underrepresented in academic science are encouraged to apply.

The Department of Biochemistry has a large faculty conducting research in most areas of contemporary biochemistry and molecular biology, providing both a stimulating scientific atmosphere and opportunities for research collaboration. The Department occupies a modern research building with well-equipped research and teaching facilities and has graduate, undergraduate, and postdoctoral training programs.

Applicants should submit a curriculum vitae, a description of research achievements and interests, and have three letters of recommendation sent on their behalf to: Dr. William L. Smith, Chairperson, Department of Biochemistry, Box S, Michigan State University, East Lansing, MI 48824. In accordance with University policy, applications should be received by December 1, 1995. Michigan State University is an Affirmative Action/Equal Opportunity Employer. Minority women, handicapped and veterans are encouraged to apply.

POSTDOCTORAL POSITION MASSACHUSETTS GENERAL HOSPITAL Harvard Medical School

CUTANEOUS BIOLOGY RESEARCH CENTER

A POSTDOCTORAL RESEARCH POSITION is available immediately to study mechanisms of TGF-β signaling during Drosophila development. Work involves molecular genetic approaches to study novel proteins required for maximum dpp agonist activity. Our goal is to elaborate the molecular pathways regulating dp signaling and understand how this signal can elicit different developmental events. The position requires a Ph.D. and experience in molecular techniques. Salary is negotiable according to experience and interests of the candidate. Send curriculum vitae, one publication, and three letters of reference to: Laurel Raffer, Ph.D., Massachusetts General Hospital, Harvard Cutaneous Biology Research Center (CBRC) Building 149, 13th Street Charlestown, MA 02129.

The Massachusetts General Hospital is an Equal Opportunity Employer.

POSTDOCTORAL POSITION VASCULAR AND MOLECULAR BIOLOGY

We are pursuing the cellular and molecular mechanisms by which endothelium-derived nitric oxide regulates oxiant responsive transcriptional pathways mediating endothelial-monocyte interactions. Our lab is vertically integrated, with molecular, cellular, whole animal, and human research components. Background in cell/molecular biology and U.S. citizenship required. Send curriculum vitae and reprints to: John P. Cooke, M.D., Ph.D., Division of Cardiology, Stanford University School of Medicine, 300 Pasteur Drive, Stanford, CA 94305-5246.

HARVARD UNIVERSITY Medical School

Applications are invited for a POSTDOCTORAL POSITION to study intracellular transduction of the insulin signal. Candidates should have a recent Ph.D. or Ph.D. equivalent in molecular biology, or molecular biology/chemistry. Applications are encouraged from individuals interested in using genetic, biochemical, and molecular biology approaches to study the insulin signal transduction pathway in the cell. Send curriculum vitae to: Dr. David Sacks, BWH, Thorns 430, 75 Francis Street, Boston, MA 02115. U.S. citizenship or permanent residency required.

FACULTY POSITIONS DEPARTMENT OF MICROBIOLOGY NEW YORK UNIVERSITY SCHOOL OF MEDICINE

The Department of Microbiology of NYU School of Medicine invites applications for a tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level within the next one to two years. We are particularly interested in attracting outstanding candidates with a Ph.D. or M.D. degree working in the fields of viral and bacterial pathogenesis but also welcome applications from individuals interested in the molecular analysis of viral and bacterial infection in general. Participation in undergraduate teaching is expected. Start-up funds are available.

The Department of Microbiology is housed in the Medical Science Building, which is adjacent to the Sloan-Kettering Institute for Cancer Research. Candidates are expected to participate in the interdisciplinary NIH-funded programs in the Kaplan Cancer Center and the Center for AIDS Research. Applicants should send their curriculum vitae and a brief statement of research interests to: Microbiology Search Committee, Department of Microbiology, NYU School of Medicine, New York, NY 10016. NYU is an Equal Opportunity Employer.

ASSISTANT PROFESSORS BIOLOGY

The Department of Biology at West Virginia University invites applications for two tenure-track positions at the level of beginning ASSISTANT PROFESSOR in the area of Cellular and Molecular Biology. Subject to funding approval, these positions will be available beginning Fall 1996. Applicants must have a Ph.D., or equivalent, with appropriate postdoctoral training. Teaching is an important consideration and the successful candidates will be expected to teach in the undergraduate and graduate programs. Each candidate will be required to establish a strong externally funded research program. We are seeking scientists whose research interests are in the areas of biochemistry, molecular biology, developmental, or cellular and molecular genetics, or reproduction, but strong candidates in other areas will be considered. Please submit a curriculum vitae, a statement of teaching and research interests, and provide the names, addresses, and telephone numbers of three references to: Cellular and Molecular Biology Search Committee, P.O. Box 6057, Department of Biology, West Virginia University, Morgantown, WV 26506-6057. Review of applications will begin December 15, 1995. West Virginia University is an Equal Opportunity Employer. Women, individuals with disabilities and minority candidates are encouraged to apply.

POSTDOCTORAL POSITION available immediately for NIH-funded research that is directed at defining the mechanics of gene mutations in the context of underlying disease. Our approach is to use gene targeting in embryonic stem cells to create novel mouse lines that harbor modifications in genes putatively identified as critical to the physiologic response to ethanol and/or anesthetics. Prior experience in molecular biology, transgenic animal technology, and/or pharmacology is preferred but not required. Send curriculum vitae and reprints to: Gregg E. Homancey, Ph.D., University of Pittsburgh, Department of Anesthesiology, W1356 Biomedical Research Center, Pittsburgh, PA 15261. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW/RESEARCH ASSISTANT/ASSOCIATE to work on the molecular regulation of nitric oxide-guanosine cyclic signaling pathway in the cardiovascular system. Experience with dynamic vascular biology research group at the University of Virginia. Molecular biology expertise essential. Applications will be encouraged from individuals interested in cardiovascular biology and having experience in gene targeting to generate knockouts. Send curriculum vitae, names and addresses of three references, and a description of your research experience to: Roger S. Johns, M.D., University of Virginia Health Sciences Center, Box 238, Charlottesville, VA 22908 U.S.A. An Equal Opportunity/Affirmative Action Employer.

MICHIGAN STATE UNIVERSITY Department of Biochemistry

National Food Safety and Toxicology Center

The Department of Biochemistry in conjunction with the National Food Safety and Toxicology Center (NFSTC) at Michigan State University seeks applicants for a tenure-track position at the ASSISTANT PROFESSOR level in biochemical toxicology. Applicants should have research experience demonstrating unusual productivity and further potential to develop a strong externally funded research program in the toxicological aspects of food safety and nutrition. We are particularly interested in candidates who have or are expected to develop programs in the areas of foodborne toxins, diet and nutrition, and food safety. The research focus should be directed to contemporary problems of food-borne toxics. The motivation to act as a team player is important. Individuals with research programs in toxicology will be an important characteristic of the successful candidate.

The Department of Biochemistry has a large faculty conducting research in most areas of contemporary biochemistry and molecular biology. It occupies a modern research building with well-equipped research and teaching facilities and has graduate, undergraduate, and postdoctoral training programs. The NFSTC expects to open its new laboratory building near by 1997. It will provide an outstanding environment for food toxicology research with many possibilities for collaboration with other scientists in toxicology, pathology, epidemiology and the food and public health programs.

This is primarily a research position with some additional teaching responsibilities. It is expected that through graduate teaching activities, the successful candidate will contribute to the campus-wide program in Environmental Toxicology.

Applications should submit a curriculum vitae, a description of research accomplishments and future interests, and have three references sent to: Dr. William L. Smith, Chairperson, Department of Biochemistry, Box ST, Michigan State University, East Lansing, MI 48824-1319. Review of applications will begin December 1, 1995 and will continue until a suitable candidate is found. Michigan State University is an Affirmative Action/Equal Opportunity Employer. Handicappeds have the right to request and receive reasonable accommodation.

NMR SPECTROSCOPY

The Cardiovascular NMR Section at Columbia University seeks applicants for the position of POSTDOCTORAL RESEARCH SCIENTIST with an M.D. or Ph.D. degree and one to two years of postdoctoral experience in NMR spectroscopy, with interest in becoming involved in studies of perfused hearts and isolated cardiac myocytes. Experience with NMR studies of cell systems and with multidimensional NMR techniques is desirable. Our current interests are in pursuing multinuclear spectroscopy including proton, sodium, and phosphorous. In addition, the candidate will be encouraged to become involved in multinuclear imaging. This is primarily a research position with no clinical responsibilities. Please send curriculum vitae, a reprint of a key publication, and the names of two references to: Dr. David M. Schifferli, University of Pennsylvania, Department of Pathobiology, 3800 Spruce Street, Philadelphia, PA 19104-6049. FAX 215-898-7887. Affirmative Action/Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS, available immediately, to study an adhesive multicomponent system expressed by an enterobacterial pathogen. Requires experience in 1) molecular genetics (bacterial genetics, recombinant DNA, mutagenesis, PCR) or 2) glyco-protein/lipid biochemistry and use of antibody probes. Send curriculum vitae, description of previous experience and references to: Dr. Dieter M. Schifferli, University of Pennsylvania, Department of Pathobiology, 3800 Spruce Street, Philadelphia, PA 19104-6049; FAX 215-898-7887. Affirmative Action/Equal Opportunity Employer.
The University of Tennessee, Knoxville

DEAN

College of Arts & Sciences

The University of Tennessee, Knoxville invites applications and nominations for Dean of the College of Arts and Sciences. The Dean is the chief administrative officer of the College, reporting directly to the Vice Chancellor for Academic Affairs. The Dean is responsible for leading the largest of the university's academic divisions. The College includes 27 academic departments and 13 interdisciplinary programs and offers undergraduate and graduate programs of study spanning the arts, humanities, natural sciences, and social sciences.

We seek candidates whose personal and professional qualities and experience assure energetic and creative leadership in all areas of academic endeavor. Candidates must have: (1) significant academic and administrative experience and merit appointment as a full professor with tenure in one of the disciplines represented in the College; (2) experience in planning, budgeting, and fund raising; (3) a belief in faculty governance; (4) an awareness of national issues surrounding university education and a vision for addressing them; (5) a record of commitment to diversity in the faculty and student body; and (6) a commitment to excellence in teaching, research, and service at a major research and/or land-grant university.

We seek to fill this position by July 1, 1996. The University especially welcomes as candidates persons from traditionally underrepresented groups. We will begin screening applications immediately and will consider all applications and nominations until the position is filled. Salary is competitive. Send nominations or a letter of application (including a current curriculum vitae and names, addresses, and phone numbers of four references) to: Dr. Linda Maxson, Chair Arts & Sciences Dean Search The University of Tennessee 1819 Andy Holt Ave. Knoxville, TN 37996-4350

UTK is an EEO/AA/Title IX/Section 504/ADA Employer.

ASSISTANT PROFESSOR

Microbiology

The Department of Microbiology at the University of Illinois at Urbana-Champaign seeks candidates for a full-time, tenure-track faculty position at the Assistant Professor level. Applicants should have a Ph.D. degree, postdoctoral experience, and show exceptional promise in developing an active research program in Microbiology. Preference will be given to applicants with research interests in the physiology, biochemistry, or molecular genetics of microorganisms that further expand the Department's breadth of microbial diversity. Responsibilities include teaching undergraduate and graduate students. Starting date August 1996. Salary will be commensurate with experience.

The Department of Microbiology offers a supportive and collegial atmosphere and a strong graduate program. There are extensive interdepartmental interactions in microbial and eukaryotic cell and molecular biology, immunology, developmental biology, biochemistry, and biophysics. The University of Illinois at Urbana-Champaign offers an outstanding and exciting academic research environment including a Biotechnology Center and state-of-the-art facilities for hybridoma production, flow cytometry, electron microscopy, X-ray crystallography, and computer analyses.

Applicants should submit a curriculum vitae, a description of research interests and future plans and have at least three letters of reference sent to:

Abigail Salyers, Chair
Faculty Search Committee
Department of Microbiology
University of Illinois
131 Burrill Hall
407 S. Goodwin Avenue
Urbana, IL 61801
Telephone (217) 333-1736
FAX (217) 244-6697

To ensure full consideration, applications should be received by December 15, 1995. Interviews may be conducted before the closing date, but no final decision will be made before that time.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

The Department of Biology at Swarthmore College invites applications for three different one-year appointments at the assistant professor level, beginning September 1996. Applicants should have a Ph.D., teaching experience and a strong commitment to undergraduate education. Swarthmore College is an equal opportunity employer.

Plant Physiology. Teaching duties will include a one semester course in plant physiology with laboratory, an advanced course/seminar with laboratory in the area of the applicant's special interest, and participation in a team-taught introductory biology course and a team-taught senior seminar. Interested persons should submit a curriculum vitae, three letters of recommendation and a statement of teaching and research interests to: Plant Physiology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081. All materials must be received by January 5, 1996.

Neurobiology. Experience with neurophysiological recording techniques is required. Teaching duties will include a course in cellular neurobiology with laboratory, an advanced course/seminar in some area of neuroscience with lab projects, and participation in a team-taught introductory biology course and a team-taught senior seminar. Interested persons should submit a curriculum vitae, three letters of recommendation and a statement of teaching and research interests to: Neurobiology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081. All materials must be received by January 10, 1996.

Animal Behavior. Recent research experience is required and should include field work, preferably with insect or primate social systems. Teaching duties will include participation in a team-taught introductory biology course, a one semester course in general animal behavior with laboratory, an advanced course/seminar with laboratory projects in the area of the applicant's interest, and participation in a team-taught senior seminar. Interested persons should submit a curriculum vitae, three letters of recommendation and a statement of teaching and research interests to: Animal Behavior Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081. All materials must be received by January 19, 1996.

TENURE-TRACK FACULTY POSITIONS AT CARB

PROTEIN STRUCTURE AND FUNCTION

The Center for Advanced Research in Biotechnology (CARB) is seeking to fill two tenure-track faculty positions in (1) the elucidation of molecular mechanisms in enzyme catalysis and (2) receptor-mediated signal transduction. Applicants using multidisciplinary approaches in biochemistry, structural and molecular biology are invited to apply. The successful candidates will be expected to develop strong, independent, externally funded research programs, and also to interact with other CARB scientists involved in physical biochemistry, structural immunology, protein folding, stability, modeling and engineering, macromolecular crystallography, computational chemistry and high-field NMR spectroscopy. One position will be a joint appointment with Bowie State University of the University of Maryland System.

CARB is a research center of the National Institute of Standards and Technology (NIST) and the University of the Maryland Biotechnology Institute devoted to fundamental problems of macromolecular structure, function and engineering. Interested candidates should send a curriculum vitae, three letters of reference, and a summary of research interests and plans to:

Faculty Search Committee
Center for Advanced Research in Biotechnology
University of Maryland Shady Grove
9600 Gudelsky Drive
Rockville, MD 20850
USA

Review of applications will begin on January 15, 1996. CARB is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply. For one of the positions, preference will be given to applicants who are U.S. citizens.
POSTDOCTORAL POSITION

The Department Medicine/Medical Oncology of The University of Texas Health Science Center at San Antonio (UTHSCSA) has positions available for POSTDOCTORAL trainees in our NIH-funded breast cancer SPORE program. Areas of research include: molecular characterization of ER variants, mechanisms of drug and Tamoxifen resistance, genetic markers of premalignant disease, gene expression signatures in breast cancer, transgenic mouse models, signal transduction, and growth factors. Minimum requirements are: Ph.D. degree in molecular or cellular biology or M.D. with research experience, U.S. citizens or permanent resident. Stipend to be determined by NIH fellowship guidelines. Send curriculum vitae, letter of research interests, and names of three references to: Dr. Barbara Gamermann, Department of Pediatrics, Medical College of Wisconsin, Milwaukee, WI 53226. Email: gamermch@post.ls.muw.edu. Medical College of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

A SENIOR RESEARCH ASSOCIATE POSITION is available to investigate the regulation of transcription factors in hematopoietic cells. The Senior Research Associate will be responsible for designing and implementing experiments to identify transcription factors involved in hematopoiesis. Responsibilities will include the design and execution of experiments to identify transcription factors involved in hematopoiesis, the analysis of DNA sequences, and the interpretation of results. The Senior Research Associate will also be responsible for the preparation of manuscripts for publication. This position is available immediately and would be suitable for a Ph.D. or M.D. candidate with a strong background in molecular biology. Applicants should have a strong interest in hematopoiesis and a proven track record of successful research. Applicants should send a curriculum vitae, a list of publications, and the names and addresses of three references to: Dr. David C. Schwartz, New York University, W. M. Keck Laboratory for Biomolecular Imaging, Department of Chemistry, 31 Washington Place, New York, NY 10003.

DUKE UNIVERSITY CELL/MOLECULAR BIOLOGY

POSTDOCTORAL POSITION: Investigate the gene regulation of antioxidants and proinflammatory cytokines in models of myocardial infarction. Approaches include quantitative RT-PCR, digital differential, and gene transcription. Please submit a curriculum vitae with references to: Dr. Rodenstine, Duke University Medical Center, Box 3177, Durham, NC 27710. Telephone: 919-684-2513; FAX: 919-684-3067. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

A postdoctoral researcher will be hired to study the molecular mechanisms of cancer progression. The successful candidate will work closely with a team of researchers to characterize molecular mechanisms involved in cancer progression. The position is available immediately and will offer an exciting opportunity to work in a multidisciplinary environment. We are seeking a highly motivated individual with a Ph.D. in molecular biology or a related field. Please send a curriculum vitae, a list of three references, and a statement of research interests to: Dr. Jane Smith, Department of Biomedical Sciences, University of California, San Francisco, CA 94143. Equal Employment Opportunity Employer.

POSTDOCTORAL POSITIONS

The postdoctoral fellowship is a full-time position available immediately. The postdoctoral fellow will work on the development of novel therapeutic strategies for the treatment of cancer. The fellowship is for two years and is renewable for an additional two years. A Ph.D. or M.D. degree in a relevant field is required. The fellowship is located at the Department of Oncology, University of California, San Francisco. Interested candidates should send a curriculum vitae and the names and addresses of three references to: Dr. Robert Jones, Department of Oncology, University of California, San Francisco, CA 94143. Equal Employment Opportunity Employer.

POSTDOCTORAL POSITIONS

A postdoctoral position is available immediately to study the molecular mechanisms of cancer progression. The successful candidate will work closely with a team of researchers to characterize molecular mechanisms involved in cancer progression. The position is available immediately and will offer an exciting opportunity to work in a multidisciplinary environment. We are seeking a highly motivated individual with a Ph.D. in molecular biology or a related field. Please send a curriculum vitae, a list of three references, and a statement of research interests to: Dr. Jane Smith, Department of Biomedical Sciences, University of California, San Francisco, CA 94143. Equal Employment Opportunity Employer.

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A postdoctoral position is available immediately to study the molecular mechanisms of cancer progression. The successful candidate will work closely with a team of researchers to characterize molecular mechanisms involved in cancer progression. The position is available immediately and will offer an exciting opportunity to work in a multidisciplinary environment. We are seeking a highly motivated individual with a Ph.D. in molecular biology or a related field. Please send a curriculum vitae, a list of three references, and a statement of research interests to: Dr. Jane Smith, Department of Biomedical Sciences, University of California, San Francisco, CA 94143. Equal Employment Opportunity Employer.

POSTDOCTORAL POSITIONS

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KALAMAZOO COLLEGE
Department of Biology

Kalamazoo College seeks to fill positions in molecular biology and genetics (tenure-track) and in botany and ecology (anticipated one-year sabbatical replacement). Ph.D. (or evidence of imminent completion) required. Salary competitive and consistent with level of experience. Candidates are expected to have high aptitude and interest in undergraduate teaching, a commitment to the liberal arts, and a desire to involve undergraduates in scholarship both inside and outside the classroom. Kalamazoo College is a highly selective, nationally known liberal arts college with a unique and distinguished undergraduate program. The Biology Department recently moved into a new “state-of-the-art” science teaching and research facility that includes modern teaching and student/faculty research labs.

Molecular Biologist/Geneticist: tenure-track position at the Assistant Professor level preferred or commensurate with level of experience beginning September 1996. Teaching responsibilities include genetics, molecular biology, and other electives, such as microbiology or developmental biology, depending upon experience and background. Interest and ability to involve undergraduates in research are essential. Start-up funds will be made available.

Botanist/ecologist: one-year sabbatical replacement at the Assistant Professor level beginning September 1996. Teaching responsibilities include General Botany with possible participation in evolution or ecology sections of introductory courses. Other options include Ecology or Environmental Science for majors or non-majors. An excellent opportunity for an individual to develop a set of strong credentials in a program that puts a premium on excellence in undergraduate science education.

Completed applications received by November 24, 1995 will receive full consideration, with later applications reviewed as needed until the positions are filled. Send curriculum vitae (including a description of research interests), undergraduate and graduate transcripts (unofficial acceptable), a detailed statement of teaching philosophy and goals, and three letters of recommendation to: Dr. Paul D. Olexia, Chair, Biology Department, Kalamazoo College, 1200 Academy Street, Kalamazoo, MI 49006-3285. Please specify clearly for which position you are applying. Kalamazoo College encourages candidates who will contribute to the cultural diversity of the College to apply and to identify themselves if they wish. Equal Opportunity Employer.

Scripps Institution of Oceanography
Center for Clouds, Chemistry, and Climate

Scripps Institution of Oceanography (SIO) at the University of California, San Diego (UCSD) invites applications for appointment to a research position in the area of atmospheric chemistry.

The research appointments parallel University of California faculty appointments, but are without teaching requirements. For this atmospheric chemistry position applications for the appointment at assistant, associate, or full research scientist will be considered. Salary is commensurate with experience and based on the University of California salary scale. Partial salary support will be provided from various sources subject to availability of funds.

Candidates must hold a Ph.D. and have demonstrated their ability to conduct high quality research. Research area may include chemistry of tropospheric games and aerosols, with an emphasis on atmospheric observations. The successful candidate will be expected to establish an extramurally funded research program and to involve SIO graduate students. There will be opportunities to interact with an international and interdisciplinary group of researchers in clouds and climate, and to participate in on-going field experiments involving aircraft, ships, and surface observations.

Closing date is January 31, 1996. Applicants should send a curriculum vitae, selected reprints, a list of at least three references and a brief statement of research interests to:

V. Ramanathan, Director
Center for Clouds, Chemistry, and Climate
Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Drive
Mail Code 0239
La Jolla, CA 92039-0239

The University of California is an equal opportunity employer.

ASSISTANT PROFESSOR
FRESHWATER/LANDSCAPE ECOLOGY
Beginning Academic Year 1996-1997

The Harvard University Graduate School of Design has an Assistant Professor position available beginning in the academic year 1996-1997 for a dynamic individual qualified to offer graduate-level instruction in freshwater/landscape ecology. This full-time position may be filled for a fixed initial term, normally of three years, with responsibilities for teaching and scholarship. Candidates should have a record of scholarly research productivity on land/water interactions, an ability to relate research to the design professions, and some teaching experience. A Ph.D and published research in ecology with a focus on streams, rivers, wetlands, or lakes are required. Experience in landscape ecology, aquatic restoration, hydrology, or working with landscape architects and planners is desirable.

Applications are invited before 15 December, 1995 on the application forms available from: Office of Faculty Planning, Harvard University Graduate School of Design, 48 Quincy Street, S203, Cambridge MA 02138, Attn: Richard T. Forman. Fax: (617) 496-5310. Applicants should also include copies of their most relevant publications with their applications.

Harvard is an Equal Opportunity/Affirmative Action Employer.

University of Massachusetts
Boston
POSTDOCTORAL POSITION available immediately for an NIH-funded study of genes and proteins involved in agalactia/biosynthesis in Penicillium aurigerum. Applicants must possess expertise in gene cloning, sequencing and expression, and purification of recombinant proteins. Candidates should send curriculum vitae, reprints, and names of three references to: Neal L. Schiller, Ph.D., Chair, Graduate Program in Microbiology, University of California, Riverside, CA 92521-0121. FAX: 909-778-5504; Email: neals@ucrca1.ucr. edu. Affirmative Action/Equal Opportunity Employer.

MOLeCULAR TOXICOLOGY UNIVERSITY OF WISCONSIN-MADISON POSTDOCTORAL POSITIONS in Molecular, Cellular and Biochemical Toxicology funded by an NIEHS training grant. Topic areas include: regulation of gene expression (toxicant metabolizing enzymes, oncogenes, DNA repair enzymes); cellular effects mediated by the Ah receptor; toxicant activation; toxicity in developing organisms; mechanisms of carcinogenesis; action of toxins on liver, kidney, gonadal, nerve, and immune cells. Time will be allocated for training in Toxicology, and Molecular and Cellular Biology as appropriate. Collaborative projects involving more than one laboratory are encouraged. Applicants must be U.S. citizens or permanent residents and should send a curriculum vitae, three references (addressed and telephone numbers), and a letter stating research interests to: Dr. Colin R. Jefcoat, Director, Environmental Toxicology Program, B157 Steenbock Library, 550 Babcock Drive, Madison, WI 53706. Telephone: 608-263-4580. An Equal Opportunity Employer.


SCIENTIFIC LIBRARIAN Progressive Marina del Rey nutrition firm seeks CLINICAL RESEARCH ASSOCIATE or LIBRARY RESEARCHER for cutting edge work on health and nutrition. Emphasis is on the new trend in nutritional support, alternative health care, and life extension, this firm is the answer. Excellent opportunity for alternative-care minded individuals with an eye on the future. Send resume in confidence to: J. Murphy & Associates, 200 Washington Boulevard, Suite 420, Marina del Rey, CA 90292.

RESEARCH ASSOCIATE needed by southwest Ohio University to conduct multidisciplinary ergonomics-biomechanics research studying the risks of slips and falls on elevated and/or inclined surfaces, the ergonomics of task performances on slippery surfaces, and the gait and balance in lead exposed children. Coordinates data collection with human subjects developing protocols and questionnaires. Works closely with classmate in Asyst and C++ to collect, analyze, graph, and plot data using software and hardware from AMTI Force Platforms, Peak Performance System and Fiscan Pressure Sensors. Uses SAS programming and multivariate regression analysis to analyze results and writes reports for scholarly journals. Must have Ph.D. or completed all degree requirements, in environmental health or industrial hygiene. Must have two years of experience in job described or two years of experience or dissertation involving writing programs in C++ and Asyst to collect and analyze data using AMTI Force Platforms, Peak Performance System and Fiscan Pressure Sensors. Experience may be gained before, during or after degree and may be gained concurrently. Work schedule: forty hours per week. Base salary $21,000+ and relocation costs are paid. Application deadline is October 15, 1995. Salary: $39,140.04 per year. Must have proof of legal authority to work permanently in the U.S. Send two resumes and cover letters (no confidential) to: Dr. Alan Morgan, Department of Nutrition, Room No. 1357, College of Health, Sport and Exercise Sciences, Appal State University, Boone, NC 28608. Telephone: 213-262-2817; Email: morgan@nap.com. An Equal Opportunity Employer.

PLANT TECHNOLOGY DNA Plant Technology Corporation has an immediate opening in its Vegetable Tissue Culture Group for an experienced SCIENTIST to work on dicot transformation. Current research is in the development of transformation systems in a variety of vegetable crops and the production of new transgenic lines for commercial release. Candidate's background should include experience using Agrobacterium, preferably in the development or troubleshooting of transformation protocols. Experience with the tissue culture and transformation of tomato and/or strawberry would be valuable. DNAP offers an excellent compensation and benefits package that includes stock incentives. Candidates should send a resume with three references to: Dr. Alison Morgan, DNA Plant Technology Corporation, 6701 San Pablo Avenue, Oakland, CA 94608. FAX: 510-547-2817; Email: morgan@dnap.com. An Equal Opportunity Employer.

SENIOR RESEARCH ASSOCIATE The Department of Neurology, Columbia University College of Physicians and Surgeons, seeks a SENIOR RESEARCH ASSOCIATE to assist in laboratory work in neurogenetics. Responsibilities will include DNA sequencing and analysis, mutation analysis, RNA and protein extraction and assay. M.D. or Ph.D. required, with at least three years of postdoctoral experience in the necessary techniques. Send curriculum vitae to: Torben Joern G. Nygaard, M.D., Department of Neurology, Columbia University, 710 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT I Coronary vascular physiology and pharmacology research. Primarily responsible for conducting both functional and imaging studies of coronary arteries obtained from various species as well as human hearts. Responsible also for implementation of highly integrated and computerized data acquisition system to correlate magnetic resonance imaging (MRI) with coronary arteriograms to their functional reactivity. Will assist in the experimental designs, data analyses, and preparation of reports and publications. Requires a Ph.D. in biology and/or computer engineering plus one year of experience in duties described or one year of experience in computer engineering or medical engineering. Computer engineering or medical engineering experience must include control of computer based data acquisition/processing techniques, analog/digital equipment experience, and ability to program for data processing, and knowledge of MRI technique. Salary: $22,000 per calendar year. Work 8 am to 5 pm, 40 hours per week. Applicants must be authorized to work in the United States. Resume: MO. Fowler, Alabama State Employment Service, P. O. Box 12046, Birmingham, AL 35202-2046. Refer to Job Order Number AL 5020747. Equal Employment Opportunity.

THE CLEVELAND CLINIC FOUNDATION STAFF SCIENTISTS PROGRAM IN MACULAR DEGENERATION AND INHERITED RETINAL DISEASES Division of Ophthalmology and the Cleveland Clinic Foundation (CCF) Recruitment of STAFF SCIENTISTS is underway for the newly expanding Eye Institute. Two positions are available immediately at the Assistant, Associate or Full Scientist level, and three additional positions will be filled in the fall of 1997. Basic investigators with training in molecular biology, cell biology, biochemistry, human genetics, or epidemiology, with research interests that impact the clinical areas of macular degeneration and inherited retinal diseases, will be seriously considered. Applicants should send curriculum vitae; names of three references; and a statement of past research activities, current interests, and career goals to: Joe G. Hollyfield, Ph.D., Director of Ophthalmic Research, Research Institute FPH, The Cleveland Clinic Foundation, Cleveland, OH 44195-5245. FAX: 216-445-3670. Email: <hollyfield@ccmf.ccf.org>. CCF is an Equal Opportunity/Affirmative Action Employer.

OPEN EXAMINATION FOR SENIOR TOXICOLOGIST The California Environmental Protection Agency, Department of Pesticide Regulation, seeks a SENIOR TOXICOLOGIST in the pesticide regulatory program. Requirements: four years of postdoctoral experience in toxicology, preferably closely related field. This experience must include the interpretation of toxicological findings relative to probable human health and one year of experience in the testing of biologically derived pesticides. This position is open to men and women. The senior toxicologist position is responsible for both supervisory tasks and may perform the most difficult or sensitive work. The position is located in Sacramento. Salary range: $5,242 to $6,336 per month. Comprehensive benefits package. Submit application and resume by October 30, 1995.

Department of Pesticide Regulation Personnel/Examination Unit 1202 N. Street, Room 126 Sacramento, CA 95814 Attn: SDJ For State application and announcement Telephone: 916-322-4653.

RELOCATION OF RESEARCH PROGRAMS TAMPA BAY INSTITUTE The Tampa Bay Research Institute (TBI) invites applications from established SCIENTISTS to relocate funded research programs in Molecular Biology, Cancer Research, Virology, and Gene Therapy. TBI is an independent, nonprofit research organization located in the beautiful Tampa Bay Area. The institute is based in a modern facility with excellent individual laboratories suitable for molecular biology/biotechnology research in a variety of areas of modern biology. Individuals with funded research programs in the fields of interest are encouraged to apply. Please send application, including a statement of research interest and names and addresses of three referees, to: The Chair, Search Committee, Tampa Bay Research Institute, 10000 Roosevelt Boulevard, St. Petersburg, FL 33716.

COURSES AND TRAINING ATTENTION PH.D.'S AND M.S.'S Earn M.D. degree from top ranked international medical school. Alternate studies program in English, two basic science years, three weeks on six weeks off. Work Health Organization listed and Educational Committee on Foreign Medical Graduates approved. Eligible for third and fourth years U.S.A. Contact: Dr. Alan B. Butowsky. Telephone: 203-563-4554. Total cost per year is approximately $18,000.
ANIMAL HEALTH RESEARCH

Pfizer, a leader in animal health products has established a reputation for success in finding/developing breakthrough products for the global market. Our new Molecular Biology laboratory is a dynamic part of Pfizer's Animal Health discovery operation in Lincoln, Nebraska.

At Pfizer we draw from real life.

Currently, Pfizer's cutting-edge Molecular Biology department, has an outstanding opportunity for a team-oriented, technically talented:

**Viral Molecular Biologist**

Design and conduct contemporary experiments on RNA viruses for the discovery of biological animal vaccines. To qualify, you must have a Ph.D. or equivalent in microbiology or biochemistry with at least 2 years of relevant postdoctoral experience with RNA viruses, including retroviruses or coronaviruses, with the ability to manipulate RNA using contemporary techniques. In addition to the opportunities to interact with one of the world's finest corporate scientific communities, you will enjoy the many recreational and educational amenities of our community and its friendly, family-oriented Midwestern lifestyle. Relocation assistance is available. Please send detailed resume to: Employee Resources, Biological R&D, 601 West Cornhusker Highway, Lincoln, NE 68521.

We are an equal opportunity employer M/F/D/V.

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TWO FACULTY POSITIONS
DEPARTMENT OF BIOCHEMISTRY
AND BIOPHYSICS
IOWA STATE UNIVERSITY

The department seeks to fill two tenure-track appointments at the level of assistant professor. The successful applicants will be expected to develop independent research programs that emphasize biochemical and/or biophysical aspects of important biological problems. Applicants should also have an interest in graduate and undergraduate teaching. Generous start-up funds and space in the new Molecular Biology Building will be available. Applicants should send a curriculum vitae and description of research accomplishments and interests, and have three letters of recommendation sent to:

Faculty Search Committee
Dr. Robert J. Thornburg, Chairman
Department of Biochemistry
and Biophysics
1210 Molecular Biology Building
Iowa State University
Ames, IA 50011

To ensure full consideration, all materials should be received by January 15, 1996. Iowa State University is an affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are especially encouraged. For additional information about the Department and Iowa State University see: http://molebio.iastate.edu/bbhtml/homepage.htm

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CARDIOVASCULAR PHARMACOLOGY

**Investigator**

SmithKline Beecham, a worldwide leader in pharmaceutical research, has an excellent research opportunity in our Cardiovascular Pharmacology department for an Investigator with good understanding of molecular biology techniques and strategies and special emphasis on transcription regulation factors.

While working in a very interactive and collaborative environment, the successful candidate will establish independent basic research in areas such as atherosclerosis, tissue remodeling and matrix formation, smooth muscle/endothelial cell biology and vascular functions. Responsibilities will also include supervising an associate scientist and taking care of administrative aspects of lab work.

Qualified Individuals will have a PhD in Biological Sciences, at least one full term of post-doctorate fellowship, and 5-7 years' experience in independent scientific research in an academic or pharmaceutical research organization. Strong experience in gene cloning, yeast dihydrid systems and cell biology is important. A strong track record of publication in high-quality, peer-reviewed professional journals is mandatory.

Our state-of-the-art research facility is located in suburban Philadelphia. We offer a competitive compensation/benefits/relocation package and a stimulating team environment. For confidential consideration, send your resume to: SmithKline Beecham Pharmaceuticals, Job Code HS-0107, PO. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/DV.

SB
SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

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DIRECTOR
Research Animal Resource Center
Memorial Sloan-Kettering Cancer Center
and the
Cornell University Medical College

The Memorial Sloan-Kettering Cancer Center (MSK) and the Cornell University Medical College (CUMC) are seeking a Director for their jointly-operated Research Animal Resource Center (RARC) which encompasses approximately $5,000 NSF with an average daily census of more than 92,000 animals. The Director of RARC has direct responsibility for managing an AAALAC-accredited program of laboratory animal care and use that complies with all federal, state and local animal welfare regulations. The Director serves as the chief veterinarian for both institutions and has MSK/CUMC-wide responsibility for the development, recommendation and implementation of policies regarding the care and management of research animals.

Responsibilities include supervising two veterinarians and approximately 29 managerial and associated support staff members in the General Animal Facilities and Animal Health Divisions who provide clinical care, post-operative care, anatomic and clinical pathology services, and related professional services. The annual budget of RARC exceeds $2.5M.

Candidates must have either the DVM or VMD from a recognized school of veterinary medicine; must be Board certified by the American College of Laboratory Medicine and must have approximately 10 years of significant administrative experience (including personnel and budget management) in the care and managing of research animals; should have research experience.

Individuals should submit a letter of interest, a curriculum vitae, and the names of three references to: Senior Vice President, Memorial Sloan-Kettering Cancer Center, Room 1308H, 1275 York Avenue, New York, NY 10021.

Memorial Sloan-Kettering Cancer Center and the Cornell University Medical College are committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.
Public Announcement Regarding the Recruitment of Researchers for the NEDO Industrial Technology Fellowship Program in FY1996.

The New Energy and Industrial Technology Development Organization (NEDO) has been conducting research and development on new energy, energy conservation and industrial technologies. In order to ensure efficient promotion of its research and development projects, NEDO would like to recruit researchers to participate in such projects.

Those who wish to participate in NEDO's projects should apply in accordance with the following information.

1. Purposes and Activities
   In order to more efficiently conduct NEDO’s ongoing research and development projects, NEDO will employ researchers (hereinafter “Industrial Technology Researchers”) to be seconded to organizations which NEDO has entrusted with its projects to be engaged in project research and development work.

2. Projects
   Please refer to the attachment entitled “Projects for Which Industrial Technology Researchers Will Be Enlisted.”

3. Employment Period
   The employment period will be from April 1, 1996 to March 31, 1997. (The total employment period may extend up to a maximum of three consecutive years, that is, up to March 31, 1999, based on an evaluation at the end of each fiscal year.)

4. Number of Researchers to be Recruited.
   Several researchers will be recruited.

5. Requirements
   (1) A person who holds a doctorate degree or who has a comparable level of research ability;
   (2) A person without any health problems which may constitute an obstacle to research activities;
   (3) A person whose Japanese or English language ability does not create any obstacle to his/her life in Japan.

   (1) The status of individual Industrial Technology Researchers shall be as a full-time employee on a contract basis.
   (2) Work conditions shall be in accordance with NEDO’s work regulations.
   (3) NEDO will pay a total annual remuneration of approximately ¥7.0 million based on regulations provided for by NEDO. (This amount includes basic salary, benefits, taxes and the researcher’s share of premiums for social insurance. Payments equal to 1/12 of the total amount of annual remuneration will be made on a monthly basis.)
   (4) NEDO will pay the actual amount of transportation expenses necessary for individual Industrial Technology Researchers to travel from their home or place of residence to their place of work in Japan. (The amount shall not include expenses for anyone other than individual Industrial Technology Researchers.)

7. Screening of Successful Applicants
   Successful applicants will be selected by NEDO’s internal committee comprised of such people as those with knowledge and experience in the field of industrial technology.

8. How to Apply
   Those who wish to apply are requested to send NEDO an Application for an Industrial Technology Researcher Position in FY1996 with necessary information filled in conforming to Format 1 attached hereto together with the documents listed below.
   (1) Curriculum vitae (There is no particular requirement for the format. The document should be typed and signed by the applicant.)
   (2) Copy of diploma (only of the last educational institution)
   (3) Copy of certificate of doctorate degree
   (4) List of research publications (papers and oral presentations) (See Attachment 2)
   (5) Copies of two or three representative research papers (Excluding doctorate thesis)

9. Deadline for Submitting Applications
   All applications should be forwarded to the person indicated below and arrive at NEDO no later than December 1, 1995.

   Shunji Kubota
   Research and Development Division
   Industrial Technology Department
   New Energy and Industrial Technology Development Organization
   3-1-1, Higashi-ikebukuro, Toshima-ku, Tokyo, 107 Japan
   Telefax: 03-3981-1536

10. Inquiries
   For inquiries regarding this program, please contact either of the following persons at NEDO by telefax:

   Shunji Kubota
   Research and Development Division
   Industrial Technology Department
   Telefax: 03-3981-1536

   Masamichi Yamamoto
   Policy Planning and Coordination Division
   Planning Division
   Telefax: 03-3981-1059

*The information given above is based on the assumption that approval will be obtained from the national budget. Please note, therefore, that the information is subject to change depending on the situation related to the budget approval.
GLOBAL CAREER OPPORTUNITIES

To: Mr. Hachio Iwasaki
New Energy and Industrial Technology
Development Organization

Date:

Name and address of applicant: 
Signature

Regarding the subject shown above, I hereby wish to apply for a position as follows:

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(List of Research Presentations/Publications)

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<th>Title</th>
<th>Medium</th>
<th>Name(s) of co-authors</th>
<th>Remarks</th>
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(Note) 1. This document shall be prepared using JIS A4 or letter size paper.
2. The application may be prepared on more than one page to cover all necessary items.
3. The reference person shall be a person with knowledge about such issues as the contents of the applicant's research or achievements.

"Projects for Which Industrial Technology Researchers Will Be Enlisted."

1. **Marine Biotechnology (Fine Chemicals from Marine Organisms and Tropical Bioresources)**
   - The goal of this R&D project is to establish technology for the production of various fine chemicals by promoting the use of unexplored marine and tropical organisms and by developing new basic relating biotechnologies.

2. **Ultimate Manipulation of Atoms and Molecules**
   - In combination with the mechanical probe technique and beam technique, the new technology allows the identification, observation, measurement and manipulation of atoms and molecules on surface of various matter, organic molecules such as DNA, and atom assemblies in free space. R&D of simulation technology will also be pursued to exactly predict atomic and molecular processes and their properties on purely theoretical basis.

3. **Synergy Ceramics**
   - Material properties and functions are closely related to the type and structure of the constituent elements. The microstructure of ceramic materials is composed of many kinds of structural elements such as chemical bonding, crystalline lines, fibers, and layers. These elements have different sizes and morphologies (shape, configuration, distribution, etc.), and their size can range from the atomic-molecular scale through the nano-scale (1/1,000,000 mm), micro-scale (1/1,000 mm) to the macro-scale.

4. **International Clean Energy Network Using Hydrogen Conversion**
   - International Clean Energy Network Using Hydrogen Conversion System (World Energy Network, WE-NET) is a large scale project which will provide a comprehensive solution to the global dilemma of producing and utilizing energy while simultaneously preserving the environment. The WE-NET project will construct a clean energy network on a worldwide scale, where hydrogen will be produced by employing various kinds of renewable energies such as hydropower, solar, geothermal and wind power in areas blessed with those energies. The produced hydrogen will then be transported to and used in high energy consumption regions.

5. **Broad Area Energy Utilization Network System (Eco-Energy City)**
   - The Eco-Energy City Project is a multi-technology initiative which aims at promoting the development of innovative technologies necessary for constructing broad-area energy networks. Echo-Energy Cities will have low energy demand (energy conservation) and little negative effect on the environment. In order to promote the Eco-Energy City Project a wide range of innovative elemental technologies such as waste heat recovery and energy conversion technologies, energy transportation technologies, energy storage technologies, heat utilization technologies, environmental protection technologies, system technologies and etc, have been developed from FY1993.
The Cooperative Research Centre for Landscape Evolution and Mineral Exploration (CRC LEME) is an unincorporated joint venture between Australian National University, University of Canberra, Australian Geological Survey Organisation and CSIRO Exploration and Mining. Established on 1 July 1995, CRC LEME's vision is the discovery of concealed world-class ore deposits through knowledge of Australian landscape evolution.

The broad mission of CRC LEME is to develop an enhanced understanding of the three-dimensional Australian landscape in terms of its geomorphology, regolith geology, weathering diagenesis and geochemistry, and translate this understanding into vastly improved methods for finding world-class mineral deposits, and into the training of geoscientists.

Within this broad mission there are a number of objectives:

- To establish the spatial relationships between regolith, landforms, and bedrock
- To establish uniform terminology
- To understand the relationships between weathering processes and evolutionary stages of regolith development
- To develop appropriate exploration procedures for different landscape situations
- To ensure the effective transfer of knowledge to the exploration industry, academia and the wider community of interested professionals.

CRC LEME has the following programs:

1. Regolith and landforms of the Australian Shield
2. Regolith and landforms of the Tasman Fold Belt
3. Regolith and landforms of the Australian sedimentary basins
4. Synthesis of Australian regolith-landscape evolution

Education and Applications are important activities of CRC LEME.

To undertake the work of CRC LEME the following position is now available at the Australian Geological Survey Organisation.

**Program Leader**

(Principal Research Scientist)
A$66,472 – A$74,884

CRC LEME is seeking to appoint a highly motivated Geoscientist to work in Program 3, Regolith and Landscapes of Australian Sedimentary Basins. The person appointed will have a PhD or equivalent in geoscience with expertise in the broad area of regolith studies and familiarity with at least some of the following:

- geomorphology
- regolith geochemistry
- terrestrial sedimentology
- surficial geology

Experience in mapping regolith, landforms or soils would also be an advantage. The appointee will have a commitment to mineral exploration. We will also be looking for experience in project management.

The position will be based at AGSO in Canberra with regular travel to Sydney and occasional travel throughout Australia. The job will involve leadership of Program 3, the development and leadership of research projects within the program, and liaison with industry representatives. The appointee will lead a team of scientists and professionals from government, universities and industry. He/she will be expected to make a contribution to the development of research directions in the CRC LEME.

The appointment will be permanent, subject to normal probationary conditions. Australian Government superannuation is available.

Further information regarding this position is available from Dr Colin Pain, AGSO, telephone 61 6 249 9469, or Dr Raymond Smith, Director, CRC LEME, telephone 61 6 387 0272.

Copies of the Duty Statement and Selection Criteria are available from the recruitment officer on telephone 61 6 249 9836.

Please send your application to the Personnel Manager, AGSO, Box 378 Canberra ACT 2601 AUSTRALIA. Applications should be marked "Position: PR91999" and be received by close of business on Friday 1 December 1995.

AGSO is an equal opportunity employer.

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**UNIVERSITY OF TASMANIA**

**BURNIE**

**Chair in Dairy Science**
Department of Agricultural Science

Applications are invited for appointment to the position of Professor of Dairy Science within the Department of Agricultural Science at the University of Tasmania. This position will be based at the University's North-West Campus in Burnie and the initial appointment will be for a period of 5 years.

The successful applicant will have a distinguished international research reputation in animal nutrition aspects of dairy research. Applicants with research interests in the area of pasture-based ruminant nutrition are particularly encouraged to apply for this position.

As a staff member of the Department of Agricultural Science, the appointee will function as the Director of the University's Cuthbertson Research Laboratories and will be responsible for developing and leading the University's research, education and postgraduate programs in dairy science. The appointee will join dairy researchers and technical support staff of the Tasmanian Institute of Agricultural Research (TIAR), a multi-disciplinary team of researchers located within the North-West Centre. This research group will be responsible for delivering industry prioritised research to support the rapidly expanding dairy industry in Tasmania, in accordance with research strategies endorsed by the Board of the TIAR. Resources to support this research will be provided by the University, the Department of Primary Industry and Fisheries (DPIF), the Dairy Research and Development Corporation and industry.

Facilities at Burnie include the recently completed Cuthbertson Research Laboratories, the DPIF Elliott Research Station and the TAPE/University Farm.

The appointee will be expected to contribute to all academic activities of the University and the further development of collaborations between the University, DPIF, TAPE and industry in all areas of dairy science education, research and training.

Further details concerning the post, the appointment criteria and general information about the University are available from the Secretary, Personnel Services, telephone 61-03-24 3637, facsimile 61-03-24 3437. Details on the academic programs within the Department of Agricultural Science and the current and planned collaboration with the TIAR, TAPE and industry, are available from Professor RJ Clark, Head of Department, Agricultural Science, University of Tasmania, Hobart, Tasmania 7001, Australia, telephone 61-02-20 3630, fax 61-02-20 2842, email Rob.Clark@agsci.utas.edu.au.

The present professorial salary is $AU80,176 pa plus superannuation. With the consent of the University, academic staff may also undertake consultative work.

Applications, quoting reference number BA 125/95 and including the names of three referees, should give particular attention to the selection criteria and reach the Director of Personnel Services, University of Tasmania, PO Box 1214, Launceston, Tasmania 7250, Australia by 15 November 1995.

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The Research Development Corporation of Japan, a statutory agency of the Japanese Government, invites applications for its new ERATO projects listed below from young scientists interested in recognized, well-funded, multidisciplinary research. ERATO projects operate for five-year terms and are independent from the Project Directors’ home institutions.

**Masumoto**
**SINGLE QUANTUM DOT Project**

Fields: SEMICONDUCTOR OPTICAL PHYSICS, LASER SPECTROSCOPY, OPTOELECTRONICS, SURFACE SCIENCE, MATERIALS SCIENCE, CHEMISTRY

Research: Optical properties of semiconductor quantum dots, laser spectroscopy of a single quantum dot, ultrafast carrier dynamics, fabrication, theoretical studies

Director: Dr. Yasuaki Masumoto, University of Tsukuba

**Kato**
**CYTOPROTEIN NETWORK Project**

Fields: MOLECULAR GENETICS, BIOCHEMISTRY, PROTEIN CHEMISTRY AND PHYSICS, CELL BIOLOGY

Research: Systems approach to the proteins of the intracellular network using full-length cDNA libraries and related tools

Director: Dr. Seishi Kato, Sagami Chemical Research Center

**Doi**
**BIOASYMMETRY Project**

Fields: THEORETICAL BIOLOGY AND GENETICS, MOLECULAR GENETICS, EXPERIMENTAL EVOLUTION, DEVELOPMENTAL BIOLOGY

Research: Asymmetric replication of DNA and its role in cell differentiation and tissue development

Director: Dr. Hirofumi Doi, Fujitsu Laboratories

**Mikoshiba**
**CALCIOSIGNAL NET Project**

Fields: BIOCHEMISTRY, CELL BIOLOGY, ELECTROPHYSIOLOGY

Research: The calcium-inositol trisphosphate signal pathways and their relation to functional molecules and membrane dynamics, calcium ion dynamics and information control, membrane-cytoskeletal associations, protein targeting

Director: Professor Katsuhiko Mikoshiba, The University of Tokyo and the Institute for Physical and Chemical Research (RIKEN)

The 1995 ERATO GUIDE FOR PROSPECTIVE RESEARCHERS is available on the Internet (http://www.jrdc.go.jp/ERATO/NewPositions/) or from the ERATO Overseas Representative. Applicants must hold a Ph.D. or equivalent degree with less than 5 years of postdoctoral experience, be willing to stay at least one year, and be fluent in English or Japanese. Applications must include 1) a letter describing background and interests (important!), 2) curriculum vitae, 3) list of publications, 4) copies of representative publications, and 5) names and addresses of references. Send applications by post only, not by electronic mail.

Send Applications To

ERATO Overseas Representative, 950 Conestoga Road, Rosemont, Pennsylvania 19010-1347 USA
Voice: +1-610-527-4538, Fax: +1-610-527-2041, Internet: engel@jrdc.go.jp
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American Association for the Advancement of Science
The Chinese University of Hong Kong

Department of Biochemistry invites applications for:

Lecturer (Human Genetics/Oncology) (carrying the title of Assistant Professor or Associate Professor, as appropriate) (Ref. 95/115/665/2)

Candidates should have a PhD degree and post-doctoral experience in (i) human genetics, with substantial research emphasis on the genes responsible for inherited and somatic diseases or (ii) cancer research, particularly as it relates to the interaction among drugs, radiation and growth factors in suppressing tumour growth. The successful applicant is expected to develop externally funded research programmes and participate in graduate training and the instruction of undergraduate science and medical students. The appointee will be provided with laboratory space and start-up funds in a well appointed Department which offers tissue/cell culture facilities and analytical equipment including automated DNA sequencer, DNA synthesizer, flow cytometer, confocal microscope, mass spectrometer as well as opportunities for collaborative work. The specific area of research is open but demonstrable expertise in genome mapping and gene knock-out which can complement the Department’s existing research interests will be decided advantages. English and/or Chinese are used in teaching and administration at the University.

Annual Salary and Fringe Benefits
HK$454,200 - 758,700 by 10 increments
(approx. exchange rate in September 1995: £1 = HK$12.2)
Starting salary will be commensurate with qualifications and experience.
Benefits include leave with full-pay, medical and dental care, education allowance for children, housing benefit for eligible appointee (with appointee contributing 7.5% of salary towards the provision of housing). Appointment may be made either on regular or fixed term contract. Under regular contract, retirement benefits are provided by the University. Fixed term contract also carries where appropriate a contract-end gratuity (15% of basic salary).

Application Procedure:
Send full resume in duplicate, and names and addresses of three referees, with copies of academic credentials (in duplicate) and recent publications, to the Personnel Office, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong (Fax: (852)2603 6852) before December 6, 1995. Please quote the reference no. and mark “Recruitment” on cover.

The Institute for Pflanzenzogenetik und Kulturpflanzenzogenforschung (IPK) in Gatersleben and the Martin-Luther-Universität Halle-Wittenberg invites applications for the position of

Head of the IPK Gatersleben Genebank
(Bes.Gr. C4)

Responsibilities include teaching in the field of Biology and Genetics of Plant Genetic resources at the University in Halle.

The IPK in Gatersleben is a research centre with over 400 employees. It is funded as a Blue List institute by the federal state of Sachsen-Anhalt and the Federal Republic of Germany.

The responsibilities of the head of the genebank will include further development of the collections, their characterization and evaluation within the framework of expanding cooperations, the improvement of information systems and the increasing use of the collections in co-operative research with other departments of the IPK deploying up-to-date methods and technologies. The successful candidate will support the Federal Government of Germany in the field of plant genetic resources in national and international committees.

We are looking for an internationally recognized scientist with experience in leading interdisciplinary research groups.

The appointee will become a member of the board of directors of the IPK.

The IPK promotes equal opportunities and women are particularly encouraged to apply.

Please send a curriculum vitae, a list of publications with up to 10 reprints and names and addresses of three referees within six weeks to:

Dekan des Fachbereiches Biologie
der Martin-Luther-Universität Halle-Wittenberg
Domplatz 4, D-06108 Halle/Germany

UNIVERSITY COLLEGE LONDON
Department of Human Communication Science

Chair of Communication Disorders

UCL intends to make an appointment to a newly established Chair of Communication Disorders. The Department of Human Communication Science is a new multidisciplinary department within the Faculty of Life Sciences, created by the recent transfer to UCL of the National Hospital's College of Speech Sciences. It is the largest and among the most research-oriented of its kind in the UK. The Department already enjoys close teaching and research links with other departments within UCL, and also with the Institute of Neurology/National Hospital for Neurology and Neurosurgery. There are excellent opportunities for clinical research.

We are seeking an established scholar with an international profile, who will strengthen the research ethos of the new Department, and who has a commitment to research into any aspect of communication disorders in children or adults. The main focus of the post will be on research and postgraduate teaching, with minimal administrative duties.

Further particulars may be obtained from the Head of Department, Dr Bill Wells, Chandler House, 2 Wakefield Street, London WC1N 1PJ, UK. Tel 071 837 0113. Fax 071 713 0861. E-mail bill.wells@ucl.ac.uk. Applications (ten copies from UK candidates, one copy from overseas candidates) including a curriculum vitae and the names and addresses of three referees (including at least one overseas referee) should be sent to The Provost, University College London, Gower Street, London WC1E 6BT, to arrive by 1st December 1996.

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The United Arab Emirates University
Faculty of Science
Department of Biology

FACULTY POSITIONS

The Department of Biology at the UAE University invites applications for a faculty position in the following areas:

1. Plant Physiology (Desert Ecophysiology)
2. Developmental Biology
3. Recombinant DNA Biotechnology
4. Human/Animal Physiology
   (Special consideration is given to Cardiovascular Physiology)
5. Comparative Anatomy
6. Embryology (Animal Tissue Culture)

Candidates must have a Ph.D. and demonstrate interest and potential for excellence in both teaching and research. Excellent command of Arabic and English languages is required. Applications should be received prior to December 15, 1995. Send resume with three references and letter of application to: Secretary General, The UAE University, P.O. Box: 15551, Al Ain, Arab Emirates, Fax # (971-3)-645277.

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We are looking for an internationally recognized scientist with experience in leading interdisciplinary research groups.

The appointee will become a member of the board of directors of the IPK.

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Cancer Epidemiologist
UTAH CANCER REGISTRY

The University of Utah and the Huntsman Cancer Institute invite applications for the Director of the Utah Cancer Registry. The Huntsman Cancer Institute is a new and rapidly expanding center of research at the University of Utah.

The Utah Cancer Registry plays a major role in facilitating cancer research activities of Huntsman Cancer Institute members and other cancer researchers in the intermountain area. The Utah Cancer Registry is one of the oldest cancer registries in the United States and has been part of the Surveillance Epidemiology and End Result (SEER) Program sponsored by the National Cancer Institute since 1973. The Director of the Utah Cancer Registry will assume programmatic and administrative responsibilities for the cancer registry and will provide leadership in developing and coordinating registry policies and procedures.

Candidates should have an M.D. with training in epidemiology or a doctoral degree in epidemiology or related scientific discipline and must qualify for an appointment at the Associate Professor level. The successful candidate must have a proven record of excellence in cancer research and management of research projects as demonstrated by cancer-related publications and ability to obtain research funding. We invite applications from individuals who understand issues related to gathering complex medical data and are able to communicate effectively with a wide variety of individuals within the scientific, medical, and lay communities. It is expected that the successful candidate will continue to develop a cancer-related research program within the Huntsman Cancer Institute.

To apply for this position, send a cover letter, a current CV, and names of individuals whom you may contact as a reference by February 29, 1996. Send applications to Marty Slattery, Ph.D., M.P.H., Department of Oncological Sciences/Division of Public Health Sciences, Room 5C334 SOM, University of Utah, Salt Lake City, Utah 84132. Additional information can be obtained by contacting Dr. Slattery at marty@possum.med.utah.edu.

The University is an Equal Opportunity/Affirmative Action employer. Women, minority, and international candidates are encouraged to apply.

Assistant/Associate Professor
Biochemistry/Molecular Biology of Cancer

The Department of Biochemistry and Molecular Biology and Center of Excellence in Cancer Treatment, Research and Education (the Cancer Center) at the Louisiana State University Medical Center invite applications for a tenure-track faculty position. The Department and Center currently have strengths in prokaryotic and eukaryotic genetics, transcription and chromatin structure, translation and cell growth control, protein and biophysical chemistry, and signal transduction. Applicants with interests in the molecular biology of cancer research are particularly encouraged to apply. Applicants should have a doctoral degree, post-doctoral research experience and a commitment to excellence in teaching and research. The successful applicant should develop a strong, externally funded research program and contribute to the teaching of graduate and medical students. The Department and Center will assist with technical support and start-up funds. Send a curriculum vitae, statement of current and future research directions, and names of three references to: Robert E. Rhodes, Ph.D., Professor and Head, Department of Biochemistry and Molecular Biology, LSU Medical Center, 1501 Kings Highway, Shreveport, LA 71130-3932, U.S.A. An equal opportunity employer.

POSITION ANNOUNCEMENT

RANK AND TITLE: Professor and Head, Department of Animal Sciences, College of Agricultural, Consumer and Environmental Sciences, University of Illinois at Urbana-Champaign

DEPARTMENTAL DESCRIPTION:
The Department of Animal Sciences is administered by a Head, and includes 44 faculty involved in research, teaching and extension activities. Complete curricula are offered to 400 undergraduate majors and 100 graduate students in M.S. and Ph.D. programs in various specializations.

QUALIFICATIONS:
Candidate must hold a Ph.D. in one discipline of the animal sciences, be internationally recognized for contributions in research, resident and/or extension education, and be tenurable at the level of Professor. Administrative experience and familiarity with the land-grant system are desirable. The candidate should have strong communication skills, the ability to work effectively with faculty, students, staff, administrators, and industry clientele, and demonstrated ability in attracting extramural funding.

SALARY: Competitive and commensurate with experience.

NOMINATIONS AND APPLICATIONS:
Nominations/Applications must be received by December 15, 1995 to ensure full consideration. Qualified women and minority candidates are encouraged to apply. Applications, including a statement of interest in headship, resume, and names, addresses and phone numbers of three references should be sent to:

Search Committee for Head, Department of Animal Sciences
c/o D.L. Chicoine Interim Dean
College of Agricultural, Consumer and Environmental Sciences
101 Mumford Hall/1301 West Gregory Drive
Urbana, IL 61801
Att: Linda Pein
Telephone: 217-333-0460/Telefax: 217-244-2911

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MEETINGS

Optical Imaging of Gene Expression and Signaling in Living Cells
March 15 - 17, 1996

Conference Chairman: Steve Kay, University of Virginia

Keynote Address:

Roger Tsien, University of California, San Diego
"Imaging Proteins and Gene Expression in Living Cells: GFP, beta-Lactamase, and Beyond"

Advanced Imaging Technology and Reporter Measurement

Masafumi Oshiro, Hamamatsu Photonics USA
Ted Salmon, University of North Carolina
Scott Fraser, California Institute of Technology
Keith Wood, Promega Corporation

Luciferase Applications

Jeremy Tavare, University of Bristol, U.K.
Stephen Frawley, Medical University of South Carolina
Andrew Millar, University of Warwick, U.K.
Lionel Jaffe, Woods Hole Marine Biological Laboratory

Applications of Green Fluorescent Protein and its Derivatives

Tule Hazlerig, Columbia University
Jim Haseloff, Medical Research Council, U.K.
Pamela Silver, Harvard Medical School

Abstracts may be submitted for poster presentation. The abstract deadline is January 15, 1996. Registration fee, including all meals and accommodation: Students $295, all others $385

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