

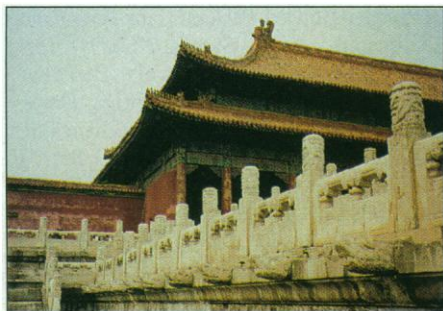


AAAS NEWS AND NOTES

edited by TIFFANY AYERS

PACIFIC RIM

Asian Countries Look to Upgrade Agricultural Development



The Forbidden City in Beijing was just one stop for participants in a AAAS agricultural conference.

The population in the Asia Pacific region, including the Indian subcontinent, makes up over two-thirds of the world's total. Feeding this large and growing population in the future will be a challenge, especially as expanding urban areas, new infrastructure, and industrial development limit the availability of arable land. In addition, the lack of new technologies combined with excessive farming has resulted in low production, soil erosion, and deterioration of the environment.

The Asia Pacific High-Level Conference on Sustainable Agriculture, hosted by AAAS and the China Association for Science and Technology (CAST) in Beijing on 5–8 October, brought together agricultural experts from the United States and the Pacific Rim region. The participants discussed agricultural development and environmental issues, and looked for ways to upgrade the research and development level of sustainable agriculture within the region.

The conference, which took place in the China Hall of Science and Technology, was attended by 37 people from 13 countries; approximately 150 local students also attended the first day. Par-

ticipants heard addresses from AAAS President M. R. C. Greenwood and CAST President Zhou Guangzhao, and toured an ecological village in Daxing, outside of Beijing.

The conference concluded with a call for the formation of a Consortium for Asian Pacific Sustainable Agriculture Research and Application (CAPSARA). "The consortium will continue to discuss how sustainable agriculture can be promoted and how the research and application gaps that exist can be filled," said Mike Snyder, director of the AAAS Pacific Rim Initiative.

INTERNET

Guidelines Prepared for Net Access

American government, industry, and universities are collaborating to develop advanced uses for the complex networked information systems needed in the 21st century. To discuss how the network can best be developed to meet the needs of universities in remote and less high-tech areas, AAAS brought together scientists, policy makers, and educators at a workshop entitled Making the Net Work for Research and Higher Education, held on 8–9 October at the San Diego Su-

percomputer Center at the University of California, San Diego.

Approximately 70 presidents, deans, and research directors from universities such as Mississippi State University, the University of Montana, and Oklahoma State University met with White House officials, federal agency staffers, and other networking policy makers. The participants discussed the technology needs and financial constraints specific to smaller and rural universities and developed a set of policy guidelines for ensuring that evolving networks will be accessible by and meet the needs of the entire university community.

"It would be a great mistake if in the next generation of networks these [smaller] schools are left out," said Robert Rich, a senior program associate in AAAS's Research Competitiveness Program. The participating universities are located in the 19 states that take part in the U.S. National Science Foundation's Experimental Program to Stimulate Competitive Research (EPSCoR), which aims to cultivate the research capabilities of those states that in the past have received relatively little federal R&D funding.

"This is a good opportunity for us to weigh in on some initiatives that will prove very helpful not only to us in the EPSCoR states but to the nation in general," said George Dennison, president of the University of Montana. The final report from the conference will be presented to members of Congress, policy makers, and education leaders and will be available on the AAAS web site at www.aaas.org/presidents.

EASTERN EUROPE

Workshop Boosts Science Writing

Struggling science writers in Eastern Europe recently got a leg up in the business. Some 40 researchers and professors from the Czech Republic, the Slovak Republic, Poland, and Hungary attended a AAAS workshop on science writing held at the Czech Technical University in Prague on 28–30 September.

The workshop aimed to promote more publishing by Eastern European researchers in internationally recognized journals, which would result in greater recognition for their work. The workshop was sponsored by AAAS, the U.S. National Science Foundation, and the U.S.-Czech Science and Technology Committee.

The sessions, moderated by both writers and editors, addressed such topics as writing for a peer-reviewed journal, ethics in scientific information, and authorship and intellectual property rights. Online publishing and gaining access to online journals were also important themes.

"Presentation is crucial," said Richard Gallagher, Senior Editor, *Science*. He urged participants to submit papers to *Science*, and gave them such tips as tailoring the article to the style of the journal, writing with clarity, and submitting a strong letter with the article.

Another AAAS writing workshop is scheduled for next spring in St. Petersburg. A web page for the workshop can be found at www.wvu.edu/~research/aaasprague.html.

FELLOWS **AAAS Members Elected as Fellows**

In September the AAAS Council elected 283 members as Fellows of AAAS. These individuals will be recognized for their contributions to science at the Fellows Forum to be held on 23 January 1999 during the AAAS Annual Meeting in Anaheim, California. The new Fellows will receive a certificate and a blue and gold rosette pin as a symbol of their distinguished accomplishments. Presented by section affiliation, they are:

Agriculture, Food, and Renewable Resources

Alwynelle S. Ahl, USDA • Donald H. Beermann, Cornell Univ. • Andrew C. Chang, Univ. of California, Riverside • Jan Dvorak, Univ. of California, Davis • Eugene J. Eisen, North Carolina State Univ. • Pan Ming Huang, Univ. of Saskatchewan • Joan K. Lunney, USDA • Mir S. Mulla, Univ. of California, Riverside • Robert C. Shearman, Univ. of Nebraska, Lincoln • Alvin J.M. Smucker, Michigan State Univ. • Mark E. Sorrells, Cornell Univ. • John R. Whitaker, Univ. of California, Davis

Anthropology

David J. Meltzer, Southern Methodist Univ. • Douglas H. Ubelaker, Smithsonian Institution • Mark L. Weiss, Wayne State Univ.

Astronomy

Joseph A. Burns, Cornell Univ. • Donald W. Goldsmith, Interstellar Media, Berkeley • Steven J. Ostro, Jet Propulsion Lab.

Atmospheric and Hydrospheric Sciences

Thomas E. Graedel, Yale Univ. • Michael C. MacCracken, U.S. Global Change Research Program • James Callan Gray Walker, Univ. of Michigan, Ann Arbor • Stephen G. Warren, Univ. of Washington

Biological Sciences

Deborah M. Barnes, Cold Spring Harbor Lab. • Franklin H. Barnwell, Univ. of Minnesota, St. Paul • William H. Benson, Univ. of Mississippi • Rosina M. Bierbaum, Office of Science and Technology Policy • Meredith Blackwell, Louisiana State Univ., Baton Rouge • Andrew R. Blaustein, Oregon State Univ. • Virginia Gottschall Carson, Chapman Univ. • Raymond Chollet, Univ. of Nebraska, Lincoln • Frank H. Collins, Univ. of Notre Dame • Nicholas R. Cozzarelli, Univ. of California, Berkeley • Joel Cracraft, American Museum of Natural History • Diane Ebert-

May, Northern Arizona Univ. • David H. Evans, Univ. of Florida • Robert O. Fox, Univ. of Texas Medical Branch, Galveston • Martin F. Gellert, National Institute of Diabetes and Digestive and Kidney Diseases • H. Carl Gerhardt, Univ. of Missouri, Columbia • Alexander N. Glazer, Univ. of California, Berkeley • Todd T. Gleeson, Univ. of Colorado, Boulder • M. R. C. Greenwood, Univ. of California, Santa Cruz • Wilhelm Gruissem, Univ. of California, Berkeley • Richard G. Harrison, Cornell Univ. • Mark A. Harwell, Univ. of Miami • Claude Helene, Museum National d'Histoire Naturelle, Paris • Motonori Hoshi, Tokyo Institute of Technology, Yokohama • Joel G. Kingsolver, Univ. of Washington • Rachel E. Klevit, Univ. of Washington • John Patrick Kocielek, California Academy of Sciences • Mark A. Krasnow, Stanford Univ. • Joseph R. Lakowicz, Univ. of Maryland, Baltimore • Robert S. Lane, Univ. of California, Berkeley • Richard E. Lee Jr., Miami Univ., Oxford, OH • Elizabeth M. Lord, Univ. of California, Riverside • Philip S. Low, Purdue Univ. • John C. Lucchesi, Emory Univ. • Carol B. Lynch, Univ. of Colorado, Boulder • Michael Lynch, Univ. of Oregon • James A. MacMahon, Utah State Univ. • Paul L. Modrich, Howard Hughes Medical Institute and Duke Medical Ctr. • Richard I. Morimoto, Northwestern Univ. • Andres Moya, Univ. of Valencia • Stephen J. O'Brien, National Cancer Institute • Elizabeth M. O'Hern, Gaithersburg, MD • T. S. Okada, JT Biohistory Research Hall, Osaka, Japan • Linda L. Randall, Washington State Univ. • Ivan Rayment, Univ. of Wisconsin, Madison • David N. Reznick, Univ. of California, Riverside • Jose Sarukhan, National Univ. of Mexico • J. Michael Scott, Univ. of Idaho • G. G. E. Scudder, Univ. of British Columbia • Bruce David Sidell, Univ. of Maine • Jack W. Sites Jr., Brigham Young Univ. • Mitchell Sogin, Marine Biological Lab. • Hans-Dieter Sues, Royal Ontario Museum • Manickam Sugumar, Univ. of Massachusetts, Boston • Jeremy W. Thorner, Univ. of California, Berkeley • Michael James Tyler, Univ. of Adelaide • Charles van Riper III, U.S. Geological Survey, Flagstaff • Loy Elaine Volkman, Univ. of California, Berkeley • Diana H. Wall, Colorado State Univ. • Andrew H.-J. Wang, Univ. of Illinois, Urbana • Carol M. Warner, Northeastern Univ. • Peddrick Weis, UMDNJ-New Jersey Medical School • Martin Wilson, Univ. of California, Davis • Kurt Wuthrich, Swiss Federal Institute of Technology, Zurich

Chemistry

Paul M. Anderson, Univ. of Minnesota, Duluth • Bruce J. Berne, Columbia Univ. • Jean-Luc Brédas, Univ. of Mons-Hainaut, Belgium • Marvin Charton, Pratt Institute • Kuang Yu Chen, Rutgers Univ. • David R. Davies, National Institute of Diabetes and Digestive and Kidney Diseases • S. Walter Eng-

lander, Univ. of Pennsylvania • Nancy Makri, Univ. of Illinois, Urbana • Rowena G. Matthews, Univ. of Michigan, Ann Arbor • James M. Mayer, Univ. of Washington • George W. A. Milne, National Cancer Institute • Donald W. Murphy, Lucent Technologies, Murray Hill, NJ • Vasu Nair, Univ. of Iowa • Eiichi Nakamura, Univ. of Tokyo • Kurt Nassau, Lebanon, NJ • David F. O'Brien, Univ. of Arizona • Thomas V. O'Halloran, Northwestern Univ. • William H. Okamura, Univ. of California, Riverside • William Graham Richards, Oxford Univ. • George C. Schatz, Northwestern Univ. • Nadrian C. Seeman, New York Univ. • James R. Sheats, Hewlett-Packard Labs., Palo Alto • Douglas A. Skoog, Stanford Univ. • Terry Don Tilley, Univ. of California, Berkeley • Nancy S. True, Univ. of California, Davis • Daniel F. Veber, SmithKline Beecham Pharmaceuticals, King of Prussia, PA • Peter E. Wright, Scripps Research Institute • William D. Wulff, Univ. of Chicago • Alejandro Zaffaroni, ALZA Corp., Palo Alto • Daniel M. Ziegler, Univ. of Texas, Austin

Dentistry

Michael L. Barnett, Warner-Lambert Co., Morris Plains, NJ

Education

James D. Ellis, Univ. of Kansas, Lawrence • John R. Jungck, Beloit College • Kenneth Tobin, Univ. of Pennsylvania • Gordon E. Uno, Univ. of Oklahoma, Norman

Engineering

Jan D. Achenbach, Northwestern Univ. • Clark K. Colton, Massachusetts Institute of Technology • Alfred L. Crosbie, Univ. of Missouri, Rolla • Nils J. Diaz, U.S. Nuclear Regulatory Commission, Rockville, MD • Paul Ducheyne, Univ. of Pennsylvania • Robert Goulard, George Washington Univ. • Susan Hackwood, Univ. of California, Riverside • Lee L. Huntsman, Univ. of Washington • Herbert S. Isbin, Minneapolis • R. Noel Longuemare, Ellicott City, MD • Larry V. McIntire, Rice Univ. • Peter H. McMurry, Univ. of Minnesota, Minneapolis • Phillip S. Myers, Univ. of Wisconsin, Madison • Eleftherios T. Papoutsakis, Northwestern Univ. • Michael M. Reischman, Univ. of South Carolina, Columbia • Leon Riebrman, Bryn Mawr, PA • Hans J. Schneider-Muntau, Florida State Univ. • Robert F. Shurtz, San Francisco • James A. Smith, NASA Goddard Space Flight Ctr. • Katepalli R. Sreenivasan, Yale Univ. • Jack Keil Wolf, Univ. of California, San Diego

General Interest in Science and Engineering

Mary Lynne M. Bird, American Geographical Society, New York • Eduardo L. Feller, National Science Foundation • Naomi H. Harley,

New York Univ. • Spencer E. Reames, Benjamin Logan High School, Bellefontaine, OH

Geology and Geography

Paul Colinvault, Woods Hole, MA • A. W. Crompton, Harvard Univ. • Douglas Lamar Inman, Scripps Institution of Oceanography • George H. Keller, Oregon State Univ. • Marcia K. McNutt, Monterey Bay Aquarium Research Institute, Moss Landing, CA • Henry John Moore II, U.S. Geological Survey, Menlo Park, CA • Stephen C. Porter, Univ. of Washington • Edward C. Roy Jr., Trinity Univ.

History and Philosophy of Science

Mary Jo Nye, Oregon State Univ. • Kathryn M. Olesko, Georgetown Univ.

Industrial Science and Technology

Claude Carrington Gravatt Jr., National Institute of Standards and Technology

Information, Computing, and Communication

Robert A. Amsler, Science and Engineering Associates, Inc., Rockville, MD • Gladys A. Cotter, U.S. Geological Survey, Reston, VA • Alan S. Gevins, EEG Systems Lab., San Francisco • David Kristofferson, Eos Biotechnology, Inc., So. San Francisco • Alexa T. McCray, National Library of Medicine

Linguistics and Language Science

Arnold M. Zwicky, Ohio State Univ., Columbus, and Stanford Univ.

Mathematics

Jerry Lloyd Bona, Univ. of Texas, Austin • Keith Devlin, St. Mary's College, Moraga, CA • Deborah Hughes Hallett, Harvard Univ. • James A. Yorke, Univ. of Maryland, College Park

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cisco • Enoch Gordis, National Institute on Alcohol Abuse and Alcoholism • Steven R. Gullans, Harvard Medical School • Zach W. Hall, Univ. of California, San Francisco • Clark Wright Heath Jr., Woodbine, GA • Lewis H. Kuller, Univ. of Pittsburgh • Richard M. Losick, Harvard Univ. • Robert W. Mahley, Univ. of California, San Francisco • Maurice J. Mahoney, Yale Univ. • Stephen E. Malawista, Yale Univ. • Elizabeth R. McAnarney, Univ. of Rochester Medical Ctr. • I. George Miller Jr., Yale Univ. • Jane H. Morse, Columbia Univ. • Donald E. Mosier, Scripps Research Institute • Bernard Moss, National Institute of Allergy and Infectious Diseases • Anil B. Mukherjee, National Institute of Child Health and Human Development • James Fraser Mustard, Founders' Network, Toronto • John Alexander Oates Jr., Vanderbilt Univ. • Ira Pastan, National Cancer Institute • Ching-Hon Pui, St. Jude Children's Research Hospital, Memphis • Lee W. Riley, Univ. of California, Berkeley • Abel L. Robertson Jr., Stanford Univ. • Noel R. Rose, Johns Hopkins Univ. • George H. Rothblat, Allegheny Univ. of the Health Sciences, Philadelphia • Donald A. Rowley, Univ. of Chicago • Janet D. Rowley, Univ. of Chicago • J. Evan Sadler, Washington Univ. • Richard W. Sagebiel, Univ. of California, San Francisco • Gustav Schonfeld, Washington Univ. • Lawrence E. Shulman, National Institutes of Health • Edward L. Snyder, Yale-New Haven Hospital • Burton E. Sobel, Univ. of Vermont • Michael B. Sporn, Dartmouth Medical School • Ralph M. Steinman, Rockefeller Univ. • Richard S. Stephens, Univ. of California, Berkeley • John D. Stobo, Univ. of Texas Medical Branch, Galveston • Judith L. Swain, Stanford Univ. • John Urquhart, Palo Alto • Peter A. Ward, Univ. of Michigan, Ann Arbor • Robin A. Weiss, Institute of Cancer Research, London • John A. Williams, Univ. of Michigan, Ann Arbor • Marlys Witte, Univ. of Arizona • Alfred Yankauer, Univ. of Massachusetts Medical Ctr., Worcester

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Societal Impacts of Science and Engineering

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