



Tropical Medicine Hygiene News

Volume 51 Number 1

February 2002

Society Names Award Recipients

At this year's annual meeting recipients of three different society awards were recognized. The **Donald Mackay Medal** for outstanding work in tropical health, especially relating to improvements in the health of rural or urban workers in the tropics, was awarded to Joseph Cook, MD, who was introduced by Frank Neva. The **Bailey K. Ashford Medal** is awarded for distinguished work in Tropical Medicine. This year's recipients were Barbara Mann, Ph.D. (introduced by Bill Petri), David Sacks, Ph.D., and Philip Scott, PhD, (both introduced by Alan Sher.) A description of these four individuals and their contributions will appear in a subsequent edition of the *News*.

The **Ben Kean Medal** is reserved for an educator whose dedication to clinical tropical medicine and impact on the training of students, fellows and/or practitioners of tropical medicine is in keeping with the tradition established by Dr. Kean. Jamie Maguire, MD, PhD, received the 2001 award. He was introduced by past president Dan Colley, who said "Jamie Maguire is an outstanding model of what the Ben Kean Medal is intended to honor. Based on his teaching and practice of clinical tropical medicine, based on his high standards of scientific and clinical citi-

zenry, and based on his eagerness to share his enthusiasm for these topics with anyone, Dr. James H. Maguire is a superb selection for the 2001 Ben Kean Medal."



Kean Medallist Jamie Maguire, with Stephen Hoffman and Dan Colley

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SOCIETY NOTES

Ben Kean Fellowship Call for Applications.

ASTMH has established the Ben Kean Fellowship to provide travel expenses for medical students, house staff and fellows who arrange clinical or research electives in tropical areas. The deadline for Ben Kean Fellowship applications is May 1, 2002. For application details, visit the ASTMH home page at <http://www.astmh.org> under "Funding and Fellowships."

Young Investigator Awards are based on a competition, usually held at the annual meeting, when the investigators present their work. This year's winners and honorable mention recipients and abstracts were:

Craig, Boutlis, (17) Antibodies to Plasmodium Falciparum Glycosyl-Phosphatidylinositols in Children and Adults from Papua New Guinea Increase with Age and Fall Following Clearance of Parasitemia

Kai-Hsin Chang (644) Sufficient erythropoietin and efficient response to EPO are crucial for recovery

Andrea Crampton (765): The Modulation of a Mosquito TGF-B Homolog, AS60A, in Response to *Plasmodium*: New Insights into Vector/Host Comparative Immunology from malarial anemia

Meghna Desai, (739) Towards Integrated Control of Childhood Anemia in Western Kenya: A Randomised Controlled Trial of Iron Supplementation and Intermittent Antimalarial Treatment

Matthew Dodge, (849) Characterization of LeMDR1-Conferred Drug Resistance in *Leishmania enriettii*

Avelina Espinosa, (87) *Entamoeba histolytica* Requires EHADH2 (*Entamoeba histolytica* Alcohol Dehydrogenase 2) for its Growth and Survival

Heather Ferguson (802): Genetic determinants of *Plasmodium* virulence in vectors

Iveth J Gonzalez (605): Presence of CG2 and PFCRT gene polymorphism in Colombian *Plasmodium falciparum* samples, and correlation with in vitro chloroquine resistance

Lilian Ogonda (628): The Expression of LFA-1, MAC-1, and ICAM-1 Leukocytes from Patients with Uncomplicated and Complicated *Plasmodium falciparum* Malaria

Sheral Patel, (37) Association between ovalocytosis, malaria infection, and the glycophorin C (Gerbich antigen blood group) polymorphism in the Wosera, Papua New Guinea

Jason Rasgon, (775) Mosquito Population Age Structure Dramatically Increases Introduction Thresholds for a *Wolbachia*-Based Transgene Driver

Eduardo Villamor, (561) Vitamin A Supplements Modulate the Effect of Malaria, HIV-1, and Diarrheal Infections on Child Growth

Tropical Medicine & Hygiene News

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Travel Awards were made to thirteen individuals, to support their participation in this year's meeting. Their names appeared in the Scientific Program book as follows:

R. Oguariri, Institute of Tropical Medicine, Tuebingen, Germany

T. Laha, Queensland Institute of Medical Research, Brisbane, Australia

A. Gasasira, Makerere University Medical School, Kampala, Uganda

C. Wondji, OCEAC, Yaounde, Cameroon

B. Singh, University of Malaysia, Sarawak, Malaysia

D. Duh, Institute of Microbiology, Ljubljana, Slovenia

I. Gonzalez-Jimenez, Universidad Federal de Rio de Janeiro, Brazil

S. Keenihan, US Naval Medical Research Unit #2, Jakarta, Indonesia

W. Messer, University of North Carolina, Chapel Hill, North Carolina, USA

W. Zhang, Queensland Institute of Medical Research, Brisbane, Australia

M. Zachariah, University of California, Berkeley, California, USA

K. Chang, Institute of Parasitology, McGill University, Montreal, Canada

L. Franco, Instituto de Investigaciones en Ciencias de la Salud, Asuncion, Paraguay

E. Villamor, Harvard School of Public Health, Boston, Massachusetts

H. Ferguson, University of Edinburgh, Edinburgh, UK

H. Sendagire, Makerere University School of Medicine, Kampala, Uganda

C. Pasay, Research Institute for Tropical Medicine, Philippines

Review Course Syllabus Available. The 2001 Intensive Review Course in Clinical Tropical Medicine and Travelers' Health syllabus is available for \$95.00 (additional \$20.00 charge for overseas shipping). To order a syllabus, download an order form from the Sponsored Meetings page of <http://www.astmh.org>, or send request with payment to ASTMH, 60 Revere Drive, Suite 500, Northbrook, IL 60062 USA.

Pre-Meeting Course Syllabus Available. The syllabus from the 2001 Pre-Meeting Course: Updates in Special Bacterial Pathogens is available for \$95.00 (additional \$20.00 charge for

overseas shipping). To order a syllabus, download an order form from the Sponsored Meetings page of <http://www.astmh.org>, or send request with payment to ASTMH, 60 Revere Drive, Suite 500, Northbrook, IL 60062 USA.

2002 Pre-Meeting Course. Mark your calendar for the 2002 pre-meeting course, to be held November 9-10, 2002 at the Adam's Mark Hotel in Denver, Colorado. The course is entitled Wilderness and Extreme Medicine. Further details regarding speakers and topics will be included in the registration brochure.

CURRENT TRENDS

The Labor, Education and Health and Human Services Appropriation was signed into law by President Bush on January 10th. A summary table of all of the appropriations bills' status can be found at <http://thomas.loc.gov/home/approp/appover.html>. It provides for a healthy increase in overall spending, and details will be available in the next issue of the News. Congress also passed, as part of the Defense Department Appropriation, an "emergency supplemental" bill. The \$20 billion supplemental package addresses defense, homeland security and economic assistance/recovery needs in response to the September 11th attacks. Key provisions of that legislation, which will impact most of the agencies of interest to society members, are listed below.

- The 'supplemental' contains \$2 billion in additional funds for improving federal, state, and local bioterrorism response and preparedness, \$500 million above the Administration's request.
- \$594 million to acquire medicines, supplies, and equipment for the National Pharmaceutical Stockpile to treat an additional \$10 million people.
- \$509 million to acquire 300 million doses of smallpox vaccine.
- \$613 million for improvements in federal, state, and local bioterrorism preparedness. Funds will be used to develop and refine preparedness plans, expand medical, hospital, and public health response capacity, improve training and enhance communication. This includes \$423 million, \$358 million over the

CURRENT TRENDS CONTINUED

Administration's request to assist state and local health agencies address core public health response and capacity needs.

- \$170 million for the Health Resources and Services Administration to assist hospitals and emergency departments to prepare for incidents requiring mass immunization, treatment and casualties, \$120 million more than the President's request.
- \$55 million in emergency recovery funding. Included is \$10 million to provide treatment services to children and adolescents suffering from post-traumatic stress disorder and develop improved screening assessments and service approaches to help children and youth recover from a traumatic event.
- \$50 million, not requested by the Administration, for next-generation vaccine research at the NIH. FDA/Dept. of Agriculture Food Safety and Security: The supplemental includes \$156 million for food safety and security upgrades at the FDA and the Department of Agriculture. The bill provides \$104 million for the FDA to speed the development of bioterrorism tools (drugs, vaccines, and devices), to increase the safety of imported foods, and to improve physical security. The Agriculture Department's Food Safety and Inspection Service receives \$10 million for enhanced security and to finance a bioterrorism initiative in order to expand the agency's capability to detect and respond to potential contaminants of the food supply.
- New York Response and Recovery: The supplemental includes the Administration's \$4.9 billion request to FEMA to fund recovery efforts in response to the terrorist attacks. Funds are to help individual victims, remove debris from the World Trade Center site, and assist with rebuilding critical infrastructure. The bill also includes \$1.5 billion, \$500 million less than the Administration request, for the award of Department of

Labor National Emergency Grants authorized under the Workforce Investment Act.

- Items proposed but that did NOT make the bill include: \$915 million for upgrading state and local health departments and hospitals, \$175 million for expanding CDC support of state and local health departments, \$165 million for accelerating research on biohazards detection and treatment, \$567 million for new bio-safety labs for NIH and Fort Detrick, MD, and \$1,153 for vaccine and drug stockpiles.

MMV to build malaria research capacity in India The Medicines for Malaria Venture (MMV) and the Indian Council of Scientific and Industrial Research (CSIR) signed a Memorandum of Understanding (MOU) through which they agree to participate in the development of new and effective medicines for malaria and to ensure access of the products to disease-endemic countries. The MOU, which is initially for a period of five years, also calls for MMV to make its project management expertise available to monitor and possibly accelerate the process of drug development in India. The Council of Scientific and Industrial Research (CSIR), through its Central Drug Research Institute, has already developed Bulaquine, marketed in India as a product co-packaged with chloroquine under the brand name Aablaquin. The Institute also has other molecules in its pipeline. One particular focus of its research is in herbal formulations which could be extended to the field of malaria. The mission of MMV is to bring public, private and philanthropic partners together to fund and manage the discovery, development and registration of new medicines for the treatment and prevention of malaria in disease-endemic countries. Funding and support for MMV operations are currently being provided by the following: Bill and Melinda Gates Foundation, ExxonMobil Corporation, Global Forum for Health Research, IFPMA, Netherlands Minister for Development Cooperation, Rockefeller Foundation, Swiss Agency for Development Cooperation, UK Department for International Development, The World Bank and WHO (Roll Back Malaria and Tropical Disease Research). For additional information, contact Tony Murdoch, Communications Advisor, Phone +41 22 799 4079, Email murdocha@mmv.org

President Bush Formally Creates Bioethics Advisory Council On November 28, 2001, President Bush issued an executive order officially creating the President's Council on Bioethics. The Council will have the task of studying the scientific and ethical issues pertaining to stem cell research, cloning, assisted reproduction, and genetics research. The executive order states that the Council may evaluate issues such as the protection of participants in research trials, the appropriate uses of biomedical technologies, the moral implications of biomedical technologies and the consequences of limiting scientific research. According to the executive order the Council's duty will be to advise the President on bioethical issues that may emerge as a consequence of advances in biomedical science and technology, to inquire into the human and moral significance of developments in biomedical and behavioral science and technology; and to facilitate a greater understanding of bioethical issues. The Council will not review or approve specific research projects. President Bush first announced his intention to create the council on August 9, 2001 as part of his decision to allow limited federal funding for embryonic stem cell research. The Council will be composed of not more than 18 members appointed by the President from the fields of science, medicine, law, government, philosophy and theology. President Bush selected bioethicist, Dr. Leon Kass of the University of Chicago to chair the council. The term of the council shall not exceed more than two years unless the President extends its charter. The Washington Fax reports that the administration has appointed Dean Clancy as the Council's Executive Director, and that Clancy currently serves as senior policy analyst in the office of House Majority Leader Dick Armey (R-TX).

Global Fund for AIDS, Tuberculosis and Malaria Defined A transitional working group (TWG) is currently meeting to set the purpose, principles and scope of the Global Fund for AIDS, Tuberculosis and Malaria. The fund was created in May 2001 with major donations from the US and UK governments, and now totals over \$1.5 billion from almost thirty contributors. A lively debate has recently started on the NGO 'Break The Silence' website at: <http://archives.hst.org.za/bts/msg00007.html>. In

particular, at <http://archives.healthdev.net/bts/msg00017.html>, you can read about what has been agreed so far as to the title, purpose, principles and scope of the fund, and can join in the debate. A recent message from the WHO Special Program for Research and Training on Tropical Disease (TDR) notes that the role of research appears to have been omitted entirely. According to TDR Director, Carlos Morel, "the debate focuses on making existing tools more accessible to populations in need . . . but the role of research should be more visible in the debate." The WHO website for information about the Global Fund and the TWG is at <http://www.globalfundatm.org/contribute.html>.

NIEHS, Research Organizations Use Genomics To Study Environmental Health

The National Institute of Environmental Health Sciences (NIEHS) has awarded more than \$37 million in grants to five academic research organizations that will join with NIEHS to form a Toxicogenomics Research Consortium. The five-year grants will fund research using recent advances in genomics to study toxicological and environmental health problems. The five grant awardees are: - University of North Carolina, Chapel Hill - Fred Hutchinson Cancer Research Center, Seattle - Oregon Health and Science University - Duke University - Massachusetts Institute of Technology. For additional information contact Tom Hawkins, NIEHS, (919) 541-1402.

CDC Broadcast Program On Smallpox The Centers for Disease Control and Prevention (CDC) hosted a live satellite and web broadcast program, "Smallpox: What every clinician should know," on Dec. 13. A panel of experts from the CDC will present information on virology, epidemiology, clinical features and diagnosis of smallpox, and the characteristics and use of smallpox vaccine. The program was re-broadcast on Dec. 17th. The CDC will provide a free videotape of the program to anyone who was unable to view the live broadcast. For additional information go to <http://www.phf.org/smallpox1HTML.htm>

WHO Expert Urges New Rules on Clinical Research A World Health Organization (WHO) expert warned that the reliability of clinical trials of new drugs was being called into question by

CURRENT TRENDS (CONT'D.)

commercial pressures, including sponsorship by drugs companies. Jonathan Quick, Director of Essential Drugs And Medicines Policy at the United Nations agency, said that new rules were needed to put a “firewall” between the researchers and companies that could benefit from their findings. “The reliability of clinical trials is being undermined by conflicts of interest on the part of researchers, inappropriate involvement of commercial sponsors in running the trials, and bias in publishing the results,” a WHO statement quoted Quick as saying in an editorial in the organization’s monthly Bulletin. Independently funded studies of cancer drugs have been shown to be seven times more likely to reach unfavorable conclusions on drug cost-effectiveness than studies sponsored by the pharmaceutical industry. Quick called for a declaration of the rights and obligations of clinical researchers, similar to the Helsinki Declaration adopted by the World Medical Association in 1964, which covers medical research involving humans. “Such a declaration could bind sponsors and researchers to rules ensuring intellectual independence, prohibiting legal action by sponsors, except in cases of fraud, and protecting whistle-blowers who report unscientific and unethical research practices,” he said.

AAMC Task Force Issues Guidelines On Financial Conflicts Of Interest The AAMC released the first report of its Task Force on Financial Conflicts of Interest in Clinical Research, “Protecting Subjects, Preserving Trust, Promoting Progress: Policy and Guidelines for the Oversight of Individual Financial Interests in Research.” The guidelines propose that institutions adopt high standards for the reporting, review, and disclosure of researchers’ financial interests in federally funded and privately sponsored human subjects research. The report recommends that academic institutions presume that any individual holding a significant financial interest in human subject research may not conduct that research, unless the researcher can demonstrate to a reviewing body that the circumstances are compelling. The report also recognizes that each potential conflict of interest case must be closely examined on its merits and the

reviewers must respect the institutional, individual, and scientific circumstances surrounding it. To achieve this, the task force recommends that academic institutions appoint a standing Conflicts of Interest committee. In the coming year, the task force will work to develop guidelines to monitor institutional financial interests in human subjects research. For additional information visit <http://www.aamc.org/coitf>

NIH Issues New Policy On Graduate Student Compensation The National Institutes of Health (NIH) have issued a new policy on graduate student compensation using funds from NIH research grants and cooperative agreements. Under this new policy, the maximum amount awarded by the NIH for the support of a graduate student supported by a research grant or a cooperative agreement is tied to the zero level National Service Award (NRSA) stipend in effect at the time the grant award is issued. The compensation of graduates must be reasonable; compensation includes salary or wages, fringe benefits, and tuition reimbursement. For additional information visit the NIH website at <http://grants.nih.gov/training/nrsa.htm>

Ebola Haemorrhagic Fever In Gabon – [From Promed] As of Mon 7 Jan 2002, 34 confirmed cases have been reported (15 by laboratory testing, 18 epidemiologically linked), including 25 deaths (18 in Gabon, 7 in the Republic of the Congo). Of these 34 confirmed cases, 21 cases have been detected in Gabon and 13 in villages in the Republic of the Congo, close to the border between the two countries [a detailed map of the region can be accessed at the WHO website]. There are an additional 16 suspected cases in Gabon. Two hundred thirty-one contacts have been identified (197 contacts in Gabon, 34 in the Republic of the Congo). The international team has temporarily relocated to Makokou because of security concerns in the Mekambo area. The team is reviewing the current situation with provincial and national authorities and is planning to return to Mekambo as soon as possible to continue efforts to contain the outbreak with local authorities.

Vaccine Shortages Becoming Commonplace. At press time, there were reported shortages of vaccines, both in the United States and abroad,

which will impact the health of millions of children.

- Pediatricians in the US are having difficulty obtaining the vaccine that protects against tetanus, diphtheria and whooping cough, and are unlikely to see any relief at least until the middle of 2002. This vaccine has been in short supply since mid-2000, when two manufacturers stopped production, leaving only Aventis Pasteur and GlaxoSmithKline as US suppliers. During the shortage the CDC is recommending deferral of the last two of five inoculations listed in the ACIP guidelines.
- Two vaccines slated for supply to endemic countries through the GAVI program are similarly unavailable. In this case the vaccines are multivalent combination vaccines against diphtheria, pertussis, tetanus and Haemophilus influenzae type B (HiB) and another, pentavalent vaccine that also contains hepatitis B vaccine. The Global Alliance for Vaccines and Immunizations (GAVI) had requested and been promised 30 million doses of this product by 2002, but the manufacturer (GSK) has indicated that the figure will be closer to 20 million. The problem seems to be in scaling up production of vaccines. The GAVI newsletter, *Immunization Focus*, provides an analysis of the matter. For additional information see <http://www.vaccinealliance.org>
- In a related report, the National Academies have issued a call for creation of a National Vaccine Authority, which would be responsible for operating a government-sponsored and contractor-run facility to manufacture vaccines. The new authority should focus on “developing, acquiring, and distributing adequate supplies of vaccines, conducting in-house vaccine research, assisting in production of pilot lots of vaccines, and arranging for and contributing to the purchase of vaccines. For more on their call see the NAS website at <http://www.nas.edu>

PEOPLE

Contributed by Mitzi Sereno

Past-President Stephanie L. James leaves NIH to become Deputy Director of The Ellison Medical Foundation. **Dr. Stephanie James recently left her nearly 15-year position at NIAID/NIH to join The Ellison Medical Foundation, Bethesda, MD, as its Deputy Director and director of the Foundation’s Global Infectious Diseases Program. Dr. James served for almost eleven years as Chief of the Parasitology and International Programs Branch, Division of Microbiology and Infectious Diseases, National Institute of Allergy and Infectious Diseases, NIH. During that time, she also acted as Coordinator of the Microbiology Program, and as Deputy Director of the Division. Dr. James earned her Ph.D. from the Department of Microbiology at Vanderbilt University, conducting her dissertation research in the area of immunoparasitology. She continued post-doctoral studies first in the Department of Medicine at Harvard and later in the Laboratory of Parasitic Diseases, NIAID. She then established a laboratory in the Departments of Medicine and Microbiology at the George Washington University Medical Center, where she received research funding from the NIAID, Edna McConnell Clark Foundation, National Science Foundation, and World Health Organization. In 1987, Dr. James returned to the extramural component of NIAID as Parasitology Program Officer, and became a Branch Chief in 1991. She also maintained an affiliation with the NIAID intramural Laboratory of Parasitic Diseases, where she continued research concentrating primarily on protective immunity against schistosomiasis for more than ten years. At NIAID, Dr. James received the NIH Director’s Award in 1993 for leadership in establishing the International Centers for Tropical Disease Research, and again in 1999 for leadership in advancing collaborative malaria research through the Multilateral Initiative on Malaria. She played a role in NIH and trans-governmental activities on emerging infectious diseases, including contributing to the 1995 Ciset report entitled “Infectious Disease-A**

PEOPLE CONTINUED

Global Threat,” the 1996 “NIAID Research Agenda for Emerging Infectious Diseases,” the “Emerging Infectious Diseases and Global Health” section of the 2000 NIAID Strategic Plan, and the 2001 “NIAID Global Health Research Plan for HIV/AIDS, Malaria, and Tuberculosis.” In 1998, she was elected President of the American Society of Tropical Medicine and Hygiene. In 1996, she received the Bailey Ashford Medal from the ASTMH for her distinguished work in tropical medicine.

Past President Dan Colley Retires after 30 Years of Federal Service Daniel G. Colley retired from government service on December 1, 2001, to become Director of the Center for Tropical and Emerging Diseases at the University of Georgia, Athens. Since 1992, Dr. Colley has served as Chief of the Parasitic Diseases Branch, Division of Parasitic Diseases (DPD) at the U.S. Centers for Disease Control and Prevention (CDC). Prior to CDC, he held the position of Professor of Microbiology and Immunology and of Medicine at Vanderbilt University School of Medicine and the Veterans Administration Medical Center in Nashville, Tennessee, USA. Dr. Colley received his undergraduate degree from Centre College of Kentucky in 1964, and his Ph.D. in Microbiology and Immunology from Tulane University in 1968. Following a 2-year after post-doctoral fellowship at Yale University, Dr. Colley began studies on the immunology of schistosomiasis with Brazilian colleagues in Recife, Brazil, after which he returned the U.S. to take a position at Vanderbilt University School of Medicine and the Veterans Administration Medical Center in Nashville, Tennessee. There he established his career in parasitic disease immunology (schistosomiasis and Chagas' disease). In 1992, Dr. Colley became Chief of the Parasitic Diseases Branch, DPD/CDC. In 1993, he was named Director of DPD. In addition to serving as Division Director, Dr. Colley was appointed, in 1996, as a Senior Biomedical Research Scientist within the U.S. Public Health Service. Dr. Colley's awards and honors include the Henry Baldwin Ward Medal (American Society of Parasitologists, 1981) and the Bailey K. Ashford Medal (American Society for Tropical Medicine and

Hygiene, 1989). He served as President of the American Society of Tropical Medicine and Hygiene (1992-93), and on numerous editorial boards, such as the Journal of Immunology, the Journal of Biological Response Modifiers, the Journal of Experimental Zoology, the Journal of Parasitology; the *Memorias do Instituto Oswaldo Cruz* and *Science*. Dr. Colley has also served on national and international advisory committees for the Edna McConnell Clark Foundation, the U.S. Parasitic Diseases Panel of the US/Japan Cooperative Medical Science Program, the Tropical Medicine-Parasitology Study Section of NIH, Chairman of the Gordon Conference on Parasitism, the Steering Committee, Scientific Working Group on Schistosomiasis, WHO/TDR, the Schistosomiasis Research Program of Egypt, the Steering Committee of the Research Strengthening Group, WHO/TDR, the Molecular Parasitology Advisory Committee of the Burroughs Wellcome Fund, and the Tropical Medicine Interest Group of the Wellcome Trust. Dr. Colley has published more than 210 scientific articles and book chapters. He has been a mentor for 16 successful Ph.D. candidates, and an advisor for 27 postdoctoral and sabbatical fellows. He has worked extensively in collaborative studies on the immunology of human parasitic infections in Brazil, the West Indies, Egypt and Kenya.

HHS Secretary Tommy Thompson has named **D.A. Henderson, M.D.**, as director of the newly created Office of Public Health Preparedness. Dr. Henderson is the founding director of the Center for Civilian Biodefense Studies at the Johns Hopkins University Bloomberg School of Public Health. He will work with all agencies within HHS to improve response to present and future bioterrorist attacks. Dr. Henderson will continue to serve Secretary Thompson as chairman of a national advisory panel on public health preparedness.

Harvey V. Fineberg, former provost of Harvard University, will be the next president of the Institute of Medicine. He will begin his six-year term on July 1, 2002. Fineberg was dean of the Harvard School of Public Health for 13 years before serving as the university's provost from 1997 to June 2001.

DEATHS

Margaretha Isaacson Margaretha Isaacson died recently in Johannesburg, South Africa, following a brief illness. Margaretha was emeritus Professor of Medicine at the University of the Witwatersrand in South Africa. She was internationally renowned for her contributions to medical science, including work on Africa's fiercest disease, Ebola.

Africa's viral hemorrhagic fevers were in fact a source of fascination for Margaretha Isaacson, a fact attested to by her very last scientific publication, which dealt with the risk of viral hemorrhagic fever in travelers. WHO drew upon her expertise, enlisting her as a consultant in the field of biological warfare. Margaretha's legacy as a renowned clinician, extensive publisher of scientific research, and an excellent teacher leaves Africa and the world's other continents poorer for her passing.

Lois N. Norman Miss Lois N. Norman, known for her work with parasitoses at the Centers for Disease Control, Atlanta, died on September 10, 2001. Miss Norman was senior or junior author of over one hundred publications during her career. She joined the staff of what was to become the CDC in 1945, after working at the School of Public Health at the University of North Carolina. She retired from the CDC forty years later. Lois Norman was the first technician to be hired for the CDC laboratory at its inception in 1945, giving her a distinguished place in the CDC's history. Her many colleagues at the institution describe Lois as a person of keen judgment and professionalism.

Nyven J. Marchette Dr. Nyven Marchette died suddenly, July 11, 2001 at his home in Fredericksburg, Virginia. Dr. Marchette, 73, was emeritus Professor of Tropical Medicine at the University of Hawaii. He was a graduate of the UC Berkeley, where he also earned an M.S. in invertebrate zoology. In 1960, he completed a Ph.D. on the ecology of tularemia at the

University of Utah, after which he served on the faculty of the university. Dr. Marchette was a post-doctoral fellow at the Hooper Foundation in San Francisco. His international career began at the Institute for Medical Research, Kuala Lumpur, Malaysia, where his research centered on dengue and rickettsial diseases. In 1970, Dr. Marchette joined the faculty of the Department of Tropical Medicine and Medical Microbiology at the John A. Burns School of Medicine, University of Hawaii at Manoa, until 1995, when he retired. He was a very active member of a research team studying dengue pathogenesis and immunology in rhesus monkeys and laboratory specimens collected from regions around the Pacific. In addition, Dr. Marchette was an expert on the etiology of Kawasaki's Disease, which was endemic in Hawaii early in the 1970's. He acted as a WHO consultant on dengue diagnostics.

Saul Jarcho, M.D. Dr. Saul Jarcho died on September 10, 2000.

AWARD NOMINATIONS SOUGHT

Women In Medicine Foundation Is Seeking Award Nominations The Foundation for the History of Women in Medicine is seeking nominations for its third annual Alma Dea Morani, M.D. Renaissance Woman Award. The award honors an outstanding female physician or scientist who has furthered the practice of medicine and made significant contributions outside of medicine (in the humanities, arts, or social sciences). The application deadline is **Feb 15, 2002**. For additional information contact Jo Ann Hiller, 215.569.8940, fhwim@aol.com

Jonathan Mann Award for Global Health and Human Rights - The Jonathan Mann Award for Global Health and Human Rights has been established by Association François-Xavier Bagnoud, Doctors of the World and the Global Health Council and is presented annually to a leading practitioner in health and human rights,

be it an individual or organization. The Award, a US\$20,000 cash prize, is intended to allow its recipients a measure of freedom to pursue their work in this important area. The deadline for submissions is **February 1, 2002**. For information on past winners and for a nomination form, please visit our website at <http://www.globalhealth.org/> or call Terry Fisher, Awards Coordinator, at 802-649-1340, ext. 128. (USA)

ITEMS OF INTEREST

New Journal Announced *Malaria Journal* The first journal entirely devoted to malaria will publish original papers and reviews on every aspect of malaria. Articles published with the *Malaria Journal* (or with any of the other BMC journals) will be made freely available via internet access, peer reviewed in the normal way, cited in PubMed and archived in PubMed Central, and drawn to the attention of other BioMed Central journals, by including it in their tables of contents as "related papers" Once published, authors will be able to see exactly how many people have accessed the article, and will retain the copyright for that paper. The *Malaria Journal* will be accessible at: <http://www.malariajournal.com> Any comments or suggestions may be addressed to: Professor M. Hommel, Editor-in-Chief, *Malaria Journal*, Liverpool School of Tropical Medicine, Pembroke Place, LIVERPOOL L35QA U.K., Tel: +44 151 7089393, Fax: +44 151 7089007, Email: mhommel@liv.ac.uk,

Internships & Careers: The National Academies Internship Program is accepting applications from graduate and postdoctoral students through **Thursday, March 1, 2002** for its summer 2002 session. For additional information visit the website at <http://www4.nationalacademies.org/pd/nrc-ip.nsf>

Applications for the 2002-2003 NIH-Duke Training Program in Clinical Research are available now. Designed primarily for clinical fellows and other health professionals who are training for

careers in clinical research, the program offers formal courses in research design, statistical and decision analysis, research ethics, and research management. Courses for the program are offered at the NIH Clinical Center by means of videoconferencing from Duke or on-site by adjunct faculty. Academic credit earned by participating in this program may be applied toward satisfying the degree requirement for a Master of Health Sciences in Clinical Research, from Duke University School of Medicine. The deadline for receipt of applications is **March 1, 2002**. For additional information see <http://tpcr.mc.duke.edu>

International Master's Programme "Molecular and Cellular Biology" at the Faculty of Biology, University of Heidelberg The Faculty of Biology at the University of Heidelberg is now accepting applications for its three-semester International Master's Programme in Molecular and Cellular Biology (MCB) starting in October 2002. With English as the language of instruction, the programme is aimed at students who hold a first degree in biology, biochemistry, biotechnology, chemistry or medicine (e.g. Bachelor's degree or equivalent to the German "Vor-Diplom" plus 1 year). The teaching programme includes topics in biochemistry, molecular biology and cell biology. Courses will be taught in small groups and offered in a range of formats, including lectures, tutorials, seminars and practicals. Special emphasis will be placed on research-oriented and laboratory courses. For further information and application forms please visit our homepage: <http://www.zmbh.uni-heidelberg.de/mcb>, or contact: MCB Programme Coordinator University of Heidelberg, Im Neuenheimer Feld 282 D-69120 Heidelberg, Germany Fax: +49 6221 546824, email: mcb@zmbh.uni-heidelberg.de Deadline for submission of applications: **28 February 2002**

FUNDING OPPORTUNITIES

Single Receipt Date Solicitations

[Editor's Note : Requests for Application (RFA) and Program Announcements with Reserved Funds (PAR) are typically for a single round of receipt and review of research grant applications, with a single, multiyear award. Program Announcements (PA) are recurring solicitations. Information on all NIH solicitations and initiatives can be found on their website at www.nih.gov/grants and in the NIH Guide for Grants and Contracts.]

Rapid Response Grant Program in

Bioterrorism The National Institute of Allergy and Infectious Diseases invites applications for support of innovative research targeted at the design and development of specific diagnostics, therapies and prevention strategies for Category A biological diseases as defined by the CDC (www.cdc.gov/agent/agentlist.asp), which includes *Bacillus anthracis*, *Clostridium botulinum*, *Yersinia pestis*, pox viruses, *Francisella tularensis* and viral hemorrhagic fevers. Research that builds on recent advances in genomics and proteomics of these organisms is especially encouraged, as are applications from young investigators and those not currently active in the field of bioterrorism research. The mechanism of support is the R21 award, which has a maximum duration of two years and a limit on the direct costs of \$150,000 per year. Letters of intent are due by **January 15, 2002**; applications must be received by **February 15, 2002**. It is anticipated that awards will be made under this program in July 2002. For additional information contact Dr. Barbara Mulach at 301 496 1884 or by email at bmulach@niaid.nih.gov

Partnerships for Development of Novel Therapeutic, Diagnostic and Vector Control Strategies in Infectious Diseases PAR-02-026 The National Institute of Allergy and Infectious Diseases invites applications for support of research in development of drugs and diagnostics for human infectious diseases and products for controlling arthropod vectors that transmit infectious agents. This announcement emphasizes areas that could have a high impact on public health but currently appear not to be high priorities or that may be considered too risky for

industry. Research on agents of bioterrorism concern are also of high priority. Research conducted through this program may fall anywhere along a broad spectrum of activities, from target identification and validation, through pre-clinical development and initial clinical/field evaluations (phase I and II and limited field trials). A key component of the initiative is the development of appropriate partnerships among government, academia and the biotechnology, chemical and pharmaceutical industries. This initiative is meant to stimulate industry participation in these research areas. Approximately \$6 million has been set aside initially. This is a new program of NIAID and inquiries from prospective applicants are encouraged. Letter of Intent Receipt Date: **February 20, 2002**; Application receipt date: **March 20, 2002**. For additional information contact Dr. Ann Ginsberg, phone: 301 496 7630; email ag73i@nih.gov

Partnerships for HIV/AIDS Research in African Populations

RFA-HD-02-003 This program is co-sponsored by the National Institute of Child Health and Human Development (<http://www.nichd.nih.gov>), the National Institute of Mental Health (<http://www.nimh.nih.gov>), the National Center for Complementary and Alternative Medicine, (<http://nccam.nih.gov/>), and the Fogarty International Center (<http://www.nih.gov/fic/>). Applications are invited for resource-related grants in support of behavioral and social science research relevant to the critical and expanding prevention and care needs of women, children, and families affected by HIV/AIDS in Africa. The unprecedented and accelerating HIV/AIDS epidemic in Africa, particularly among women and young people, requires focused, intensified, innovative, multi-disciplinary, and culturally relevant research activity that is responsive to local African needs, challenges, priorities, and realities. A primary goal of this Request for Applications (RFA) is to encourage partnerships between skilled African investigators and U.S. and/or other developed country investigators that will result in the increased capacity and capability of the African scientific community to conduct rigorous HIV/AIDS-related behavioral and social science research. These partnerships are intended to support the strengthening of the research capability and

FUNDING OPPORTUNITIES

capacity of African investigator(s), research team(s), and/or institution(s). African scientists and clinical researchers are encouraged strongly to apply as the Principal Investigators and/or to assume other leadership roles in the proposed studies. Grants may be awarded to Principal Investigators from the United States, other developed countries, or from countries in Africa, particularly those that have been most affected by the HIV epidemic. This RFA encourages projects designed to: (1) develop research infrastructure and strengthen the capacity of African institutions and investigators to conduct relevant HIV/AIDS research; (2) establish and/or enhance linkages among local in-country investigators, public health officials, community institutions, and health care providers, including traditional health practitioners; and (3) support relevant developmental and/or exploratory studies. It is anticipated that such research projects will contribute to the field as well as enhance the ability of African investigators to compete successfully for HIV/AIDS-related funding under other research grant mechanisms. For the purposes of this RFA, infrastructure development and capacity-strengthening refer to the enhancement of resources (including laboratory, field support, training, administration, ethical review and oversight, sample storage and management, instrument design and data collection, data management and analysis, information exchange and dissemination, and other resources) that are needed by investigators to pursue research independently and to compete successfully for research funding. Inquiries concerning this RFA are encouraged. Letter of Intent Receipt Date: **March 19, 2002** Application Receipt Date: **April 16, 2002** The opportunity to clarify any issues or answer questions from potential applicants is welcome. A complete listing of contacts for programmatic, review, and fiscal/administrative inquiries may be found at <http://www.nichd.nih.gov/RFA/HD-02-003/contact.htm>

International Research Scientist Development Award (IRSDA) PAR-02-041 The International Research Scientist Development Award (IRSDA)

is offered by the Fogarty International Center (FIC). This program is for U.S. postdoctoral biomedical and behavioral scientists, in the formative stages of their careers, who seek an opportunity to continue research in, or extend their research experience into, developing countries. It provides the successful candidate with a period of mentored research as part of a strong, established collaboration between a U.S. sponsor and a leading developing country scientist at an internationally recognized research institution. It is expected that, following this experience, the candidate will be able to pursue an international research career, involving ongoing collaboration with developing country scientists, on research to reduce the impact of a major global health challenge. Application Deadline: **February 13**. For additional information see the website at <http://grants.nih.gov/grants/guide/pa-files/PAR-02-041.html> or contact Dr. Kathleen Michels, Division of International Training and Research, Fogarty International Center, Building 31, Room B2C39, 31 Center Drive, MSC 2220, Bethesda, MD 20892-2220. Phone: 301-496-1653; Fax: 301-402-0779; email: IRSDA@nih.gov

Recombinant Anthrax Vaccine Development National Institute of Allergy and Infectious Diseases (<http://www.niaid.nih.gov/default.htm>) In response to anthrax public health threats, The National Institute of Allergy and Infectious Diseases (NIAID), NIH is interested in facilitating and expediting the development of anthrax recombinant protective antigen (rPA) vaccines. NIAID announces that its vaccine production and support contractor, Science Applications International Corporation (SAIC) has been designated to solicit and serve as the main contact point for information about potential (rPA) vaccines from all possible sources. NIAID has determined that, in order to systematically accumulate and prioritize the number of candidate vaccines that appear to be available, SAIC will serve as the single portal through which this information will be received for consideration. The principal contact at SAIC, Dr. Mark Brunswick, may be reached on 301-228-3135 or via e-mail: mark.r.Brunswick@saic.com. Only information gathered by SAIC and submitted by respondents to this notice will be considered. Enquiries made of NIAID directly will be referred to SAIC.

NIAID is aware that some organizations may have concerns about expressions of interest in development of an rPA anthrax vaccine or sharing their proprietary data. SAIC will forward any such concerns to NIAID in confidence for consideration on a case-by-case basis. SAIC will begin a dialogue with respondents and will assist NIAID in defining the technical criteria by which these vaccines will be considered. NIAID strongly encourages any educational institution, business or individual with potential anthrax rPA vaccines to contact SAIC at their earliest convenience to assist in responding to this public health threat. Contact Information: Dr. Mark Brunswick, Telephone: (301) 228-3135, Email: mark.r.Brunswick@saic.com

Recurring Receipt Date Programs

Ellison Foundation Program on Global Infectious Disease – This program supports basic molecular biological research on parasitology and infectious diseases of major global challenge that result from microbial, protozoan, or viral pathogenesis. The foundation particularly wishes to stimulate new creative research that might not be funded by traditional sources or that is often under-funded in the U.S. The Ellison Medical Foundation fosters research by means of grants-in-aid to investigators at universities and laboratories within the United States using a variety of award mechanisms including a New Scholars Program, Senior Scholars Program, Conferences and Workshops Awards Program, a Training Program, and an Infrastructure Awards Program. The Molecular Pathogenesis and Global Infectious Disease Program funds basic research on molecular and cellular mechanisms of parasitology and infectious diseases that result from microbial, protozoan, or viral pathogenesis. Special attention is afforded to tuberculosis, malaria and parasitoses which account for much of the world's morbidity, and are grossly neglected in federally funded research in the U.S. There are two components for the program.

- **New Scholars Program:** The New Scholars Program supports new investigators of outstanding promise in the basic biological and clinical sciences relevant to molecular biological research on parasitology and infectious diseases that result from microbial, protozoan, or viral pathogenesis.

and infectious diseases that result from microbial, protozoan, or viral pathogenesis. The Global Infectious Disease Program provides awards of \$50,000 per year for a four-year period for successful candidates. The Ellison Medical Foundation was established and is supported by Lawrence J. Ellison to support this research.

- **Senior Scholars Program:** Applicants for support for basic research under the Senior Scholar Award are expected to furnish evidence of substantial prior scientific creativity and productivity. Evaluation will be based upon the applicant's scientific contributions to date, the quality of publications, and the importance to global infectious disease of the proposed new research. The Scientific Advisory Board will pay close attention to arguments as to why the work does not or would not qualify for support from established sources such as the NIH. Except for compelling circumstances, the awards are not intended to supplement ongoing, already funded programs but, instead, to inspire new directions, which may entail substantial risk. There is no limit on the number of Senior Scholar letters of intent from any one institution.

For further information, contact: Richard L. Sprott, Ph.D., Executive Director, The Ellison Medical Foundation, 4710 Bethesda Avenue, Suite 204, Bethesda, MD 20814-5226. (301) 657-1830 / 2511 (Phone), (301) 657-1828 (Fax), rsprott@ellison-med-fn.org

Investigator Initiated Small Research Grants

The NIAID Small Grant mechanism, R03, has been redefined and extended to include unsolicited, investigator initiated applications as well as those defined in specific RFAs. The R03 award supports small research projects that can be carried out in a short period of time, with limited resources. The characteristics, requirements, preparation and review criteria for R03s are described in Program Announcement PA-02-038, which appears in the December 17, 2001 edition of the NIH Guide for Grants and Contracts, and on the NIH website at <http://grants.nih.gov/grants/guide/pa-files/PA-02-038.html>

FUNDING OPPORTUNITIES

Exploratory/Developmental Grants: Technology Applications to NIAID-funded Research

The National Institute of Allergy and Infectious Diseases invites exploratory/developmental (R21) grant applications that facilitate the application of innovative/emerging technologies to currently funded research projects related to the study of infectious diseases (bacterial, viral, fungal and parasitic), disease caused by category A agents of bioterrorism, HIV/AIDS, basic immunology and immune-mediated conditions. This mechanism is designed to capitalize on scientific opportunities that would augment the value of a project and that may not have been available at the time of submission of the parent grant. Applications submitted in response to this announcement should be coupled to ongoing NIAID-funded research projects. The mechanism of support is the R21 award, which has a maximum duration of two years and a limit on the direct costs of \$150,000 per year. Contact information for various program officers and grants management and review administrators are listed in the *NIH Guide for Grants and Contracts* under PAS-02-031, which appeared in the December 7, 2001 edition. <http://grants.nih.gov/grants/guide/pa-files/PAS-02-031.html>

Research Scholar Development Award PA NUMBER: PAR-02-018 National Institute of Allergy and Infectious Diseases (<http://www.niaid.nih.gov/default.htm>) The National Institute of Allergy and Infectious Diseases (NIAID) invites applications from outstanding NIAID-supported intramural and extramural postdoctoral fellows for the Research Scholar Development Award (RSDA). The RSDA will provide support for postdoctoral fellows who are moving to assistant professor positions in an academic institution. The purpose of the RSDA is to ease the transition to an academic position by enabling the recipient to focus on the establishment of his/her research laboratory prior to submitting applications for grant support. The candidate must have a health professional doctoral degree or its equivalent, such as Ph.D, M.D., D.O., D.D.S., D.V.M., O.D., D.P.M., Sc.D., D.N.S. and have demonstrated the capacity for highly productive, independent postdoctoral

research in her or his chosen field prior to applying for this award. Applicants must be either (a) postdoctoral fellows in an NIAID intramural laboratory, (b) postdoctoral trainees supported by an NIAID Institutional NRSA training grant (T32) or an NIAID Individual NRSA postdoctoral fellowship (F32), or (c) postdoctoral trainees supported by NIAID Research Supplements for Underrepresented Minorities (RSUMs). Minorities, women, and individuals with disabilities, meeting these requirements, are encouraged to apply. Candidates must be U.S. citizens or noncitizen nationals or must have been lawfully admitted for permanent residence. Individuals on temporary or student visas are not eligible. The NIAID RSDA program will use the NIH Career Transition (K22) award. The project period for this award is two years; awards are not renewable. Applications responding to this Program Announcement will be submitted in two phases: This award will provide up to a total of \$150,000 (direct costs) in the first year, and up to \$100,000 (direct costs) in the second year.

Fellowships & Postdoctoral Opportunities The National Research Council Associateship Programs are accepting applications for awards for postdoctoral and senior research to be conducted in residence at participating U.S. government laboratories. Awards will be offered for independent research in all areas of science and engineering. The postmark deadline for applications is **January 15**. <http://www.national-academies.org/rap>

American Veterinary Medical Association Congressional Fellowship Program. Applications are now being accepted for the 2002-2003 Congressional Science Fellowship. Under this program, Fellows serve for one year in Washington, D.C. as consultants, researchers, and scientific resources on the staffs of Members of Congress or Congressional Committees. Fellowship positions are sponsored by the American Association for the Advancement of Science and by the AVMA. The fellowship begins approximately September 1, 2002. Applicants must be veterinarians, AVMA members and U.S. citizens. A complete application must be received by January 15, 2002 For further information, see <http://www.avma.org/grd/fellowships.asp> or

contact April Demert, Policy & Program Specialist, at the AVMA-GRD at 1-800-321-1473, ext. 624, or by email at ademert@avma.org

JOBS

Norway Operations Manager European Malaria Vaccine Initiative (EMVI) Duties include assisting the EMVI Executive Director in implementing the annual work plan, approved by the EMVI Board. Extensive travelling within Europe and to a lesser extent in Developing Countries, in particular Africa. Areas of Responsibility: Directing EMVI Product Development Teams; organizing, monitoring and supervising EMVI-sponsored clinical malaria, vaccine trials in Europe and when requested also in Africa; preparing documentation to regulatory authorities, Contractors including Manufacturers, and the EMVI Board; representing the EMVI Executive Director and Board at meetings and workshops. Qualifications: MD and/or MPH or a similar academic degree at PhD level in health sciences. Specialization in pharmacology or epidemiology. Minimum ten years experience in vaccine development and/or clinical trials, preferably with experience in vaccine clinical trials in Developing Countries. Solid experience in project/program planning, budgeting and management essential. Duration/ Salary: Contract period 3 years. Attractive salary scale. Commencement Date: As soon as possible. The Operations Manager reports directly to the EMVI Executive Director. EMVI's Administrative Office is located at Centre for International Health, Bergen University. The Secretariat is located in Copenhagen. Applications will be reviewed by the Board of EMVI. Applications should be sent to: Professor Bjarne Bjorvatn, Centre for International Health, Armauer Hansen's Building, Haukeland University Hospital, N-5021 Bergen, Norway. For further information please contact Professor Bjarne Bjorvatn: Tel.: +47 55 97 46 50, mobile: +47 90 87 86 88, fax: +47 55 97 49 79, email: bjarne.bjorvatn@cih.uib.no Deadline for Applications: **18 January 2002.**

United Kingdom Biologist Jealott's Hill, Bracknell, Berkshire - Insect Control We have a vacancy for a graduate biologist to join the Insect

Biotech Traits team and participate in efforts to develop the next generation of transgenic insect resistant crops. Using a range of laboratory, glasshouse and field-based methods, experimental work will evaluate transgenic plants and promising protein leads for future insect control products. Successful applicants will have a good primary degree in a Biological Science. Entomology experience will be an asset but is not essential, as full training will be given. The ability to plan experiments effectively and interpret and record data accurately is a must. The ability to work as part of a team and to learn quickly in an evolving environment will also be key attributes. Ref: LCHAR42

Worldwide Career Opportunities in the U.S. Navy The United States Navy seeks scientists trained in medical microbiology and related fields. Candidates must be eligible to become commissioned officers in the U.S. Navy. We have career opportunities for scientists trained in the following fields: medical microbiology, pathogenesis of infectious diseases, molecular biology, genomics, and epidemiology. We have positions available in state-of-the-art research facilities, both in the USA and overseas, studying malaria, enteric diseases, arboviral diseases, and bio-defense technology. Areas of particular interest include vaccine development and emerging infectious diseases. Requirements: Ph.D. or equivalent, United States citizenship, less than 35 years of age upon commissioning. Compensation: Pay and allowances ranging between \$42,000 and \$52,000, complete medical care and 30 days leave/year. Contact: Send a CV or resume to CAPT Edward Lane MSC USN, Specialty Leader, Navy Microbiology, Bureau of Medicine and Surgery (MED 26), 2300 E Street NW, Washington, DC 20372-5300

California DIRECTOR/STAFF SCIENTIST (01-033) - South San Francisco This position will be responsible for scale up research, which includes improving existing routes and developing new routes for compounds of medicinal interest. This work will feed into our drug discovery operation in both the early phases of lead optimization with, for example the scaled preparation of intermediates, and in the preparation of material for preclinical development. This person will also

JOBS (CONT'D)

be responsible for the preparation by outside companies of the cGMP material for clinical studies. This position requires a Ph.D. and 9 plus years of experience in Medicinal, Process and/or Combinatorial Chemistry. The successful candidate will have a proven track record of completed projects in some or all these areas and demonstrated ability to innovate and to solve problems. A strong understanding of organic synthesis and ability to interpret analytical data is a must. Evidence for a good oral and written communications will be required as well as a publication record that exemplifies the above. Job Code: 01-033

Georgia Director, Division of Parasitic Diseases National Center for Infectious Diseases Closing Date: **February 15, 2002** The National Center for Infectious Diseases (NCID) is seeking exceptional candidates for the position of Director, Division of Parasitic Diseases (DPD), CDC. The mission of DPD is to prevent illness and death caused by many parasitic diseases of public health importance in the United States and throughout the world. The Division relies on the expertise and personal dedication of its over 120 permanent employees and 100 contractors, interns, fellows, guest researchers, and consultants working in four countries in a broad range of scientific, technical, and administrative fields. The Director manages a division budget of over \$28 million. The Division fully integrates modern laboratory and epidemiologic science for the accomplishment of its mission; disease surveillance and epidemiologic field investigations are integrated with microbiologic and molecular biological and immunological laboratory technologies and many special reference diagnostic services. The Division implements research programs domestically and via its field stations in Kenya and Guatemala, along with an extramural program in support of WHO's Roll Back Malaria program. The incumbent conceives and establishes program plans and objectives in parasitic diseases and provides overall direction in their accomplishment; maximizes creativity and productivity of the Division's professional staff in achieving the research and programmatic objectives of the Division and Center; and provides

guidance in program development and identification of scientific and material needs to assure applicability of program methodologies and that programs are functioning at the highest level. As an internationally recognized authority, the incumbent provides expert consultation and leadership in the field of parasitic diseases to research scientists, public health officials, clinicians, and scientific administrators on a national and international level. The incumbent also coordinates Division activities with other government agencies (e.g., U.S. Agency for International Development, Environmental Protection Agency, Department of Defense, Food and Drug Administration), the World Health Organization, the Pan American Health Organizations, universities, foreign ministries of health, professional organizations, and others to facilitate field and laboratory research programs. As an internationally recognized expert, the incumbent identifies and attracts top scientists and medical officers to enhance the competence and creativity of the Division. Applicants must possess an M.D., Ph.D., or other earned doctorate in disease prevention, public health, epidemiology, microbiology, or related health sciences. The applicant must demonstrate: (1) a high degree of public health prominence and expertise, and a distinguished record of accomplishments in the field, such that the individual can readily command the respect of the national and international public health communities and stimulate their interest in the CDC parasitic diseases prevention and control research agenda; (2) the ability to direct and manage a public health research organization including establishing strategic plans and policies, developing and presenting budgets, evaluating program accomplishments, and building and maintaining diverse staff; (3) experience in developing and implementing national, state, or local policies and programs related to parasitic diseases prevention and public health; and (4) experience that indicates the ability to deal effectively with high-level government officials, the scientific and academic communities, national and international medical and health-related organizations, diverse community and non-governmental groups, and the public at large. For more information applicants should feel free to contact Sue Binder, M.D., Chair, DPD Search Committee, at

SBinder@cdc.gov or (770) 488-4696; or Kay Lawton, Deputy Director, DPD, at Klawton@cdc.gov or (770) 488-7116, to discuss the position. To apply, please mail or e-mail CV/ bibliography AND statement addressing the required qualifications to Ms. Connie Clayton (cclayton@cdc.gov), CDC Announcement No. AD10-02-006, Centers for Disease Control and Prevention, Human Resources Management Office, 4770 Buford Highway, MS K07, Atlanta, GA 30341-3724, Phone: (770) 488-1874; Fax: (770) 488-1944.

Indiana Assistant Scientist Indiana University School of Medicine, Division of Infectious Diseases, is recruiting an Assistant Scientist in the field of human papillomaviruses. This is a full-time, nontenure-track faculty position, working closely with an established Investigator in the field of HPV biology, pathogenesis, and immunology. The position includes start-up funds, modern laboratory facilities, salary, and benefits. Outstanding candidates interested in HPV pathogenesis are encouraged to apply. The appointee will be expected to maintain a vigorous research program and obtain independent funding. Successful candidates must have Ph.D. and at least three years of additional training/ experience in HPV research or closely related field. For consideration, send curriculum vitae; letter of research interest; and three letters of recommendation before **January 31, 2002**, to: Darron R. Brown, M.D., Professor of Medicine, Microbiology, and Immunology, Division of Infectious Diseases, Indiana University School of Medicine, 545 Barnhill Drive, EH 435, Indianapolis, IN 46202-5124. *Indiana University is an Affirmative Action/Equal Opportunity Employer; Minorities/Females/Disabled.*

Massachusetts Dean, Sackler School Of Graduate Biomedical Sciences TUFTS UNIVERSITY Tufts University is seeking outstanding candidates for the position of Dean of the Sackler School of Graduate Biomedical Sciences, situated at the Boston Health Sciences Campus of Tufts University. Founded in 1852, Tufts University is recognized as a premier university with a global reputation for academic excellence. Established 21 years ago, the Sackler School has the mission of educating future leaders in biomedical research and teaching, stressing

interdisciplinary approaches that integrate basic and clinical sciences. The Sackler School is comprised of eight programs of graduate education in basic sciences leading to the Ph.D. degree and a Division of Clinical Research, which has both M.S.- and Ph.D.-granting programs. The basic science programs in Biochemistry; Cell, Molecular and Developmental Biology; Cellular and Molecular Physiology; Genetics; Immunology; Molecular Microbiology; Neuroscience; and Pharmacology and Experimental Therapeutics are each designed to provide the strong didactic base and research experience needed for successful careers in biomedical science. The programs in Clinical Research are intended for individuals already trained in the medical sciences. Currently, 200-plus Ph.D. candidates are enrolled in the Sackler School. A participating faculty of 141 are drawn largely from the faculty of Tufts University School of Medicine (TUSM). The Sackler Dean will play a multifaceted role in the Health Sciences Campus. S/he will provide academic and administrative oversight of Sackler training programs and exercise leadership in shaping their future. In particular, Tufts anticipates an expansion in the size of the Sackler School to parallel a major increase in the number of faculty of the School of Medicine. The Dean will be expected to spearhead the growth of the Sackler School by playing a leading role in fund-raising as well as faculty and student recruitment. Further, s/he will serve as the Executive Dean for Research of the School of Medicine in which capacity s/he will have major oversight and administrative responsibilities for research at TUSM. These responsibilities include the fostering of multidepartmental research initiatives, formulating strategic goals for research at TUSM, and facilitating relationships with other research entities within the Boston Health Sciences Campus (Schools of Nutrition and of Dental Medicine) and the University at large (Schools of Arts and Sciences and of Veterinary Medicine). Staff, resources, and salary are commensurate with the responsibilities of the position. Candidates who seek to maintain an active research program are encouraged to apply. **Qualifications:** Tufts seeks to appoint a Dean recognized as an academic leader with a distinguished record of research and educational accomplishment. Thus, the successful candidate will have an earned doctorate, a record of sub-

JOBS (CONT'D)

stantial accomplishment in biomedical research and graduate education congruent with senior academic rank, a background in administration and leadership, demonstrated skills in managing people and resources, and a commitment to enhancing diversity and equal opportunity in graduate education. **Application Procedures:** Review of applications will begin immediately and will continue until the position is filled. Interested parties should send a letter of application addressing the qualifications for the position, curriculum vitae and the names/addresses phone numbers/e-mail addresses of five professional references to: **James E. Schwob, M.D., Ph.D., Chair, Sackler Dean Search Committee, Office of the Dean, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.**

Massachusetts International Health Fellowships
The Harvard School of Public Health The Takemi Program seeks applications for a limited number of fellowships for the 2002-2003 academic year for research and advanced training on critical issues of international health, especially those relating to developing countries. This interdisciplinary program focuses primarily on mobilizing, allocating, and managing scarce resources to improve health, and creating sound strategies for disease control and health promotion. To address these issues, the Program brings together at Harvard a small group of future leaders from around the world and from diverse disciplines. Through its fellowships for highly qualified individuals the Takemi Program seeks to contribute to institutional development and to improvement of national health policy as well as to the advancement of knowledge. The Takemi Program has three major objectives: to create better methods for mobilizing and using health resources in both rich and poor countries; to promote cooperative research and comparative analysis of health policies and programs in different countries, including the promotion of Essential National Health Research; and to contribute to individual and institutional development by bringing together leading health professionals and scholars from many nations for

research and training. If you are interested in applying, please visit our web site listed below for a downloadable application form, requirements, and additional information, or email us at: takemi@hsph.harvard.edu Deadline for September 2002 admission: **1 February 2002** Contact: Program Coordinator, Takemi Program in International Health, Harvard School of Public Health, 665 Huntington Avenue Boston, MA 02115, USA, Email: takemi@hsph.harvard.edu <http://www.hsph.harvard.edu/takemi>

New York Postdoctorate Associate Cornell University Position available immediately to study the blood feeding behavior and insecticide resistance of West Nile virus mosquito vectors in the United States. Research will involve diverse activities including evaluation of mosquito blood feeding preferences, resistance monitoring and investigations of resistance mechanisms. A Ph.D. and background in molecular biology are required. A detailed job description is available at www.entomology.cornell.edu/Faculty_Staff/Harrington.htm. Send curriculum vitae to Dr. Laura C. Harrington, Department of Entomology, Cornell University, Comstock Hall, Ithaca, NY 14853-0901. Cornell is an equal opportunity, affirmative action employer and educator.

Pennsylvania Penn State University. *Assistant, Associate, Full Professor of Entomology* The Pennsylvania State University is seeking candidates for a tenure track faculty position. Successful candidates will conduct research (65%) and serve in extension education. He/she will conduct innovative research on biology and management of vector and/or pest arthropods associated with animals and livestock in confinement and pasture/field situations compatible with IPM and sustainable agricultural goals. Active involvement in mentoring graduate students is expected. Extension education (35%): requires communication with stakeholders, maintenance of an extension education program and provision of expertise to other extension and outreach programs involving animal agriculture and sustainable agriculture including rural/urban interface issues. Applicants must possess an earned doctorate in Entomology or related life science. Research emphasis in support of IPM may include population/community ecology, epidemi-

ology of vector borne diseases affecting animals, vector ecology, microbial-vector interactions, chemical ecology, biological control, or toxicology. The ability to successfully compete for extramural grant support is also required. Submit letter of application, resume, academic transcripts, statement of research and extension interests, and names and addresses of 5 professional references to: Gary Felton, Head, Department of Entomology, Box TM, 501 ASI Building, Penn State University, University Park, PA 16802. Closing date: **January 31, 2002** or until qualified candidate is identified. PENN STATE IS COMMITTED TO AFFIRMATIVE ACTION, EQUAL OPPORTUNITY AND THE DIVERSITY OF ITS WORKFORCE

Tennessee Oak Ridge National Laboratory *Multiple Postdoctoral Research Associate Positions in Microbial, Functional and Community Genomics* The Oak Ridge National Laboratory (ORNL) (website: <http://www.ornl.gov>), Environmental Sciences Division (website: <http://www.esd.gov>), invites qualified persons to apply for five Postdoctoral Fellowship positions at the Laboratory. The successful candidate will engage in research and development in the areas of microbial functional and community genomics, which will include (1) genomewide transposon mutagenesis for the sequenced bacterium *Shewanella oneidensis* MR-1; (2) phage display analysis of protein-protein interactions in MR-1; (3) whole-genome microarray analysis and targeted mutagenesis for *Rhodopseudomonas palustris*, *Deinococcus radiodurans*, and *Nitrosomonas europaea*; and (4) microbial community analysis using microarrays and metagenomics. The individual(s) will work cooperatively with Scientists at ORNL, Michigan State University, Pacific Northwest National Laboratory, the University of Iowa, Baylor College of Medicine, Oregon State University, University of Southern California, Department of Energy Joint Genome Institute, and/or Institute of System Biology. The principal qualification is an earned Ph.D. in molecular biology, microbiology, or biochemistry with demonstrated experience in using molecular techniques. Additional experience is desired in bioinformatics, microarray technology, phage display, BAC library construction, and PFGE. Excellent oral and written communication skills and willingness to work in a

multidisciplinary team are required. The salary will be very competitive. Qualified applicants are invited to send curriculum vitae, a description of research accomplishments and interests, and the names and telephone numbers of three references to: **Dr. Jizhong Zhou, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6038. Telephone: 865-576-7544; FAX: 865-576-8646; e-mail: zhouj@ornl.gov; website: <http://www.esd.ornl.gov/facilities/genomics/>**. This appointment will be offered through the ORNL Postdoctoral Research Associates Program (website: <http://www.orau.gov/orise/edu/postgrad/ornlpdoc.htm>). *The program is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.*

Texas *Postdoctoral Positions* Baylor College of Medicine. Positions are available to study protein-protein and protein-DNA interactions at the whole genome level for the bacterium *Shewanella oneidensis*. The research will require skills in molecular biology and protein chemistry. Previous experience with protein purification and phage display is especially desired. The project is part of a collaboration between Baylor College of Medicine and Oak Ridge National Laboratory (ORNL). The position will be based at Baylor College of Medicine but work will be performed at ORNL as well. Please send curriculum vitae and the names of three references to: Timothy Palzkill, Ph.D., Department of Molecular Virology and Microbiology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. E-mail: timothyp@bcm.tmc.edu. *BCM is an Equal Opportunity/Equal Access/Equal Affirmative Action Employer*

Virginia *Senior Infectious Diseases Advisor* DELIVER, a USAID-funded global technical assistance project aimed at strengthening health and family planning supply chains in developing countries, is recruiting for a Senior Infectious Diseases Advisor (SIDA). He/she will work in team setting to identify/develop best opportunities for DELIVER to contribute to health program logistics; develop/maintain relationships with USAID projects and assistance agencies; represent DELIVER and JSI in technical and policy VI

tion of technical strategies, products and learnings related to DELIVER's work in logistics for health programs. Required Qualifications: Physician with MD or DO degree with specialization in infectious disease control, tropical medicine, public health, epidemiology, or child health; fluency in English; 10 years experience in international health, providing short and long term technical assistance in developing countries; familiarity with WHO Essential Drugs concept; experience working with international assistance agencies. Excellent writing, communication skills; familiarity with word processing, spreadsheet, database, presentation and communications software. Desirable Qualifications: Fluency in French and Spanish; experience working with USAID; training or experience with quantitative and qualitative research methods. Full-time position based in Arlington, VA, with 40% international travel. Position available immediately. Send resume with salary history and cover letter to recruiting@jsi.com or fax: to 703 528-7480, Attn: Chitra Rana. Principals only. No phone calls. M/F/H/V/D.

CALENDAR

Edited by Karl Western

American Society of Microbiology (ASM) Conference on "Candida and Candidiasis" (Tampa, FL: January 13-17, 2001). Contact: ASM Meetings Department, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: conference@asmusa.org; Internet: <http://www.asmusa.org/mtgsrc/>.

International Symposium on "Current Developments in Drug Discovery for Tuberculosis" (Bangalore: January 14-17, 2002). Sponsors: Global Alliance for TB Drug Development, TDR/WHO. Contact: AstraZeneca Research Foundation India (Attn: Symposium Secretariat), 277 Sri T. Chowdaiah Road, Malleswaram, Bangalore 560-003, India. Phone: (91-80)-334-0372; Fax: (91-80)-334-0449; E-mail: cdtb@astrazeneca.com.

American Society of Transplantation (AST) Winter Symposium on "Transplant Meets Infection: Microbes, Rejection, Atherosclerosis, and Malignancy" (Squaw Creek, CA: January 17-20, 2002). Contact: Nicolette F. Zuecca,

Assistant Executive Director, AST National Office, 17000 Commerce Parkway (Suite C), Mt. Laurel, NJ 08504. Phone: 856/439-9986; Fax: 856/439-9982; E-mail: nzuecca@ahint.com; Internet: <http://www.a-s-t.org/navmeetings.htm>.

I The Institute for Genomic Research (TIGR) "Functional Genomics" Meeting (Tampa: January 17-20, 2002). Contact: 1st Annual TIGR Functional Genomics Meeting, Conference Department, The Institute for Genomic Research, 9712 Medical Center Drive, Rockville, MD 20850-3319. Phone: 301/610-5969; Fax: 301/838-3319; E-mail: fg@tigr.org; Internet: <http://www.tigr.org/cet/gss/fg/registration.shtml>.

Multilateral Initiative on Malaria (MIM) Workshop on "Plasmodium vivax" (Bangkok: January 27-31, 2002). Contact: Dr. Andrea Egan, MIM Secretariat Coordinator, Fogarty International Center, National Institutes of Health, Bethesda, MD 20892-2220. Fax: 301/402-2056; E-mail: egana@mail.nih.gov.

Gordon Research Conference (GRC) on "Biology of Spirochetes" (Ventura, CA: January 27-February 1, 2002). Contact: GRC. Internet: <http://www.grc.uri.edu/programs/2002/>.

Keystone Symposium on "Strategies for the Identification and Development of Novel Antimicrobial Agents" (Santa Fe, NM: January 31-February 2, 2002). Organizers: Steven J. Projan, Karen Bush, and Richard J. Whitley. Contact: Keystone Symposia, 221 Summit Place (Unit 272), Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; Internet: <http://www.keystonesymposia.org>.

COST-B9 Expert Meeting on "Lipids, Membranes, and Protozoal Parasites" (Utrecht: February 1-2, 2002). Contact: Prof. Dr. A.G.M. Tielens, Department of Biochemistry and Cell Biology, Faculty of Veterinary Medicine, Utrecht University, PO Box 80176, 3508 TD Utrecht, Netherlands. Phone: (31-30)-253-5380; Fax: (31-30)-253-5492; E-mail: tielens@biochem.vet.uu.nl; Internet: <http://www.costb9.vet.uu.nl/>.

VIII Conference on "Retroviruses and Opportunistic Infections" (Chicago: February 4-8, 2002). Contact: Retrovirus Conference Secretariat, Westover Management Group, 115 South Asaph Street, Alexandria, VA 22314. Phone: 703/535-6862; Fax: 703/535-6899; E-mail: info@retroconference.org; Internet: <http://>

www.retroconference.org/2001/info.htm.

International Conference on "Bioinformatics 2002: North-South Networking" (Bangkok: February 6-8, 2002). Contact: Secretariat, International Conference on North-South Bioinformatics Networking, National Center for Genetic Engineering and Biotechnology (BIOTEC), 539/2 Gypsum Metropolitan Tower (15th Floor), Sri-Ayudha Road, Bangkok 10400, Thailand. Phone: (66-2)-6425322 (ext. 219), Fax: (66-2)-248-8305; Internet: <http://incob.biotech.or.th>.

Canadian AIDS Treatment and Information Exchange (CATIE) Conference on "Natural and Holistic Approaches to the Treatment of HIV/AIDS" (Toronto: February 9-10, 2002). Contact: CATIE, 505-555 Richmond Street West, Box 1104, Toronto, Ontario M5V 3B1, Canada. Fax: 416/203-8284.

II American Society of Microbiology (ASM)-Institute for Genomic Research (TIGR) Conference on "Microbial Genomics" (Las Vegas, NV: February 10-13, 2002). Contact: ASM Meetings Department, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: conferences@asmusa.org; Internet: <http://www.asmusa.org/mtgsrc/conferences.htm>.

V Congress of the West African Society of Parasitology (Dakar: February 13-17, 2002). Contact: Prof. Samba Diallo, PO Box 17617, Dakar, Senegal. Fax: (221)-825-3668; E-mail: parabiol@refer.sn.

American Mosquito Control Association (AMCA) Annual Meeting (Denver: February 17-21, 2002). Contact: AMCA Central Office. Phone: 732/932-0067; E-mail: amca@mosquito.org.

American College of Preventive Medicine (ACPM) "Preventive Medicine 2002" Conference (San Antonio: February 20-24, 2002). Contact: Maureen Crane, ACPM Meeting Manager, 1307 New York Avenue, NW (Suite 200), Washington, DC 20005. Phone: 202/466-2044; Internet: <http://www.preventivemedicine2002.org>.

Keystone Symposium on "Malaria's Challenge: From Infants to Genomics to Vaccines" (Keystone: March 3-8, 2002). Organizers: Stephen L. Hoffman and Carole A. Long. Contact: Keystone Symposia, 221 Summit Place (# 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; E-mail:

info@keystonesymposia.org; Internet: <http://www.keystonesymposia.org>.

Keystone Symposium on "Drugs Against Tropical Protozoan Parasites: Target Selection, Structural Biology and Rational Medicinal Chemistry" (Keystone: March 3-8, 2002). Organizers: Michael H. Gelb and Wim G.J. Hol. Contact: Keystone Symposia, 221 Summit Place (# 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; E-mail: info@keystonesymposia.org; Internet: <http://www.keystonesymposia.org>.

2002 National "STD Prevention" Conference (San Diego: March 4-7, 2002). Contact: Glenda Vaughn. Phone: 404/639-8260; E-mail: ghv1@cdc.gov.

X International Conference on "Infectious Diseases" (Singapore: March 11-14, 2001). Contact: International Society for Infectious Diseases, 181 Longwood Avenue, Boston, MA 02115. Phone: 617/277-0551; Fax: 617/731-1541; E-mail: isidbos@aol.com; Internet: <http://www.isid.org>.

XIV American Foundation for AIDS Research (amfAR) National HIV/AIDS Update Conference on "Prevention, Treatment, and Care: Forging an Integrated Response" (San Francisco: March 19-22, 2002). Contact: Conference Secretariat, Felicissimo & Associates, Inc., 205 Viger Avenue West (Suite 201), Montreal, Quebec H2Z 1G2, Canada. Phone: 514/874-1998; Fax: 514/874-1580; E-mail: nauc@total.net.

American Society of Microbiology (ASM) Conference on "Immunity to Bacterial, Viral, and Protozoal Pathogens" (Savannah: March 20-24, 2001). Contact: ASM Meetings Department, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: conference@asmusa.org; Internet: <http://www.asmusa.org/mtgsrc/>.

International Conference on "Emerging Infectious Diseases" (Atlanta: March 24-27, 2002). Contact: ICEID, c/o American Society of Microbiology, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: conference@asmusa.org; Internet: <http://asmusa.org/mtgsrc/>.

Keystone Symposium on "Microbial-Epithelial-Lymphocyte Interactions in Mucosal Immunity" (Breckenridge, CO: April 5-10, 2002). Organizers: Martin F. Kagnoff and Richard S.

CALENDAR (CONT'D)

Blumberg. Contact: Keystone Symposia, 221 Summit Place (# 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; E-mail: info@keystonesymposia.org; Internet: <http://www.keystonesymposia.org>.

Keystone Symposium on "Recent Advances in the Biology and Pathogenesis of Primate Lentiviruses" (Keystone, CO: April 5-11, 2002). Organizers: Mario Stevenson, Bryan R. Cullen, Beatrice H. Hahn, and Ronald C. Desrosiers. Contact: Keystone Symposia, 221 Summit Place (# 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; E-mail: info@keystonesymposia.org; Internet: <http://www.keystonesymposia.org>.

Keystone Symposium on "HIV-1 Protection and Control by Vaccination" (Keystone, CO: April 5-11, 2002). Organizers: M. Juliana McElrath, Gary J. Nabel, and Daniel R. Littman. Contact: Keystone Symposia, 221 Summit Place (# 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; E-mail: info@keystonesymposia.org; Internet: <http://www.keystonesymposia.org>.

Keystone Symposium on "Gene-Based Vaccines: Mechanisms, Delivery Systems, and Efficacy" (Breckenridge, CO: April 10-15, 2002). Organizers: Margaret A. Liu and Jay Berzofsky. Contact: Keystone Symposia, 221 Summit Place (# 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; E-mail: info@keystonesymposia.org; Internet: <http://www.keystonesymposia.org>.

American Society of Microbiology (ASM) Conference on "Streptococcal Genetics" (Asheville, NC: April 14-17, 2002). Contact: ASM Meetings Department, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: conference@asmusa.org; Internet: <http://www.asmusa.org/mtsgc>.

III World Congress on "Anaerobic Bacteria and Infections" (Milan, Italy: April 21-23, 2002). Contact: International Society for Anaerobic Bacteria, 181 Longwood Avenue, Boston, MA 02115. Internet: <http://www.intl-anaerobe.org>.

XXIII African Health Sciences Congress

(AHSC): Emerging and Reemerging Infectious Diseases in the 21st Century" (Kampala: April 22-26, 2002). Collaborators: Makerere University, African Forum for Health Sciences, and Kenya Medical Research Institute. Contact: Secretary, 23rd AHSC, PO Box 7072, Kampala, Uganda. Phone: (256-41)-530-021; Fax: (256-41)-530-412; E-mail: pic@infocom.co.ug or olobojoseph@hotmail.com; Internet: <http://www.100megsfree.com/makere>.

XII European Conference of "Clinical Microbiology and Infectious Diseases" (Milan: April 24-27, 2002). Contact: 12th ECCMID 2002, c/o AKM Congress Service, PO Box CH-4005, Basel, Switzerland. Phone: (41-61)-686-7711; Fax: (41-61)-686-7788; E-mail: info@akm.ch; Internet: <http://www.akm.ch/eccmid2002>.

American Society of Microbiology (ASM) III ISPPD International Symposium on "Pneumococci and Pneumococcal Diseases" (Anchorage: May 5-9, 2002). Hosted by CDC Arctic Investigations Program, Johns Hopkins University Center for American Indian and Alaska Native Health. Contact: ISPPD, c/o ASM, 1752 N Street, NW, Washington, DC 20036-2904. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: meetingsinfo@asmusa.org; Internet: <http://www.asmusa.org>.

V National Foundation for Infectious Diseases (NFID) Annual Conference on "Vaccine Research (ACVR)" (Baltimore: May 6-8, 2002). Contact: ACVR, NFID, 4733 Bethesda Avenue (Suite 750), Bethesda, MD 20814. Phone: 301/656-0003 (Ext 19); Fax: 301/907-0878; E-mail: info@nfid.org; Internet: <http://www.nfid.org/conferences/vaccine02>.

International Conference on "Microbicides" (Antwerp: May 12-15, 2002). Contact: Yvette Jacob, Institute of Tropical Medicine, Nationalestraat 155, B-2000 Antwerp, Belgium. Phone: (32-3)-247-6539; Fax: (32-3)-247-6532; E-mail: yjacob@itg.be; Internet: <http://www.itg.be/micro2002>.

CII American Society of Microbiology (ASM) General Meeting (Salt Lake City: May 19-23, 2002). Contact: ASM Meetings Department, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: meetingsinfo@asmusa.org; Internet: <http://www.asmusa.org>.

World Congress on "Environmental Health"

(San Diego: May 20-24, 2002. Internet: <http://www.ifeh2002.org>).

IXXX Global Health Council (GHC) Annual Conference on "Global Health in Times of Crisis" (Washington, DC: May 28-31, 2002). Contact: Sadhana Warty Hall, MPH, CHES, Director of Conference, Membership and Special Events, GHC, 20 Palmer Court, White River Junction, VT 05001. Phone: 802/649-1340; Fax: 802/649-1396; E-mail: hall@globalhealth.org; Internet: <http://www.globalhealth.org>.

Biology of Disease Vectors Fort Collins, Colorado, USA, 15-29 June 2002 Contact: Dr. Nancy DuTeau, Department of Microbiology Colorado State University, Fort Collins, CO 80523-1677, Tel: +1 970 491-8505, Fax: +1 970 491-1815, Email: nancy.duteau@colostate.edu, Registration and information: <http://sci-site.com/bdv>

Gordon Research Conference on "Biology of Host-Parasite Interactions" (Newport, RI: June 16-21, 2002). Contact: Norma Andrews, Internet: <http://www.grc.uri.edu>.

XIV International "AIDS" Conference (Barcelona: July 7-12, 2002). Contact: Conference Program Secretariat, Edifici Apollo X, Balmes 200, 908006 Barcelona, Spain. Phone: (34-932)-182-404; Fax: (34-932)-170-188; E-mail: aids2002@aids2002.com; Internet: <http://www.aids2002.com>. The Scholarship Application Form for the XIV International "AIDS" Conference is available at: <http://www.aids2002.com/vismail/openvismail.asp?id=scholarship/>. Click on the link and follow instructions.

IV Conference on "Urban Pests" (Charleston, SC: July 7-10, 2002). Contact: Richard Cooper, Cooper Pest Control, Incl. 351 Lawrence Station Road, Lawrenceville, NJ 08648-2695. Fax: 609/799-3859; E-mail: rcooper@cooperpest.com; Internet: <http://entweb.clemson.edu/rban/icup2002.htm>.

VI Conference on "Molecular Epidemiology and Evolutionary Genetics in Infectious Diseases" (Paris: July 24-27, 2002). Co-sponsors: CDC, Pasteur Institute, CNRS. Contact: Dr. Michel Tibayrenc. E-mail: michel.tibayrenc@mpl.ird.fr; Internet: <http://cepm.mpl.ird.fr>.

"World of Microbes: 2002" Conference; X International Congress of "Bacteriology and Applied Microbiology", X International Congress

of "Mycology", and XII International Congress of "Virology" (Paris: July 27-August 1, 2002). Contact: IUMS 2002, Administrative Secretariat, ICA (Group JCD Conseil), 4 Villa d'Orleans, 75014 Paris, France. Phone: (33-1)-4064-2000; Fax: (33-1)-4064-2050; E-mail: iums@jcdconseil.com; Internet: <http://www.iums.org/congresses.htm>.

IV International Symposium on "Phlebotomine Sandflies (ISOPS4) (Salvador, Bahia, Brazil: August 4-7, 2002). Contact: Dr. R. Killick-Kendrick, 2, Place du Temple, 30440 Sumene, France. Phone/Fax: (33-4)-6781-3006; E-mail: killickkendrick@wanado.fr.

XVI International "Leprosy" Congress (Salvador, Brazil: August 4-9, 2002). Contact: Instituto Lauro de Souza Lima, Rodovia Comandante Joao Ribeiro, Km. 225/226, Caixa Postal 3021, CEP 17001-970, Bauru, Sao Paulo, Brazil. Fax: (55-14)-221-5914; E-mail: brazil_leprosy@ilsl.br.

X International Congress of "Parasitology" (Vancouver, BC: August 4-10, 2002). Contact: ICOPAX Conference Secretariat, Venue West Conference Services, Ltd., 375 Water Street (# 645), Vancouver, BC V6B 5C6, Canada. Phone: 604/681-5226; Fax: 604/681-2503; E-mail: congress@venuewest.com; Internet: <http://www.venuewest.com>.

XVI International Epidemiological Association (IEA) World Congress of "Epidemiology" (Montreal: August 18-22, 2002). Contact: Congress Secretariat, c/o Events International, Meeting Planners, Inc., 759 Victoria Square (Suite 300), Montreal, Quebec, H2Y 2J7, Canada. Phone: 514/286-0855; Fax: 514/286-6066; E-mail: info@eventsintl.com; Internet: <http://www.iea2002.com>.

III European Congress on "Tropical Medicine and International Health: A Global Health" (Lisbon, Portugal: September 8-12, 2002). Organizers: Federation of European Societies for Tropical Medicine and Health and Institute of Tropical Medicine, Lisbon. Contact: K.I.T. GmbH, Konrad-Adenauer-Platz 1, D-10709, Germany. Phone: (49-30)-2460-3301; Fax: (49-30)-2460-3310; E-mail: tropical2002@kit.de; Internet: <http://www.kit.de/tropical2002/>.

V International Conference of the Hospital Infection Society (Edinburgh, Scotland: September 15-18, 2002). Contact: Conference Secretariat, Concorde Services/HIS 2002, 50

Spiers Wharf (Unit 4B), Port Dundas, Glasgow G4 9TB, UK. Phone: (44-141)-331-0123; Fax: (44-141)-331-0234; E-mail: his@concorde-uk.com.

XLII Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) (San Diego: September 27-30, 2002). Contact: Meetings Department, American Society for Microbiology, 1752 N Street, NW, Washington, DC 20036-2904. Phone: 202/942-9248; Fax: 202/942-9340; E-mail: info@asmusa.org; Internet: <http://www.asmusa.org>.

XXXI Parasitological Society of Southern Africa (PARSA) Annual Conference (Golden Gate Highlands National Park: October 7-11, 2002). Contact: Prof. Peter A. Mbatia, PARSA 2002, Parasitology Research Program, Qwa-Qwa Campus, University of the North, Private Bag X13, Phuthaditjhaba, 9866 South Africa. Phone: (27-58)-713-0211; Fax: (27-58)-713-0226; E-mail: parsa2002@uniquwa.za.

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VIII Conference of the International Society of Travel Medicine (CISTM) (New York City: May 7-11, 2003). Contact: CISTM8 Secretariat, Talley Management Group, Inc., 19 Mantua Road, Mt. Royal, NH 08601. Phone: 856/423-7222 (ext. 218); Fax: 856/423-3420; Internet: <http://www.istm.org>.

Save those dates for the annual meetings

51st Meeting: November 10-14, 2002, Denver, Colorado, USA

52nd Meeting December 3-7, 2003, Philadelphia, Pennsylvania, USA



American Society of Tropical Medicine and Hygiene
60 Revere Dr., Suite 500
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