



Tropical Medicine Hygiene News

Society Award Nominations, Applications Due

Applications Sought: Benjamin H. Kean Traveling Fellowship In Tropical Medicine Dr. Benjamin H. Kean was a renowned teacher, researcher and practitioner of tropical medicine whose mentorship and support helped many medical students and physicians-in-training begin and sustain careers in tropical medicine and international health. He believed that early hands-on experience in the tropics was the best way to stimulate such careers, and he was instrumental in helping many medical students obtain these experiences. The American Society of Tropical Medicine and Hygiene has established a fellowship in Dr. Kean's name, administered by the American Committee on Clinical Tropical Medicine and Traveler's Health (ACCTMTH), that will provide travel expenses for medical students who arrange clinical or research electives in tropical areas. Round trip airfare (best-price ticketing) and up to \$700 toward living expenses will be provided. Kean Fellows will be required to prepare and present reports describing their activities. Previous fellows worked in Guatemala, Uganda, Laos, Peru, Benin, Brazil, Bolivia, Botswana, Cameroon, Gabon, Uganda, Indonesia, Nepal, Kenya, India, South Africa, Malawi, Thailand and Haiti. North American full time students in accredited schools of medicine, who express an interest in tropical medicine or international health, may apply. Applicants must arrange their own elective with the approval of a supervising faculty mentor at their institution. An overseas mentor must be identified, and a research plan or plan of clinical study presented. Preference will be given to applicants sponsored by a member of the ACCTMTH. Please note that as of 2003 eligibility is

limited to medical students; post-graduate trainees are no longer eligible. **Deadline for submission: May 1, 2003** To apply, send the following to the address at the end of this announcement: *curriculum vitae*, cover letter of no more than 2 pages, and three letters of recommendation in sealed envelopes with the recommender's signature across the seal, along with a proposal of no more than 3 pages, describing the overseas site, specific objectives of elective, for research projects, rationale and significance, methods and anticipated problems and for clinical projects, description of clinical activities and responsibilities; anticipated costs for travel, including best-price round-trip airfare and living expenses. Please type your name, home institution and proposed destination on the top of each page of your application. Submit to: B.H. Kean Fellowship, Christopher Plowe, M.D., M.P.H., c/o Christina Kemp, University of Maryland School of Medicine, 685 West Baltimore Street, HSF 480, Baltimore, Maryland 21201, Tel. 410-706-2491/5328, Fax. 410-706-1204/6205, Email ckemp@medicine.umaryland.edu

Honorary Member Nominations Sought ASTMH is seeking nominations for honorary members for 2003. An honorary member nominee should be an individual, not an American citizen, who has made eminent contributions to some phase of tropical medicine or hygiene. Nominations should include a letter of support for the nominee and the nominee's CV. Please send nominations to ASTMH headquarters by Friday, **April 18, 2003**. Send, fax or email the nomination to: ASTMH Headquarters, 60 Revere Drive, Suite 500,

INSIDE

Society News	25	Obituaries	30
Current Trends	27	Funding Opportunities	32
People	29	Job Mart	37
Items of Interest	30	Calendar	39

Northbrook, IL 60062, phone 847/480-9592, fax 847/480-9282, email astmh@astmh.org.

Call for Symposium Organizers for the Philadelphia Meeting Individuals wishing to organize symposia for the ASTMH meeting in Philadelphia, Pennsylvania are urged to submit a proposal to the Program Chair. Plans for symposia should be discussed with the Program Chair as early in the year as possible. Interdisciplinary symposia are especially encouraged. Symposia will be two hours long with a maximum of four speakers. To submit a proposal, download the "Symposium Proposal Form" from the ASTMH web page at www.astmh.org/meetings.html. The deadline for completion of the symposium programs is **April 1, 2003**. For additional information contact Edward T. Ryan, MD, DTMH, Tropical and Geographic Medicine Center, Division of Infectious Diseases, Massachusetts General Hospital, Jackson 504, 55 Fruit Street, Boston, MA 02114, Phone: 617 726 6175, Fax: 617 726 7416, Email: etryan@partners.org.

2003 Pre-Meeting Course. ASTMH will hold a pre-meeting course, "Current Topics in Clinical Tropical Medicine and Travelers' Health," prior to the 52nd Annual Meeting in Philadelphia, Pennsylvania. This 1.5 day course will focus on current topics and new developments in clinical tropical medicine and travelers' health. Join us for an in-depth review and update of management dilemmas and new or emerging issues.

Topics will be selected in part by the ability of experts in the field to synthesize available information into practicable and clinician friendly recommendations that can be used in the day to day practice of medicine. The course program will be mailed with the annual meeting brochure this summer. To receive more information, contact astmh@astmh.org, phone 847/480-9592 or fax 847/480-9282.

Intensive Update Course in Clinical Tropical Medicine and Travelers' Health Tentatively Scheduled for October 7-8, 2003 San Diego, California USA The American Society of Tropical Medicine and Hygiene (ASTMH), in conjunction with the American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH), is offering an Intensive Update Course in Clinical Tropical Medicine and Travelers' Health, tentatively scheduled for October 7-8, 2003, immediately preceding the 41st Annual IDSA Meeting in San Diego, California. This two-day meeting is designed for physicians and for all other health care providers working in tropical medicine or travelers' health. Speakers are internationally recognized authorities in the field. The course is aimed at physicians and all other health care providers working in tropical medicine or travelers' health. After participating in this educational activity, the attendee should be better able to prepare patients for overseas travel to developing countries, diagnose and treat individuals who have become ill during overseas travel or residence, and diagnose and treat individuals

Tropical Medicine & Hygiene News

Official Bulletin of the American Society of Tropical Medicine and Hygiene

Editor

Kathryn S. Aultman, PhD

Editorial Board

Karl A. Western, MD, DTPH

Mitzi Sereno

ASTMH Officers 2002

William A. Petri, Jr. MD, Ph.D., President

Peter F. Weller, MD, President-Elect

Michele Barry, MD, Past President

George Hillyer, MD, Secretary Treasurer

Edward T. Ryan, MD, DTMH, Scientific Program Chair

James Kazura, PhD, Editor, The American Journal of Tropical Medicine and Hygiene

Kathryn S. Aultman, PhD, Editor, Tropical Medicine and Hygiene News

Councillors

Peter Hotez, MD, PhD - 2003

Christopher Plowe, MD, MPH - 2003

Larry Laughlin, MD - 2004

Jamie Maguire, MD - 2004

Anthony A. James, Ph.D. - 2005

Mark Wilson, Ph.D. - 2005

Alan Magill, Ph.D. - 2006

Claire Panosian, MD - 2006



Secretariat Staff

Executive Director: Joyce Paschall

Administrative Director: Judy DeAcetis

© 2003 by the American Society of Tropical Medicine and Hygiene. Tropical Medicine and Hygiene News is published bi-monthly by the American Society of Tropical Medicine and Hygiene, 60 Revere Dr., Suite 500, Northbrook, IL 60062, Tel: 847/480-9592, Fax: 847/480-9282, E-mail: astmh@astmh.org. (ISSN# 0041-3275).

All submissions for publication in Tropical Medicine and Hygiene News should be sent to the Editor at 4818 Ponderosa Dr., Annandale, VA 22003 USA, Fax: 301/402-0659, tmh-editor@ix.netcom.com.

Statements or opinions expressed in the Tropical Medicine and Hygiene News are those of the author(s) and do not necessarily reflect the official position of the American Society of Tropical Medicine and Hygiene (ASTMH), the Editor or the organizations with which the authors are affiliated. The Editor and ASTMH disclaim any responsibility or liability for such material and do not guarantee, warrant or endorse any product or service mentioned; nor do they guarantee any claim made by the manufacturer or provider of such product or service. Official ASTMH positions are established only by its Council.

living in the tropics and sub-tropics who are ill. Visit the ASTMH web site at www.astmh.org in Summer 2003 for registration form and information on the 2003 Intensive Update Course in Clinical Tropical Medicine and Travelers' Health.

2002 Syllabi Available The syllabus for the 2002 Review Course and 2002 Pre-Meeting Course: Updates in Wilderness and Extreme Medicine are available for \$95.00 each. To obtain a syllabus, send order and payment to ASTMH, 60 Revere Drive, Suite 500, Northbrook, IL 60062 or fax to 847/480-9282.

Call for Papers The call for papers will be mailed shortly. Abstracts can be submitted online at <http://abstract.cornetser.com> beginning April 1, 2003. The abstract submission page will also be available through the ASTMH website www.astmh.org beginning April 1, 2003. The deadline for online submissions is June 1, 2003.

ASTMH and ISTM Certification Credentials Distinguished Both ASTMH and ISTM offer certificates that are potentially confusing. The Society has provided this text to clarify the matter. The two certificates are targeted towards two different groups of practitioners with different scopes of practice. In addition, the degree of training and experience required to sit for the examinations differ significantly. The International Society of Travel Medicine (ISTM) "Certificate in Travel Health (CTH)" will recognize knowledge in the field of travel medicine. Knowledge associated with pre-travel care and consultation and including post-travel triage of ill patients and post-travel screening will be tested. However, an understanding of specific tropical diseases or their diagnosis/management is not required. The CTH has no pre-requisite standards in terms of training or experience and there are no accredited training courses. Exam content is designed in a generic format for international candidates so includes no testing or verification of knowledge of US or country-specific guidelines or standards for pre-travel care. The CTH will be given on an inaugural basis in May 2003. Plans for repetition on an ongoing basis have not been announced. The ASTMH Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health examination has been administered annually since 1996. The examination encompasses the content of the ISTM "CTH" examination in terms of pre-travel care, but also includes diagnosis and care of ill patients in the tropics and among travelers with disease acquired during travel or in the tropics. Knowledge of US standards and therapeutic guidelines for both pre- and post-travel care is necessary. The ASTMH Certificate is recognized internationally as a credential for those wanting to work overseas in the tropics or in travel/tropical medicine

units domestically. There are defined training standards and experience requirements. In order to be accepted to sit for the ASTMH examination, an individual must have completed one of 12 training courses in the United States (7), the United Kingdom (2), Germany (2), or Thailand (1), which have sought and been granted accreditation to provide the pre-requisite training that meets the ASTMH standards. A minimum of two months clinical experience in the tropics is required for certification.

Society Awards

The **Pfizer Centennial Travel Award in Basic Parasitology** was awarded for the first time in 2002. This year's winner was Myaing Myaint Nyunt, with Johns Hopkins Bayview Medical Center. The title of her paper is "Plasmodium genotype diversity, drug resistant genotypes and parasite burden during pregnancy at the Macha Mission Hospital, Choma, Zambia."

The **Burroughs-Wellcome Fund ASTMH Post Doctoral Fellowship in Tropical Infectious Diseases** was awarded to three individuals: Krystn R. Wagner, MD, PhD (2001), Aric Gregson, MD (2002) and Regina LaRocque, MD (2002).

CURRENT TRENDS

Organizational News

AAMC Seeks Nominations for Nickens Awards The AAMC is soliciting nominations for the Herbert W. Nickens, M.D., Award (\$10,000), Herbert W. Nickens, M.D., Minority Faculty Fellowship (\$15,000), and Herbert W. Nickens, M.D., Minority Medical Student Scholarships (\$5,000 each for five recipients). These awards are presented to individuals who advance the educational, societal, and health-care needs of minorities. Nominations must be received by **May 9, 2003**.

Global Initiative To Fast-Track Rotavirus Vaccine The Global Alliance for Vaccines and Immunization (GAVI) and The Vaccine Fund announced the selection of U.S.-based nongovernmental organization Program for Appropriate Technology in Health (PATH) to lead a new, three-year US\$30 million project to accelerate the development of a safe and effective rotavirus vaccine for the developing world. The team at PATH will include public health experts and partners from the World Health Organization, the Centers for Disease Control and Prevention, and PATH's own Children's Vaccine Program. The goal of the project will be to ensure that rotavirus vaccine is available to children in developing

countries at the same time as those living in the developed world—a process that could save up to 1.5 million lives. To lead the project, PATH has hired John Wecker, Ph.D., an expert in designing and executing clinical development programs for new therapeutic drug candidates in developing countries. Since 1988, Dr. Wecker has worked at Boehringer Ingelheim, German-based pharmaceutical company. Most recently, Dr. Wecker designed and implemented Boehringer Ingelheim's HIV-related initiatives in the developing world. Currently at least four rotavirus candidate vaccines are at or near the clinical trials stage. By working concurrently with vaccine manufacturers and developing country governments, the PATH rotavirus project aims to accelerate the vaccine's availability to children who need it most. Each year rotavirus claims about half a million lives—85 percent from the poorest developing countries. PATH and its partners will also set up surveillance networks to monitor the disease before and after the vaccine is introduced and work to educate the medical community and other policy makers in countries about the public health benefit of introducing the vaccine. Ultimately, the project depends upon all GAVI partners' ability to successfully build stronger immunization programs that can finance and successfully introduce new vaccines. The project represents one of two priority vaccine-development initiatives (one for rotavirus vaccine and one for pneumococcal vaccine) launched by the GAVI Board.

Disease Trends

Exotic Newcastle Disease Confirmed in the United States Exotic Newcastle disease (END) was confirmed on 1 Oct 2002 in the State of California, and has now spread beyond backyard flocks to affect 17 commercial operations in California, Nevada and Arizona. Clinical signs in infected birds include respiratory, nervous, and gastrointestinal signs. Mortality is up to 90 percent of exposed birds. Investigations are on-going and all figures are pending final validation. Veterinary Services is exploring all options to send Animal and Plant Health Inspection Service (APHIS) personnel, other federal government personnel, and is working with the States to consider additional resources to meet the labor demands. APHIS has developed a plan for national END surveillance. This plan will enhance the already extensive surveillance underway. Effective 7 Jan 2003, APHIS imposed a federal quarantine that regulates the interstate movement of all species of birds and poultry products from the affected counties in California. The U.S. Department of Agriculture (USDA) has declared an extraordinary emergency for the States of Arizona, California, and Nevada. These declarations allow USDA to apply federal authority within Arizona, California and Nevada. A representative from the Department serves

as an Agency Representative to Area Command. The Central Valley Incident Command Post in Modesto, CA, is staffed and working cooperatively with county officials to implement efficient surveillance measures throughout the Central Valley.

Ebola Hemorrhagic Fever As of early March the latest Ebola outbreak in the Republic of Congo has reached 108 cases, with the death toll rising to 88, according to the country's ministry of health. The outbreak is in the country's Cuvette-Ouest province, near the border with Gabon, and was first detected on 4 January. The World Health Organization, Médecins Sans Frontières and local government agencies are working to quell the highly contagious disease. Although thought to be transmitted to humans via the eating of infected gorilla meat, the identity of the reservoir of the disease from which the gorillas contracted the virus is not known. The corpses of gorillas killed by the virus had been found in the area several weeks before the human outbreak. More than 200 of the 800 gorillas at Lossi wildlife sanctuary near Kelle have died, and Congolese authorities have also closed Odzala National Park, a popular tourist attraction, for fear that Ebola may have reached its gorillas. In 1996, a similar epidemic caused the death of hundreds of people in the Democratic Republic of Congo (DRC).

Legislative News

(From the Society's lobbyists, Capital Associates) The omnibus appropriations bill (HJ Res 2), which provides funding for most federal agencies through the end of September 2003, passed both houses of Congress on February 13th and was signed into law shortly thereafter. The massive bill appropriates \$387.4 billion for nondefense programs for FY03, plus another \$10 billion for intelligence and defense operations. In addition, an across-the-board cut of between 0.6% and 0.7% would fund an additional \$3 billion in education spending. Only four programs would be exempt from the cut: the space shuttle investigation; Head Start; Womens, Infants, and Children (WIC); and veterans' medical payments.

USAID HJ Res 2 provides a total of \$1.837 billion for Child Survival and Health Programs through the U.S. Agency for International Development (USAID). This includes \$351 million for child survival, maternal health, and vulnerable children programs; \$591.5 million for HIV/AIDS; \$155.5 million for other infectious diseases, and \$250 million for the Global Fund to Fight AIDS, Tuberculosis, and Malaria. These funds are in addition to \$100 million that would be contributed to the Global Fund by the National Institutes of Health. The conference committee estimates a total of \$115 million in USAID

funds would be devoted to malaria, including \$65 million from the infectious diseases account, \$42.5 million through the Global Fund, and \$7.5 million through other assistance programs. The committee also recommends that USAID support the Medicines for Malaria Venture and the Malaria Vaccine Initiative but does not earmark specific funds for these programs. The committee also estimates a total of \$120 million in USAID funds would be devoted to tuberculosis, including \$65 million from the infectious diseases account, \$40 million through the Global Fund, and \$15 million from other assistance programs. Other allocations in the bill include \$10.5 million to the International AIDS Vaccine Initiative, \$18 million to develop microbicides, \$60 million to The Vaccine Fund, and \$100 million for prevention of mother-to-child transmission of HIV.

Department Of Health And Human Services

- **Centers For Disease Control (CDC)** The bill includes \$4.297 billion, which is a decrease of \$68 million below FY 2002. Among the allocations are the following:
 - Birth Defects, Developmental Disabilities, Disability and Health: \$99 million, an increase of \$9 million above FY2002.
 - Chronic Disease Prevention & Health Promotion: \$795 million, an increase of \$48 million over the FY 2002 level.
 - Immunization: \$655 million, an increase of \$27 million above FY 2002, and which includes \$106.4 million for global polio eradication.
 - Infectious Disease: \$345 million, an increase of more than \$1 million above FY 2002. Of that amount, \$8 million is earmarked toward research, surveillance, prevention, and control of West Nile Virus. Another \$2 million is earmarked for research, surveillance, and prevention of prion disease, and \$1 million is for hepatitis C prevention. The bill also funds \$1.194 billion for HIV/AIDS, STD, and TB prevention programs at CDC. Of this amount, \$137 million would be devoted to tuberculosis activities and \$184 million would be dedicated to global HIV/AIDS programs.
 - National Institute of Occupational, Safety and Health (NIOSH): \$274.9 million, a decrease of less than \$1 million below FY2002.
 - Public Health Improvement: \$154 million, an increase of \$6 million over FY 2002.
 - CDC's Buildings and Facilities (B&F): \$268 million. Of this amount, \$250 million is for the Master Plan in Atlanta, GA.
- **National Institutes of Health (NIH)** The bill proposes a total of \$27.2 billion for the NIH — which is an increase of \$3.8B above FY2002, and which would have completed the five-year doubling of the NIH were it not for the across-the-board cut described above. The House also recommends preserving the salary cap for extramural researchers at Executive Level I. Of the \$26.9 billion NIH receives after the across the board cut, NIAID is estimated to receive \$3.7 billion, NCR (which funds research resources) \$1.1 billion, NLM \$300 million, NIEHS \$614 million, NCCAM, \$113 million, and FIC \$63.5 million. The final NIH budget for FY 2003 at the program level as contained in the omnibus spending package is slightly lower than the appropriated amount for the agency when fund transfers to other agencies are taken into account. The total includes a program evaluation tap equaling \$507 million, composed largely of transfers to other agencies within HHS. While that amount is subtracted from the NIH program funding level, the agency's budget is boosted by a transfer of \$74 million from the Environmental Protection Agency for research at NIH's National Institute of Environmental Health Sciences. In addition, the NIH budget total is further reduced by a \$100 million transfer to the international Global Fund to Fight AIDS, Tuberculosis and Malaria. The money was included in the budget of the National Institute of Allergy and Infectious Diseases. Money set aside for the Global Fund in the FY 2003 appropriation will also come in the form of \$250 million through the U.S. Agency for International Development, This brings the total level slated for the Global Fund to \$350 million, \$150 million more than the Administration's request. Washington Fax originally reported an FY 2003 total of \$250 million for the Global Fund contained in the mammoth spending bill. The President's FY 2004 proposal for the National Institutes of Health is \$27.9 billion, a 2% increase over the Administration's FY 2003 proposal of \$27.3 billion, and a \$549 million increase for the agency.

PEOPLE

Carolyn M. Clancy, M.D., has been appointed director of the Agency for Healthcare Research and Quality (AHRQ), effective immediately. Dr. Clancy has served as acting director since March 2002 and will oversee the development of research that provides evidence-based information on health care outcomes, quality, and cost/use/access. She will also work with the U.S. Preventive Services Task Force, an independent panel of experts in primary care and prevention that reviews research evidence and develops recommendations for clinical

preventive services. Prior to serving as acting director, Dr. Clancy was director of AHRQ's Center for Outcomes and Effectiveness Research. Dr. Clancy is a general internist and health services researcher, and a graduate of Boston College and the University of Massachusetts Medical School.

Eve Slater, M.D., assistant secretary for health for the Department of Health and Human Services, is stepping down to pursue other opportunities. The assistant secretary for health serves as the Secretary's primary advisor on matters involving the nation's public health and oversees the U.S. Public Health Service. Surgeon General Richard Carmona will be the acting assistant secretary for health while the search for a new assistant secretary takes place.

Theresa Bischoff will step down as president of New York University Hospitals Center at the end of this year. Ms. Bischoff will continue to serve as chair of the AAMC's Executive Council.

John Beier, Ph.D. has moved from the Tulane University School of Public Health to the University of Miami School of Medicine.

DEATHS

Harry Ginsberg February 2, 2003 Dr. Harold S. Ginsberg, a microbiologist whose research provided a foundation for the field of virology and expanded knowledge of infectious diseases, died on Feb. 2 in Woods Hole, Mass. He was 85. The cause was pneumonia. Dr. Ginsberg also headed the microbiology departments at Columbia and the University of Pennsylvania and conducted research for the National Institutes of Health. In the late 1950's, while on the faculty at Western Reserve University (now Case Western), Dr. Ginsberg demonstrated that atypical pneumonia and pharyngitis, respiratory illnesses common in children, and acute respiratory disease were infections caused by adenoviruses. He described how such viruses, found in the lump of lymph tissue at the back of the nose, also called the adenoid, often remained dormant before gradually becoming infectious. Adenoviruses, known to be particularly hardy, can survive long periods outside a host and are ubiquitous in humans and animals. Dr. Ginsberg showed how the virus invaded host cells and caused disease. His discovery led to the development of vaccines for infections and helped explain how some DNA tumor viruses initiated cancers. Later, he worked on characterizing adenoviral genes and proteins, allowing other scientists to use the viral agents to implant healthy genes in people with cystic fibrosis and other inherited diseases. Dr. Ginsberg's first major discovery took place while he was a first lieutenant

stationed at an Army hospital in England during World War II. Noticing a high occurrence of severe hepatitis in wounded soldiers who received blood transfusions, Dr. Ginsberg determined that the pooled plasma the hospital was giving its patients was causing hepatitis B. For his efforts, the Army gave him its Legion of Merit Award in 1945. His work is also considered a foundation for the discovery of hepatitis viruses. Harold Samuel Ginsberg was born in Daytona Beach, Fla. He received his undergraduate degree from Duke and his medical degree from Tulane. Upon finishing his military service, he became an associate at the Rockefeller Institute from 1946 to 1951 and then taught at Western Reserve for nine years before leaving to head the microbiology department at the University of Pennsylvania. He directed Columbia's microbiology department from 1973 to 1985. Dr. Ginsberg spent the latter part of his career at the National Institute of Allergy and Infectious Diseases studying the simian AIDS virus, called S.I.V., to learn how it injures a host after infecting it. Dr. Ginsberg received numerous scientific awards and was a member of the National Academy of Sciences. A prolific writer, he was the author or co-author of several books, including a widely used microbiology text. He published more than 200 scientific papers. Dr. Ginsberg, who lived in Woods Hole and in Washington, is survived by his wife of 53 years, Marion Reibstein Ginsberg; two sons, Benjamin, of Washington, and Peter, of Chappaqua, N.Y.; two daughters, Ann of Westfield, N.J., and Jane of Denver; a brother, Joseph, of Daytona Beach; and eight grandchildren.

ITEMS OF INTEREST

New Website: "**Malaria Parasite Metabolic Pathways**" web site <http://sites.huji.ac.il/malaria/> is hosted by the Hebrew University of Jerusalem and supported by MR4. It has new maps: mannose, aminosugars, isoprenoid, dolichol, tryptophan, inositol phosphate, nicotinate, thiamine, and GPI anchor. Most other maps have been checked against the *Plasmodium falciparum* genome and where necessary, they were corrected. Gene products that could not be found in the genome, are clearly indicated. Four maps related to invasion have also been added. In the metabolic pathways, clicking on the EC number allows direct link to the relevant gene.

Short Course on Ultrasound in Tropical Medicine
16-20 June 2003 Division of Infectious and Tropical Diseases, IRCCS S.Matteo-University of Pavia, Via Taramelli 5, 27100 Pavia, Italy. Tuition: 500 Euro (VAT included) Open to MDs with or without previous experience in Ultrasound. Contact and further information: Enrico Brunetti, MD, University of Pavia School of Medicine; e-mail: selim@unipv.it; tel. +39 0382 502799; fax +39 0382 530362.

Fifteenth Annual Course in International Health

July 1-31, 2003 Presented by The Center for Global Health and Diseases, Case Western Reserve University School of Medicine *For Physicians, residents, fellows, medical students, nurses and other healthcare workers who have an interest in international health and an educational background that includes biomedical sciences and clinical medicine.* This course examines the major nutritional, infectious, and parasitic diseases of developing countries. Upon completion, participants should understand the biological, clinical and epidemiological aspects of these diseases and have the knowledge base and skills necessary to plan practical strategies for prevention and control of diseases endemic to developing areas. Among the presenters are Frederick Robbins, MD, Nobel Laureate for Polio Virus Cultivation; Thomas Daniel, MD; James Kazura, MD; Ronald Blanton, MD; Peter Wiest, MD; and Charles King, MD. Faculty from other leading universities and organizations include Ciro deQuadros, MD, MPH, Pan American Health Organization; William Petri, MD, PhD, University of Virginia Health System; and others. Applications are due by **May 15, 2003**. For further information contact: Charles King, MD or Ronald Blanton, MD, Course Directors The Center for Global Health and Diseases, CWRU School of Medicine, 10900 Euclid Avenue, Cleveland, OH 44106-4978, Phone: (216) 368-632, 1Fax: (216) 368-8664, Email: asr7@po.cwru.edu Visit Our Website: <http://ora.ra.cwru.edu/geomed/intlhlth/CIH.htm>

Research In Protozoan Pathogens East African Regional Workshop

26 May - 1 June 2003. Organized by T.K. Mutabingwa (Gates Malaria Partnership, Muheza, Tanzania), Patrick E. Duffy, Carol H. Sibley, and Ken Stuart (all of SBRI and University of Washington, Seattle, USA). A faculty of East African and international scientists will conduct a week-long workshop for young East African students and scientists interested in basic and applied research on protozoan pathogens, including malaria, African trypanosomes, and *Leishmania*. The course will emphasize intensive, hands-on training in order to help young scientists develop new research and laboratory skills. Areas to be covered include recombinant [sic] studies of drug resistance, functional genomics technologies, microscopy and electron microscopy, research ethics and conduct, and finding and writing grants. The workshop will emphasize student participation through symposia, poster sessions, roundtable discussions, hands-on laboratory sessions and informal interactions. The workshop organizers hope to generate interest in parasitic diseases research, to promote networks of East African and international scientists and students, and to identify graduate students and young scientists

who may be interested in graduate or postdoctoral training at research facilities in East Africa or overseas. Applications should be received no later than **15 March 2003**. Applicants should include an abstract describing research that the student has performed or would like to perform on some aspect of protozoan pathogens. Applications may be downloaded as PDF file or Word document. If you plan to mail or fax your application, please use the following address: Dr. T. K. Mutabingwa, Muheza DDH, Private Bag, Muheza Tanzania; email: tkmuta@ud.co.tz or fax: 255 (0)27 264 1420 Also you may download the Word file and complete the application, then email it to Dr. Mutabingwa at tkmuta@ud.co.tz and Dr. P.E. Duffy at patrick.duffy@sbri.org Contact: info@sbri.org or webmaster@sbri.org Tel: +1 (206) 284-8846, Fax: +1 (206) 284-0313.

GENDER, HEALTH AND COMMUNICABLE DISEASE:

6 - 23 May 2003. The Short Course in Gender, Health and Communicable Disease is a new course being run by the Gender and Health Group (<http://www.liv.ac.uk/lstm/ghgroup.html>) at Liverpool School of Tropical Medicine. The aim of the course is to enhance the capacity of policy makers and planners to analyse and address gender inequities in health and health care in developing countries. The course will have a specific focus on gender in infectious diseases such as TB, malaria and Sexually Transmitted Infections and the implications for Health Systems Development. The course is for senior level policy makers, planners and managers in health from national ministries, international or national health organisations and non-governmental organisations (NGOs). A maximum of 20 participants and a minimum of 10 is envisaged. The course will be conducted in English. The course will include an introduction to concepts of gender and how they relate to health and health systems development, an illustration of these issues through an in-depth focus on TB, Malaria, and HIV/AIDS/STIs, the application of the concepts to case studies and the participants' own working situations, practical approaches to policy development for gender equity, the influence of gender on the organisation and functioning of the health sector and service provision, development of situation specific implementation strategies, approaches to monitoring and evaluation. Participants will be asked to bring material on a specific area of concern (such as a health problem or programme) to enable them to carry out gender analysis and develop their own action plan. Fees: £1442 Minimum recommended living expenses: £1000. This includes accommodation in a near-by hotel at the cost of £20 per night. Other accommodation options are available. Course facilitators and advisory board are drawn from a range of institutional settings internationally, including WHO, international and national NGOs, universities and consultants in gender

planning and training. The course is being developed in collaboration with the Department of Public Health and the Department of Sociology at the University of Liverpool. Participants will be awarded a certificate from the Liverpool School of Tropical Medicine on completion of the course. Accommodation will be organised for participants, within easy reach of the School. Regrettably, the School is not yet able to provide adequate access for wheelchairs throughout its premises. However, facilities are improving, and those with disabilities who are interested in applying for a course are encouraged to make further enquiries. In the interests of health, the School does not permit smoking within its premises. Request a copy from the course secretary, then complete and return, either by email, or by post to: Ms. Lynda Buck, Gender & Health course Secretary, Liverpool School of Tropical Medicine Pembroke Place Liverpool L3 5QA, United Kingdom Tel: +44 (0)151-705 3200 Fax: +44 (0)151-707 1702 Email: lbuck@liverpool.ac.uk Deadline for applications: **31st March 2003**.

Two-week intensive course on: **Introduction to infectious disease modelling and its applications 7-18 July 2003, LSHTM** This two-week intensive course is intended to introduce professionals working on infectious diseases in either developing or developed countries to this exciting and expanding area. The emphasis will be on developing a conceptual understanding of the basic methods and on their practical application, rather than the manipulation of mathematical equations. The methods will be illustrated by "hands-on" experience of setting up models, small group work, and seminars in which the applications of modelling will be discussed. Though participants will not be "modellers" by the end of the course, they will have gained an understanding and practical experience of the basics of infectious disease modelling which will be useful in their future work. The course is designed for individuals interested in expanding their knowledge of the techniques available for analysing and interpreting epidemiological data on infectious diseases and for predicting the impact of control programmes, including medical and health professionals, policy makers, veterinary scientists, medical statisticians and infectious disease researchers. Specialist mathematical training is not a prerequisite. However, individuals with degrees in mathematical disciplines working on some aspect of infectious disease dynamics and/or control, who wish to learn about the potential of infectious disease modelling will also benefit. The fee for the full course is £1,300. This fee covers participation in the course and all course materials, and a course lunch on the first day, but excludes travel costs, accommodation and other meals. If the course fee is to be paid on the applicant's behalf, please enclose a letter from the sponsor to confirm this, otherwise the application will be held responsible

for payment.

The course fee is payable in full on notification of acceptance for the course, and attendance on a course may not begin until fees are fully paid. Cancellation of attendance on a course may lead to loss of all or part of the fee. For copies of the leaflet and application form, please contact: Registry, London School of Hygiene and Tropical Medicine, 50 Bedford Square, London WC1B 3DP, UK. Email: shortcourses@lshtm.ac.uk, The [application form](#) (PDF format) can be downloaded, and signed copies should be faxed with a CV to +44(0)20 7323 0638. A detailed [course description](#) and [provisional timetable](#) (both PDF format) can be downloaded or obtained from one of the course organisers on request: [Emilia Vynnycky](#), Infectious Diseases Epidemiology Unit, London School of Hygiene and Tropical Medicine, Keppel Street London WC1E 7HT, UK.

FUNDING OPPORTUNITIES

TDR Career Development Fellowship: Interactive Learning Production (In Collaboration With The Wellcome Trust) The Special Programme for Research and Training in Tropical Diseases (TDR) invites applications for a 12-month fellowship concerning the production of interactive training and distance learning packages. The training will involve a short placement in TDR Headquarters (Geneva), working closely with professional staff in the TDR Communications Unit, and a longer-duration placement working at Wellcome Trust headquarters in London. Following completion of the training programme, the Fellow is expected to return to the home institute and make full use of both the training, technology and products produced during the term of the Fellowship, and to actively promote the use of all such products, as well as wide application of remote or stand-alone learning elements and packages in their home country. Applications are requested from nationals of developing countries, particular those where TDR target diseases are endemic. Individuals should be employed or involved in Ministries of Health, academic or research institutions, or non-governmental organisations active in the health education and training fields. All applications must be received by **14 April 2003** at the address given below: Steven Wayling, Manager, Research Training Special Programme for Research and Training in Tropical Diseases (TDR), World Health Organization, 1211 Geneva 27, Switzerland, Fax: +41-22 791-4854, E-mail: waylings@who.int. Further information on TDR's activities may be found at

www.who.int/tdr

The WHO Department Of Vaccines And Biologicals Initiative For Vaccines Research (IVR) The World Health Organization's (WHO) Department of Vaccines and Biologicals will provide seed-funding for research projects on vaccine delivery and stabilization technologies. These studies should be targeted towards developing country populations (including infants and young children) and formulations/antigens should target at least one of a few selected priority diseases/disease agents in our programme: human papilloma virus, tuberculosis, shigella, enterotoxigenic *Escherichia coli* and malaria. Issues of safety, feasibility and practicality, including affordability of vaccines in developing countries should be addressed. The status of intellectual property rights versus freedom-to-practice opportunities, including any competing claims and unresolved issues must also be clearly and completely explained. Although patent protection and Intellectual Products (IP) does not in any way rule out support for a technology, WHO wishes to be fully apprised of the status of this issue before making awards.

- **Transcutaneous vaccination:** Early phase clinical studies to evaluate the safety, reactogenicity and immunogenicity of the target vaccines. In addition proposals to evaluate the usefulness of transcutaneous administration of the above-mentioned vaccines in children will be considered. **Vaccine stabilization :** Early phase clinical studies to evaluate the safety, reactogenicity and immunogenicity of one of the stabilized target vaccines and/or measles vaccine. Pre-clinical studies on these stabilized vaccines required for the transition into clinical studies will also be considered for funding. Mucosal (oral or nasal) vaccination: Early phase clinical studies to:
 - evaluate mucosal vaccine formulations and delivery devices and
 - characterize and overcome factors (barriers) among persons in developing countries which result in suboptimal immunogenicity of nasal and oral vaccines, such as small intestinal overgrowth and intestinal parasites, other concurrent infections and nutritional status of individuals.

Investigators from developing countries are strongly encouraged to apply. **Deadline for receiving applications: 18 April 2003.** Application forms can be requested from: IVR/BAC, World Health Organization, 20 avenue Appia, 1211 Geneva 27, Switzerland. Fax: (+41) (0) 22 791 4860, Email: <mailto:deanm@who.int> Website: <http://www.who.int/vaccines-research/rd/proposals.shtml>

TDR Functional Genomics TDR invites research proposals for innovative applications of functional

genomics with the aim of identifying new drug targets for African trypanosomiasis, Chagas disease, leishmaniasis, malaria and tuberculosis, and of developing diagnostics for early leprosy infection. TDR and other funding agencies have supported international efforts through genome networks to determine the genome sequence of parasites including those responsible for African trypanosomiasis, Chagas disease, leishmaniasis and falciparum malaria. Additionally, the genome sequences of *Mycobacterium tuberculosis* and *Mycobacterium leprae*, the causative agents of tuberculosis and leprosy respectively, have been obtained. The availability of the genome sequence of these pathogens has generated a large amount of information that is available in public domain databases. TDR's Pathogenesis and Applied Genomics Committee, through the Working Group on Applied Genomics to Drugs and Diagnostics, is fostering novel approaches using whole genome based methodologies, computational biology, and functional genomics to identify new drug targets in, and diagnostic reagents for, organisms responsible for these diseases. The Working Group will support innovative applications for one-year pilot projects focusing on the areas listed below, with the aim of identifying new drug targets and diagnostics:

- Identification and validation of new targets for drugs using genome information in conjunction with new technology including, but not limited to, RNA interference, inducible gene systems, genome-wide mutagenesis, genome expression analysis, and bioinformatics.
- Development of tests for early leprosy infection through combinations of genomic and molecular tools.
- Novel approaches to identify target-ligand interactions that interfere with the growth of these pathogens or disease progression and use of the genome information to identify the corresponding drug targets.
- Analysis of drug-resistant organisms and responses to chemotherapeutics using whole genomic approaches, e.g. transcriptional profiling and proteomics, with the aim of identifying potential new drug targets and understanding resistance mechanisms.
- Development of whole cell models for screening new drugs and monitoring targets.
- Identification of potential new drug targets through comparative genome analysis. Proposals that include approaches to target validation are preferred.
- Development of tools for functional genome analysis, including inducible gene expression and whole genome mutagenesis approaches, for identification and validation of drug targets.

Details and examples of genome-based tools currently available and those desired for further development in

order to support these research objectives can be found in the workplan of the Genome to Drugs and Diagnostics Working Group at <http://www.who.int/tdr/grants/workplan>. TDR will provide support for one-year pilot projects with a total budget of US\$ 20 000 to US\$ 70 000. Ordinarily the projects funded will be supported as one-time projects, with the expectation that further funding will be sought through other TDR committees or outside funding sources. Successful applicants will have opportunities to participate in ongoing TDR initiatives, especially drug development/screening, as well as further training in bioinformatics/applied genomics (see: <http://www.who.int/tdr/grants/workplans/default.htm>) TDR strongly encourages collaboration between investigators in endemic countries (South-South) or with resourceful laboratories in non-endemic countries (North-South). Applicants are encouraged to involve young researchers from developing countries in need of training. Application forms (Collaborative Research Grants) as well as detailed instructions for submission of applications are available from the TDR communications unit or can be downloaded from the TDR website: <http://www.who.int/tdr/grants/forms.htm>. Deadline for receipt of proposals is **1 August 2003** All correspondence and requests for additional information should be sent to: Dr A.M.J. Oduola, Coordinator Basic and Strategic Research (STR) TDR, World Health Organization, 1211 Geneva 27, Switzerland; Tel: +41 22 791 3212/3789 Fax: +41 22 791 4854 E-mail: oduolaa@who.int

Planning Grants To Organize Programs For International Clinical, Operational, And Health Services Research Training For AIDS And Tuberculosis

PAR-03-072 Letter of Intent Receipt Date: May 12, 2003, May 10, 2004, May 10, 2005 **Application Receipt Date: June 10, 2003; June 10, 2004, June 10, 2005** The Fogarty International Center (FIC) along with other NIH institutes, the Centers for Disease Control and Prevention (CDC) and the United States Agency for International Development (USAID) invite applications for Phase I Planning Grants for the International Clinical, Operational, and Health Services Research Training Award for AIDS and Tuberculosis (ICOHRTA-AIDS/TB). The program provides extended support for training to foster collaborative, multidisciplinary research in developing country sites where HIV/AIDS, TB or both are significant problems. The first phase of the ICOHRTA-AIDS/TB program consists of one-year planning grants to foreign institutions to develop an application for a Phase II. The second phase of the ICOHRTA-AIDS/TB program will begin in fiscal year 2004 (FY04). Only the recipients of the Phase I planning grants and their chosen U.S. (or pre-approved non-U.S.) collaborating partner institutions (together referred to as Research Training Units) are eligible to apply for Phase II Comprehensive ICOHRTA-

AIDS/TB awards. Phase II awards will provide support to both partner institutions in the Research Training Unit through five-year cooperative agreements. The awards will support training programs designed to foster the development of integrated strategies to successfully implement evidence-based interventions for HIV/AIDS and tuberculosis (TB). Training will take place at the U.S. or foreign sites and mentored research will be carried out mainly at the foreign site. The program may also provide support at the foreign site for training to develop and extend core research support capabilities necessary for long-term sustainability of the research capacity of the foreign institution. In developing proposals for planning grants, applicants need to be aware of the objectives and special requirements for the comprehensive program as described in the Request for Applications TW-03-003 (<http://grants.nih.gov/grants/guide/rfa-files/RFA-TW-03-003.html>). The planning applications must outline the strategies and approach to develop a proposal for a comprehensive training program that will build capacity in the foreign country to conduct integrated clinical, operational, and health services research focused on one or more of the following areas:

- The application of clinical science and health care research to benefit those already infected with HIV and/or TB.
- The prevention and/or reduction of spread of HIV and TB and related conditions, especially measures that can be implemented within the context of care.
- The study of strategies for scale up and integration of effective therapeutic and preventive interventions into the local health care system.

For additional information contact Jeanne McDermott, Division of International Training and Research, Fogarty International Center, National Institutes of Health, Building 31, Room B2C39, 31 Center Drive, MSC 2220, Bethesda, MD 20892-2220, Telephone: 301-496-1492, Fax: 301-402-0779, Email: mcdermoj@mail.nih.gov. Prospective applicants are asked to submit a letter of intent that includes a descriptive title of the proposed planning grant; the name, address and telephone number of the Principal Investigator; the names of other key personnel (including the proposed U.S. or non-U.S. major collaborator); participating institutions, and the number and title of this PA. Although a letter of intent is not required, is not binding, and does not enter into the review of a subsequent application, the information that it contains allows NIH staff to estimate the potential review workload and plan the review. The letter of intent is to be sent by the date listed at the beginning of this document. The letter of intent should be sent to Jeanne McDermott, at the address listed above.

Drugs for Neglected Diseases Initiative (DNDi) Call For Letters Of Interest The Drugs for Neglected Dis-

eases Initiative (DNDi) is being developed as a not-for-profit entity that is being established in partnership with Medecins Sans Frontieres, Oswaldo Cruz Foundation/Far Manguinhos, the Indian Council of Medical Research, Institut Pasteur, the Ministry of Health of Malaysia with WHO/TDR as a permanent observer, to develop effective, safe, affordable and field-adapted drugs addressing the needs of patients suffering from the most neglected communicable diseases. The DNDi acts in the public interest to bridge the existing gaps in research and development for essential drugs for neglected diseases such as sleeping sickness, Chagas disease, and leishmaniasis. The DNDi wishes to identify research opportunities to address unmet medical needs and initiate and coordinate drug R&D projects in collaboration with the international research community, the public sector, the pharmaceutical industry, and other relevant partners. In pursuing its goals, the DNDi will manage R&D networks built on South-South and North-South collaborations and solidarity. The DNDi portfolio currently has three drug development projects underway in collaboration with WHO/TDR, based on existing drugs or compounds. It now aims to expand its R&D portfolio with drug discovery projects targeted at the identification of novel drug development candidates and drug development projects taking candidate compounds through the different stages of development to the point where they can be registered and recommended for use. The DNDi is inviting letters of interest for drug discovery and drug development projects focusing on human African trypanosomiasis, Chagas disease, and leishmaniasis. In addition to the development of new chemical entities (which can be at any of the above-mentioned stages), the DNDi will also consider: reformulation of an existing drug to be better adapted to the conditions of use or to the target population; extension of indication of an existing drug to include one of the target diseases; extension of registration to other geographical areas; new regimens and combinations of existing drugs. This invitation is open to the entire scientific community and the DNDi will consider all research and activities likely to lead to new drugs for these neglected diseases. Applications from academic groups and biotechnology or pharmaceutical companies, as well as from collaborative efforts between academic institutions and pharmaceutical companies are welcome. Applications from, or collaborative projects involving, disease-endemic countries are highly encouraged. Following review by the scientific advisory committee, final decisions on selection and financial support will be made by the DNDi's Board of Directors. All applications must be received both electronically and in hard copy no later than **March 15, 2003** at the following addresses: Electronic submission: DNDi-TDR@who.int Hard-copy submission: DNDi-TDR Collaborative Projects 2003 c/o World Health Organiza-

tion TDR Room W1009 Avenue Appia 20 CH-1211 Geneva 27 Switzerland For more information on DNDi, please visit: <http://www.accessmed-msf.org/> For more information on TDR, please visit: <http://www.who.int/tdr>

Travel Grants The International AIDS Society (IAS) has a large number of unassigned "International Awards" for their upcoming conference in Paris in July. The IAS reserved a set number of full scholarships for international participants but they have not received enough applicants for the awards, and have therefore requested that we publicize these awards with our TREAT Asia Investigators. The award is very generous as it includes travel and a housing grant, a daily allowance and free registration to the conference. This is a great opportunity for anyone who is interested in attending the *2nd International AIDS Society Conference on HIV Pathogenesis and Treatment*, which will take place July 13-16, 2003 in Paris, France. If you have any interest in participating at the conference, please refer to the email below for more information. The Agence Nationale de Recherches sur le Sida will organize in Paris from the 13th of July to the 16th of July the 2nd International AIDS Society Conference on HIV Pathogenesis and treatment. The Conference organisers are committed to the International Awards Programme that will allow for the participation of scientists and clinicians from developing countries, particularly low-income countries in the South. International Awards will include travel and a housing grant, daily allowance and free registration to the conference. It will be an excellent opportunity so as to update knowledge and to encourage information and practices exchanges. International awards are not abstract-driven. The application form can be downloaded on our website: <http://www.ias2003.org/admin/images/upload/115.pdf> You will also be able to view updated information on the Conference. Please note that the deadline has been extended until the **15th of March, 2003** in order to have a better representativeness of participants. For any further information, do not hesitate to contact M. Robin Sappe (robin.sappe@anrs.fr <<mailto:robin.sappe@anrs.fr>> , +33 (0)1 53 94 60 11)

NIAID Richard A. Asofsky Scholars In Research Award National Institute of Allergy and Infectious Diseases (NIAID) (<http://www.niaid.nih.gov>) The NIAID (NIAID/NIH/DHHS) invites applications from current NIAID grantees (Principal Investigators) to apply for the Richard A. Asofsky Scholars in Research (ASIR). Dr. Asofsky served NIH and NIAID with distinction and energy for 37 years (http://www.nih.gov/news/NIH-Record/03_21_2000/obits.htm), a major part being spent improving research training programs. This announcement has been created to represent and honor his dedication to bring underrepresented minorities into the biomedical sciences. The ASIR Program is to provide supplemental funding to NIAID extramural

principal investigators for the purpose of supporting underrepresented minority high school and college students in their research laboratories to expose them to research career opportunities in the areas of allergy, immunology, transplantation, microbiology, and infectious diseases, including AIDS. This Program Announcement is an expansion of NIH PA-01-079 and reflects NIAID's continued commitment to the long-term goal of developing a cadre of underrepresented minority scientists. This PA is specifically targeted to high school and undergraduate college students and is an extramural component of the NIAID's long-standing Introduction to Biomedical Research Program. This PA solicits applications on an ongoing basis. The NIAID is making efforts to reach minority students at the high school and undergraduate levels to peak their interest in biomedical science. The goal of the present PA is to increase the number of future underrepresented minority investigators by pairing scientifically focused high school and undergraduate students with successful NIAID grantees. Thus creating a mentoring relationship between the student and researcher from which the student can gain laboratory experience and guidance in a career in science. This PA will use the National Institutes of Health (NIH) grant supplement to the existing research grant of eligible Principal Investigators. The total requested project period for an application submitted in response to this PA may not exceed two years. NIAID Principal Investigators who hold an active R01, R10, R18, R21, R22, R24, R35, R37, P01, P20, P30, P40, P41, P50, P51, P60, U01, U10, U19, U41, U42 or U54 grants are generally eligible to submit a request for the ASIR, which is an administrative supplement to the Principal Investigator's parent grant. Principal Investigators holding an Academic Research Enhancement Award (R15) or a Small Grant Award (R03) also may apply for the ASIR. Grantees with support from these programs must check with one of the individuals listed under the section "Where to Send Inquiries" prior to submitting an application. ASIR awards to the grant mechanisms such as the R15, or the R03 may provide support above the established dollar limits. For the purpose of this announcement, underrepresented minority students are defined as individuals belonging to a particular ethnic or racial group that has been determined by the grantee institution to be underrepresented in biomedical, behavioral, clinical or social sciences. Awards will be limited to citizens or non-citizen nationals of the United States or to individuals who have been lawfully admitted for permanent residence (i.e., in possession of an Alien Registration Receipt Card) at the time of application. Before submitting an application for a research supplement, applicants are encouraged to call their program administrator at the NIH to discuss any aspects of this program that need clarification. For general information about the program, minority candidates are encouraged

to contact Joyce Hunter Woodford, M.P.P., Division of Extramural Activities, National Institute of Allergy and Infectious Diseases, 6700B Rockledge Drive, Room 2130 Bethesda, MD 20892-7610 Bethesda, MD 20817-7610 (for express/courier service) Telephone: (301) 496-6722 FAX: (301) 496-8729 Email: jw25v@nih.gov or Diane Adger-Johnson, Division of Extramural Activities, National Institute of Allergy and Infectious Diseases, 6700B Rockledge Drive, Room 2261 Bethesda, MD 20892-7610 Bethesda, MD 20817-7610 (for express/courier service) Telephone: (301) 402-8969 FAX: (301) 496-8729 Email: da15a@nih.gov

Individual Biomedical Informatics Fellowships

National Library of Medicine (NLM) (<http://www.nlm.nih.gov>) This program announcement supersedes PA-92-90. Individual biomedical informatics fellowships provide support for the training of informatics scientists able to perform research into basic informatics problems or to application of informatics to any area of biomedicine, including clinical medicine, basic biomedical research, clinical and health services research, public health, professional education, and administration. Post-doctoral, pre-doctoral and, in certain specified fields, some post-baccalaureate candidates are eligible. Health informatics is concerned with the acquisition, representation, storage, retrieval, and utilization of information in a health-relevant domain. Fellowship training is intended to help meet the growing national need for research investigators and leaders trained in the myriad of specialized areas in biomedical computing and health informatics. Thus, this fellowship is suitable for training in informatics specializations ranging from clinical informatics to the informatics of molecular biology and other large research datasets. Applications that focus on building new skills or extending the applicant's existing expertise are particularly desirable. Upon completion of training, fellows should be able to conduct basic or applied research at the intersection of biology and medicine with computer and cognitive sciences, and are expected to be familiar with the use and potential of modern information technology. Fellows in informatics will achieve this goal through an individually-tailored program of formal coursework and research experience, culminating in a project. Although a canonical set of basic courses for informatics training has not yet evolved, there is general agreement that the field is interdisciplinary, and includes, among others, components of computer science, information science, cognitive science, and knowledge of one or more domains of biomedicine. The program of coursework should develop or augment the trainee's basic competency in each of these areas. This fellowship may lead to a degree, although it is not a requirement. Whether or not the training is to be used for credit or certification in an educational program is up to the applicant, the fellowship sponsor, and the organization involved. The

curriculum for applied research training may be different from that needed for basic research training, but should provide sufficient theoretical foundation in the area of application. An F37 award is the intended funding mechanism. Applications on behalf of women and other groups underrepresented in biomedical informatics are strongly encouraged. Before submitting a fellowship application, the applicant must identify a sponsoring institution and an individual who will serve as a sponsor (also called mentor or supervisor) and will supervise the training and research experience. Inquiries from potential applicants concerning this PA are encouraged and should be directed to Carol A. Bean, Ph.D., Extramural Programs, National Library of Medicine, Rockledge 1, Suite 301, 6705 Rockledge Drive, Bethesda, MD 20892, Telephone: (301) 594-4882, FAX: (301) 402-2952,

Ruth L. Kirschstein National Research Service Awards For Individual Postdoctoral Fellows (F32)

PA NUMBER: PA-03-067 The Congress of the United States enacted the National Research Service Act (NRSA) Program in 1974 to help ensure that a diverse pool of highly trained scientists will be available in adequate numbers and in appropriate research areas to carry out the Nation's biomedical and behavioral research agenda. In 2002, the National Research Service Award Program was renamed the Ruth L. Kirschstein National Research Service Award Program as a tribute to Dr. Kirschstein's years of exceptional service to the Nation. Additional details related to this legislative change are available at <http://grants.nih.gov/training/news.htm>. Under this congressional authority, the National Institutes of Health (NIH) awards individual postdoctoral fellowships (F32) to promising applicants with the potential to become productive, independent investigators in fields related to the mission of the NIH constituent institutes and centers. The mechanism of support is the Postdoctoral Fellowship Award (F32). The proposed postdoctoral training must be within the broad scope of biomedical, behavioral, or clinical research and must offer an opportunity to enhance the fellow's understanding of the health-related sciences and extend his/her potential for a productive research career. By the time of award, candidates for the postdoctoral fellowship award must be citizens or non-citizen nationals of the United States, or must have been lawfully admitted to the United States for Permanent Residence (i.e., possess a currently valid Alien Registration Receipt Card I-551, or other legal verification of such status). Non-citizen nationals are generally persons born in outlying possessions of the United States (i.e., American Samoa and Swains Island). Individuals on temporary or student visas are not eligible. Individuals may apply for the F32 in advance of admission to the United States as a Permanent Resident recognizing that no award will be made until legal

verification of Permanent Resident status is provided. Before a Kirschstein-NRSA postdoctoral fellowship award can be activated, the individual must have received a doctoral degree from an accredited domestic or foreign institution. Individuals may receive up to 3 years of aggregate Kirschstein-NRSA support at the postdoctoral level, including any combination of support from institutional training grants (T32) and individual fellowship awards (F32). Before submitting a fellowship application, the applicant must identify a sponsoring institution and an individual who will serve as a sponsor (also called mentor or supervisor) and will supervise the training and research experience. The applicant's sponsor should be an active investigator in the area of the proposed research who will directly supervise the candidate's research. The sponsor must document the availability of research support and facilities for high-quality research training. Applicants requesting fellowship support for foreign research training must show in the application that the foreign institution and sponsor offer unique opportunities and clear scientific advantages over positions currently available in the United States. Applicants are strongly encouraged to contact NIH staff in advance of preparing an application, for additional information concerning the areas of research, receipt dates, and other types of pre-application instructions. If you are not sure whom to contact about this program, please call: Walter T. Schaffer, Ph.D., Research Training Officer, National Institutes of Health, 6705 Rockledge Drive, Room 3537, Bethesda, Maryland 20892-7963, Phone: 301-435-2687, FAX: 301-480-0146, Email: ws11q@nih.gov

JOBS

Puerto Rico Senior Fellowship in Medical Entomology, NCID/Division of Vector-Borne Infectious Diseases *The Centers for Disease Control and Prevention* is seeking outstanding candidates for a Senior Fellowship opportunity in medical entomology at the Dengue Branch of the Division of Vector-Borne Infectious Diseases located in San Juan, Puerto Rico. This fellowship will last for 2–5 years. The primary purpose of this position is to conduct research on the behavior and ecology of potential mosquito vectors of West Nile virus in Puerto Rico in order to develop new information about this virus and its vector species. Results of this research will contribute to the improved surveillance, prevention and control of West Nile virus through control of mosquito vectors. Qualifications: a doctoral degree is preferred with expertise as described above. Candidates will be evaluated based on (1) education, training and experience related to the study, surveillance and control of mosquito-borne diseases; (2) ability to utilize field and laboratory methods to design, manage and evaluate vector control programs; (3) demonstrated skills in

leading an entomology research program; and (4) oral and written communication skills (proficiency in English is required and proficiency in Spanish is desired). Salary is equivalent to an associate or full professor, commensurate with education and experience. The base salary will range from \$49,959-\$67,329 plus 11.5% cost of living allowance for Puerto Rico. For consideration, interested applicants should send a letter of intent, indicating position of interest, a complete Curriculum Vitae, and names of three references by **May 1, 2002** to: National Center for Infectious Diseases, Dengue Branch, DVBD, 1324 Calle Cañada, San Juan, Puerto Rico 00920-3860

Switzerland The Global Fund Fund *Portfolio Managers* The Global Fund, established in 2001, is an independent public-private partnership. It is the largest global fund in the health domain, with over USD 2.0 billion currently committed. The purpose of the Fund is to attract, manage and disburse additional resources to make a sustainable and significant contribution to mitigate the impact caused by HIV/AIDS, tuberculosis and malaria in countries in need, and contributing to poverty reduction as part of the Millennium Development Goals. The Secretariat is established as a highly professional, non-hierarchical and lean organization, which values diversity and commitment to the issues and results. The Fund is looking for staff with strong commitment, an open mind-set, entrepreneurial and flexible attitudes, proven emotional intelligence and the ability to work under pressure within tight deadlines. Candidates must be experienced in managing the collection, processing and approval process of grant proposals and agreements, coordinating local in-country mechanisms, fiduciary arrangements and grant recipients, reviewing periodic reports on the progress of implementing grants and recommending disbursements based on results achieved. Essential qualifications and experience include University degree, preferably advanced, in business administration, management, public health, economics or other relevant discipline; extensive international experience in the private and/or public sector in managing project portfolios in developing countries; in-depth knowledge and specific experience in working with at least one of the three diseases – HIV/AIDS, tuberculosis and malaria; proven knowledge of country dynamics through direct in-country working experience; excellent analytical, written and computer skills; diplomacy and discretion; ability to work as a team player in a multi-cultural environment; excellent language skills (English and /or French for the Africa region, English and Spanish for Latin America and English for the Asia region). Proficiency in other regional/local languages is a major asset. Compensation will be commensurate with qualifications, experience and the level of responsibility assigned. Candidates must quote the following references

Tgf/03/10 - for the four positions in the Africa portfolio team

Tgf/03/15 - for the two positions in the Latin America portfolio team

Tgf/03/17 - for the three positions in the Asia portfolio team

These vacancies are open to applicants of either gender. Applicants from communities affected by the three diseases are encouraged to apply. Candidates applying for positions in more than one region should state which region their qualifications and experience are more suited.

Georgia The Centers for Disease Control and Prevention (CDC) is seeking immediate temporary (not to exceed 1 year) hire of scientists for various locations in the United States. Positions have the potential to become permanent within the respective health departments. Applicants must have experience performing real-time PCR assays and have a broad understanding of molecular diagnostics and laboratory troubleshooting. Applicants must be United States citizens. For information, contact: Ms. Susan Rudd e-mail: svr0@cdc.gov fax: 404-639-4234 If selected, you will need to provide original college/graduate school transcripts (copies cannot be accepted) and/or copies of diplomas. These items must be hand-delivered or sent by overnight delivery.

Illinois Post-doctoral position *Loyola University Chicago* This position is available to study the molecular mechanisms of Plasmodium falciparum development, using reverse genetics as well as cellular and bioinformatic techniques. Our group specializes in gametocytogenesis and the initial stages of differentiation in the mosquito midgut, including RBC emergence, exflagellation, and fertilization. A Ph.D. is required and applicants should have at least 2 years research experience in cell biology and/or developmental biology. Experience with cell culture and molecular biology techniques is preferred. The laboratory provides strong support for the development of independent projects leading to a productive career for post-doctorate candidates. Interested applicants should send a curriculum vita, a statement of personal and academic goals, and the names, addresses and Tel/Fax numbers of three referees to: Kim C. Williamson, Loyola University Chicago, Biology, DH835, 6525 N. Sheridan Rd., Chicago, IL 60626, Email: kwilli4@luc.edu, Loyola University Chicago is an AA/EOE.

Maryland Postdoctoral Position/Cell and Molecular Biology of *Leishmania* *National Institutes of Health* Postdoctoral Fellowship available for recent Ph.D. in molecular biology, biochemistry or microbiology. Successful candidate will join active group studying the cell biology of *Leishmania* and related trypanosomatid

parasites (a group of parasitic protozoa causing human disease). Ongoing projects areas include: 1) characterization of secretory and surface membrane enzymes critical to parasite growth, development and survival; 2) molecular dissection of genes encoding / regulating such proteins, 3) developmental expression and cellular targeting of such proteins and 4) functional characterization of components of both the endo- and exocytic pathways in these organisms. NOTE: Fellowships available only to those with less than 3 years of postdoctoral experience. Salary is contingent upon experience starting at \$33,000 per year. Please send *curriculum vitae*, list of publications and names of 3 references to: Dr. Dennis M. Dwyer, Head, Cell Biology Section, Laboratory of Parasitic Diseases, Building 4, Room 126, National Institute of Allergy and Infectious Diseases, National Institutes of Health Bethesda, MD 20892-0425. Telephone : (301) 496-5969; FAX #: (301)-402-2201 E-Mail: DDwyer@niaid.nih.gov

CALENDAR

Edited by Karl Western, MD, DTMH

XI "Community Planning Leadership for HIV Prevention" Summit (New York City: March 12-15, 2003). Contact: Paul Woods, Conference Registrar, 1931 13th Street, NW, Washington, DC 20009. Phone: 202/483-6622 (ext. 343); Fax: 202/483-1127; E-mail: pwoods@nmac.org; Internet: <http://www.nmac.org/conference/cpls2003/index.asp>.

III Annual Salk Institute Symposium on "Days of Molecular Medicine: 2003" (San Diego: March 13-15, 2003). Contact: <http://imm.ucsd.idu>.

VI Annual Management Review for the Practicing Physician on "Clinical Infectious Diseases" (New York City: March 13-16, 2003). Contact: Center for Biomedical Communications, Inc., 433 Hackensack Avenue (9th Floor), Hackensack, NJ 07601. Phone: 201/342-5300; Internet: <http://www.cbcbiomed.com>.

American Federation for Clinical Research (AFMR) Annual Meeting on "Clinical Research 2003 (Baltimore: March 14-16, 2003). Contact: Meetings Plus, Inc., CR2003 Registration Department, 4421 Broadway Avenue, Evansville, IN 47712. E-mail: cmayberry@mpi-evv.com; Internet: <http://www.mpi-evi.com>.

"National Immunization" Conference (Chicago: March 17-20, 2003). Contact: Suzanne Johnson-DeLeon. Phone: 404/639-8225; E-mail: nipnic@cdc.gov; Internet: <http://www.cdc.gov/nip/nic>.

XIII IMEDEX Focus on "Fungal Infections" (Maui, HI: March 19-21, 2003) Contact: IMEDEX, 70 Technology Drive, Alpharetta, GA 30005-3969. Phone: 770/751-7332; Fax: 770/751-7334; Internet: <http://www.imedex.com>.

Keystone Symposium on "HIV Vaccine Development:

Immunological and Biological Challenges" (Banff, Alberta: March 29-April 4, 2003. Contact: Keystone Symposia, 221 Summit Place (Room 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; Fax: 970/262-1525; E-mail:

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

Keystone Fellows and New Investigators Workshop on "HIV" (Banff, Alberta: March 29-April 4, 2003. Contact: Keystone Symposia, 221 Summit Place (Room 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; Fax: 970/262-1525; E-mail:

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

Keystone Symposium on "Twenty Years of HIV Research: From Discovery to Understanding" (Banff, Alberta: March 29-April 4, 2003. Contact: Keystone Symposia, 221 Summit Place (Room 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; Fax: 970/262-1525; E-mail:

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

XV American Foundation for AIDS Research (AmfAR) National "HIV/AIDS Update" Conference (Miami, FL: March 30-April 2, 2003). Contact: Felicissimo & Associates, Conference Secretariat, 205 Viger Avenue West (Suite 201), Montreal, Quebec H2Z 1G2, Canada. Phone: 514/874-19998; Fax: 514/874-1580; E-mail: nauc@total.net; Internet: <http://www.amfar.org/nauc>.

LII Annual Epidemic Intelligence Service (EIS) Conference (Atlanta: March 31-April 4, 2003). Contact: Erica Lowe, 2003 EIS Conference Coordinator, Epidemiology Program Office (MS D18), CDC, Atlanta, GA 30333. E-mail: erl2@cdc.gov.

Keystone Symposium on "Molecular Aspects of Transmissible Spongiform Encephalopathies (Prion Diseases)" (Breckenridge, CO: April 2-6, 2003. Contact: Keystone Symposia, 221 Summit Place (Room 272), Drawer 1630, Silverthorne, CO 80498. Phone: 800/253-0685 or 970/262-1230; Fax: 970/262-1525; E-mail: info@keystonesymposia.org; Internet: <http://www.keystonesymposia.org>.

XIII Annual Society for Health Care Epidemiology of America (SHEA) Annual Scientific Meeting (Arlington, VA: April 5-8, 2003). Contact: SHEA, 19 Mantua Road, Mt. Royal, NJ 08601. Phone: 856/423-7222 (ext. 350); Fax: 856/423-3420; E-mail: sheamtg@talley.com; Internet: <http://www.shea-online.org>.

"World Vaccine" Conference (Montreal: April 7-9, 2003). Contact: Heather Ward. Phone: (44-20)-7827-5977; E-mail: heather.ward@terrapin.com; Internet: <http://www.pharma-rd.net/2003/wvc-ca>.

XXXI Annual "Pediatric Trends" Conference (Baltimore: April 7-12, 2003). Contact: Conference Coordinator, Office of Continuing Medical Education, Johns Hopkins University School of Medicine, 720 Rutland Avenue (Turner 20), Baltimore, MD 21205. Phone: 410/955-

2959; Fax: 410/955-0807; E-mail: cmenet@jhmi.edu;
Internet: <http://www.med.jhu.edu/cme>.

Experimental Biology Societies Annual Meetings (San Diego: April 11-15, 2003). Contact: Experimental Biology 2003, 9650 Rockville Pike, Bethesda, MD 20814-3998. Phone: 301/530-7010; Fax: 301/530-7014; E-mail: eb@faseb.org; Internet: <http://www.faseb.org/meetings/eb2003>.

UC/San Francisco Conference on "Advances in Infectious Diseases" (San Francisco: April 23-25, 2003). Contact: Department of Medicine, CME, University of California, San Francisco, Box 0656, San Francisco, CA 04143-0656. Phone: 415/476-5208; Fax: 415/476-3542; E-mail: cme@medicine.ucsf.edu; Internet: <http://medicine.ucsf.edu/cme>.

Knowledge Foundation's (KF) II International Conference on "Cancer Vaccines" (Boston: April 23-25, 2003). Contact: KF, Inc., 18 Webster Street, Brookline, MA 02446. Phone: 617/232-7400; Fax: 617/232-9171; E-mail: custserv@knowledgefoundation.com.

XIX Annual "Clinical Virology" Symposium and Annual Meeting of the Pan American Society for Clinical Virology (Clearwater Beach, FL: April 27-30, 2003). Contact: Office of Continuing Medical Education, University of South Florida, 129001 Bruce B. Downs Boulevard (MDC 60), Tampa, FL 33612-4779. Internet: <http://www.virology.org>.

XVI International Conference on "Antiviral Research" (Savannah: April 27-May 1, 2003). Contact: Organizing Secretariat, Courtesy Associates, 2025 M Street (Suite 801), NW, Washington, DC 20036. Phone: 202/973-8690; Fax: 202/331-0111; E-mail: isar@courtesyassociates.com; Internet: <http://www.isar-icar.com>.

V International Congress of the Federation of African Immunological Societies (FAIS) (Victoria Falls, Zimbabwe: April 28-May 1, 2003). Contact: Patricia Ndhlovu, Secretary General FAIS, Department of Medical Laboratory Sciences, University of Zimbabwe Medical School, PO Box A-178, Harare, Zimbabwe. Phone: (263-4)-791-631; E-mail: pndhlovu@telco.co.zw; Internet: <http://www.faisoc.org/english/conferences/victoriafalls.htm>.

VI Annual Conference on "Vaccine Research" (Arlington, VA: May 5-7, 2003). Contact: National Foundation for Infectious Diseases, 4733 Bethesda Avenue (Suite 750), Bethesda, MD 20814-5278. Phone: 301/656-0003 (ext. 19); Fax: 301/907-0878; E-mail: vaccine@nfid.org.

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. 217); Fax: 856/423-3420; Internet: <http://www.istm.org>.

XIII European Conference of "Clinical Microbiology and Infectious Diseases" (Glasgow: May 10-13, 2003). 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>. XII Annual Meeting of the NIAID International Centers for Tropical Disease Research Bethesda, MD May 13th-15th, 2003 Contact Mitzi Sereno, NIAID, phone: 301 496 2544, fax 301 402 0659, email serenom@niaid.nih.gov. http://www.icssc.org/training_oppor.htm#12annual

X American Society of Microbiology (ASM) "Undergraduate Education" Conference (College Park, MD: May 16-18, 2003). Contact: Meetings Department, ASM, 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>.

CIII American Society of Microbiology (ASM) Annual Meeting (Washington, DC: May 18-23, 2003). Contact: Meetings Department, ASM, 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>.

International Society for Medical Mycology Annual Meeting (San Antonio: May 25-29, 2003). Contact: IMEDEX. Phone: 770/751-7332; Fax: 770/751-7334; E-mail: isham@imedex.com; Internet: <http://www.isham.org>.

XXX Global Health Council (GHC) Annual Conference on "Our Future on Common Ground: Health and the Environment" (Washington, DC: May 27-30, 2003). Contact: GHC, White River Junction, VT. Phone: 802/649-1340; Fax: 802/649-1396; Internet: <http://www.globalhealth.org>.

Scandinavian Society for Parasitology Symposium (Bergen: June 12-14, 2003). E-mail: arne-skorping@zoo.uib.no; Internet : <http://www.hi.is/pub/ssp/>.

XXXVI Annual Society for Epidemiology Research (SER) Annual Meeting (Atlanta: June 12-14, 2003). Contact: SER, PO Box 990, Clearfield, UT 84098. Phone: 801/525-0231; Fax: 801/774-9211; E-mail: membership@epiresearch.org; Internet: <http://www.epiresearch.org>.

X Annual "Emerging Infectious Diseases" Conference (San Francisco: June 19-21, 2003). Contact: Office of Continuing Medical Education, University of California at San Francisco, Box 0742 (LH-450), San Francisco, CA 94143-0742. Phone: 414/476-4251; Internet: <http://www.cme.ucsf.edu>.

Gordon Research Conference The Epidemiology of Malaria Queens College, Oxford, UK July 6-11, 2003 Applications are invited for attendance at the third Gordon Research Conference on Malaria. The theme of the meeting is the way in which new approaches to the epidemiology of malaria may help malaria control. Areas covered will include surveillance, modeling, HIV interactions, drug resistance and vaccine evaluation. Interna-

tionally recognized experts in the field will present their latest findings. A number of scholarships will be available for participants from malaria endemic countries. Details of the program & how to apply can be found on: <http://www.grc.uri.edu/programs/2003/malaria.htm>

American Society of Microbiology (ASM) Conference on "Bio-, Micro-, and Nanosystems" (New York City: July 7-10, 2003). Contact: ASM Conferences, 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/mtgssrc/conferences.htm>.

II International AIDS Society (IAS) on "HIV Pathogenesis and Treatment" (Paris: July 13-16, 2003). Contact: JCD Conference Secretariat, 4 Villa d'Orleans, 75014 Paris, France. Phone: (33-1)-4064-2000; Fax: (33-1)-4064-2050; E-mail: ias2003@jdconseil.com.

VIII International Workshop on "Opportunistic Protists" (Hilo, HI: July 25-29, 2003). Contact: Edna S. Kaneshiro, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006. Phone: 513/556-9712; Fax: 513/556-5280; E-mail: edna.kaneshiro@uc.edu.

International Conference on "Anaerobic Protists" (Hilo, HI: July 25-29, 2003). Contact: Edna S. Kaneshiro, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006. Phone: 513/556-9712; Fax: 513/556-5280; E-mail: edna.kaneshiro@uc.edu.



American Society of Tropical Medicine and Hygiene
60 Revere Dr., Suite 500
Northbrook, IL 60062
www.astmh.org

LXXIII Annual Meeting of the American Society of Parasitologists (ASP) (Halifax: August 1-5, 2003). Contact: Dr. David Cone, ASP 2003 Meeting, Department of Biology, Saint Mary's University, Halifax, Nova Scotia B3H 3C3, Canada. Phone: 902/420-5644; Fax: 902/491-8620; E-mail: david.cone@stmarys.com.

IV Wilderness Medical Society (WMS) World Congress on "Wilderness Medicine" (Whistler, BC: August 9-13, 2003). Contact: WMS, 3595 East Fountain Boulevard (Suite A-1), Colorado Springs, CO 80910. Phone: 719/572-1372; Fax: 800/967-7494; Internet: <http://www.wms.org>.

Conference on "Malaria: A Global Challenge" (Prague: August 11-14, 2003). Contact: Amphibia, Ltd., Ostra Agatan 51, 75322 Uppsala, Sweden. E-mail: Anthony.binder@amphia.org.

VI American Society for Microbiology (ASM)-European Society of Clinical Microbiology and Infectious Diseases Meeting on "Microbial Epidemiological Markers" (Les Diablerets, Switzerland: August 27-30, 2003). Contact: ASM Conferences, 1752 N Street, NW, Washington, DC 20036-2904. Phone: 202/942-9261; Fax: 202/942-9340; E-mail: conferences@asmusa.org; Internet: <http://www.asmusa.org/conferences.htm>.

XLIII Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) (Chicago: September 14-17, 2003). Contact: Meetings Department, ASM, 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/conferences.htm>.

<p>Non-Profit Postage PAID Northbrook, IL Permit No. 445</p>
