

GLOBAL HEALTH and SECURITY

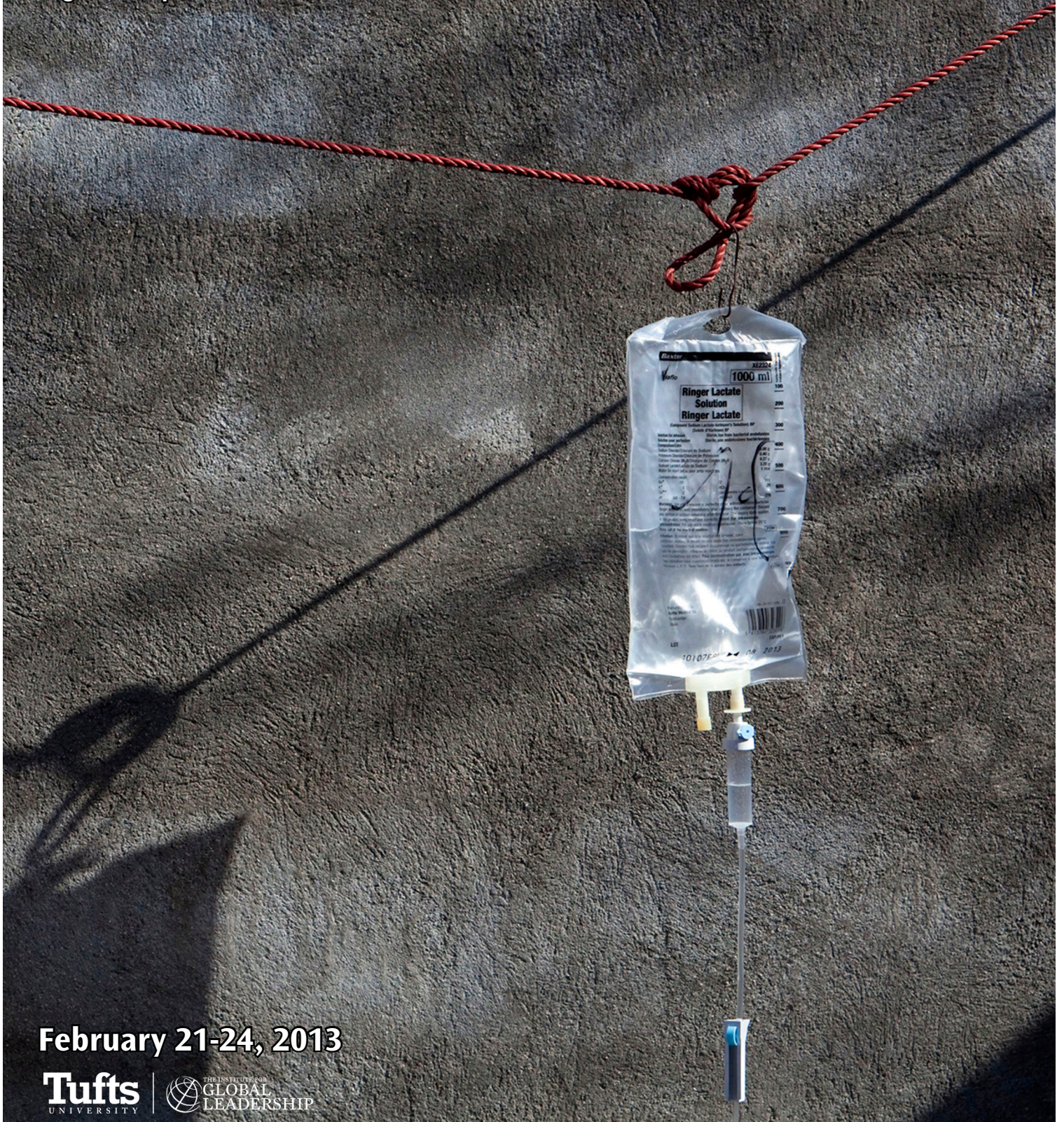
The 28th Annual Norris and Margery Bendetson
EPIIC International Symposium

Second Annual Tufts
Pugwash Chapter Discussion

February 21-24, 2013

Tufts
UNIVERSITY

THE INSTITUTE FOR
GLOBAL
LEADERSHIP



EPIIC

tuftsgloballeadership.org/programs/epiic

EPIIC is an integrated, multidisciplinary program that was founded at Tufts University in 1985. Through its innovative and intensive curricula and projects, EPIIC prepares young people to play active roles in their communities, whether at the local, national or global level. It is student-centered education that promotes the linkage of theory to practice and encourages moral responsibility, lifelong learning, and engaged citizenship. Each year, EPIIC explores a complex global issue that tests and transcends national sovereignty.

Past topics:

1986	International Terrorism
1987	The West Bank and Gaza
1988	Covert Action and Democracy
1988	Foreign Policy Imperatives for the Next Presidency
1989	Drugs, International Security and U.S. Foreign Policy
1990	The Militarization of the Third World
1991	Confronting Political and Social Evil
1992	International Security: The Environmental Dimension
1993	Transformations in the Global Economy
1994	Ethnicity, Religion, and Nationalism
1995	20/20 Visions of the Future: Anticipating the Year 2020
1996	Religion, Politics, and Society
1997	The Future of Democracy
1998	Exodus and Exile: Refugees, Migration and Global Security
1999	Global Crime, Corruption and Accountability
2000	Global Games: Sports, Politics, and Society
2001	Race and Ethnicity
2002	Global Inequities
2003	Sovereignty and Intervention
2004	Dilemmas of Empire and Nationbuilding: The Role of the US in the World
2005	Oil and Water
2006	The Politics of Fear
2007	Global Crises: Governance and Intervention
2008	Global Poverty and Inequality
2009	Cities: Forging an Urban Future
2010	South Asia: Conflict, Culture, Complexity and Change
2011	Our Nuclear Age: Peril and Promise
2012	Conflict in the 21st Century

EPIIC's main components are a yearlong academic colloquium for both undergraduate and graduate students; a global research and internship program; an international symposium; professional workshops; public service initiatives; and Inquiry, a national high school global issues simulation program.

EPIIC is the foundation program of the Institute for Global Leadership (www.tuftsgloballeadership.org).

SYMPOSIUM PROGRAM

Thursday, February 21

Workshop Report: A Response to the Report on Privacy and Progress in Whole Genome Sequencing from the Presidential Commission for the Study of Bioethical Issues

Cabot Auditorium, 7:00pm

Food Insecurity: Hunger, the Environment, and Conflict

Cabot Auditorium, 7:30pm

Jason Clay | Senior Vice President, Market Transformation, World Wildlife Fund
Dr. Jean Mayer Global Citizenship Award Presentation by Alex Zorniger, EPIIC Colloquium Member

Ron Haviv | Photojournalist; Founding Photographer, VII, worked on Starved for Attention series with MSF
introduced by Hadley Green, EPIIC Colloquium

Noel W Solomns | Program Director for Central America, Nevin Scrimshaw International Nutrition Foundation

Beatrice Rogers | Professor, Friedman School of Nutrition Science and Policy, Tufts University

Irwin Rosenberg | Jean Mayer University Professor and Senior Scientist and Interim Director, Neuroscience and Aging Laboratory, Friedman School of Nutrition, Tufts University
Dr. Jean Mayer Global Citizenship Award Presentation by Averi Becque, EPIIC Colloquium Member

Peter Walker | Rosenberg Professor of Nutrition and Human Security and Director of the Feinstein International Center, Friedman School of Nutrition, Tufts University; former Director of Disaster Policy, International Federation of Red Cross and Red Crescent Societies

Moderator | Josh Malkin, EPIIC Colloquium Member

Friday, February 22

Bystanders, Perpetrators and Survivors: A Global Health Perspective on Sexual Violence

Braker 001, 9:30am

Hassa Blake (A'04) | Co-Founder, Focal Point Global

Dimitris Bouras | Photojournalist, Greece, currently working on HIV/AIDS

Samad Sami Khunda | former Dean, Baghdad University Medical School

Jennifer F. Klot | Senior Advisor, Social Science Research Council, and directs initiatives on Gender, Security and HIV/AIDS

Susannah Sirkin | Deputy Director, Physicians for Human Rights

Moderator | Rose Pollard, EPIIC Colloquium Member

The Nexus of Water and Disease

Cabot Auditorium, 12:30pm

Jeffrey Griffiths | Professor of Public Health and Community Medicine, Tufts School of Medicine; Chair, Drinking Water Panel, Environmental Protection Agency

David M. Gute | Associate Professor of Civil and Environmental Engineering, Tufts; former Assistant Commissioner, Massachusetts Department of Public Health

Daniele Lantagne | Assistant Professor of Civil and Environmental Engineering, Tufts University; former Public Health Engineer, Centers for Disease Control and Prevention

Janine M. H. Selendy | Founder, Chairman, President and Publisher, Horizon International, Yale University; Editor, *Water and Sanitation Related Diseases and the Environment: Challenges, Interventions and Preventive Measures*

Student Presentations

- **Village Zero Project** | Maia Majumder, David Meyers, Tara Kola, Sarah Hartman | EPIIC TA and Colloquium Members
- **Engineers Without Borders** | Jesse Cohen, Anthony Lombardi | Tufts Chapter Engineers Without Borders

Moderator | Caroline Patterson, EPIIC Colloquium Member

Student Presentations

Cabot Auditorium, 2:30pm

- **Colombia** | Christine Gregory | EPIIC Colloquium Member
- **Nepal** | Christina Liu, Nishant Mistry | EPIIC Colloquium Member and Global Research Student

Drugs for Survival: The Pharmaceutical Industry

Cabot Auditorium, 2:45pm

Anne Goldfeld | Professor of Medicine, Harvard Medical School; Co-founder, Cambodian and Global Health Committees

Jerome Kassirer | former Editor, New England Journal of Medicine; Professor of Medicine, Tufts University School of Medicine

Rob Labriola | Pharmaceutical Industry; Military Reservist

Karin Mack | Team Lead, Unintentional Drug Deaths, National Center for Injury Prevention, Centers for Disease Control and Prevention

Christopher-Paul Milne | Director of Research, Tufts Center for the Study of Drug Development

Student Presentation

- **China** | Lin Wen | Peking University TILIP Delegation

Moderator | Jahvni Vaidhya, EPIIC Colloquium Member

Symposium Introductions and Keynote

Cabot Auditorium, 6:30pm

Anthony Monaco | President, Tufts University

Sherman Teichman | Founding Director, Institute for Global Leadership

Sarah Hartman | EPIIC Colloquium Member

Lachlan Forrow | Director, Ethics Programs and the Palliative Care Programs, Beth Israel Deaconess Medical Center

Dr. Jean Mayer Global Citizenship Award to Uche Amazigo

accepted by her niece and EPIIC alumna Nnenna Okoye

Alumni Recognition Awards

- Hassa Blake and Hussa Blake

presented by Kira Ambrose, EPIIC Colloquium Member

- Sabina Carlson Robillard

presented by Alice Pang, EPIIC Colloquium Member

- Matt MacGregor

presented by Jack Eidson, EPIIC Colloquium Member

Announcement of Ben Sklaver Student Research Fellowship

Ezra Barzilay, LT Anne Gibbon, Emily Paine

Student Research Presentation

- Kosovo | Allison Jeffery, Alon Slutsky, Shan Zhi Thia, Suyu Zhang | EPIIC Colloquium Members

Keynote Address

Gwythian Prins | Director, Mackinder Programme for the Study of Long Wave Events and Research Professor, London School of Economics

Zoonoses and Pandemics: The Next Big One

Cabot Auditorium, 8:00pm

Hellen Amuguni | Research Assistant Professor, Biomedical Sciences, Cummings School of Veterinary Medicine, Tufts University; Tufts University liaison for the USAID/RESPOND West Congo Basin region

Scott F. Dowell | Director, Division of Global Disease Detection & Emergency Response, Centers for Disease Control and Prevention

Laurie Garrett | Senior Fellow for Global Health, Council on Foreign Relations; Author, *The Coming Plague*

Dr. Jean Mayer Global Citizenship Award Presentation by Elizabeth Keys, EPIIC Colloquium Member

Christos Lynteris | Andrew Mellon & Isaac Newton Interdisciplinary Research Fellow, Centre for Research in the Arts, Social Sciences and Humanities, University of Cambridge,

Kristine Smith | Associate Director of Health and Policy, EcoHealth Alliance

Moderator | Hanna Ehrlich, EPIIC Colloquium Member

Saturday, February 23

A State of Well-Being: Mental Health and Security

Cabot Auditorium, 9:00am

Barbara Lopes Cardozo | Founding Member, Doctors Without Borders – Holland; Psychiatric Epidemiologist, International Emergency and Refugee Health Branch, Centers for Disease Control and Prevention

Justine Hardy | Founder, Healing Kashmir

Elizabeth Herman (A'10) | Photojournalist; documentary project: “A Woman’s War”

Zach Iscol | Executive Director and Chairman, Headstrong Project

Giuseppe Raviola | Director, Program in Global Mental Health and Social Change, Harvard Medical School; Director of Mental Health, Partners In Health

Moderator | Zoe Atlas, EPIIC Colloquium Member

Violence: A Global Public Health Challenge

Cabot Auditorium, 11:00am

Kassim Dauod | former National Security Adviser, Iraq

Ira Helfand | North American Vice-President, International Physicians for the Prevention of Nuclear War

Dr. Jean Mayer Global Citizenship Award Presentation to IPPNW by Brittany Neff, EPIIC Colloquium Member

Gregg Nakano (F'01) | former Development Outreach Coordinator, Center for Disaster and Humanitarian Assistance Medicine, Uniformed Services University of the Health Sciences; former Military Liaison Officer, Office of Foreign Disaster Assistance, USAID

Presentation of Alumni Recognition Award by Safiya Subegdjo, EPIIC Colloquium Member

Merrill Singer | Professor of Anthropology and Public Health, University of Connecticut

Richard Sollom (F'94) | Deputy Director at Physicians for Human Rights

Presentation of Alumni Recognition Award by Rebekah Liebermann, EPIIC Colloquium Member

Karen Volker | Director, Washington, DC Office, Cure Violence

Moderator | Sama Abdul-Aziz, EPIIC Colloquium Member

Student Presentation

Cabot Auditorium, 2:30pm

• **Rwanda** | Maalika Banerjee, Nithyaa Venkataramani | EPIIC Colloquium Members

Biosecurity and Bioterrorism: How Significant a Threat?

Cabot Auditorium, 2:40pm

Hillel W Cohen | Professor of Clinical Epidemiology & Population Health, Albert Einstein College of Medicine, Yeshiva University

Laurie Garrett | Senior Fellow for Global Health, Council on Foreign Relations; Author, *The Coming Plague*

Amb. Bonnie Jenkins | Coordinator for Threat Reduction Program, US Department of State

Dr. Jean Mayer Global Citizenship Award Presentation by Allison Jeffery, EPIIC Colloquium Member

Daphne Moffett | Deputy Director, Health Systems Reconstruction Office, Centers for Disease Control and Prevention

Sam R. Telford III | Professor of Infectious Disease and Global Health, Cummings School of Veterinary Medicine, Tufts University

Moderator | Shan Zhi Thia, EPIIC Colloquium Member

Expert-led Discussion Sessions

Olin and Cabot, 4:30pm

Will include topics such as Health in Post-Earthquake Haiti, Improving Volunteer Efforts in Global Health, Balancing Military Security and Human Security, Medical Boats in North East India, and China and HIV/AIDS -- please see outside tables for sign up sheets and more topics

Health and Human Rights in Complex Humanitarian Emergencies

Cabot Auditorium, 8:00pm

Ezra Barzilay (A'95, M'01) | Lead Epidemiologist, Health Systems Reconstruction Office, Centers for Disease Control and Prevention; Commander, U.S. Public Health Service Commissioned Corps

Presentation of Alumni Recognition Award by Allie Wollum, EPIIC Colloquium Member

Daniel Holmberg (N'12) | Senior Humanitarian Adviser, Sudan, USAID
Brigadier General Yitshak Kreiss | Surgeon General, Israel
Dr. Jean Mayer Global Citizenship Award Presentation by Garrett Friedman, EPIIC Colloquium Member

Jennifer Leaning | Director, FXB Center for Health and Human Rights, Harvard School of Public Health
Dr. Jean Mayer Global Citizenship Award Presentation by Jennifer Straitz, EPIIC Colloquium Member

Richard Sollom (F'94) | Deputy Director at Physicians for Human Rights

Moderator | Stacey Bevan, EPIIC Colloquium Member

Sunday, February 24

Presentation of Dr. Jean Mayer Global Citizenship Award to
Anne Goldfeld | Professor of Medicine, Harvard Medical School; Co-founder, Cambodian and Global Health Committees
Presentation by Lindsay Lebel and Rena Oppenheimer, EPIIC Colloquium Members
Cabot Auditorium, 1:00pm

Health Care Delivery Systems: Bringing Care Where It's Needed Most
Cabot Auditorium, 1:30pm

David Chiriboga | former Minister of Health, Ecuador; former President, Health Council of the Union of South American Nations.

Bhaswati Goswami | Communications Officer and Program Management Unit for boat clinics, Centre for North East Studies

Jean Kagubare | Principal Technical Advisor, Management Sciences for Health; former Director, Health Planning Department, Rwanda

Zheng Xie | Lecturer, Department of Global Health, School of Public Health, Peking University

Student Presentations

- **Cambodia** | Lindsay Lebel, Rena Oppenheimer | EPIIC Colloquium Members
- **Kerala** | Averil Becque, Anna Kanter, Brittany Neff, Emily Paine, Jennifer Sanduski | EPIIC Colloquium Members

Moderator | Jessica Muganza, EPIIC Colloquium Member

New Technologies at the Juncture of Health and Security
Cabot Auditorium, 3:30pm

Alex Harsha | Project Manager, Medic Mobile

Ira M. Herman | Professor and Director, Tufts Center for Innovations in Wound Healing

Livio Valenti | Empedocle Maffia Fellow, Sustainability Science Program, Kennedy School of Government, Harvard University

David Walt | Robinson Professor of Chemistry and Director of the Walt Lab, Tufts University

Moderator | David Meyers, EPIIC Colloquium Member

Participant Biographies

Janetrix Hellen Amuguni

Hellen Amuguni is a Research Assistant Professor in Biomedical Sciences at Cummings School of Veterinary Medicine at Tufts University and is the Tufts University liaison for the USAID/RESPOND West Congo Basin region. Amuguni trained as a veterinarian at the University of Nairobi, Kenya. She went on to earn a Masters degree in International Development with a focus on participatory development and gender from Clark University, and a PhD in Infectious Diseases from Tufts University. Amuguni has worked previously as a veterinarian, community development specialist and gender consultant in the horn of Africa mostly with pastoralist communities. Most of her work involved developing gender sensitive livestock training materials and programs for men and women at grass root level, providing training and capacity building for animal health specialists at both policy and implementation levels and using participatory rural approaches to assist communities form effective alliances, build partnerships and identify solutions to their problems. She has worked and consulted for various organizations including Food for the Hungry International, Heifer Project International, Veterinarians without Borders (VSF-B) under the umbrella of the UN-Operation Lifeline Sudan, SNV Netherlands Development Organization and AU/IBAR.

Ezra Barzilay

Ezra Barzilay is a Commander in the US Public Health Service and the Lead Epidemiologist in the Health Systems Reconstruction Office at the Centers for Disease Control and Prevention. Barzilay received his Bachelor's and Medical degrees from Tufts University, where he was a Schweitzer Fellow at the Tufts School of Medicine and did important work with the deaf community in Boston. He joined the Epidemic Intelligence Service corps at CDC to train in infectious disease epidemiology and is board-certified in pediatrics. After the 2010 earthquake in Haiti, Ezra led the creation of a surveillance system tracking cholera that helped to avoid making it of epidemic proportions. Fluent in seven languages, Barzilay's field experience includes international public health interventions, foodborne outbreak investigations, and serving as a trainer and expert consultant for the World Health Organization. He has mentored and inspired over fifty current EPIIC students in this year's Global Health and Security colloquium as an Institute INSPIRE Fellow, leading the students through a declassified epidemic simulation called "Dark Winter" at their annual Outward Bound excursion, providing unique access to CDC internships and graduate work and helping the EPIIC symposium committee conceptualize and enact their symposium.

Hassanatu Blake

Hassa Blake was born in Limbe, Cameroon, raised in Baltimore, MD, and traveled, studied, lived, and worked with youth in countries such as Namibia, South Africa, Jamaica, Dominica, Zambia, and Germany. Blake is focused on improving global health and has worked with the National Institutes of Health, the Centers for Disease Control and Prevention, and the U.S. Agency for International Development. She holds a Bachelor of Arts from Tufts University and Master of Public Health from Emory University. In 2009, Blake and her sister Hussainatu embarked on a journey to make tough conversations like HIV and child trafficking the norm for all young people. They founded Focal Point Global, a not-for-profit organization that links and educates youth around the world using creative online learning opportunities about global issues and social practices. Addressing the need for global youth-peer education, Focal Point Global delivers global-minded, technological innovated learning to youth in the US, Cameroon, and Namibia, in order to create the ethical leaders of tomorrow. In 2012, Blake was named a White House Champion of Change, part of President Obama's Winning the Future initiative, for her work giving underprivileged youth access to a global education. She was also highlighted as an Innovator by Diplomatic Courier's Top 99 Under 33 Foreign Policy Leaders in 2012.

Hussainatu Blake

Hussa Blake was born in Limbe, Cameroon, raised in Baltimore, Maryland, and traveled, studied, lived, and worked with youth in countries such as Namibia, South Africa, Jamaica, Dominica, Zambia, and Germany. She worked for the International Organization for Migration's (IOM) Counter-Trafficking Department in South Africa, where she aided African immigrants who were trafficked throughout the African continent. She earned a Bachelor's Degree in International Relations and German Studies from Tufts University and her Master's Degree from Middlebury College's Monterey Institute of International Studies, and studied law at Atlanta's John Marshall Law School. In 2009, Blake and her sister Hassa embarked on a journey to make tough conversations like HIV and child trafficking the norm for all young people. They founded Focal Point Global, a not-for-profit organization that links youth around the world to discuss global issues such as HIV/AIDS and child trafficking in their communities. In 2012, Blake was recently named a White House Champion of Change, part of President Obama's Winning the Future initiative, for her work giving underprivileged youth access to a global education. (EPIIC'04)

Dimitris Bouras

Dimitris Bouras is a freelance photojournalist researching and reporting on humanitarian issues, crisis issues, and wars around the globe. He has covered special assignments in Greece, Germany, Turkey, Bulgaria, FYROM, Serbia, Bosnia and Herzegovina, Croatia, Italy, The Netherlands, Cyprus, Egypt, Rwanda, Cambodia, China, Afghanistan and other countries, transferring the human struggle to his images and texts. He contributes as a freelance photojournalist, mainly via Associated Press, and his work published in internationally recognized media. He is involved in photojournalism since 1979 and he holds a PhD in production management. Bouras currently resides in Athens, and his current projects are dealing with drug abuse issues in Greece, homelessness, the current social situation after austerity measures, the war in Afghanistan, the "Arab Spring" by covering extensively Egypt, and issues in Sub Saharan countries. He is an active volunteer in "Positive Voice," an Athens-based NGO working against the spread of HIV.

Barbara Lopes Cardozo

Barbara Lopes Cardozo holds a Medical Degree from the University of Amsterdam, a Master's degree in Public Health from Tulane University, and a specialization in Psychiatry from Louisiana State University. She is one of the founding members of Doctors Without Borders – Holland, winner of the 1999 Nobel Peace Prize. Among the dozens of missions with direct on-the-ground involvement by Lopes Cardozo during a decade with the organization are the Armenian (USSR) Earthquake, Armero (Colombia) Volcano disaster, Peru cholera epidemic, as well as aid to victims of political and military conflict in Somalia, Uganda, Haiti, and Nicaragua. She has worked as medical coordinator for the United Nations High Commissioner for Refugees (UNHCR) in Zaire. Currently, she is a psychiatric epidemiologist at the International Emergency and Refugee Health Branch (IERHB) of the Centers for Disease Control and Prevention (CDC) in Atlanta, focusing on mental health and psychosocial issues in complex humanitarian emergencies. Lopes Cardozo has conducted numerous mental health surveys in war-affected countries and provided emergency technical assistance to UNHCR, WHO and NGO's in Macedonia, Kosovo, Thailand, Pakistan, Afghanistan, Cambodia, Israel, Jordan, and Kuwait/Iraq. She has also conducted mental health studies among

humanitarian aid workers who work in these stressful conditions. Lopes Cardozo is also an Adjunct Assistant Professor in the Hubert Department of Global Health, Rollins School of Public Health, Emory University.

David Chiriboga

David Chiriboga is the former Minister of Health of Ecuador and the former President of the Health Council of the Union of South American Nations (UNASUR). As the Minister of Health, he designed and implemented a healthcare delivery system for indigenous people living in extreme poverty in Central Ecuador from 1988-2001.

Jason Clay

Jason Clay is the World Wildlife Fund's Senior Vice President of Market Transformation. He also manages the WWF Network's private sector advisory board and is the architect of WWF's private sector engagement strategy. He is a leader within WWF, and the NGO community more broadly, on identifying global trends and issues as well as supply chain management. He brings people together to improve environmentally sensitive practices in agriculture and aquaculture. His goal is to create global standards for producing and using raw materials, particularly in terms of carbon and water. He has convened industry roundtables of retailers, buyers, producers and environmentalists to reduce the key impacts of producing soy, cotton, sugarcane, salmon, shrimp, mollusks, catfish and tilapia. Clay has run a family farm, taught at Harvard and Yale, worked at the U.S. Department of Agriculture and spent more than 25 years working with human rights and environmental organizations before joining WWF in 1999. His favorite flavor of ice cream is Ben & Jerry's Rainforest Crunch, which he helped create—with sustainably harvested ingredients—after meeting “Ben” at a fundraiser featuring the Grateful Dead.

Hillel W. Cohen

Hillel Cohen is a Professor in the Department of Epidemiology and Population Health at the Albert Einstein College of Medicine. He graduated from Columbia College and received both his Master's and Doctoral degrees from the Columbia University School of Public Health. He has been an active researcher in the epidemiology of hypertension and cardiovascular disease for over thirty years and is a Fellow of the American Heart Association. With research interests in a variety of clinical and public health areas, he is an author of over 125 peer-reviewed articles. In addition to pursuing several ongoing research projects, Cohen serves as Biostatistician for Einstein's Clinical Research Center, teaches biostatistics in Einstein's Clinical Research Training Program and provides consultation on research methodology for clinician-investigators in cardiology, pediatrics, diabetes, infectious disease and other specialties. He also currently serves as a Co-executive Editor of the American Journal of Hypertension. Cohen was one of the earliest critics of Bioterrorism Preparedness initiatives in the late 1990s. His experience as an epidemiologist and life-long participant in anti-war, civil rights, labor and social justice movements informed the conclusion that the threat of bioterrorism was exaggerated for political reasons and that bioterrorism initiatives were likely to be more harmful than helpful to public health. He actively urged nurses and other health workers and first responders to refuse to participate in the smallpox inoculation campaign launched by the Bush Administration as part of the lead-up to the 2003 invasion of Iraq, and suggested that pre-event inoculations for an eradicated disease constituted an unwarranted and unethical experiment with substantial risks and no benefits. More recently he has written and spoken about public health issues including influenza pandemic, food prices and obesity, and the health impacts of the economic crisis.

Kassim Daoud

A trained microbiologist, Kassim Daoud is the Leader of the Independent Solidarity Bloc in Iraq. He is the former Iraqi Minister of State for National Security Affairs and a former Member of Parliament. He founded the Iraqi Democratic Movement in 1990 to oppose the Saddam Hussein regime. Daoud was the founder and owner of Scientific Clinical Laboratories based in Dubai and a consultant and head of laboratory departments at Al-Qassimi Government Hospital in the United Arab Emirates. He was also the senior microbiologist in the Department of Medical Microbiology at the University College of Cardiff in Wales, United Kingdom.

Scott F. Dowell

Scott F. Dowell, a pediatric infectious disease specialist by training, now focuses his work on global public health as director of the Division of Global Disease Detection and Emergency Response at the Centers for Disease Prevention and Control Center for Global Health (CGH). From 2001 to 2005 he established and directed the International Emerging Infections Program in Thailand, a collaboration between the CDC and the Thai Ministry of Public Health. The program received accolades from the Thai and U.S. governments for its prominent role in responding to the SARS crisis and for its leadership in defining the response to avian influenza A (H5N1) in Southeast Asia. Building on the success in Thailand, Dowell returned to Atlanta to help develop the Global Disease Detection program, now established as CDC's principal means of identifying and containing emerging infections around the world. CDC currently maintains GDD Regional Centers in 10 countries: Bangladesh, China, Egypt, Georgia, Guatemala, India, Kazakhstan, Kenya, South Africa and Thailand. Dowell's infectious disease work has focused on the viral and bacterial causes of respiratory infections, controlling the spread of antimicrobial resistance, and responding to outbreaks of emerging infectious diseases. He has a special interest in the underlying cause of seasonal variation in infectious diseases.

Lachlan Forrow

Lachlan Forrow is a general internist and Director of Ethics and Palliative Care Programs at Boston's Beth Israel Deaconess Medical Center (BIDMC), Associate Professor of Medicine at Harvard Medical School (HMS), and President of The Albert Schweitzer Fellowship. Forrow is a Faculty Associate at the Harvard University Program in Ethics and the Professions, having primary responsibility for providing medical ethics curricula at HMS. He is Director of the Ethics Support Service within BIDMC, and chairs the BIDMC Ethics Advisory Committee. He has served as a member of the Harvard Medical School Human Studies Committee and chaired the Human Studies Committee of Harvard Pilgrim Health Care. Forrow has been active for more than twenty years in International Physicians for the Prevention of Nuclear War (IPPNW), which was honored in 1985 with the Nobel Peace Prize. Forrow has served as the New England Regional Director of IPPNW's U.S. affiliate, Physicians for Social Responsibility (PSR), and as a member of PSR's Board of Directors and Executive Committee. Forrow also served as the Chair of IPPNW's Board of Directors and as its Chief Executive Officer. Currently he serves as the organization's Parliamentarian and helps lead the organization's Abolition 2000 Campaign which seeks a signed global agreement committing the world to the permanent, verifiable, and enforceable elimination of nuclear weapons according to a specified timetable.

Laurie Garrett

Since 2004, Laurie Garrett has been a senior fellow for global health at the Council on Foreign Relations (CFR) in New York. Garrett is the only writer ever to have been awarded all three of the Big “Ps” of journalism: the Peabody, the Polk, and the Pulitzer. Her expertise includes global health systems, chronic and infectious diseases, and bioterrorism. Garrett is the best-selling author of *The Coming Plague: Newly Emerging Diseases in a World Out of Balance* and *Betrayal of Trust: The Collapse of Global Public Health*. She attended graduate school in the Department of Bacteriology and Immunology at University of California, Berkeley, and did laboratory research at Stanford University with Dr. Leonard Herzenberg. During her PhD studies, she started reporting on science news at KPFA, a local radio station. After leaving KPFA, Garrett worked briefly in the California Department of Food and Agriculture, assessing the human health impacts of pesticide use. She then went overseas, living and working in southern Europe and sub-Saharan Africa, freelance reporting for Pacifica Radio, Pacific News Service, BBC Radio, Reuters, Associated Press, and others. In 1980, she joined National Public Radio, working out of the network’s San Francisco and, later, Los Angeles bureaus as a science correspondent. During her NPR years, Ms. Garrett received awards from the National Press Club (Best Consumer Journalism, 1982), the San Francisco Media Alliance (Meritorious Achievement Award in Radio, 1983), and the World Hunger Alliance (First Prize, Radio, 1987). In 1988, Garrett left NPR to join the science writing staff of Newsday. Her Newsday reporting has earned several awards, including the Newsday Publisher’s Award (Best Beat Reporter, 1990), Award of Excellence from the National Association of Black Journalists (for “AIDS in Africa,” 1989), Deadline Club of New York (Best Beat Reporter, 1993), First Place from the Society of Silurians (for “Breast Cancer,” 1994), and the Bob Considine Award of the Overseas Press Club of America (for “AIDS in India,” 1995).

LT Anne Gibbon

Lieutenant Anne Gibbon has served in the US Navy for almost ten years, and has been stationed in Hawaii on the USS REUBEN JAMES, at Naval Special Warfare Development Group, and at the Naval Academy as a Flag Aide and Assistant Director of the Stockdale Center for Ethical Leadership. She has led multiple disruptive projects, including an ethical branding campaign for midshipmen at the Naval Academy to inspire them to make better choices, and designed seminars on leadership and critical thinking for counter terrorism units. While at the Naval Academy, LT Gibbon served as the ALLIES Officer Representative from September 2009 until her departure in January 2012. She helped run the 2009 ALLIES Intellectual Roundtable and SIMULEX and took an ALLIES group of military and civilian students to Uganda in the summer of 2010. Currently, she serves as the Deputy Director for the Commander’s Initiatives Group at the Naval Special Warfare Development Group (NSWDG), opening networks to academia to further professional education and research on counter terrorism strategy.

Anne E. Goldfeld

Anne E. Goldfeld is Professor of Medicine at Harvard Medical School, Professor of Immunology and Infectious Diseases at Harvard School of Public Health, Senior Investigator in the Program in Cellular and Molecular Medicine, Children’s Hospital Boston, Physician in the Division of Infectious Disease at Brigham & Women’s Hospital, and President and Co-Founder of the Global and Cambodian Health Committees. Work in her laboratory has provided groundbreaking insights into the function and regulation of the innate immune system at the molecular level, in particular the transcriptional control of the tumor necrosis factor (TNF) gene. Her work on the pathogenesis of HIV and M. tuberculosis infection has led to the discovery of the first gene associated with TB and regulatory T cells in infectious disease. Dr. Goldfeld’s clinical work in Cambodia has focused on developing approaches of community-based care for TB and HIV while nesting scientific studies in these delivery networks leading to new international standards of care and to fundamental medical discoveries aimed at developing new therapies. More recently, she and her colleagues have turned their attention to combating drug resistant TB and providing access to drugs in Ethiopia by spearheading the initiation of care for drug resistant TB in that country with its ministry of health. Dr. Goldfeld’s humanitarian work has focused on advocacy and bringing care to those in most need. She was at the origin of global efforts to ban landmines making the first call for an international ban on landmines in 1991 in congressional testimony. She provided some of the earliest evidence of gender-based violence against women in situations of war and torture in 1988. She served as medical coordinator at the Site II refugee camp for the American Refugee Committee’s program on the Thai-Cambodian border in 1989 and in 1994 she co-founded the Cambodian Health Committee, which has also been known as the Global Health Committee since 2008. She worked as a doctor in the Mugunga refugee camp in eastern Congo during the aftermath of the Rwandan genocide, and has provided assistance or participated in missions to Albania/Kosovo, Pakistan, Afghanistan, Angola, Swaziland, Dharamsala/Tibet, Guatemala, Bolivia and Peru. In addition to her scientific publications, her writing has appeared in the New York Times, the Washington Post, The Nation, the International Herald Tribune, the Los Angeles Times and the Boston Globe. She is co-author of the book *Beyond Hiroshima*.

Bhaswati Goswami

Bhaswati Goswami is Communications Officer for the Center for Northeast Studies and Policy Research (C-NES), an organization that delivers health services by boat to dispersed and unreachable indigenous communities in Northeast India. She studied at Indraprastha College for Women, Delhi University. As a member of the Program Management Unit for C-NES’ Boat Clinics, she is central to the organization’s collaborative operations in difficult conditions in the field.

Jeffrey Griffiths

Jeffrey Griffiths is a Professor in the Department of Public Health and Community Medicine at the Tufts University School of Medicine, an Adjunct Associate Professor at the Tufts University Friedman School of Nutrition Science and Policy, and an Adjunct Associate Professor at Tufts’ School of Engineering. He is the Director of the Global Nutrition Collaborative Research Support Program (Nutrition CRSP) – Africa and Director of the Global Health, Public Health and Professional Degree Programs at Tufts. He chairs the US Environmental Protection Agency’s Drinking Water Panel and is a member of the EPA’s Science Advisory Board. Griffiths’ research includes: The human, animal, and environmental epidemiology of the emerging pathogen *Cryptosporidium*; Development of an ultrastable measles vaccine for use where there is no refrigeration or during emergencies; and the influence of malnutrition and environmental factors, such as air pollution and heavy metals, on common infectious diseases such as diarrhea and pneumonia. Griffiths has a long interest in waterborne diseases, ranging from research on the biology of the pathogens to their epidemiology and to public policy and regulation.

David M. Gute

David M. Gute is an Associate Professor of Civil and Environmental Engineering at Tufts University. He holds a joint appointment with the Department of Public Health and Community Medicine at the Tufts University School of Medicine as well as at the Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy. He directs a M.S./Ph.D. program in Environmental Health and has served as the Academic Director of the Tufts in Talloires

program located in the Haute Savoie, France. Prior to joining the Tufts faculty, Gute served as an Assistant Commissioner responsible for personal and environmental disease risk factor reductions with the Massachusetts Department of Public Health and as an Epidemiologist with the Rhode Island Department of Health. He has served as a consultant for a number of organizations, including the World Health Organization and Academy Health. He is interested and committed to offering environmental and public health training in a variety of settings, including international venues, having lead and co-directed training programs in Brazil and the Philippines. Gute's research interests are found at the intersection of public health and engineering. Current projects span the identification and control of occupational health risks among immigrant populations in Somerville, Mass. to the primary prevention of urinary schistosomiasis in the eastern region of Ghana.

Justine Hardy

Justine Hardy combines being a commentator with working at the grass roots in two fields: conflict and the psychological damage of violence. As a writer and journalist, Hardy has reported on, and written about, South Asia for twenty-five years. Simultaneously she set up, and continues to run an organization in Kashmir, North India, rehabilitating those suffering from the psychological fallout of conflict. She works as both writer and mental trauma specialist. As a journalist and writer, she is the author of six books, ranging in subject from war to Hindi film. *In the Valley of Mist*, a return to non-fiction and the subject of Kashmir, charts the first twenty years of the conflict there through the prism of Kashmiri family life. Hardy is a director of the NGO in India, Development Research and Action Group, which sets up schools in slum areas of Delhi that have been over-looked by the bigger international agencies. After the earthquake in Kashmir in October 2005, she worked with a local NGO in Kashmir rebuilding homes, schools, and medical centers in some of the worst effected areas. Having completed her training in conflict trauma therapy, Hardy founded Healing Kashmir in 2008, an integrated mental health project addressing the debilitating mental health situation in the region. This project is now expanding rapidly, with a main base in Kashmir's summer capital, Srinagar, outreach centers around the state, a suicide helpline, a primary mental health care program, also across the state, and an internship program. Hardy is an INSPIRE Fellow with the Institute this year.

Alex Harsha

Alex Harsha is a Project Manager for Medic Mobile, which uses technology to improve health care in very challenging settings. She is dedicated to improving access to quality health care for underserved communities globally, and thinks that leveraging mobile technology is an incredible way to do it. Over the past two years, Harsha has piloted PatientView with the Mali Health Organizing Project and provided field support to several other West African projects. Now at Harvard Medical School, she is focused on developing partnerships with faculty and public health organizations working in Boston and around the world.

Ron Haviv

Award-winning photojournalist Ron Haviv has produced images of conflict and humanitarian crises that have made headlines from around the world since the end of the Cold War. A co-founder of the photo agency VII, his work is published by magazines worldwide. Numerous museums and galleries have featured his work, including the Louvre, United Nations, and the Council on Foreign Relations. He has published critically acclaimed collections of his photography: *Blood and Honey: A Balkan War Journal* and *Afghanistan: On the Road to Kabul*. His latest book, *Haiti: January 12, 2010*, documents the aftermath of the earthquake. Haviv has been the central character in three films including National Geographic Explorer's Freelance in a World of Risk that explores the hazards inherent in combat photography. In addition, Haviv has spoken about his work on NPR, NBC Nightly News, The Charlie Rose Show, Good Morning America, ABC World News Tonight and CNN.

Ira Helfand

Ira Helfand has worked for many years as an emergency room physician and now practices internal medicine at an urgent care center in Springfield, MA. He is a Past President of Physicians for Social Responsibility and is currently the North American Vice President of PSR's global federation, the International Physicians for the Prevention of Nuclear War, which was awarded the 1985 Nobel Peace Prize for its efforts to curtail nuclear proliferation.

Elizabeth Herman

Elizabeth Herman is a freelance photographer and researcher currently based in Brooklyn, New York. She recently returned from a year in Bangladesh as a Fulbright Fellow, researching how politics influence the writing of national histories in textbooks. While there, she continued work on a long-term documentary project entitled "A Woman's War," exploring the experiences of female combatants and the impact that war has had on them, both during and after conflict. In addition to Bangladesh, she has completed chapters of the work on female members of the North Vietnamese Army in Hue, Vietnam, female revolutionaries in Cairo, Egypt, and is currently working in the United States on American female veterans of the wars in Afghanistan and Iraq. The work was named a 2011 Finalist of The Aftermath Project, a 2011 Top Finalist of the Fotovisura Spotlight Grant, a 2011 Top Photography Project on Photoshelter, and shortlisted for the 2011 Lucie Foundation Scholarship. Herman was also recently granted the 2012 Tim Hetherington Award to continue the project on women of the Bosnian War this spring. Herman was active in the Institute for Global Leadership's photojournalism program, [EXPOSURE], and now serves on the Alumni Advisory Board of the Institute's Program for Narrative and Documentary Practice, founded and directed by Gary Knight. (EPIIC'08)

Ira Herman

Ira Herman is a Professor and the Director of the Tufts Center for Innovations in Wound Healing Research and the Director of the Program in Cellular and Molecular Physiology at the Sackler School of Graduate Biomedical Sciences at the Tufts University School of Medicine. Herman's research interests are focused upon revealing the molecular and cellular mechanisms regulating shape and motility during vascular morphogenesis and wound healing. He is an internationally-recognized thought leader in cytoskeletal biology, vascular cell biology and the molecular signal transduction pathways controlling the cellular responses to injury, wound healing and tissue regeneration. Herman is a member of the IGL External Advisory Board.

Daniel Holmberg

Daniel Holmberg began his career in humanitarian aid in the South Sudan civil war in the early 1990s with the United Nations. He served with the International Committee of the Red Cross between 1995-97 in the aftermath of the Rwanda genocide and on the front-line in the civil conflicts in Burundi and the Democratic Republic of the Congo. In the early 2000s, he served as a Country Logistics Manager in Iraq, Liberia and Northern Sudan. Daniel was the Country Director in Pakistan for Action Contre la Faim/Action Against Hunger before attending The Fletcher School. He soon will be joining USAID's Office of Foreign Disaster Assistance as the Senior Humanitarian Officer in Sudan. Holmberg is an INSPIRE Fellow at the Institute.

Zach Iscol

Zach Iscol is the Executive Director and Chairman of the Headstrong Project, a non profit partnered with Weill Cornell Medical Center to fund and develop comprehensive mental healthcare programs to treat Iraq and Afghanistan veterans free of cost, stigma, and bureaucracy, and the founder and CEO of Hire Purpose, an early stage technology start-up that uses proprietary analytic tools, online interviews, and employment tests to match entry level and transitioning job seekers, like military veterans, with employers. A combat decorated former Marine officer, Iscol served two tours in Iraq and on other assignments thought Africa, the Middle East, and Central Asia in the infantry and special operations. In 2009, he returned to Fallujah, where he fought in 2004, to make a film documenting the war in Al Anbar province and to confront the decisions he made in combat between protecting his Marines and innocent Iraqi civilians. The film (www.thewesternfrontmovie.com) screened as a work in progress at the Tribeca Film festival and is scheduled for release in 2013

Amb. Bonnie Jenkins

Ambassador Bonnie Jenkins, the State Department Coordinator for Threat Reduction Programs, served as the Chair of the Global Partnership Against the Spread of Weapons and Materials of Mass Destruction in 2012 and will continue her role as U.S. representative to the GP in 2013. She is the Department of State lead on the Nuclear Security Summit, and she coordinates the Department of State's activities related to the four-year effort to secure all vulnerable nuclear material. Ambassador Jenkins coordinates Department of State Cooperative Threat Reduction (CTR) programs and helps to ensure a coordinated approach when promoting these programs internationally. Ambassador Jenkins engages in outreach efforts and regularly briefs United States Combatant Commands about WMD programs in their Area of Responsibility, works closely with relevant international organizations and multilateral initiatives, has focused efforts in countries in Africa and Latin America related to these programs, and works closely with Nongovernmental Organizations engaged in CTR-related activities. Prior to rejoining the U.S. Government, Ambassador Jenkins most recently served as the Program Officer for U.S. Foreign and Security policy at the Ford Foundation. Her grant-making responsibilities sought to strengthen public engagement in U.S. foreign and security policy debate and formulation, promoting support for multilateralism, the peaceful resolution of disputes, and the international rule of law. Prior to joining the Foundation, Ambassador Jenkins served as counsel on the National Commission on Terrorist Attacks upon the United States, more commonly known as the "9-11 Commission." She was the lead Commission staff member on counterterrorism policy in the Office of the Secretary of Defense and on U.S. military plans targeting al Qaeda prior to 9-11. Ambassador Jenkins also served as General Counsel to the U.S. Commission to assess the organization of the Federal Government to combat proliferation of weapons of mass destruction, and as a consultant to the 2000 National Commission on Terrorism. Additionally she worked at the RAND Corporation in their National Security Division. A retired Naval Reserve officer, she completed a year-long deployment to U.S. Central Command (CENTCOM). She has received numerous awards in her time as an officer in the U.S. Naval Reserves.

Jean Kagubare

Jean Kagubare is the lead of the health systems strengthening division and the Global Technical lead for Health Care Financing at the Center for Health Services at Management Sciences for Health (MSH/Cambridge). He provides technical expertise to MSH projects in the areas of health care financing and management with focus on performance based financing, community health insurance and costing of health services, HIV/AIDS, maternal child health, and the health care delivery and governance. Kagubare has more than 25 years of professional experience, which cover clinical activities and public health, especially the planning and management of public health projects and services in developing countries. He has managed various health projects and programs and has held senior managerial positions: he served as the Director of the National HIV/AIDS program (Rwanda), Coordinator of the World Bank Health and Population Project (Rwanda), Director of the National Referral Hospital (Rwanda) and Director of the Health Planning Department (Rwanda). As director of planning (2001) at the Rwanda Ministry of Health, he was involved in setting up performance based financing pilot projects in Rwanda and the scale up of the community health insurance scheme. In 2004, he was a lead consultant for the World Bank study of the PBF pilot projects assessment and was subsequently involved in setting up the national PBF model for Rwanda. He served as an interim permanent secretary of the Country Coordinating Mechanisms (CCM) of the Global Fund in Rwanda (in 2003) and participated in the elaboration of several successful proposals to the Global Fund. Kagubare was the chair of the Management and Economics Department at the School of Public Health in Rwanda, and is a visiting lecturer at the School of Public Health of the Free University of Brussels. As an independent consultant, he conducted more than 30 short-term consultancies for various national and international organizations such as the World Bank, WHO, Global Fund, UNAIDS, USAID, GTZ, Belgian and Suisse Cooperation.

Jerome P. Kassirer

Jerome Kassirer graduated Magna Cum Laude from the University of Buffalo School of Medicine in 1957. He trained in Internal Medicine at Buffalo General Hospital and in Nephrology at the New England Medical Center in Boston. He joined the faculty of the Tufts University School of Medicine in 1961, was named Professor of Medicine in 1974, and was the Sara Murray Jordan Professor of Medicine from 1987 to 1991. From 1971 to 1991, he was Associate Physician-in-Chief of the New England Medical Center and Vice Chairman of the Department of Medicine at the Tufts University School of Medicine. Kassirer served as Editor-in-Chief of the New England Journal of Medicine between 1991 and 1999. He is currently a Distinguished Professor and Senior Assistant to the Dean at Tufts University School of Medicine and Professor Adjunct of Medicine at Case Western Reserve University School of Medicine. He was named Distinguished Alumnus by the School of Medicine and Biomedical Sciences at the University at Buffalo and has received the Distinguished Faculty Award from Tufts University School of Medicine and the Distinguished Service Award of the Alumni Association of Tufts University. In editorials in the New England Journal of Medicine, and in multiple publications since, he has promoted professionalism, ethical scientific conduct, patient involvement in decision-making, appropriate use of firearms, and reliable approaches to the assessment of the quality of health care. His latest book, about financial conflict of interest in medicine, *On The Take: How Medicine's Complicity With Big Business Endangers Your Health*, was published in 2004.

Sarmad Sami Khunda

Sarmad Khunda is Professor Emeritus at Baghdad University in Iraq. He is the former Dean of the Medical College at Baghdad University and was the Chair of the Faculty of Obst-Gyn at Baghdad University Medical College from 1990-2006. His other professional memberships include President of the Iraqi Fertility Society (2006 – present); Chair and Member of the Arab Council of Medical Specializations Obst-Gyn (1965-2009); Member of the Iraqi Council of Medical Specializations Obst-Gyn (1988-2006); Vice President of the Iraqi Society of Obst-Gyn (2005 – present); Vice Chairman of the Iraqi Committee for Medical Accreditation in the Ministry of Higher Education (2006 – present); Member of the Higher Committee for Education Development in Iraq (2010 – present); and Member of the Iraqi Medical Association (1961 – present).

Jennifer F. Klot

Jennifer F. Klot, Senior Advisor, directs the Social Science Research Council's initiatives on Gender, Security and HIV/AIDS. In this capacity, she also provides policy, evaluation and program support to multilateral agencies, foundations, governments and NGOs. She is a founding board member of the International Centre for Gender, Peace and Security, based in Nairobi, Kenya and, at the Council, leads a portfolio of activities on sexual violence and HIV/AIDS. As an advisor to the Joint United Nations Programme on HIV/AIDS, she drafted the UNAIDS and DPKO (2011) non-paper on *The Responsibility of the Security Council in the Maintenance of International Peace and Security: HIV/AIDS and International Peacekeeping Operations*. She was also team leader on gender and research capacity strengthening for the Justice and Security Research Program, a consortium based at the London School of Economics. She co-edited HIV/AIDS, Gender, Human Security and Violence in Southern Africa; *The Fourth Wave: Violence, Gender, Culture & HIV in the 21st Century* (UNESCO, 2009), co-authored the Report of the AIDS, Security and Conflict Initiative (SSRC and Clingendael, 2009) and wrote the first background paper for the Peacebuilding Commission on Gender and Peacebuilding. She is a member of a Scientific Committee of the French National Agency for Research on AIDS and Viral Hepatitis (l'ANRS), a member of the Peer Review Group on Gender equality and Statebuilding of the OECD International Network on Conflict and Fragility, and an editorial board member of Security Dialogue. She is also an Advisory Group Member of Humanity in Action. Prior to joining the Council, Jennifer was Senior Advisor on Governance, Peace and Security at the United Nations Development Fund for Women (now UN Women) where she directed the Independent Expert Assessment on Women, Peace and Security lead by Elisabeth Rehn and Ellen Johnson Sirleaf, and co-authored Graça Machel's book on The Impact of Armed Conflict on Children (Hurst, 2001).

BG Yitshak Kreiss

Brigadier General Yitshak Kreiss is the Surgeon General of the Israel Defense Forces. In 1990 he was awarded a Doctorate of Medicine Degree from the Hebrew University and was commissioned as a Lieutenant in the Israel Defense Forces (IDF) Medical Corps. In 1991, he was assigned to the Paratroopers Brigade where he served as a Battalion and Brigade Surgeon. In 1994, he commanded the Medical Officer Course in the Military Medical Academy of the IDF and in 1995 became the Chief Surgeon of the IDF Special Forces unit. BG Kreiss completed his Internal Medicine residency training at Sheba Medical Center, Tel-Hashomer, Israel in 1999 and was stationed in the Golan Heights, where he served as a Division Surgeon. In 2001, he became the Head of the Healthcare Branch of the IDF Medical Corps. From 2003 to 2006 BG. Kreiss served as the Head of the IDF Southern Medical Command, and in 2006 he was selected as a Wexner Fellow for a year of studies at Harvard University in Boston. From 2007 to 2011 he served as the head of the Planning Department in the Planning Directorate of the IDF General Staff, and in October 2011 he assumed command as the IDF Surgeon General. In 1999, he took part in the IDF Medical Corps Humanitarian Mission to the Kosovo refugees in Macedonia as a commander of a medical unit, and in January 2010 he served as the Israeli field hospital commander in the humanitarian mission to Haiti in the aftermath of the earthquake.

COL Rob Labriola

Col Rob Labriola was commissioned in the Marine Corps through the Platoon Leaders Class program after graduating Millersville University of Pennsylvania in May 1984. He served for ten years active duty, as a Data Systems Officer and broadened in the Military Police field. His assignments were on both US coasts, and included computer programming in a worldwide data center, electronic publishing, electronic document management, and serving as a provost marshal at a Marine Corps Air Station. He was involved in the federal response to the Los Angeles riots and participated in Operation Restore Hope in Somalia. After departing active duty, Col Labriola joined the pharmaceutical industry while being affiliated with the reserves for the past 19 years. His reserve assignments have been in Washington, Massachusetts, North Carolina, Iraq, Europe & Africa and Korea. Col Labriola is presently serving on a joint assignment of the staff at the National Defense University, Washington DC. He is employed by Alexion Pharmaceuticals, Inc. as the director of their Regulatory Operations. Alexion is a biopharmaceutical company focused on serving patients with severe and ultra-rare disorders.

Daniele Lantagne

Daniele Lantagne received her Ph.D. from the London School of Hygiene and Tropical Medicine in 2011. She has worked as a Public Health Engineer at the Centers for Disease Control and Prevention (2003-2010) and as the Program Director of the Ipswich River Watershed Association (1997-2000). She comes to Tufts from a Post-Doctoral Fellowship in Sustainability Science at Harvard's Kennedy School of Government. Since 2000, she has provided technical assistance to, and evaluation of, water treatment programs in more than 40 countries in Africa, Asia, and Central/South America. She is the co-author of the Report of the Independent Panel of Experts on the Cholera Outbreak in Haiti, submitted to the United Nations Secretary General.

Jennifer Leaning

Jennifer Leaning assumed the position of the Director of the Francois-Xavier Bagnaud Center for Health and Human Rights at Harvard University in 2010. An expert in public health rights-based responses to humanitarian crises, Leaning is the FXB Professor of the Practice of Health and Human Rights at the Harvard School of Public Health and Associate Professor of Medicine at Harvard Medical School. Prior to her current appointment, Leaning served as Co-Director of the Harvard Humanitarian Initiative. From 1999 to 2005, Leaning directed the Program on Humanitarian Crises and Human Rights at the FXB Center, during which time she also served as Editor-in-Chief of *Medicine & Global Survival*, an international quarterly. She is Faculty Associate at the Weatherhead Center, the Carr Center for Human Rights Policy, and the Center for International Development at Harvard University. She formerly served on the boards of Physicians for Human Rights (an organization she co-founded), Physicians for Social Responsibility, and Oxfam America. She is Visiting Editor of the British Medical Journal, serves on the editorial board of Health and Human Rights: An International Journal, and is a member of the Board of Syndics at Harvard University Press. She edited a seminal textbook on the topic, *Humanitarian Crises: The Medical and Public Health Response*, published by Harvard University Press in 1999. Leaning has documented human rights abuses and provided medical care and public health services on the ground to refugees in almost every crisis over the last twenty years, including humanitarian emergencies in Afghanistan, Albania, Kosovo, Angola, Darfur, the Middle East, the former Soviet Union, Somalia, and the African Great Lakes region. One of the first to identify the conflict in Darfur as genocide after extensive field investigations, Leaning testified before the International Criminal Court in the Hague, the United States Congress, and the United Nations on the plight of women in humanitarian crises, particularly in the case of Darfur.

Christos Lynteris

Christos Lynteris, Andrew Mellon & Isaac Newton Interdisciplinary Research Fellow, Centre for Research in the Arts, Social Sciences and Humanities (CRASSH), University of Cambridge; Visiting Fellow, Wolfson College, University of Cambridge. He read and lectured social anthropology at the University of St Andrews, Scotland. His research focuses on human-animal relations and the social ecology of plague in Siberia, Mongolia and Manchuria. Combining ethnographic fieldwork and archival research, his work investigates epidemiological allegations of 'native traditional knowledge' of plague in the region.

Matt MacGregor

Matt MacGregor is the Executive Director of Timmy Global Health, a US non-profit that expands access to healthcare and empowers students to tackle global health challenges. TGH works with approximately 35 US universities and hundreds of annual medical professionals to provide direct health-care services to underserved populations in the developing world, while supporting the capacity of partner organizations and inspiring tomorrow's healthcare leaders to fight for global health equity. Prior to joining TGH in 2009, MacGregor worked alongside the Vietnamese Ministry of Agriculture and Rural Development on economic development projects in Hanoi, consulted for Catholic Relief Services (CRS) in Guatemala, and taught courses in government and history at private high schools in Boston and Costa Rica. MacGregor graduated summa cum laude from Tufts ('03) and holds a Master of Arts in Law and Diplomacy from the Fletcher School ('08). He was an Academic All-American on the Tufts Men's Soccer Team, and was the Fletcher School's 2007 recipient of the Robert S Stewart Prize and the 2008 recipient of the Edward Gullion Prize, both for academic excellence. He served as a TA for EPIIC's Global Poverty and Inequality colloquium. He was selected as a 2009 Henry Luce Scholar by the Luce Foundation, a 2010 Hoosier Fellow by the Indiana University Kelley School of Business' Tobias Center for Leadership Excellence, and was included in the *Indianapolis Business Journal's* 2013 "Forty Under 40" list.

Karin Mack

Karin Mack is currently a Senior Behavioral Scientist at the Centers for Disease Controls' Injury Center and is the Acting Team Lead for the Prescription Drug Overdose Prevention team. She is also an Adjunct Assistant Professor in Emory University's Sociology Department. She was co-editor of the 2012 book, *Healthy & Safe Homes: Research Practice Policy*. Mack is an active member of the Injury Control and Emergency Health Services Section of the American Public Health Association.

Christopher-Paul Milne

Christopher-Paul Milne is the Associate Director of the Tufts Center for the Study of Drug Development, which he joined in 1998 as a Senior Research Fellow. His current research interests include: challenges to the R&D of new drugs; innovation capacity in the developing world; incentive programs for pediatric studies, orphan products, and neglected diseases; assessing the impact of regulatory policy; and, tracking progress of new safety and science initiatives. He is currently a member of the Editorial Board of the *Food & Drug Law Journal* and the Executive Program Committee for the Drug Information Association 2010 Annual Meeting, as well as an Honorary Fellow at the University of Edinburgh.

Daphne Moffett

Daphne B. Moffett is a Commander in the US Public Health Service and the Deputy Director of the Health Systems Reconstruction Office of the Centers for Disease Control and Prevention (CDC). CDR Moffett is the previous Chairman of the Board of Directors for the Commissioned Officers Association and serves on several committees across the PHS, the agency, and her discipline, including co-chairing the CDC/ATSDR Associate Directors for Science Development Workgroup, membership in the Society of Toxicology, and as the Historian for the USPHS Scientist Professional Advisory Committee. CDR Moffett serves on editorial review boards, grant review panels and has taught environmental public health courses in the US and internationally. She has published book chapters and manuscripts in the areas of toxicology, environmental health, injury prevention and HIV. She has been recognized by the agency for her expertise on chemical weapons of mass destruction and industrial chemicals and has served as an on-call expert during national events. She deployed to Haiti in 2010 to serve as the agency expert in environmental health, sanitation, and toxicology.

Gregg Nakano

Gregg Nakano is an independent consultant focused on water insecurity in coastal communities and helping the US Army Public Health Command (USAPHC) implement their Veterinarian Support to Stability Operations Course (VSSOC). He is a former Program Development Officer for the Henry M. Jackson Foundation, where he lectured at the Uniformed Services University of Health Sciences (USUHS) and Kofi Annan International Peacekeeping Training Center (KAIPCT), as well as assisted the Center for Disaster and Humanitarian Assistance Medicine (CDHAM) develop a language and cross-cultural curriculum for military health providers supporting stability operations in Iraq and Afghanistan. Between 2007-2008, Nakano was an INSPIRE Fellow at the Institute for Global Leadership (IGL), where he helped refocus the Alliance Linking Leaders in Education and the Services (ALLIES) priorities to include interagency coordination and stability operations. Nakano also laid the groundwork for ALLIES' first Intellectual Roundtable, Simulation Exercise (SIMULEX), and supported the Joint Research Project to Jordan in 2008. He has helped the Department of Defense improve interagency coordination during military health support for stability operations; deployed as a civil-military coordinator to Iran, Iraq, Indonesia, Philippines, Guatemala and Cuba in support of the United States Agency for International Development's Office of Foreign Disaster Assistance (USAID/OFDA); co-developed the Organization of Security and Cooperation in Europe (OSCE) "green border" pilot training program for Afghan Border Police in Tajikistan; and served as a Marine in the first Gulf War and the Rodney King riots. His academic background includes the United States Naval Academy, the Fletcher School of Law and Diplomacy, Fudan University in China, and the University of Tehran in Iran. Nakano continues to be a mentor to the ALLIES program in its mission of civil-military education.

Elena Naumova

Elena Naumova is the Associate Dean for Research and a Professor of Civil and Environmental Engineering in the Tufts University School of Engineering. She is also an Adjunct Professor at the Christian Medical College in Vellore, India. Naumova's area of expertise is in methodology development for modeling of transient processes with application in environmental epidemiology, infectious diseases, and public health. Her research on developing innovative analytical and computational tools for monitoring environmentally-driven infections and longitudinal studies of growth is funded by NIAID, NIEHS, and EPA. She is a Director of the Tufts Initiative for Forecasting and Modeling of Infectious Diseases (InForMID). She facilitates utilization of novel data sources, including remote sensing data and satellite imagery, for better understanding the nature and etiology of diseases on local and global scales. She applied her theoretical work to studies of infections sensitive to climate variations and extreme weather events. Her research activities span a broad range of research programs in emerging and re-emerging diseases, environmental epidemiology, molecular biology and immunogenetics, nutrition and growth. Naumova is participating in a number of international projects collaborating with epidemiologists, immunologists, and public health professionals in India, Kenya, Ecuador, Japan, Canada, the UK, and Russia.

Gwythian Prins

Professor Gwythian Prins is Research Professor at the London School of Economics & Political Science and the director of the LSE Mackinder Programme for the Study of Long Wave Events. He is also Visiting Professor of War Studies in the Humanities Research Institute at the University of Buckingham.

In his academic career, he joined LSE in 2000 successively as Professorial Research Fellow and then (2002-7) took the first stint as the first Alliance Research Professor jointly at LSE and Columbia University, New York. For over twenty years he was a Fellow, Tutor and the Director of Studies in History at Emmanuel College, Cambridge. He first published in African and imperial cultural and political history, including medical history and the social history of epidemiology. His book on 19th century Buluzi (*The Hidden Hippopotamus*) won the 1980 Herskovits Prize of the African Studies Association for the best book published on Africa that year. His work in medical anthropology at that time was mainly on pluralistic medical systems and on the epidemiology of TB. Therefore he has followed AIDS since before the beginning and latterly he has published in this area for UNAIDS, jointly with Professor Tony Barnett, *AIDS & Security: Fact, Fiction and Evidence*. He is currently co-authoring a book comparing fieldwork experiences in southern Africa, thirty years apart at each end of the great transformations of the region. In his public service career during the later 1990s he served as Senior Fellow in the Office of the Special Adviser on Central and Eastern European Affairs, Office of the Secretary-General of NATO, Brussels. Simultaneously he was Senior Research Fellow at the Royal Institute of International Affairs, Chatham House, and served as the Visiting Senior Fellow in the (former) Defence Evaluation and Research Agency of the UK Ministry of Defence, Farnborough. He was Consultant on Security at the Hadley Centre for Climate Prediction and Research of the British Meteorological Office for four years. After the Velvet Revolution, he advised (unsuccessfully) the federal Czechoslovak government on energy and environmental policy in Prague. He was a foreign assessor of the US National Intelligence Council's outlook studies and (until discontinued in November 2002) briefed senior Pentagon officials and flag officers. He is currently a senior academic adviser to the Defence Academy of the United Kingdom and is a member of the Chief of the Defence Staff's Strategy Advisory Panel. Prins is a Mayer Global Citizenship Award Recipient and an EPIIC Iron Man.

Giuseppe J. Raviola

Giuseppe J. Raviola, a board-certified adult and child/adolescent psychiatrist, is an instructor in psychiatry and in global health and social medicine at Harvard Medical School and the medical director of the Psychiatry Quality Program in the Department of Psychiatry at Children's Hospital Boston (CHB). In his role at CHB, he provides oversight of the Department's patient safety, quality, and outcomes initiatives, and works with various departmental services to assess and improve the quality of patient care provided. This work provides grounding for his roles in global health as the director of the Program in Global Mental Health and Social Change (PGMHSC) in the Department of Global Health and Social Medicine at HMS, and as the director of Mental Health for Partners In Health (PIH). In the Department of Global Health and Social Medicine, Raviola works to advance efforts related both to training and education, and research, promoting excellence in global mental health care delivery in the countries with which the program partners and at Harvard Medical School. In his role with PIH, he works to integrate mental health services into the care provided at PIH sites, supporting local team leaders in Haiti, Rwanda and elsewhere on issues related to mental health care delivery. To that end, he oversees clinical, training, and research efforts relating to mental health in collaboration with in-country colleagues. Raviola is also co-director of medical student education in psychiatry at CHB, and maintains a clinical practice in the community for children, adults, and families.

Louino Robillard

Louino Robillard was born in rural, northern Haiti but was raised in the infamous slum of Cite Soleil. He managed to complete primary and secondary schooling despite the significant violence at the time, and was beginning his studies in linguistics when the earthquake of January 12, 2010 struck Haiti. He decided to re-dedicate his life to community service and social change and learned to be a mapper using the OpenStreetMap platform to map earthquake damage, and later began to work for the International Organization on Migration (IOM). At the same time, he was one of the founding members of a social movement in Cite Soleil called Konbit Soley Leve, which works to bring warring neighborhoods together through community action. He is now a master's candidate in Community Change and Peacebuilding with the Future Generations Graduate School and is working on a nation-wide "success mapping" project with Future Generations Haiti.

Sabina Carlson Robillard

Sabina Carlson Robillard graduated Tufts in 2010 with a degree in Community Health and Peace and Justice Studies. She was involved in the IGL community throughout all four years of undergraduate studies; in lieu of taking the Global Poverty and Equality EPIIC class, the IGL encouraged Robillard to embark on an independent study that would lead to her co-founding a community-driven research program in rural, northern Haiti called RESPE Ayiti. She led the first undergraduate trip to Haiti since the coup d'etat in 2004, and Robillard and her co-founders were awarded a Davis Project for Peace Prize in 2010. She took a leave of absence from Tufts in 2009 for an internship supporting nutritional and agricultural pilot programs with the Ministry of Agriculture of the Government of Southern Sudan and was seconded to UNHCR to pilot an agriculture project in the Lasu refugee camp. Robillard was a core member of the Ushahidi Haiti deployment at Tufts University, heading up diaspora outreach and being deployed to the field to coordinate services with displaced persons. She moved back to Haiti immediately after graduation, and settled in Cite Soleil, normally labeled a "red zone" or off-limits for security reasons. There she helped support community-based social movements for peace between warring neighborhoods. She became the youngest Program Officer at the International Organization for Migration in Port au Prince, supervising programs for Disaster Risk Reduction and communications in IDP camps, and left to work more closely with community initiatives in Cite Soleil. Robillard is currently a master's candidate in Community Change and Peacebuilding with the Future Generations Graduate School; she and her husband Louino Robillard are leading an initiative called Wozo Ayiti to map and network successful community-led development across Haiti.

Beatrice Rogers

Beatrice Rogers has been a Professor of Economics and Food Policy at the Gerald J. and Dorothy R. Friedman School of Nutrition Science and Policy of Tufts University since 1982. From 2008 to 2010, she was the Friedman School's Director of Food Policy and Applied Nutrition Program and from 1993 to 2005, its Dean for Academic Affairs. She earned her Ph.D. at the Florence Heller School for Advanced Studies in Social Welfare at Brandeis University in 1978, where her doctoral thesis evaluated the nutritional and economic effects of consumer food price subsidies in Pakistan. Her research interests include the determinants of malnutrition in less developed countries; food consumption and nutrition effects of economic and agricultural policies; determinants of intrahousehold allocation of resources and roles; consumer food price policies; and programmatic uses of food aid.

Irwin Rosenberg

Irwin Rosenberg, the Jean Mayer University Professor of Nutrition at Tufts University, earned his M.D. at Harvard Medical School in 1959. Dr. Rosenberg has been on the International Nutrition Foundation Board since 1988. He succeeded Nevin Scrimshaw, founding editor of the *Food and Nutrition Bulletin*, as Editor-in-Chief in 1998. Throughout his career, Rosenberg has participated in many national and international nutrition policy efforts. He was Chair of the Food and Nutrition Board and was elected to the Institute of Medicine in 1994. Since joining Tufts, Rosenberg served as Dean of the

Friedman School for nine years and Director of the USDA Human Nutrition Research Center on Aging (HNRC) for 15 years. Currently, in addition to his role with the FNB, Rosenberg directs the Nutrition and Neurocognition Laboratory at the HNRC. Rosenberg's research interests include nutrition and aging; folate and micronutrient malnutrition as a global problem; relationship between homocysteine, B vitamin nutrition, vascular disease and age-related cognitive decline.

Janine Selendy

Janine Selendy is Founder, Chairman, President and Publisher of Horizon International, a non-profit organization based at Yale University which works to find and advance solutions to the interrelated concerns of global health, environment and poverty. She is Principal Editor and Publisher of the Horizon Solutions Site, a collaborative program developed by Horizon International with UNDP, UNEP, UNFPA, UNICEF, the IDRC, Yale University and Horizon's colleagues at Harvard. She is also Publisher and Editor of Horizon's oceans and coral reefs program web site. She is Editor of *Water and Sanitation Related Diseases and the Environment: Challenges, Interventions and Preventive Measures*, written by 59 experts and accompanied by four hours of multimedia DVDs. Selendy is Executive Producer of more than 20 Horizon International television documentaries co-produced by Swedish, German, China and Mexican TV stations, among others.

Merrill Singer

Merrill Singer is a Senior Research Scientist with the Center for Health, Intervention, and Prevention and Professor of Anthropology at the University of Connecticut. A medical anthropologist, he focuses on structural and biosocial factors in health, drug use and HIV/AIDS, global warming and health, disease interactions, and the elimination of health disparities. In addition to CHIP, he is affiliated with the Institut Interuniversitaire de Recherche (Haiti), the Global Health Research Center of Central Asia (Columbia University), and the Center for Interdisciplinary Research on AIDS (Yale), and is the former Director of the Center for Community Health Research at the Hispanic Health Council (HHC) in Hartford, CT. He has been the PI/Co-PI on a series of basic and applied federally funded drinking, drug use, and AIDS prevention studies and related health research dating to 1984. Singer has published over 220 articles and chapters in health and social science journals and books and has authored or edited 24 books. He is the recipient of the Rudolph Virchow Prize, the AIDS and Anthropology Paper Prize, the George Foster Memorial Award in Practicing Anthropology from the Society for Medical Anthropology, and the Prize for Distinguished Achievement in Critical Study from the Society for the Anthropology of North America. He is the author of "Desperate Measures: A Syndemic Approach to the Anthropology of Health in a Violent City" and *Dugging the Poor: Legal and Illegal Drug Industries and the Structuring of Social Inequality*. He is the Coeditor of *The War Machine and Global Health*.

Susannah Sirkin

In her role as Director of International Policy and Partnerships and Senior Advisor at Physicians for Human Rights, Susannah Sirkin oversees PHR's international policy engagement, including work with the United Nations, domestic and international justice systems and human rights coalitions. Sirkin is also responsible for managing and multiplying PHR's strategic partnerships globally, expanding volunteers from the medical and scientific community, and increasing partnerships with NGOs, medical institutions, and other relationships that can enhance PHR's effectiveness and grow the field of human rights activists. Sirkin joined PHR's staff in 1987 shortly after its founding. She serves as a senior advisor across all areas and in particular, PHR's work to stop sexual violence in conflict zones – an initiative she created in 2011. Sirkin has organized health and human rights investigations for PHR in dozens of countries, including documentation of genocide and systematic rape in Darfur, Sudan; exhumations of mass graves in the former Yugoslavia and Rwanda for the International Criminal Tribunals; investigations into consequences of human rights abuses and violations of international humanitarian law in Afghanistan, El Salvador, Haiti, India, Iraq, Israel/Palestine, Kosovo, Kuwait, Somalia, Turkey, and the US among others. She has worked on studies of sexual violence in Bosnia, Chad, Sierra Leone, and Thailand. She has authored and edited numerous reports and articles on the medical consequences of human rights violations, physical evidence of human rights abuses, and physician complicity in violations. Sirkin served as PHR's representative on the Steering Committee of the International Campaign to Ban Landmines from 1992-1997, a campaign for which PHR shared in the 1997 Nobel Prize for Peace. Sirkin is Mayer Global Citizenship Award Recipient.

Kristine Smith

Kristine Smith is a veterinarian and a board certified specialist in zoo and wildlife health. As the Associate Director of Health and Policy at EcoHealth Alliance, Smith focuses on issues surrounding wildlife disease and human health as well as issues surrounding the global wildlife trade. Smith considers the 'big picture' to be the health of the planet as a whole, with no one component or disease acting without significant impact on another. She works to align policy with science, finding solutions for conservation and health that are productive, economically sound, and beneficial - all necessary components for sustainability. Prior to joining EcoHealth Alliance, Smith worked for the wild bird Global Avian Influenza Network for Surveillance (GAINS) project as a Field Veterinarian investigating H5N1 avian influenza in Central and Southeast Asia, Africa, and the Americas. She then served as Assistant Director for Field Programs with the Wildlife Conservation Society's Global Health Program, where she coordinated wildlife disease investigations across the globe. She obtained her Doctor of Veterinary Medicine degree from Tufts University School of Veterinary Medicine. She trained across a wide range of animal health organizations in Africa, Australia, and the Americas. She has coordinated several collaborative studies and workshops with the Centers for Disease Control and Prevention, US Department of Agriculture, Food and Agriculture Organization, and World Health Organization.

Richard Sollom

In his role as Director of Emergencies and Special Initiatives at Physicians for Human Rights, Richard Sollom leads human rights investigations to document and expose grave emergency and emerging human rights situations globally. He oversees the design and safe and ethical conduct of PHR's research work related to the investigation and documentation of war crimes and mass atrocities. In addition to emergency situations, Sollom also oversees research, investigations and advocacy on violations of medical neutrality and the systematic discrimination in the delivery or access to health care. He most recently led investigations in Bahrain, Burma, Libya, and Zimbabwe. He oversees a team of staff, consultants, and volunteers. With more than a decade of field experience, Sollom has investigated human rights violations in more than 20 countries worldwide. Prior to his work with PHR, he served with the United Nations in Haiti, Somalia, and Burundi. He is a former Peace Corps Volunteer, Fulbright Fellow, and Albert Schweitzer Fellow, and holds advanced degrees in Public International Law from The Fletcher School and in Global Health from Harvard University. (EPIIC'94)

Noel W. Solomons

Noel W. Solomons is the Program Director for Central America at the Nevin Scrimshaw International Nutrition Foundation (INF). He received his B.A. in Biochemical Sciences from Harvard College in 1966, and his M.D. from Harvard Medical School in 1970. The third year of his Chicago-based fellowship

training was spent at the Institute of Nutrition of Central America and Panama (INCAP), and he has been residing part- or full-time in Guatemala since 1975. After serving as an Affiliated Investigator at INCAP (1975-1985) and a faculty member of the Department of Nutrition and Food Science of the Massachusetts Institute of Technology (1977-1984), he co-founded the Center for Studies of Sensory Impairment, Aging and Metabolism (CeSSIAM) in 1985. He continues as Senior Scientist and Scientific Director of this INF-affiliated biomedical research unit in Guatemala City.

Sam R. Telford III

Sam Telford is a Professor in the Department of Infectious Disease and Global Health Infectious Diseases at the Tufts University Cummings School of Veterinary Medicine. Trained in tropical infections, Telford is an ecologist who brings a new perspective to the study of infectious disease. Rather than looking at one agent for one disease, as is taught in many clinical settings, Telford investigates the entire microbial assemblage that is present at the site of infection. He received his MS in tropical public health in 1987 and his ScD in parasitology in 1990 at Harvard University. He did research and lectured at Harvard School of Public Health for the next ten plus years before coming to Tufts. His initial interest in the ecology of Lyme disease has broadened to include that of other tick-borne infections, such as babesiosis, ehrlichiosis, deer tick virus, and tularemia. His current research and clinical interests include biosafety and biocontainment, arbovirology, wildlife parasitology, and tropical medicine and diagnostic parasitology.

Livio Valenti

Livio Valenti is an Empedocle Maffia Fellow and a candidate for a Master in Public Policy at Harvard's Kennedy School of Government. He is working to sustainably commercialize innovative biotechnological solutions to increase vaccine access in rural area of the world. His team's project, Vaxess Technologies, a Tufts University platform, is an effort to sustainably commercialize a technology that stabilizes vaccines in a silk matrix so they can be stored and shipped around the world without refrigeration. The team is the recipient of first prize in the Harvard President's Challenge for social entrepreneurship and the Harvard Business Plan Contest-Business Venture Track. Valenti is contributing to collaborative work with the Initiative on Innovation and Access to Technologies for Sustainable Development led by William Clark. He worked for the United Nations in developing countries, advising government clients and international financing institutions in the identification, appraisal and financing of large investment projects. He also backstopped a diversified portfolio of rural development and economic and social development projects. One of these projects was related to sericulture development to achieve local economic development and diversification of rural income for farmers in Cambodia.

Karen Volker

Karen Volker is the Director of Cure Violence's Washington, DC office. Cure Violence is an NGO that treats violence as an infectious epidemic. She brings to this job 25 years of experience in foreign policy and managing foreign assistance programs with a particular focus on supporting civil society organizations in the Balkans, Central Europe, the former Soviet Union, and the Middle East. Prior to independent consulting, she worked in the US Department of State as Chief of Staff to the Special Coordinator for Middle East Transitions, Director of the Middle East Partnership Initiative, and Director of Interagency Policy and Coordination in the Office of the Under Secretary for Public Diplomacy and Public Affairs.

Peter Walker

Peter Walker is the Director of the Feinstein International Center and Rosenberg Professor of Nutrition and Human Security at the Tufts Friedman School of Nutrition Science and Policy. Director of the Center since September 2002 and active in development and disaster response since 1979, he has worked for a number of British-based NGOs and environmental organizations in several African countries, as well as having been a university lecturer and director of a food wholesaling company. Walker joined the International Federation of Red Cross and Red Crescent Societies in Geneva in 1990, where he was Director of Disaster Policy for ten years before moving to Bangkok as Head of the Federation's regional programs for Southeast Asia. He has traveled extensively in the Middle East, Africa, Eastern Europe and the Former Soviet Union, and has published widely on subjects as diverse as the development of indigenous knowledge and famine early warning systems, to the role of military forces in disaster relief. He was the founder and manager of the *World Disasters Report* and played a key role in initiating and developing both the Code of Conduct for disaster workers and the Sphere humanitarian standards.

David Walt

David Walt is the Robinson Professor of Chemistry and the Howard Hughes Medical Institute Professor at Tufts University, as well as an Adjunct Professor of Biomedical Engineering. He is one of the founders of Illumina, Inc and has been a director and Chairman of its Scientific Advisory Board since June 1998. Walt is a Member of the National Academy of Engineering, a Fellow of the American Institute of Medical and Biological Engineers, and a Fellow of the American Association for the Advancement of Science. He has published over 200 papers and is named as an inventor or co-inventor of over 40 patents, many of which are directed to micro-array products. He also serves as a board member for Quanterix, Inc., a privately-held company focused on single molecule analysis for clinical diagnostics.

Zheng Xie

Zheng Xie has more than ten years of experience conducting sociological research in public health in China and Africa. As a lecturer at Department of Global Health, School of Public Health, Peking University, Xie has focused her research on global health governance and health system research. She has been involved in several research projects funded by China Ministry of Health, Ministry of Education, the China Medical Board, EU, DFID and other funding agencies. Xie also teaches undergraduate and graduate students in social medicine and research methodologies, drawing upon her extensive theoretical training and practical experience in this area. She attended the 65th World Health Assembly as an external consultant to the Chinese Delegation. Xie collaborated with Professor Yan Guo, a member of World Health Organization's Commission of Social Determinants of Health, and with Guo contributed to the Commission's final report. Xie is accompanying the Peking University TILIP delegation.

Visiting TILIP Delegations

As part of its commitment to the Clinton Global Initiative, the Institute for Global Leadership invited delegations from different countries to participate in the international symposium. As part of the Institute's ALLIES (Alliance Linking Leaders in Education and the Services) program, EPIIC has also invited students from the United States Naval Academy, the United States Air Force Academy, and the United States Military Academy to participate. We are delighted to welcome the 53 international students and 31 cadets and midshipmen below to this year's EPIIC symposium.

We also would like to thank the many individuals who made this possible, including Robert and JoAnn Bendetson, Alexander Abashkin, Shahla Al Kli, Firyal Aziz, Mario Becker, Daniel Lee Yong Boon, CDR Arthur Gibb, MAJ Jim Golby, Zuhair Humadi, MAJ Jeff Jackson, GEN Innocent Kabandana, Seth Karamage, Hye Yoon Kim, Sunny Kim, Gabriel Koehler-Derrick, Mila Korotkova, Celine Mukamurenzi, Mor Pelz, Itzak Ravid, Jill Rutaremara, Gitit Sagiv, Deana Weinrich, Rebecca Weistuch.

Brazil

Guilherme Dayrell De Souza E Silva

China

Peking University

Yuxi Li , Jiawen Liao, Wen Lin, Hui Qu, Ni Yang, Chen Wei, Zhang Zhang, Shuqiao Sun, Xiaoling Hu, Ming Lei

Gaza/Palestine

Saja Abu Sultan, Deema El Sousi, Asmaa Abumuamar, Majd Al Wahaidi

Iraq

Saba Dhia Al-deen, Ain Adnan Alhafidh, Hajer Mahdi Dahham, Rifqa Kamil Faisal
Ali Hayder Ahmed Farajallah, Ali Haydar Hashim Alshalah, Luay Amer Saleem Alnir

Iraqi Kurdistan

Wshyar Sadraldeen Haris, Yasir Abdulrazzaq Neamat

Israel

Haifa University

Rinat Trachtenberg, Shirley Youseri, Natalie Azoulay, Hana Kharman, Mor Alus, Asia Kogan, Ester Cohen

IDF

Dimitry Fiterman, Ludmila Zukin, Oded Hershkovich
Amiram Shovali, Michael Lifshitz, Shani Kesari

Russia

The Russian Presidential Academy of National Economy and Public Administration

Evgeniya Chervets, Ekaterina Komkova, Anna Korotkikh, Ksenia Lutsenko, Sofya Shkolnik, Evgeniia Grushko, Georgy Katsitadze

Rwanda

Kalisa Egide, Ismael Musasizi, Dinah Mutesi

Singapore

Singapore National University

Natalie Si Hui Chia, Ankit Gupta

South Korea

Seoul National University

Hyeontae Kim, Jean Ung Kim, Eunjoo An, Seungeon Yeo

United States Air Force Academy

Kristi Tanaka, Steven Dahl, Melanie Daugherty, Andrew Dane, Joe Cole, Joe Abakunda
Will Stover, Steven Shea, Jase Reyneveld, Dan S. Jones, Anthony Emtman

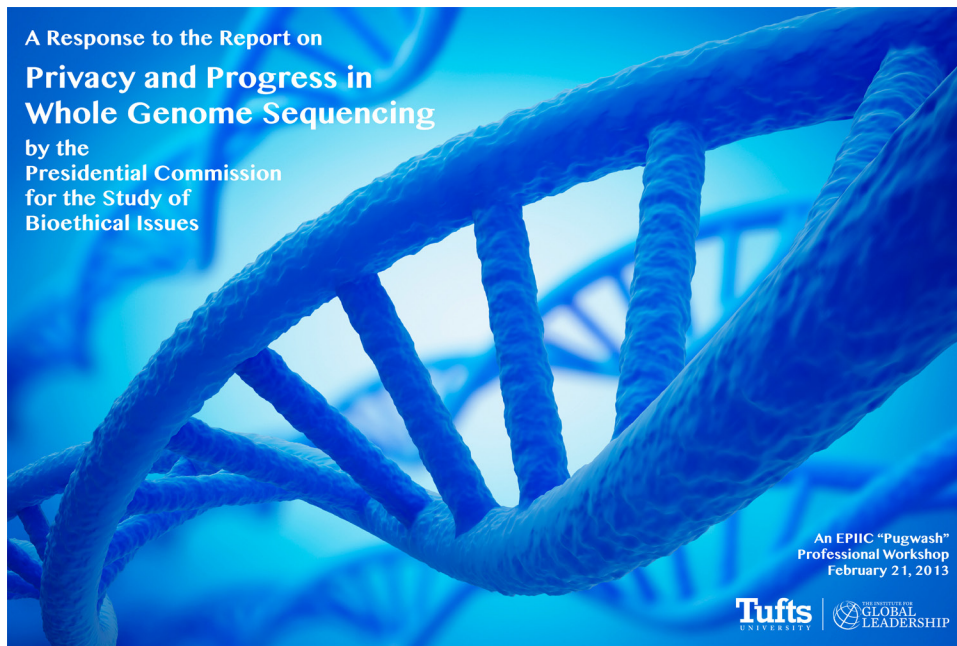
United States Military Academy

Colin Mansfield, Chris Kelly, Kelly Washington, Alain Kirenga, T.S. Allen

United States Naval Academy

Joe Gallagher, Kevin Flaherty, Eric Davids, Akheel Patel, Bill Hegarty, John Mackovjak, Eamonn Mccarey, Drew Calcagno,
Jeffrey Pearson, Garland Christopher, Chris Giraldi, Shannon Cuthbert, Brianna Valladares, Lauren Hickey, Annienorah Beveridge

The Second Annual EPIIC “Pugwash” Professional Workshop



- 9:00 AM Welcome and Introductions
- Tufts University Provost and Senior Vice President David R Harris
Co-Conveners Jonathan Moreno and Juan Enriquez
Institute for Global Leadership Founding Director Sherman Teichman
- 9:15 AM Summary of the Presidential Commission Report
- Kayte Spector-Bagdady, Associate Director, Presidential Commission for the Study of Bioethical Issues
- 10:00 AM Overview: Program, Promise and Ethical Concerns
- Co-Conveners Dr. Jonathan Moreno and Mr. Juan Enriquez
- 10:30 AM The Progress and Promise of Whole-Genome Sequencing
- Jason Bobe, Executive Director, PersonalGenomes.org
- Juan Enriquez, Managing Director, Excel Venture Management
- Robert Green, Brigham and Women’s Hospital Research Institute Division of Genetics
- Jamie Heywood, Founder ALS Therapy Development Institute
- Christian Macedonia, Program Manager, Defense Sciences Office, US Department of Defense
- Nancy Wexler, Higgins Professor of Neuropsychology, Columbia University School of Medicine
- 1:00 PM Ethical Genomics: Ensuring Privacy and Preventing Abuse
- George Annas, Professor of Medicine and Law, Boston University
- Melissa A. Gymrek, PhD candidate, Whitehead Institute, MIT
- Debra Matthews, Asst Director, Science Programs, Berman Institute of Bioethics, Johns Hopkins University

Jonathan Moreno, Professor of Medical Ethics and the History and Sociology of Science,
University of Pennsylvania

Michael Rugnetta, former Research Assistant, Progressive Bioethics Initiative, Center for American Progress

2:30 PM

Panelist Discussion and Deliberation

Where should the balance be placed between individual privacy and the potential for medical breakthroughs? What are some of the dangers of exploitation of genomic data for discrimination? Are the surrounding fears justified? How will private citizens and entities deal with discrimination and stigmatization based on genomic information?

What are the consequences of failing to ensure genetic privacy? Conversely, what are the problems which could arise should the sharing of genetic data be restricted? How can consent for related individuals be protected should one decide to sequence, thus partially exposing the others' genomes?

What compensation, if any, should individuals receive for their genes? Should one be allowed to profit, and to what extent, from the development of medicines based off of someone else's life code? How will these advances affect the cost of medicine in a nation that already spends a large portion of its budget on healthcare?

3:30 PM

Recommendations for the Presidential Commission for the Study of Bioethical Issues

Participant Biographies

George Annas, considered “the father of patient rights,” is a Professor of Medicine and Law at Boston University and the founder of the international NGO, Lawyers for Human Rights. A Joseph P. Kennedy Fellow in Medical Ethics, his books include: *Worst Case Bioethics*, *The Rights of Patients*, *Judging Medicine*, *Some Choice: Law, Medicine and the Market*, and *American Bioethics: Crossing Human Rights and Health Law Boundaries*.

Jason Bobe is Executive Director of PersonalGenomes.org and Director of the Community for the Personal Genome Project, a collaborative effort with Professor George Church at Harvard Medical School which seeks to improve the accessibility and utility of whole-genome sequencing. Bobe is also a founder of DIYbio.org, a community which fosters amateur biology and provides classes in methods, safety, and ethical practice. He has worked as a Business Development Consultant for OpenWetWare.org, as the Director of Business Development at DNA Direct, and as an independent consultant.

Juan Enriquez is a Managing Director at Excel Venture Management, a venture capital firm that invests in companies that apply transformative life science technologies to solve problems in healthcare and beyond. He was the Founding Director of Harvard Business School's Life Sciences Project and among his books are *As the Future Catches You*, on the impact of the bio-based economy, and *Homo Evolutis* (co-authored with Dr. Steve Gullans), on the potential for human-directed genetic augmentation.

Robert Green is a faculty member at the Research Institute Division of Genetics at Brigham and Women's Hospital and the founder of Genomes 2 People (G2P), a project exploring whole-genome sequencing in clinical practice. A faculty member of the Harvard Medical School as well, he is a regular member of the National Human Genome Research Institute (NHGRI) study section on Ethical, Legal and Social Issues (ELSI) and Human Genetics. He is also a Board Member of the Council for Responsible Genetics.

Melissa A. Gymrek is a doctoral candidate in Dr. Yaniv Erlich's group, which focuses on building new tools and algorithms for studying human genomics, at the Whitehead Institute for Biomedical Research at MIT. Her most recent work, “Identifying personal genomes by surname inference,” was published in *Science* and exposes the insecurity of genetic studies previously thought to be anonymous.

Jamie Haywood founded the ALS Therapy Development Institute in 1999. ALS TDI is the world's first non-profit biotechnology company; it accelerated research on the disease by hiring scientists to develop treatments outside of academia and for-profit corporations. It was the first to publish research on the safety of using stem cells in ALS patients. In 2005, Jamie and his youngest brother Ben, along with close friend Jeff Cole, built PatientsLikeMe.com to give patients control and access to their healthcare information and compare it to others like them. Its bold (and somewhat controversial) approach involves aggregating users health info in order to test the effects of particular treatments, bypassing clinical trials. It was named one of “15 companies that will change the world” by CNN Money.

Christian Macedonia, a gynecological surgeon, is a program manager in the Defense Sciences Office of the US Department of Defense. His research is aimed at understanding how humans can thrive under adverse conditions. His early work with DARPA included contributions to the development of 3-D sonography and telemedicine under the Revolutionizing Ultrasound program in the mid-1990s. He has served in a variety of leadership roles in his 27 years of service as a U.S. Army Medical Corps officer, including chief of the medical staff of the 115th Combat Support Hospital in Iraq and as the Medical Sciences Officer to the Chairman of the Joint Chiefs of Staff. In addition to his role at DARPA, Macedonia is on the faculty of the Johns Hopkins University School of Medicine and serves on a volunteer basis at the Walter Reed Military Medical Center.

Debra JH Mathews is the Assistant Director for Science Programs for the Johns Hopkins Berman Institute of Bioethics. She is also an Assistant Professor in the Department of Pediatrics, Johns Hopkins School of Medicine, with a secondary appointment in the Institute of Genetic Medicine. She completed the Greenwall Fellowship in Bioethics and Health Policy, which is jointly administered by Johns Hopkins and Georgetown Universities. As a Greenwall Fellow, she worked at the Genetics and Public Policy Center, in Washington, DC, and the US Department of Health and Human Services. As the Assistant Director for Science Programs, Mathews is responsible for overseeing the Stem Cell Policy and Ethics program and the Program in Ethics and Brain Sciences, as well as other Institute initiatives in policy and ethics related to biomedical research.

Jonathan Moreno is a Professor of Medical Ethics and the History and Sociology of Science at the University of Pennsylvania, as well as a Senior Fellow at the Center for American Progress and an elected member of the National Academy of Sciences. The editor of the website Science Progress, Moreno has written *The Body Politic: The Battle Over Science in America*, as well as eleven other books and over 400 papers on bioethics, science and society. He is the former President of the American Society of Bioethics and the Humanities.

Michael Rugnetta is a former Research Assistant at the Progressive Bioethics Initiative at the Center for American Progress. He also writes for the Huffington Post and Science Progress about the impact of cutting-edge scientific advances on society. He is currently a second year student at Boston University's School of Law.

Kayte Spector-Bagdady is Associate Director at the Presidential Commission for the Study of Bioethical Issues. She was the Associate Director on Privacy and Progress in Whole Genome Sequencing and a lead staff investigator for *Ethically Impossible: STD Research in Guatemala from 1946 to 1948*. She joined the Commission staff in 2010 after working as an associate at Hunton & Williams, where she advised drug and device companies on federal and FDA compliance issues and worked pro bono for an international children's health NGO. Her interests include reproductive and pharmaceutical ethics and law, and she has published articles on issues such as direct-to-consumer advertising, informed consent in posthumous reproduction, and patient screening practices for assisted reproductive technologies.

Nancy Wexler is Higgins Professor of Neuropsychology in the Departments of Neurology and Psychiatry of the College of Physicians and Surgeons at Columbia University, as well as the President of the Hereditary Disease Foundation. Involved in public policy, individual counseling, genetic research, and federal health administration, she is most widely known for her important scientific contribution on Huntington's disease. Wexler currently holds, or has held, numerous public policy positions, including Chair of the Joint NIH/DOE Ethical, Legal and Social Issues Working Group of the National Center for Human Genome Research, Chair of the Human Genome Organization (HUGO) and Member of the Institute of Medicine. Wexler has served as a member of the board of directors of the American Association for the Advancement of Science and on the Advisory Committee on Research on Women's Health, NIH.

DR. JEAN MAYER GLOBAL CITIZENSHIP AWARD

EPIIC established the Dr. Jean Mayer Global Citizenship Award in 1993
to honor the work and life of Dr. Jean Mayer,
President and Chancellor of Tufts University, 1976-93.

Dr. Jean Mayer

"Dr. Mayer's life and productive career have been dedicated to the service of mankind"

– President Jimmy Carter

A world-renowned nutritionist, publishing more than 750 scientific papers and 10 books, Jean Mayer advised three U.S. Presidents (Nixon, Ford, Carter), the US Congress, the United Nations' Food and Agricultural Organization, the World Health Organization, the United Nations' Children's Fund, and the U.S. Secretary of State. He helped establish and expand the food stamp, school lunch and other national and international nutrition programs and organized the 1969 White House Conference on Food, Nutrition and Health.



In 1966, Dr. Mayer was the first scientist to speak out against the use of herbicides in the Vietnam War. In 1969, he led a mission to war-torn Biafra to assess health and nutrition conditions. In 1970, he organized an international symposium on famine, which produced the first comprehensive document on how nutrition and relief operations should be handled in time of disaster and was the first to suggest that using starvation as a political tool was a violation of human rights and should be outlawed.

For his service in World War II, he was awarded 14 decorations, including three Croix de Guerre, the Resistance Medal and the Cross of the Knight of the Legion of Honor. Among his 23 honorary degrees and numerous awards, he was the recipient of the Presidential End Hunger Award and the President's Environment and Conservation Challenge Award.

As the 10th president of Tufts University, Dr. Mayer created the nation's first graduate school of nutrition, established New England's only veterinary school and the USDA Human Nutrition Research Center on Aging at Tufts, and co-founded the Sackler School of Graduate Biomedical Sciences and the Center for Environmental Management. As chair of the New England Board of Higher Education, he created scholarships that enabled non-white South Africans to go to mixed-race universities in their own country.

"...Mayer moved universities as social institutions in new directions and toward the assumption of larger responsibilities. He saw them as instruments for improving society and the world environment... Those who knew him will miss his quick grasp of complicated and often-conflicting material, the clarity of his insight, his courage in tackling formidable tasks and his unfailing charm."

– The Boston Globe

"EPIIC is a milestone in bringing to the attention of the world urgent problems which have been all too often ignored. The program has a remarkable talent of involving the enthusiasm and the hard work of our college students, giving them a true sense of what is important and bringing their efforts to very specific fruition."

Dr. Jean Mayer

2012-13 Recipients:

Uche Amazigo
Jason Clay
Laurie Garrett
Anne Goldfeld
International Physicians for the Prevention of Nuclear War
Amb Bonnie Jenkins
Mary Kaldor
BGEN Yitshak Kreiss
Jennifer Leaning
Médecins Sans Frontières
Peter Piot
Irwin Rosenberg

Voices from the Field 2012-13

The Reality of Health Interventions

February 20, 2013

About Voices from the Field

Voices from the Field is a program under the Institute of Global Leadership (IGL) that brings midcareer alumni back to campus to engage in closed-door discussions. The objective of the sessions are to have alumni exchange field experience, generate best-practice models and discuss the future outlook of the theme. Previous "Voices" have come from the fields of nation building, complex humanitarian emergencies, human rights, UN peace-keeping, refugee assistance, preventative diplomacy, conflict resolution and development assistance.

Voices this Year

In conjunction and with the EPIIC Symposium on Global Health and Security, this year's discussion will be addressing the ethical implications of aid, cultural contexts, economies of health and the politicization of aid, partnerships, and assessment of work.

Participants

Ezra Barzilay, Daniel Holmberg, Gregg Nakano, Louino Robillard, Sabina Carlson Robillard

Issues discussed

Cultural Contexts

- How do you make practices culturally sensitive?
- How can you adapt practices when scaling-up to different areas?
- How is the transmission/manifestation of disease different in different communities?
- How long do you have to be immersed in the community before you can take action?
- What do you need to know before entering a community to deliver health interventions?

Ethical Implications of Aid

- How is aid susceptible to making communities dependent? What are some potential solutions?
- Are some types of aid more ethical than others (ie. building infrastructure, preventative efforts, treatment)?
- What are some ethical dilemmas you have experienced in the field? What are your proposed solutions?
- When are different organizations in conflict with each other in regards to aid deliverance? What do you do in this situation?
- To what degree do communities have a voice in interventions and how does this contribute to the ethical implications of aid?
- What is the difference between delivering aid in an emergency situation vs. in addressing long term problems?

Economies of health/Politicization of aid

Financing health

- How can you make structural change (ie., health systems) when funders want immediate, tangible change? (How tied is your work with the vision of your donors?)
- Lots of funding comes in for emergency situations, how is that money allocated or saved and what are the typical funding situations after the media settles. How do you deal with that?
- How do certain health needs get sensationalized and how does this affect funding?
- What funding sources allow you the most flexibility?

Pharmaceutical

- How do profit interests affect availability and distribution of drugs?
- How effective are green light organizations? Could this be a solution to making drugs lower price in developing countries?
- Do you consider parallel importing and compulsory licensing effective?
- What are some alternative methods for funding drugs in underserved communities?
- How can we deal with the issue of extra-legal pharmaceuticals?

Partnerships

- How do you work with other global health actors (private, community-based organizations, transnational organizations, governments, etc.) on the ground? How are tasks allocated?
- What challenges have you faced in collaborating with other actors?
- What, if any, are the power dynamics between different global health actors?

The Tufts University



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About the Global Health Network:

The Global Health Network, founded in September 2011, seeks to enhance community and increase access to information for students interested in global health. The GHN accomplishes this through a bilateral approach: a student organization and a website. The student organization offers programming to raise awareness about global health issues and opportunities, reaches out to local non-profits to seek partnership opportunities, produces a weekly newsletter on global health opportunities, and coordinates student groups on campus to build community and to maximize the impact of global health supporting events across campus. The website, which will be launched later this year, will provide information about academic, extracurricular, research, and funding resources for students.

Global Health Across Campus:

The following six groups work to forward Global Health Initiatives across campus and beyond. For more information on the Global Health Network, or any of these groups, feel free to email us at tuftsundergradgh@gmail.com



Engineers Without Borders at Tufts:

Engineers Without Borders is an interdisciplinary group that works to design sustainable water systems with communities across the world. At Tufts, both liberal arts and engineering students meet weekly to collaborate on technically sound designs to implement during annual trips to communities in El Salvador and Uganda. Engineers Without Borders is a group that is proud to partner with the communities, not work for them, and values the ideas and relationships that are constantly developing from the community. For more information contact us at Tuftsewb@gmail.com

Globemed at Tufts:

GlobeMed at Tufts is a student-run nonprofit part of a national network of student chapters partnered with grassroots organizations around the world. We are partnered with Nyaya Health, an international NGO that works in the Achham district in Far West Nepal. Our chapter works to educate within our student meetings and raise awareness on campus about global health issues relevant to Nyaya. In addition, each year we send interns to work onsite with Nyaya Health in Achham and in their U.S. offices. This year we are fundraising for Nyaya Health's solar energy project, which will help fully power operations in their hospital in Nepal. For more information please contact tufts@globemed.org or

visit our website at <http://tuftsglobemed.wordpress.com/>.

BUILD India:

BUILD: India (Building Understanding through International Leadership and Development) is a student-led sustainable development organization through the Institute for Global Leadership at Tufts University. BUILD works to immerse students in the theory and practice of sustainable development through projects with our partner village of Thottiyapatti in rural Tamil Nadu, India and partner NGO Payir. BUILD has been working in Thottiyapatti since the summer of 2010 on three main projects: The Learning Center, constructed in the summer of 2011 to provide education initiatives to youth and adults in the community in areas such as English, math, and computer literacy on the four desktop computers; EcoSan toilets, a waterless, composting public toilet complex currently under construction in the village to improve health and sanitation in Thottiyapatti; and Income and Skill Development; still in its research phase, BUILD is working to provide skills and training to residents of Thottiyapatti to ensure a long-term improvement in income to allow people to meet their basic needs. For more information, please visit email us at buildprogram@gmail.com or visit our website: <http://www.tuftsgloballeadership.org/program/build-india>

Health Horizons International:

Health Horizon International's mission is to provide quality primary health care to underserved patients of the Dominican Republic and to build local capacity for achieving improved community health. Through partnering international medical service trips with community-based health initiatives, we work to promote well-being and access to health care. The Tufts team (Tufts HHI), in accordance with this mission, researches a project topic each fall, which they then implement during the winter break in the Puerto Plata region of the Dominican Republic. For more information, please contact us at: tuftshhi@gmail.com.



Tufts Timmy Global Health

Tufts Timmy Global Health is one of numerous college chapters in a national organization that works to tackle health disparities on campuses, in nearby communities, and around the world. Throughout the year we fundraise for our health clinics, advocate our cause, and collect medical donations. Every January, Tufts Timmy Global Health embarks on a week-long medical brigade to Guatemala where we provide care to low-income communities. For more information, please contact us at tuftstimmy@gmail.com or visit us at timmyglobalhealth.org

The Thirst Project at Tufts

The Thirst Project works to bring safe drinking water to people around the world. We specifically focus on working from within the communities, drilling wells and giving the people the tools to provide themselves with water for life. And we challenge young adults all around the U.S. to take action and make a difference in this fight. For more information, please visit thirstproject.org or contact tuftsthirstproject@gmail.com



Dr. Jean Mayer Global Citizenship Award Lecture

New Global Health Challenges

Peter Piot

Tuesday, February 26, 8:00pm, Cabot Auditorium

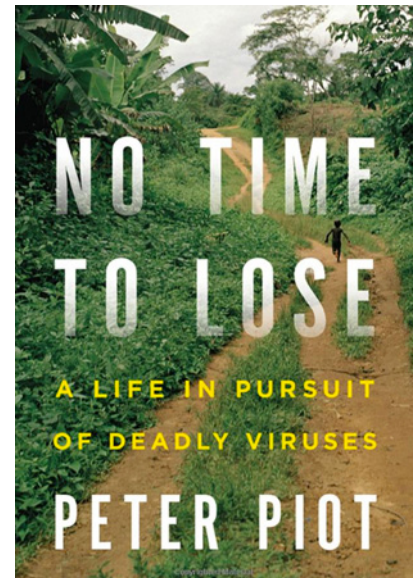


Peter Piot MD, PhD is the Director of the London School of Hygiene & Tropical Medicine, and Professor of Global Health. In 2009-2010 he was the Director of the Institute for Global Health at Imperial College, London. He was the founding Executive Director of UNAIDS and Under Secretary-General of the United Nations from 1995 until 2008, and was an Associate Director of the Global Programme on AIDS of WHO.

Professor Piot co-discovered the Ebola virus in Zaire in 1976, and led research on AIDS, women's health, and public health in Africa. He was a professor of microbiology at the Institute of Tropical Medicine, Antwerp, the Free University of Brussels, and the University of Nairobi, was a Senior Fellow at the University of Washington, a Scholar in Residence at the Ford Foundation, and a Senior Fellow at the



Bill and Melinda Gates Foundation. He held the 2009 chair "Knowledge against poverty" at the College de France in Paris.

He is a member of the Institute of Medicine of the US National Academy of Sciences, of the Académie Nationale de Médecine of France, and of the Royal Academy of Medicine of his native Belgium, and a Fellow of the Academy of Medical Sciences and the Royal College of Physicians. In 2008-11, he was the President of the King Baudouin Foundation and was knighted as a baron in 1995. He has published over 500 scientific articles and 16 books.






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