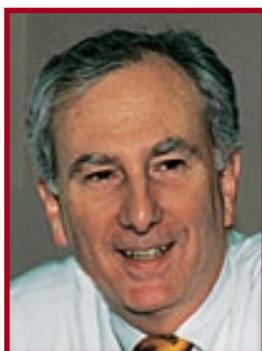


Monday Plenary Session

Monday, December 8 – 8:30-10 AM

- **Welcome & Introduction.** *Bernard Goldstein; SRA President*
- **Moderator** – *Gail Charnley; HealthRisk Strategies*
- **Keynote Speaker** – Risk, Science, and Regulation: Bridging the Divide. *Paul Gilman, Assistant Administrator, Office of Research & Development; US Environmental Protection Agency.*
- **Respondants:**
Bernard Goldstein; University of Pittsburgh
Leslie Hushka; ExxonMobil Chemical Company
Paul Locke; Johns Hopkins University, Bloomberg School of Public Health



Paul Gilman, Assistant Administrator, Office of Research & Development; US EPA

In April 2002, Dr. Gilman was sworn in to serve as the Assistant Administrator for the Office of Research and Development, which is the scientific and technological arm of the Environmental Protection Agency. In May 2002, he was appointed the Agency Science Advisor. In this capacity, he will be responsible for working across the Agency to ensure that the highest quality science is better integrated into the Agency's programs, policies and decisions.

Before his confirmation, he was Director, Policy Planning for Celera Genomics in Rockville, Maryland. Celera Genomics, a bioinformation and drug discovery company, is known for having decoded the human genome. In his position Dr. Gilman was responsible for strategic planning for corporate development and communications.

Prior to joining Celera, Dr. Gilman was the Executive Director of the life sciences and agriculture divisions of the National Research Council of the National Academies of

Sciences and Engineering. The National Research Council is the operating arm of the National Academies, which were chartered to provide independent advice to the government in matters of science and engineering. Dr. Gilman's divisions focused on risks to health and the environment, protection and management of biotic resources, and practical applications of biology, including the biotechnology and agriculture.

Before joining the National Research Council, Dr. Gilman was the Associate Director of the Office of Management and Budget (OMB) for Natural Resources, Energy, and Science. There he coordinated budget formulation, regulatory, and legislative activities between agencies such as the Environmental Protection Agency, National Science Foundation, Agriculture, and Energy with the Executive Office of the President.

Dr. Gilman served as Executive Assistant to the Secretary of Energy for technical matters before joining the OMB. His responsibilities included participating in policy deliberations and tracking implementation of a variety of programs, including the Department's environmental remediation and basic science research.

Dr. Gilman has 13 years of experience working on the staff of the United States Senate. He began that time as a Congressional Science Fellow sponsored by the American Association for the Advancement of Science in the office of Senator Pete V. Domenici. Later, as the Staff Director of the Subcommittee on Energy Research and Development, he was involved in the passage of the Nuclear Waste Policy Act of 1982 and oversight of energy technology and environmental research. Later he served as the chief-of-staff for Senator Domenici.

Dr. Gilman matriculated at Kenyon College in Ohio and received his A.B., M. A., and Ph.D. degrees in ecology and evolutionary biology from Johns Hopkins University, Baltimore, Maryland.

Tuesday Plenary Session

Tuesday, December 9 – 8:30-10 AM

- **Introduction.** *Robin Cantor, SRA Past President; LECG*
- **Moderator** – *Christopher Schonwalder, Senior Environmental Health Advisor to the Director, Fogarty International Center; National Institutes of Health*
- **Keynote Panel**—Bridging International Divides: Does the Developing World Need Risk Analysis?

Panelists:

Risk Assessment in Prioritizing Health Issues for Developing Countries. *Jamal Hashim, Department of Community Health, Faculty of Medicine, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia*

Can we Improve Decisions Making Based on Risk Assessment in South America? Lessons Learned From Two Recent Projects. *Rosana Moraes, Golder Associates Brazil, Rio de Janeiro, Brazil*

Developing Countries: the Need for Risk Analysis. *Bosbra Salem, Department of Environmental Sciences, Faculty of Science, University of Alexandria, Egypt*

Crossing Boundaries in Human Health Risk Assessment for Southern Africa. *Kuku Voyi, Environmental and Occupational Health, School of Health Systems and Public Health, University of Pretoria, South Africa*

Jamal Hisham Hashim, PhD; National University of Malaysia

Dr. Jamal Hisham Hashim is a professor of environmental health at the Department of Community Health, Faculty of Medicine, National University of Malaysia. He has a BA in biology and environmental studies from Macalester College, a MSc in public health from the University of Minnesota, and a PhD in environmental health sciences from the University of Michigan in 1994. He has been teaching and doing research in environmental and occupational health at the National University of Malaysia for the past 21 years. Dr. Hashim's research interests are mainly in lead, pesticides and air pollution studies. His research works have been published in refereed national and international journals. Dr. Hashim is an honorary member of the Malaysian Association of Environmental Health and an active member of the International Society of Environmental Epidemiology. He has often been invited to speak on the subject of risk assessment at several conferences. His latest presentations were at the First World Congress on Risk in Brussels and the 37th Malaysian-Singapore Congress of Medicine in Kuala Lumpur.

Dr. Hashim is also being actively solicited as an environmental health consultant by both national and multinational firms for consultation assignments, mainly in

the area of environmental health impact and risk assessment. Dr Hashim was mainly responsible for the incorporation of the health impact assessment component into the environmental impact assessment (EIA) process in Malaysia. This success has led to his recent appointment as a World Health Organization consultant to the Government of Cambodia, to assist them in achieving the same for that country. He also sits on the EIA Review Panel for the Malaysian Department of Environment. Dr. Hashim's immediate future plan is to develop a health impact assessment methodology that would be appropriate for the developing countries.

Rosana Moraes, PhD; Golder Associates Brasil

PhD Rosana Moraes, is a Senior Environmental Risk Assessor of Golder Associates Brasil. She has a Master Degree in Biology from University of São Paulo (Brazil, 1994), a Master Degree in Engineering with Specialization in Applied Environmental Measurement Techniques from Chalmers University (Sweden, 1997) and a Doctoral Degree in Environmental Sciences with Specialization in Environmental Systems from Chalmers University (2003). She has attended several courses of environmental management and assessment in Brazil, Sweden, Denmark, USA, Finland and Austria. Dr. Moraes has 7 years of experience in ecological risk assessment and over 11 years experience in research, teaching and consultancy in environ-

mental sciences in Sweden and Brazil. Her latest research (2002), financed by the Swedish International Development Agency (SIDA), resulted in a procedure for retrospective evaluation of risks adapted to situations of limited resources and scarce background information, such as in developing countries. Dr. Moraes designed and implemented a case study of ecological risk assessment in a Brazilian rain forest reserve which goal was to establish conservation priorities and to assist management decisions regarding the environmentally protected area. During that project, she was responsible for coordination of a multidisciplinary group of Swedish and Brazilian professionals from universities, governmental institutes, and an NGO. As consultant at Golder Associates, Dr. Moraes planned and managed the technical aspects of a large environmental risk assessment of 41 sites contaminated with petroleum products in Bolivia using the Risk-Based Corrective Action procedure by ASTM (2003). She also worked as a consultant at Chalmers University where she conducted an environmental risk assessment of shampoo components based on the European System for the Evaluation of Substances (USES) methodology for the Swedish Chemical Inspectorate (1996). Her master thesis, performed in collaboration with Golder Associates Sweden, resulted in a framework for assessing ecological risk of leakages from gasoline storage tanks (1997). As a researcher of Chalmers University, she supervised a regional risk assessment of mining activities in Chile (2001), developed a methodology for regional risk assessment in collaboration with Western Washington University (EUA, 2000-2003) and participated in a pre-study of environmental risks related to obsolete pesticides in Tanzania in collaboration with the Swedish University of Agricultural Sciences (Sweden), University of Dar es Salaam (Tanzania) and Potchefstroom University (South Africa) (2001). At Chalmers University she also lectured risk assessment, ecology and sustainable development; supervised master theses and worked as a coordinator of a master program. Dr. Moraes also participated and supervised projects in environmental assessment, zoology and ecology at (or in collaboration with) the University of São Paulo, University of Tocantins, University of Vienna, Swedish University of Agricultural Sciences and University of Gothenburg. She has more than 35 publications, including thesis, dissertations, peer reviewed articles, technical reports, conference abstracts and book chapters. She has participated in several international conferences (Society of Risk Analysis, Society for Environmental Toxicology and Chemistry and others) and provided scientific peer review for the Journal of Human and Ecological Risk Assessment and Journal of Risk Analysis.

Boshra Salem, PhD; University of Alexandria

Dr. Boshra Salem is an Assistant professor at the Department of Environmental Sciences, Faculty of Science, University of Alexandria. Dr. Salem's responsibilities at the Department include teaching of Basic environmental sciences (biosphere, desertification and EIA) for the undergraduates, specified courses (remote sensing and GIS, strategic environmental Assessment, environmental economics and systems analysis) to the post graduate students. The research responsibilities include private research and consultancies, supervision of and M.Sc and Ph.D theses. Other responsibilities in the department include managing the staff members and courses of the Biology section and the post graduate division in general.

Dr. Salem has obtained her Ph.D from the Imperial College London, in 1989 and two post doctor studies in 1994 and 1986 from the University of London and University of Maryland respectively. Dr. Salem is a member of the national SCOPE (Scientific Committee of Problems of the Environment) committee and the reporter of the national UNESCO/MAB (Man and Biosphere) committee. She is also the Executive Director of the ArabMAB network (an Arab regional MAB network), and a member of the international Advisory committee of Biosphere reserves, UNESCO- HQ, as well as a member of the International Jury for the Jawad Hussein Prize and UNESCO Science Prize.

Dr. Salem has served as a member of steering committees and a coordinator in several national and international projects on environmental surveys and applications. Currently she is the national coordinator of a United Nations University/UNESCO/ICARDA Project on "Sustainable Managing of Marginal dry lands"

Dr. Salem was awarded the following prizes:

- UNESCO Young Scientist Award 1990.
- University of Alexandria Prize of Scientific Achievements for the year 1997.
- Sultan Qaboos Prize for Environmental Preservation (1997).
- Academy of Science Prize for the invention and innovation in Environmental Studies

DR. Salem's publications include refereed journal articles, book chapters, expert reports, on Monitoring Environmental Changes, Biodiversity Assessments, Strategic Environmental Assessment for the Ministry of Planning, and Environmental Data Bases.

Kuku Voyi, Associate professor, School of Health Systems and Public Health University of Pretoria,

Dr. Voyi, an Associate professor of Environmental Health at the School of Health Systems and Public Health at the University of Pretoria and head of the Environmental and Occupational Health Division obtained a PhD in Chemistry from the university of Cape Town, South Africa.

In 1998 Dr. Voyi founded a Risk Assessment Practitioner's forum which is a group of persons practicing risk assessment as private consultants and as employees of companies. She worked for the AECI research and development department where she looked after Occupational health, safety and environment group. The activities of this group included health risk and environmental risk assessment of bio/chemical processes in the research department. She joined the CSIR Environmentek division in 1999 as an air pollution health risk scientist later becoming the leader of the Human Health risk assessment group. She later managed the Environmental health and Human health risk assessment in the air quality group, which is concerned with the impacts of air pollutants on human health. In 2002 she joined the University of Pretoria. She is a reviewer for the National research Foundation for the research niche area of Pollutants and toxins.

Her involvement with the National department of Health has resulted in capacity building project for researchers on environmental health tracking. This project, started in 2002, is run in the nine provinces of the country and it aims on building a critical mass of Environmental health researchers and epidemiologists to address the community burden of disease from environmental causes. Currently Health impact assessment guidelines for the Environmental Health directorate are being developed under Dr. Voyi's guidance. In 2003 she joined the System wide initiative for Malaria and Agriculture (SIMA) management team to promote health in rural areas affected by Malaria while addressing the issues of low socio-economic status of the affected population.

She is a member of various professional bodies including International Association for Environmental Epidemiology, Public Health Association of South Africa, South African Institute for Environmental Health and International Association of Impact Assessors – South Africa.

She lives in Pretoria with her husband and they have two daughters.

Wednesday Plenary Session

Wednesday, December 10 – 8:30-10 AM

- **Moderator** – *Caron Chess; Rutgers University*
- **Keynote Panel**—Building Bridges to the Future: Lessons Learned from Anthrax, 2001

Panelists:

Thomas Day, Vice President Engineering; US Postal Service

Ivan Walks, MD, CEO; Ivan Walks & Associates

Monica Schoch-Spana; Center for Biosecurity of the University of Pittsburgh Medical Center

Thomas Day, Vice President, Engineering; US Postal Service

Thomas G. Day was named Vice President, Engineering in February 2001. In this role, Day, an 18-year postal veteran, reports to the Senior Vice President, Operations, and oversees all engineering and development efforts focused on internal processes, building and equipment maintenance programs and policies, as well as the Postal Service's award-winning environmental program. These include directing all engineering and acquisition support functions, including the design and development of new automation, material handling systems, and vehicles.

The October 2001 Anthrax attack proved to be the greatest professional challenge of Day's career. He and engineering staff developed immediate, short-term and long-term technical responses to the Anthrax attack. The resulting Emergency Preparedness Plan, submitted to Congress in March 2002, has been praised for its comprehensive approach to the problem of bio-terrorism in the mail. For these efforts, Day was personally recognized with a Board of Governors award at the 2002 National Executive Conference.

Day is a graduate of the U.S. Military Academy at West Point where he earned a Bachelor of Science degree in engineering. He is a third-generation postal employee, entering the Postal Service in 1984 as a management associate in the Northeast Region, following five years of service as an officer in the US Army. He represented the

Postal Service as a Sloan Fellow at Stanford University's Graduate School of Business, where he earned a Master of Science degree in Management.

In addition to his degree in engineering, Day brings solid operational experience to this assignment. Over the course of his 18-year postal career, he served in a variety of assignments in delivery, distribution and logistics operations. He most recently served as district manager, Southeast New England District.

He and his wife Young have two sons and reside in Vienna, Virginia.



Ivan Walks, CEO, Ivan Walks & Associates

Dr. Ivan C.A. Walks is the CEO of Ivan Walks and Associates, a consulting firm that specializes in the policy and practice of Health, Human Services and Education with a commitment to proactive health security and a focus on the specific opportunities and challenges of urban communities. The Ivan Walks and Associates partner/client list ranges from the Fortune 500 to the local not-for-profit. Dr. Walks is a featured presenter and keynote speaker at scientific meetings and Government, Education and Health Policy conferences throughout the country and abroad as well as a sought after commencement speaker. He is an Adjunct Associate Professor of Health Services Management and Leadership at The George Washington University School of Public Health and Health Services and has been recognized as a "Public Health Hero" by the American Public Health Association.

As the Chief Health Officer of the District of Columbia, Ivan Walks became a fixture in many households in the United States and throughout the world during the anthrax attack on Washington. As the operational commander of one of the largest public health interventions ever seen in the United States, Dr. Walks delivered "real time" updates on television and radio. Since the attack, Dr. Walks' expertise in

preparing for and responding to a bioterror attack has been nationally recognized. He has become a national resource on bioterrorism and other public health threats at numerous conferences and official meetings on Homeland Security.

Dr. Walks was confirmed as the Chief Health Officer of the District of Columbia and the Director of the Department of Health in 1999. He envisioned and has overseen a dramatic transformation of the Department of Health, one of the District's largest agencies with 1400 employees and a \$1.3 billion budget. During his tenure, Dr. Walks re-engineered a failing public hospital into the DC Healthcare Alliance: a collaboration between private hospitals, community clinics and the government serving the uninsured and underinsured.

In establishing health policy for the District of Columbia, Dr. Walks was instrumental in developing proactive community partnerships, initiatives in both men's and women's health and interventions that have resulted in unprecedented improvements in the District's health indicators. Under his leadership, infant mortality in Washington, DC was reduced by more than twenty percent to its lowest rate in the District's history. And through an unprecedented partnership with the District of Columbia Public Schools, ensured that for the first time, that all District public school children have up to date immunizations.

As a neuropsychiatrist who has worked for many years on a national mental health agenda, Dr. Walks is one of America's leading mental health professionals. He received his medical degree from the University of California at Davis School of Medicine and is a graduate of the Neuropsychiatric Institute at the University of California at Los Angeles. He completed the UCLA two-year fellowship in Transcultural Psychiatry and the Senior Primary Care Policy Fellowship in the Public Health Service of the U.S. Department of Health and Human Services. He also completed the Leadership for State Health Officials training program at the John F. Kennedy School of Government at Harvard University.

Dr. Walks was a member of the SAMSHA federal workgroup that created the Consensus Cultural Competence Standards and Guidelines and the Cultural Competence Performance Measures. As a member of the American Psychiatric Association Board of Trustees, Dr. Walks was selected to represent American Psychiatry at the historic Delegation of International Psychiatric Leaders invited to an audience with Pope John Paul II. Dr. Walks served as a Los

Angeles County Mental Health Commissioner and later as Medical Director for Managed Care for the Los Angeles County Department of Mental Health, where he oversaw the successful transition of the Department to a managed care model of operation. During the Clinton Administration, Dr. Walks helped plan and participated as a facilitator for The White House Conference on Mental Health. Presently, Dr. Walks serves on the board of the National Mental Health Awareness Campaign. This campaign has partnered with MTV, the Ad Council, Channel One, the Motion Picture Association of America and others to fight the stigma against mental health.

The White House, the United States Congress, the National Association for the Advancement of Colored People, the California State Legislature, the California Department of Education and others have recognized Dr. Walks' contributions to public health policy. He is the recipient of the prestigious Leadership Washington Founder's Award for Leadership and Community Service. He has also been a contributor on numerous broadcasts, including the *Today Show*, *Good Morning America*, the *CBS Morning Show*, numerous CNN broadcasts, NPR's *All Things Considered* and *Talk of the Nation*.

During the anthrax crisis, ABC's "Nightline" featured Dr. Walks in a "day-in-the-life" segment. He appeared as a medical expert on the *Oprah Winfrey Show* where he addressed the public's concerns about the dangers of Anthrax. Dr. Walks has testified before several U.S. Senate and House Committees and been profiled in *The Washington Post*, the *Los Angeles Times*, *Sister-to-Sister* magazine and many other publications. He continues to be a frequent contributor to local and national news organizations.

Dr. Walks is married to Dr. Dawn Walks and they have three children.

Monica Schoch-Spana; Center for Biosecurity of the University of Pittsburgh Medical Center

Dr. Schoch-Spana, a medical anthropologist, is with the Center for Biosecurity of the University of Pittsburgh Medical Center (UPMC). Over the last 5 years, Dr. Schoch-Spana has briefed federal, state and local officials, as well as medical and public health professionals on critical issues in bioterrorism preparedness and response.

Dr. Schoch-Spana has led research, education and advocacy efforts to encourage within bioterrorism response policy, greater consideration of the public's capacity to

confront attacks constructively. Dr. Schoch-Spana organized the 2003 national leadership summit, *The Public as an Asset, Not a Problem*; currently chairs the *Working Group on Biodefense and Public Communications*; and is P.I. for a national study of public communication experiences during the anthrax attacks. She has served as technical advisor to the Ad Council's national citizen preparedness campaign on behalf of the Department of Homeland Security.

Informing her perspective on community reactions to bioterrorism are Dr. Schoch-Spana's investigations of relevant case studies, including Pandemic Influenza 1918, NYC West Nile Virus 1999, and World Trade Center attacks 2001. Publications include "Bioterrorism and the Public: How to Vaccinate a City against Panic?," *Clinical Infectious Diseases*, and "Educating, Informing and Mobilizing the Public," in *Terrorism and Public Health*, B. Levy and V. Sidel, eds., Oxford University Press.

Dr. Schoch-Spana received her B.A. from Bryn Mawr College in 1986, and Ph.D. in cultural anthropology from Johns Hopkins in 1998.