

Risk-Based Decision Making for Security Applications

SPEAKERS

Lisa Bendixen is a Vice President at ICF International with over 25 years of experience in risk assessment, risk management, and emergency management. She has developed and evaluated risk assessment and ranking methodologies for a range of natural and man-made hazards. She also applies her skills and experience to the areas of chemical demilitarization, counter terrorism, deterrence, and vulnerability assessment, for clients and on expert panels/committees. She was on the Transportation Security Panel for the National Research Council's report "Making the Nation Safer: The Role of Science and Technology in Countering Terrorism". She also was on the National Research Council committee that produced the report "Terrorism and the Chemical Infrastructure: Protecting People and Reducing Vulnerabilities". Ms. Bendixen is currently supporting the Department of Homeland Security's Preparedness Directorate in its work on the national critical infrastructure protection program and serves as the Officer in Charge for ICF's onsite support of the National Infrastructure Protection Plan's Program Management Office (PMO).

Thomas Bossert, Special Assistant to the President for Homeland Security and Senior Director for Preparedness Policy, White House – Biography not available.

Robert Bowman is a Principle and Project Manager with SRA International. He has spent the last eleven leading projects located at the Defense Intelligence Agency in both the Counter Terrorism and Counter Proliferations and Technology Transfer Divisions. Prior to his projects within DIA he was the Senior Analyst and Site Manager on the Gulf States Counter Drug Initiative at the Alabama Bureau of Investigations. Robert spent over 21 years in the US Navy and US Naval Reserves. He retired as a Master Chief Intelligence Specialist and served his last two tours as the Command Master Chief for the largest Reserve Intelligence Area with leadership responsibilities for over 800 officers and enlisted sailors.

Brooke Davis Langhorne, Principal Consultant, Government Services, Symantec Corporation – Biography not available.

Bruce B. Davidson is the Deputy Director of the Office of SAFETY Act Implementation, Science and Technology Directorate, Department of Homeland Security. The mission of the Office is to provide incentives to industry to develop and deploy new and innovative anti-terrorism technologies and services to the maximum extent possible. Mr. Davidson draws on his background in law, economics, and engineering in contributing to the activities of this multi-disciplinary office. Prior to joining the Department of Homeland Security, Mr. Davidson was the managing partner of a metropolitan D.C. area law firm, with a specialty in federal practice. He also had a distinguished career as a surface warfare officer and judge advocate in the U.S. Navy, which included service in the Office of the Secretary of Defense. Mr. Davidson earned a B.A. in Economics from Cornell University, an M.A. from the U.S. Naval War College, and law degrees from the University of South Carolina and Georgetown University. He is a member of the Bar of the District of Columbia.

Robin L. Dillon-Merrill specializes in decision and risk analysis. The focus of her research is using programmatic risk analysis to improve project and operational management in complex, resource-constrained environments. She is particularly interested in how prior near-miss events influence risky future decisions. The National Science Foundation and NASA are currently funding some of her research, and she has participated as a National Science Foundation fellow in their sponsored program, "Enabling the Next Generation of Hazard Researchers," and as a NASA Summer Faculty Fellow in 2004. She has served on several National Academies Committees and is currently serving on the Committee on New Orleans Regional Hurricane Protection Projects.

Matthew Elder, Symantec Corporation – Biography not available.

Geoffrey French is a Program manager for CENTRA Technology, Inc, and currently works with the US Department of Homeland Security where he is responsible for strategic risk analysis-including the development and review of risk analysis methodologies-and for supporting interagency efforts on risk related to foreign investment. Having been involved in the field of Critical Infrastructure Protection and risk management since 1999, he has also supported the Federal Bureau of Investigation, and the Department of Defense in infrastructure protection and risk analysis. At the FBI's National Infrastructure Protection Center, Mr. French managed multiple teams that addressed threats to infrastructure, including cyber threats to industrial control systems. His teams created the NIPC guidance on risk management and on SCADA security. While at FBI, Mr. French led the intelligence review for the U.S. Canadian Taskforce on the Power Outage.

Robert Gleeson has over 42 years of experience in providing counterintelligence and security countermeasure services as a member of the U.S. Army Military Intelligence, the Central Intelligence Agency (CIA) and the National Security Agency (NSA). In 1998, Mr. Gleeson was brought from CIA to NSA to integrate risk management into their security programs. He frequently lectures throughout the Intelligence Community on physical and technical security design principles for protecting some of the Nation's most critical assets and on the application of analytical risk management toward identifying and prioritizing security countermeasure resources. For his outstanding service is fostering risk management in the Intelligence Community security arena, the Director of National Intelligence recently awarded Mr. Gleeson the National Intelligence Medal of Achievement. In addition to his technical leadership responsibilities, Mr. Gleeson currently serves as an adjunct faculty member with NSA's National Cryptologic School.

Dick Henson has served the U.S. Army for over 40 years. His background includes infantry operations and intelligence, communications and electronic security, electronic warfare, operations security and counterintelligence. He served three years in Vietnam and eight in Germany. For the past 5 years, he has managed the Army's Research and Technology Protection Center, applying risk management principles to efforts to protect the Army's most critical technologies.

Patrick W. Jones is the Commander Navy Installations Command AT Program Director (GS-15). Mr. Jones is a 26 year Navy veteran serving on four surface ships and various shore tours including recruiting, ships maintenance, security assistance and finally as Director Fleet Security for the Navy in Europe until his retirement in October 2001. He started his civilian career with the Naval Criminal Investigative Service working Physical Security and Antiterrorism policy. Patrick Jones assumed his current position in January 2006 responsible for the antiterrorism and physical security of the 79 navy installations worldwide.

Ed Jopeck is a Senior Principal at SRA International specializing in security analysis, risk assessment, risk management, intelligence and infrastructure protection. Over his 20-year career in the field he has developed, evaluated and applied security risk assessment methodologies in the intelligence, defense and homeland security communities. For the US Department of Homeland Security, Mr. Jopeck has supported numerous risk analysis and risk management efforts in Department's Preparedness Directorate. Between 2003 and 2007 he served as a security risk management consultant leading the development of strategic-level antiterrorism risk analysis methods to improve the protection of critical infrastructures and special events from terrorist attack, and was a key contributor to the risk management chapter of the National Infrastructure Protection Plan. Prior to September 11,

2001, Mr. Jopeck worked as an intelligence and security analyst for the Central Intelligence Agency, and later as a security analysis and risk management consultant to numerous other governmental organizations.

Robert Liebe is a senior decision analyst with Innovative Decisions, Inc. and specializes in risk analysis methods and their applicability to homeland security and resource allocation problems. After eight years flying Marine helicopters, Mr. Liebe served as an operations analyst for the Marine Corps, where he applied a wide array of analysis techniques to the Corps' analytic challenges. The challenges include creating optimal 10-year V-22 aircrew training plans using mixed integer programming; forecasting wartime equipment attrition using Markov models; assessing the comparative value of traditional and distance education programs for Marine officers using a web-based survey and data analysis techniques; and supporting 3d Marine Aircraft Wing assessment division with quantitative analyses while deployed to Iraq in Spring 2003. Since joining IDI, Mr. Liebe has assisted in development and testing of high-level aviation campaign models for force structure analysis, applied multi-objective decision and risk analysis techniques for Navy Anti-Terror/Force Protection decision making, and developed discrete event simulations to support maritime prepositioning ship design and assembly process improvement.

Chris Krahe works in the Risk Management and Strategic Planning division of the Transportation Security Administration. In his capacity there, he has assisted the development of a dramatic shift in the risk management framework of the agency. He has used his background in Operations Research to approach the risk from terrorism in a more quantitative way, as well as helping shift the agency focus from individual assets to understanding the interdependencies inherent in the transportation system. He has presented

work at last year's DHS Risk Symposium, and has spoken at the United States Military Academy at West Point, NY.

Stacy Marcott, Director, Program Analysis and Evaluation, US Department of Homeland Security – Biography not available.

Lt. Col **Jim Marry** has served 19 years as a USAF Security Forces Officer. His duties have included Law Enforcement shift supervisor, Chief of Security for a nuclear weapons security force, Director of Security for a \$5B foreign sales program, Deputy Provost Marshal for security and operations for the Canadian air force, HQ AF Security Forces Center staff officer, and twice as Security Forces Squadron Commander. He spent 12 years overseas, served in the first Gulf War, and established the first police force in the Green Zone, Baghdad Iraq.

Siobhan O'Neil is the Analyst for Domestic Security and Intelligence with the Congressional Research Service (CRS). Prior to joining CRS, Ms. O'Neil worked in homeland security at the state-level in New York and New Jersey. Most recently she served as the Deputy Chief of the Intelligence Bureau of the New Jersey Office of Homeland Security and Preparedness (OHSP). Before the inception of OHSP, she was the Deputy Assistant Director for Intelligence at the New Jersey Office of Counter-Terrorism (OCT). From January 2002 to April 2004, Ms. O'Neil worked on the other side of the Hudson River as an Intelligence Analyst with the New York State Office of Homeland Security (OHS). Ms. O'Neil recently received her MA in Security Studies (Homeland Security and Defense) from the Naval Postgraduate School (NPS), a program specially designed for civilian homeland security practitioners co-sponsored by the Department of Homeland Security. She graduated cum laude with a BA in Political Science and History from the College of the Holy Cross in Worcester, MA.

John Paczkowski has worked for the Port Authority of New York and New Jersey since 1978 holding a variety of executive level positions in planning, policy and operations. In December of 2001, he was appointed Director for Emergency Management and Security and is responsible for oversight of all agency-wide security and preparedness programs. In 2005, John retired as a Colonel with 33 years of active and reserve service in the US Marine Corps as both an infantry and engineer officer. Activated for the first Gulf War, he later worked in a variety of homeland defense and security roles. He holds a BS in Industrial Engineering and MS in Management Engineering from the New Jersey Institute of Technology, along with an MA in Organizational Psychology from Columbia University. He is currently attending the Naval Postgraduate School pursuing a degree in National Security Studies with a focus on homeland defense and security. He is a graduate of the Marine Corps Command and Staff College.

Todd Parker, Symantec Corporation – Biography not available.

Nancy A. Renfro, PSP, is the Director of Security Risk Management for Applied Research Associates, Inc. As a Security Specialist with over 20 years of experience in the areas of security risk management, training, and computer modeling, Ms. Renfro works closely with security personnel by training them in security risk management, and applying the methodology in the development of custom systems. She has trained hundreds of security professionals from both government and the private sector in the application of various security risk management methodologies. She is the author of a wide variety of technical reports and was a contributing author to the General Service Administration's Protective Design and Security Implementation Guidelines. Ms. Renfro is a member of the American Society of Industrial Security and is a certified Physical Security Professional (PSP).

John Sammon, Assistant Administrator for Transportation Sector Network Management, TSA – Biography not available.

Melissa Smislova serves as the Director of Intelligence for the Homeland Infrastructure Threat and Risk Analysis Center (HITRAC) at the Department of Homeland Security. Ms. Smislova began her career in the Defense Intelligence Agency, focusing on the Soviet Union; she was one of a few intelligence professionals selected as part of the initial 200-person U.S. delegation charged with inspecting Soviet missile sites covered under the Intermediate Nuclear Forces Treaty. Afterwards, Ms. Smislova changed her study from the Soviet Union to North Korea. During this period she became the Intelligence Community's recognized expert on the subject of North Korea's military and received the National Intelligence Medal of Achievement and commendations from the Republic of Korea. She and a small team of colleagues received the President's Foreign Intelligence Advisory Board's Killian Award for outstanding analytic contributions to the security of the United States in 1999. In 2004, Ms. Smislova joined DHS to stand-up and manage the intelligence group responsible for intelligence analysis and information sharing relevant to U.S. critical infrastructure and key resources. Ms. Smislova has Bachelor's Degree in Political Science from Whitman College in Washington State.

Chel Stromgren, SAIC – Biography not available.

Stephen Taylor, Director, Strategic Plans Division, US Department of Homeland Security – Biography not available.

Kerry Thomas recently joined the Washington Federal Practice of PricewaterhouseCoopers (PWC) after more than ten years of Federal service. Mr. Thomas is currently overseeing the development of PWC's enterprise risk management solution for government agencies, as well as working to develop a

suite of grant-related services for Federal clients. His work includes advising various Federal government clients on homeland security, risk management and grant-related matters. Mr. Thomas previously served as Director of National Preparedness Programs within the U.S. Department of Homeland Security's Office of Grants and Training (G&T). As Director, Mr. Thomas was responsible for the development of policy, as well as oversight and management of a broad range of G&T grants, technical assistance programs and services for the protection of critical infrastructure and key resources. Mr. Thomas also developed a first-of-its-kind program to assess the risks to mass transit and port infrastructure, and has overseen the development of policies and programs for the reuse of surplus Federal equipment for state and local homeland security applications, the novel uses of commercial off-the-shelf communications technology to solve voice and data interoperability issues, and the deployment of layered defensive systems to protect cities against dirty bomb attacks.

Catherine Tinsley specializes in negotiation, conflict analysis and dispute resolution, examining factors that lead to poor versus optimal outcomes. She also studies how cognitive biases influence decision making leading to sub-optimal decisions at both the individual and organizational level. She is a faculty affiliate of WIN at the School for Advanced International Studies at John's Hopkins University, and of the Center for Peace and Securities Studies at the Edmund Walsh School of Foreign Service, Georgetown University. She is also a Zaeslin fellow at the college of Law and Economics, University of Basel, and a CPMR fellow for NASA, which had funded some of her research.

Detlof von Winterfeldt is a Professor of Public Policy and Management in the School of Policy, Planning, and Development (SPPD) at the University of Southern California. He also is the director of USC's Homeland Security Center for Risk and Economic Analysis of Terrorist Events (CREATE). For the past twenty-five years, Dr. von Winterfeldt has been active in teaching, research, university administration, and consulting. He has taught courses in statistics, decision analysis, risk analysis, systems analysis, research design, and behavioral decision research. His research interests are in the foundation and practice of decision and risk analysis as applied to technology, environmental and security problems. He is the co-author of two books and author or co-author of over 100 articles, chapters and reports on these topics. As a consultant he has applied decision and risk analysis to many management problems of government and private industry. He has served on several committees and panels of the National Science Foundation and the National Academies of Sciences (NAS), including a recent appointment to the NAS Board on Mathematical Sciences and their Applications. He is a fellow of the Institute for Operations Research and the Management Sciences (INFORMS) and of the Society for Risk Analysis. In 2000, he received the Ramsey Medal for distinguished contributions to decision analysis from the Decision Analysis Society of INFORMS.