ANSI Homeland Security
Standards Panel (ANSI-HSSP)

A Workshop on:

CBRNE Standards
(Chemical, Biological, Radiological, Nuclear, and Explosives)

Final Agenda

Workshop Co-Chairs:

- **Phil Mattson, Acting Director, Office of Standards, U.S. Department of Homeland Security (DHS)**
- **Robert J Ingram, Battalion Chief, WMD Branch Chief, Fire Department, City of New York**

Tuesday, September 11, 2012

Location: Capital Conference Center
3601 Wilson Boulevard
Arlington, VA 22202

8:30am – 9:00am	**Registration Desk Opens**
9:00am – 9:30am	**Welcome & Opening Remarks** • Phil Mattson, Acting Director, Office of Standards, U.S. Department of Homeland Security (DHS) • Robert J Ingram, Battalion Chief, WMD Branch Chief, Fire Department, City of New York • Mary Saunders, Director, Standards Coordination Office, U.S. Department of Commerce, National Institute of Standards and Technology (NIST)
9:30am-12:30pm	**National Strategy & Federal Implementation of CBRNE Standards** In pursuit of the President's goal of national preparedness, it is essential that the Nation has reliable chemical, biological, radiological, nuclear, and explosives (CBRNE) countermeasures equipment that can be used with confidence for the protection of life, health, property, and commerce. The *National Strategy for CBRNE Standards*, which describes the Federal vision and goals for the coordination, prioritization, establishment, and implementation of CBRNE equipment standards by 2020 was created by the Cabinet-level National Science and Technology Council. It represents the Federal consensus regarding the development of standards for CBRNE equipment used by Federal, state, local, and tribal responders for CBRNE detection, protection, and decontamination. The *Strategy* is the result of a process that included the identification of current research efforts and practices with respect to performance specifications and test methods, as well as standards-development needs of all relevant Federal entities. The panel will provide an overview of the national strategy and the status of implementation of the six goals of the national strategy. **Moderator:** • Phil Mattson, Acting Director, Office of Standards, U.S. Department of Homeland Security (DHS) **Presenters:** • Franca Jones, Assistant Director, Chemical & Biological Countermeasures, White House OSTP • Tod Companion, Program Manager for Standards, Office of Standards, Science and Technology Directorate (S&T), U.S. Department of Homeland Security (DHS) • James C. Cooke, Director, Deputy Secretary of the Army, Test & Evaluation Office, U.S. Department of Defense

	• Keith Holtermann, Director, National Training, Education, and Exercise, Federal Emergency Management Agency (FEMA) • Jonathan Szalajda, Branch Chief for Policy and Standards Development, The National Institute for Occupational Safety and Health (NIOSH)
12:30pm-1:30pm	**LUNCH**
1:30pm-3:00pm	**Implementation of CBRNE National Strategy by Standards Development Organizations (SDOs) Stakeholders** Panelists will be posed a series of questions, including their views on the National Strategy, how the implementation of the strategy impacts their organization and how they have/will implement it in their organization's programs. There will be Q&A by the audience following the panel. **Moderator:** • Christian Dubay, P.E., Vice President & Chief Engineer, National Fire Protection Association (NFPA) **Panelists:** • Jim Bradford, Executive Director, AOAC International • Dr. Alim A. Fatah, Program Manager/Physical Scientist, National Institute of Standards and Technology (NIST), representing ASTM International • Michael P. Unterweger, Chairman IEEE ANSI N42, Group Leader, National Institute of Standards and Technology (NIST), • Harry Massey, Industry Director, National Electrical Manufacturers Association (NEMA) • Ken Willette, Division Manager, Public Fire Protection, National Fire Protection Association (NFPA)
3:00pm-3:15pm	**Afternoon Break**
3:15pm-4:45pm	**Implementation of CBRNE National Strategy by Conformity Assessment and Testing Organization Stakeholders** Panelists will be posed a series of questions, including their views on the National Strategy, how the implementation of the strategy impacts their organization and how they have/will implement it in their organization's programs. There will be Q&A by the audience following the panel. **Moderator:** • Gordon Gillerman, Director of Standards Services, National Institute of Standards and Technology (NIST) **Panelists:** • Cheri Hautala-Bateman, GRaDER® Program Manager, Domestic Nuclear Detection Office, U.S. Department of Homeland Security (DHS) • Chris Tillery, Director, Office of Science & Technology, National Institute of Justice • William Haskell, Project Officer, Policy & Standards Development Branch (PSDB), National Personal Protective Technology Laboratory (NPPTL) / The National Institute for Occupational Safety and Health (NIOSH) • Patricia Gleason, President, Safety Equipment Institute (SEI)

	• David E. Mills, Principal Engineer, Initiating and Indicating Devices, Product Safety,Underwriters Laboratories (UL) LLC
4:45pm-5:30pm	**Closing Remarks/Adjournment** • Phil Mattson, , Acting Director, Office of Standards, U.S. Department of Homeland Security (DHS) • Robert J Ingram, Battalion Chief, WMD Branch Chief, Fire Department, City of New York
Immediately following end of workshop	**Networking Cocktail Reception** Join us on the Terrace adjoining the conference room

Appendix A – Attendance List

First Name	Last Name	Organization
Douglas	Bates	Internal Revenue Service
Angela	Benware	SURVICE Engineering Company
James	Bradford	AOAC
Joseph	Broz	NORC At the University of Chicago
Travis	Bruns	Smiths Detection
Donald	Bryan	Mitre
Gregory	Cade	NFPA
Jessica	Carl	American National Standards Institute (ANSI)
John	Carrano	Carrano Consulting, LLC
Mick	Castillo	Center for Domestic Preparedness
Peter	Chiaro	U.S. Department of Homeland Security (DHS)
David	Colman	U.S. Department of Homeland Security (DHS)
Tod	Companion	U.S. Department of Homeland Security (DHS)
James	Cooke	U.S. Department of Defense
Bert	Coursey	National Institute of Standards and Technology (NIST)
Michelle	Deane	American National Standards Institute (ANSI)
Bruce	DeGrazia	GHSA
Daniel	Driscoll	Dept. of Navy NSWC Dahlgren
Christian	Dubay	National Fire Protection Association (NFPA)
Robert	Eckroade	W.L. Gore & Associates, Inc.
John	Edwards	Smiths Detection
Alim	Fatah	National Institute of Standards and Technology (NIST)
Gordon	Gillerman	National Institute of Standards and Technology (NIST)
Patricia	Gleason	Safety Equipment Institute (SEI)
William	Haskell	The National Institute for Occupational Safety and Health (NIOSH)
Cheri	Hautala-Bateman	U.S. Department of Homeland Security (DHS)
Megan	Holste	DUSA-TE
Keith	Holtermann	Federal Emergency Management Agency (FEMA)
Jeffrey	Horlick	National Institute of Standards and Technology (NIST)
Larry	Hudson	National Institute of Standards and Technology (NIST)
Joselito	Ignacio	U.S. Department of Homeland Security (DHS)
Robert	Ingram	Fire Department City of New York (FDNY)
Franca	Jones	White House OSTP
Lisa	Karam	National Institute of Standards and Technology (NIST)
Michael	Kienzle	W.L. Gore & Associates, Inc.
Konstantin	Kostadinov	Oceana
John	Kulick	Siemens USA
Charles	Laljer	Mitre
Sue	Liblong	The Tauri Group
George	Lozos	Smiths Detection
Harry	Massey	NEMA
Phil	Mattson	U.S. Department of Homeland Security (DHS)
Jonathan	McGrath	U.S. Customs and Border Protection
J. Clay	McGuyer	U.S. Army
David	Mills	Underwriters Laboratories
Tony	Policastro	Smiths Detection
Karen	Reczek	National Institute of Standards and Technology (NIST)
Mark	Reuther	Proengin Inc.
Heinrich	Reyes	U.S. Army

First Name	Last Name	Organization
Hillary	Sadoff	U.S. Department of Homeland Security (DHS)
Mary	Saunders	National Institute of Standards and Technology (NIST)
Petr	Serguievski	U.S. Army Dugway Proving Ground
Peter	Shebell	U.S. Department of Homeland Security (DHS)
Renee	Stevens	U.S. Department of Homeland Security (DHS)
Mark	Stolorow	National Institute of Standards and Technology (NIST)
Paul	Summers	U.S. Customs and Border Protection
Jonathan	Szalajda	NIOSH
Anna	Tedeschi	Strategic Analysis Inc.
Chris	Tillery	National Institute of Justice
Michael	Unterweger	National Institute of Standards and Technology (NIST)
Kenneth	Willette	National Fire Protection Association (NFPA)
Kristen	Williams	U.S. Customs and Border Protection

Appendix B – Speaker Biographies

Cheri Hautala-Bateman
Cheri Hautala-Bateman, Ph.D. is the GRaDER® Program Manager at the Domestic Nuclear Detection Office at the Department of Homeland Security. DNDO serves as the lead federal agency mandated to develop and maintain a nuclear detection architecture in coordination with federal, state, and local stakeholders. DNDO is a unique mix of technical, law enforcement, military and interagency experience that focuses exclusively on preventing nuclear terrorism. The GRaDER Program evaluates commercial off-the-shelf (COTS) Rad/Nuc detection equipment against national consensus standards adopted by the Department of Homeland Security and Technical Capability Standards.

Prior to her tenure at DNDO, Dr. Hautala-Bateman worked for the Remote Sensing Laboratory, Andrews AFB as a manager and senior scientist. Dr. Hautala-Bateman received a B.A. from the University of MN, Morris and a Ph.D in Physics from the Ohio University.

Tod Companion
Tod Companion, Ph.D., is the Program Manager for Standards in the Office of Standards within the Science and Technology Directorate at the Department of Homeland Security. He serves as the Executive Secretary for the Subcommittee on CBRNE Standards of the CHNS and led the development of the National Strategy for Homeland Security. Dr. Companion is a DHS Senior Fellow and works across DHS and the federal government to coordinate standards for detection, response and recovery from all hazards. His federal career has found him at NASA, the US Senate and many parts of the Department of Homeland Security.

Christian Dubay
Christian Dubay is vice president and chief engineer for the National Fire Protection Association (NFPA). In this role, he oversees the codes and standards operations including electrical engineering, fire protection systems engineering, industrial and chemical engineering, public fire protection, and building fire protection and life safety. In addition, he oversees NFPA's codes and standards administration which is responsible for the development process of the 300+ fire safety codes and standards that comprise the national fire codes. Dubay also serves as the chief technical spokesperson for the association

Christian Dubay holds a BS in Fire Protection Engineering from the University of Maryland. He is a registered professional engineer in the states of Connecticut and Massachusetts and is a member of the Society of Fire Protection Engineers. Prior to joining NFPA, Mr. Dubay worked as a Fire Protection Engineer for the U.S. Navy and as a research assistant for the University of Maryland's Fire Protection Engineering Department. Mr. Dubay also served as a fire fighter and emergency medical technician for 10 years in Connecticut and Maryland.

Alim Fatah
Dr. Alim Fatah has a Ph.D. in Organic Chemistry and over 30 years of professional experience in R&D in academia, industry and government. Over the last fifteen years Dr. Fatah has served as Program Manager/Physical Scientist at the National Institute of Standards and Technology (NIST), managing programs primarily supported by the U.S. Department of Justice and the Department of Homeland Security, to develop national equipment standards for emergency first responders and the general public safety community, to protect against chemical, biological, nuclear, radiological and explosives (CBRNE) threats; he has also managed programs to develop non-intrusive drug detection methods and standards; less than lethal (LTL) weapons standards for law enforcement officers, and forensic standards reference materials. Dr. Fatah's primary areas of expertise are: organic chemistry, biophysics and analytical chemistry; materials sciences; equipment evaluation, standards development, and project management. Dr. Fatah is active in several standards organizations such as ASTM where he has been a long standing member of ASTM F23 (Committee for PPE Standards) and E54 (Committee for Homeland Security Standards), where he is currently serving as Chair of Subcommittee E54.01 (Sensors and Detection Equipment Standards); he is a member of the Interagency Board for Equipment Standards and Interoperability (IAB) and its Standards Coordination Subgroup; he is also a member of ANSI-HSSP (Homeland Security Standards Panel), and the British Standards Institution (subcommittee for PPE, PH/3/12).

Gordon Gillerman
Gordon Gillerman, Director of the Standards Services at the National Institute of Standards and Technology (NIST), coordinates and advises federal agencies, US industry and other stakeholders on standards and conformity assessment policy. The division operates the U.S. inquiry Point for the World Trade Organization's Technical Barriers to Trade Agreement and is a key information source for US industry on standards related market access issues.

Gordon has extensive experience coordinating standards policy and development across a wide range of critical issues in the U.S. including cloud computing, health IT, homeland security, safety, health and protection of the environment. Gordon is the Public Sector Co-Chair of the American National Standards Institute's (ANSI) Homeland Security Standards Panel, an expert on conformity assessment systems and their nexus with regulatory and trade issues and a sought after lecturer on standards, conformity assessment and regulation.

Prior experience include leading government affairs for the largest U.S. product safety certification and standard development organization, Underwriters Laboratories (UL) in Washington, DC, and Staff Engineer for the medical device and information technology sectors at UL's Northbrook, IL headquarters.

Gordon has worked collaboratively within the standards community to enhance health, safety, the environment and security throughout his career. In 2008 he received an Environmental Protection Agency Gold Medal, a Department of Commerce Bronze Medal and the ANSI Meritorious Service Award. In 2010 Gordon received a Department of Commerce Gold Medal for leadership in enhancing the performance standards and certification program for law enforcement body armor and EPA's Award for Outstanding Leadership in Collaborative Problem-Solving for his work in guiding the development of a Green Clean-Up standard. In 2012 Gordon was selected to receive the ANSI Gerald H. Ritterbusch Conformity Assessment Medal.

Education:

1986 – Bachelors Degree BSEET – Bradley University – Peoria, IL

Publication:

"Conformity Assessment System Design – Making the Confidence Connection," *ASTM Standardization News,* 2004 and *Standards Engineering Society Journal, 2004*. This article continues to be a primary reference for conformity systems design and policy.

"International Symbols for Medical Devices," *Biomedical Instrumentation & Technology* in 1996 on the use of IEC based symbols for medical devices

"The Early Bird," *The UL Eye* in 1997 on the value of early interaction with manufacturers' design processes.

Patricia Gleason
Patricia Gleason currently serves as President of the Safety Equipment Institute (SEI). She brings more than 25 years of management experience serving non-profit safety-related organizations, and her area of expertise is in conformity assessment in the field of personal protective equipment and safety products.
In this position, Ms. Gleason serves as a member of the American National Standards Institute (ANSI) Board of Directors, the ANSI Conformity Assessment Policy Committee, the ANSI Accreditation Committee, and is also an ANSI Appeals Board member. She is also serving on the ISO Working Group 29 which is charged with the revision of ISO Guide 65, the standard governing the accreditation of third-party certification organizations.
She is a member of the American Society for Safety Engineers. In addition, Ms. Gleason serves as an officer on the American Society for Testing and Materials (ASTM) Homeland Security Committee Executive Committee, the National Fire Protection Association Technical Committee on Hazardous Materials, Protective Clothing & Equipment, and is a member of the National Safety Council Exhibitor Advisory Board, serving as chair from 1997 to 1999.

Ms. Gleason serves as a member of the NIJ Special Technical Committee on CBRN Protective Clothing and Equipment for Law Enforcement and the NIJ Special Technical Committee on Bomb Suits.
Prior to her appointment at SEI in 1994, Ms. Gleason was director of communications with the International Safety Equipment Association and Safety Equipment Institute, where she worked with corporate personnel of safety and protective equipment manufacturers. From 1984 to 1985 she worked with Keller & Heckman as director of government affairs, and from 1982 to 1984 as a liaison/paralegal with the Federal Communications Commission. Ms. Gleason received her MBA from Marymount University and her BS from Frostburg State University.

William Haskell
Mr. Haskell is a Project Officer in the Policy & Standards Development Branch (PSDB) of the National Institute for Occupational Safety and Health (NIOSH) - National Personal Protective Technology Laboratory (NPPTL). NPPTL was established in 2001 to provide world leadership for the prevention and reduction of occupational disease, injury and death for workers and emergency responders who reply on personal protective technologies (PPT). The NPPTL Mission is to prevent work-related illness and injury by ensuring the development, certification, deployment and use of personal protective equipment and fully-integrated ensembles. Mr. Haskell is a member of the Interagency Board (IAB) for Equipment Standardization and Interoperability serving as the Federal Co-Chair for the Equipment Subgroup and Chairman of the IAB Federal Agency Coordinating Committee (FACC). He is a member of the National Fire Protection Association (NFPA) and serves as the Chairman of the Correlating Committee for Fire and Emergency Services Protective Clothing and Equipment. He is also a member of the NFPA Technical Committees for hazard materials, electronic safety, structural/proximity, special operations, and emergency medical service protective clothing and equipment. Mr. Haskell is a member of the American Society for Testing and Materials (ASTM International) F23 Protective Clothing and Equipment's Executive Committee and the E54 Homeland Security Committees. He is a member of the DHS S&T Standards Working Group and the National Institute for Justice (NIJ) CBRN Ensemble Standard - Special Technical Committee. He also represents NPPTL on the International Association of Chiefs of Police (IACP) – Homeland Security Committee. Prior to joining NIOSH, Mr. Haskell worked for 24 years for the Department of Defense at the Army Research Laboratory and the Army Soldier Systems Center.

Keith Holtermann
Dr. Keith Holtermann is the Director of National Training, Education and Exercise for the Federal Emergency Management Agency at the Department of Homeland Security. He has been in the emergency services field for more than 35 years.

Prior to joining DHS-FEMA as a career executive, Dr. Holtermann was the Associate Dean for Health Sciences at The George Washington University (GW), School of Medicine and Health Sciences and served on assignment with FEMA as their founding Director of the National Exercise and Simulation Center. While also at GW, Dr. Holtermann served on a 4-year assignment with

the U.S. Department of Health and Human Services (HHS) in the Office of the Assistant Secretary for Preparedness and Response in a variety of executive leadership charges. At HHS, he worked as the Emergency Operations Branch chief and the Training Exercises and Lessons Learned lead; he also opened and led the Office of International Response Policy. His past key positions at GW include: the principal investigator at the Response to Emergencies and Disasters Institute; assistant dean; chief of 9-1-1 Research and Policy Analysis at the Ronald Reagan Institute for Emergency Medicine; and Director of the Emergency Health Services Program.

Prior to joining GW, Dr. Holtermann served as Director of Emergency Medical Services (EMS) for Jersey City and paramedic coordinator for Hudson County, New Jersey; forensic investigator for the Hudson County, New Jersey, State Medical Examiners Office; director of EMS for the country of Costa Rica; a Health Officer at the U.S. Embassies in Costa Rica and Nicaragua for the U.S. Department of State; and inspector and monitor for the Strategic Arms Reduction and Intermediate-Range Nuclear Forces treaties in Russia. He has also been on faculty at multiple colleges and universities.

Dr. Holtermann had an active consultant practice with clients such as General Motors; Hughes Aircraft; the International Longshoremen's Association–International Shippers Association; the U.S. Agency for International Development's Office of Foreign Disaster Assistance; the Agency for Health Research and Quality; The Defense Advanced Research Projects Agency; the Saint Barnabas Health Care System; the U.S. Defense Research Projects Agency; and the United Nations–World Health Organization–Pan American Health Organization. Dr. Holtermann has also performed emergency-related research and/or consulting in Kuwait, Saudi Arabia, Oman, Taiwan, Tatarstan, India, the United Kingdom, Germany, France, Spain, Thailand, Columbia, Bahamas, Jamaica, Mexico, and all of Central America. He is fluent in Spanish and has written a text on EMS Development for the United Nations/World Health Organization/Pan American Health Organization.

Dr. Holtermann is Registered Nurse and spent more than 30 years regularly practicing clinically as a Paramedic, Certified Emergency Nurse, Trauma Nurse Team leader, former Disaster Medical Assistance Team member, and Basic and Advanced Cardiac Life Support instructor. He has worked clinically as a paramedic in New Jersey, and as an Emergency or Trauma Nurse Team leader in New Jersey; San Diego; Baltimore; Washington, DC; and overseas.

Dr. Holtermann's formal degrees include a Bachelor of Science in Nursing from New York University; a Master's of Business Administration from National University; Master's of Public Health from San Diego State University; and a Doctor of Public Health from Johns Hopkins University with a concentration in Health Policy.

Robert Ingram
Robert Ingram has 38 years in the Fire Service, 31 years working for the Fire Department, City of New York. He is assigned to the FDNY Center for Terrorism and Disaster Preparedness as the WMD Branch Chief. Chief Ingram is a member of the NFPA 472 Standards Committee for Hazardous Materials Response Competencies, International Association of Fire Chiefs Haz-Mat Committee, and a Master instructor in Hazardous Materials Response for the International Fire fighters Association. Chief Ingram has been a member of the Inter-Agency Board for the Standardization and Interoperability of CBRNE Equipment since 1999 and was Chair from October 2004 until February of 2009. Chief Ingram participated in the development of several ANSI N.42 equipment standards, ASTM Radiological and Biological response standards, a member of NCRP's committee for Report 165 and was an advisor for the development of NIJ's PPE Ensemble Standards for LE personnel. Chief Ingram has a Bachelor's Degree in Fire and Emergency Management and Master's Degree in Homeland Defense and Security from the Naval Post Graduate School.

Franca Jones
Franca R. Jones was born on November, 9, 1969 at Beth Israel Hospital, Manhattan, New York. She attended St. John's University in Queens, New York, and received a B.S. and M.S. in biology in 1991 and 1994, respectively. Dr. Jones completed her Ph.D. in microbiology and immunology in 1999 at the University of North Carolina, Chapel Hill. Following her graduate work, she conducted her postdoctoral studies at the University of Virginia, Charlottesville.

Following completion of her postdoctoral studies, Dr. Jones accepted a direct commission as a Lieutenant in the U.S. Navy, Medical Service Corps in April, 2002. Since accepting her commission, Dr. Jones has had a variety of challenging assignments focusing on disease surveillance, infectious disease research, biodefense operations, and biological security. Her first assignment was as the Head, Bacteriology Department at the Naval Medical Research Center, Detachment, Lima, Peru. Subsequent military assignments include Branch Head for Clinical Microbiology at National Naval Medical Center (NNMC), Bethesda, MD, Navy's Biological Defense Fellow, Silver Spring and Fredrick, MD, Division Officer for the Biological Defense Operations Department at the Naval Medical Research Center, Silver Spring, MD, DoD Biological Security and Biosurveillance Lead in the Office of the Assistant Secretary of Defense for Nuclear and Chemical and Biological Defense (OASD(NCB)). Dr. Jones was deployed to Kandahar, Afghanistan as a plans, operations, medical intelligence officer from September 2009 to April 2010 and returned to OASD(NCB).

In September 2010, Dr. Jones was selected for a detail in the Office of Science and Technology Policy (OSTP) where she is currently the lead for chemical and biological defense research, development, testing, and evaluation policy, and biosecurity and biosurveillance policy. Since beginning her detail at OSTP almost two years ago, Dr. Jones has made significant strides towards developing coordinated, interagency research and development policies in the areas of chemical and biological defense. Dr. Jones continues to serve as an active duty Naval Officer.

Harry Massey
Harry Massey has worked at NEMA since 2003. He was managed six product sections including: Carbon/Manufactured Graphite, Industrial Automation Control Products and Systems, Power Electronics, Industrial Imaging and Communications, Fuse and Electric Vehicle Supply Equipment/Systems.
Experiences include:

- Expanding partnerships with manufacturers in support of building codes and marketing awareness activities.
- Coordinating member recruitment and connecting top decision-makers of new member companies with association services.
- Organizing industry efforts to identify future engineering and e-commerce standards.
- Marketing association projects, products, meetings and publications to major international and national companies
- Coordinating development of consumer and market surveys for products, publications and education/certification programs.
- Coordinating national advertising campaign for association and certification programs.
- Serving as "industry specialist" to the association, media, industry and consumers.

Prior to NEMA, he was executive director at the Plumbing-Heating-Cooling Contractors - National Association where he lead a campaign to bring manufacturers and contractors together in promoting quality product and quality installation. He also worked for the Consumer Electronics Association (CEA), Arlington, Virginia where he managed the Mobile Electronics Division and worked closely with major automobile manufacturers.
Originally from North Carolina, Harry graduated from East Carolina University.

Philip Mattson
Mr. Philip J. Mattson (Phil) formally joined the Department of Homeland Security Science and Technology Directorate on 28 September, 2008 as member of the Office of Standards.

Mr. Mattson came to DHS from the National Institute of Standards and Technology's (NIST) Office of Law Enforcement Standards (OLES) where he served as the Program Manager for Critical Incident Technologies. While serving at NIST, Mr. Mattson managed a multi-million dollar program with funding from DHS, NIJ and NIST to develop a suite of standards to support the law enforcement and emergency response communities. This program was transferred to DHS in 2004, where he continued to manage and direct this effort. Mr. Mattson's currently serves as the program manager for project execution and the acting Director of the Office of Standards, and acting DHS Standards Executive.

Mr. Mattson served 20 years in the United States Army as an engineer officer from 1977 until retiring at the rank of Lieutenant Colonel in 1998. He served in troop unit and staff assignments as a combat engineer and as a nuclear physicist with the Armed Forces Radiobiology Research Institute, Defense Nuclear Agency and Field Command, Defense Special Weapons Agency.

Mr. Mattson graduated from Oregon State University with a Bachelor's of Science degree in Nuclear Engineering Technology and from the Naval Postgraduate School with a Master's of Science degree in physics, with a concentration in nuclear weapons design and effects. Military training includes the Engineer Officer Basic and Advanced Courses, Airborne School, Nuclear Research and Operations Officer Course, Nuclear Weapons Orientation Advanced Course, Facilities Engineering and Management Course, and the US Army Command and General Staff College. He has extensive training in nuclear weapons effects, operational planning, and radiological incident response. He currently serves as the Vice Chair of the ASTM E54 Committee on Homeland Security Applications, Federal Co-chair of the InterAgency Board for Equipment Standardization and Interoperability (IAB) Standards Coordination SubGroup, co-chair of the Committee on Homeland and National Security Subcommittee on CBRNE Standards, and the U.S. Public Sector Representative to the ISO Special Advisory Group on Security. He has expertise in personal protective equipment standards, law enforcement related standards, explosives mitigation, nuclear weapons effects testing, and standards development program development and management. Certifications include Engineer-in-Training (EIT) and Registered Professional Engineer (PE).

David Mills
David holds a Bachelor of Science degree in Electrical Engineering from Purdue University, and served 3 years in the Army from '84-'87. David has worked for UL 19+ years and holds the current title of Primary Designated Engineer (PDE) at Underwriters Laboratories(UL). Areas of expertise within UL include product certification, standards development, testing, test research, test method design and test equipment implementation and automation, for the detection, electrical shock and fire safety associated with initiating and indicating devices. David brings a wealth of knowledge from a multi-functional organization like UL which is a Standards Development Organization (SDO), Testing Organization, and Certification Organization. David primarily operates in the public sector arena but has been involved with government related programs through work with organizations such as IACP, ASTM, Battelle, FPRF, CPSC, NIST, NFPA, ECBC and DHS in the area of standards development, test method development, research and/or product certification.

Jonathan Szalajda
Jonathan Szalajda is the Branch Chief for Policy and Standards Development at NIOSH's National Personal Protective Technology Laboratory. His branch develops and promulgates Personal Protective Equipment (PPE) related standards and regulations. He holds a BS degree in Chemical Engineering from Penn State and MS degrees in engineering from the George Washington University and the University of Pittsburgh. He has worked in the field of respiratory protection and PPE for 25 years. Jon is currently involved with several NFPA and ANSI standards committees, and is the Vice – Chair for the ANSI Z88 Committee on Respiratory Protection.

Mary Saunders
Mary Saunders currently serves as Director, Standards Coordination Office, NIST. In this capacity, she represents NIST and its significant interests in the standards and conformity assessment community and advises NIST leadership on policy and strategy as they relate to NIST's role in standardization. Her responsibilities include serving as a central point of focus for standards and conformity assessment policy for NIST, coordinating with the private sector and other federal agencies on standardization activities, leading interagency standards coordination, and leading NIST's standards interactions with foreign governments.

Prior to her return to NIST, Ms. Saunders served as Deputy Assistant Secretary for Manufacturing and Services, where she managed the day-to-day operations of the International Trade Administration's (ITA) Manufacturing and Services division.

At NIST, she served in a variety of positions during a 15 year career, including Chief, Standards Services Division. In that capacity, she administered a range of standards-related programs to provide solutions to regulatory and industry needs and increase trade opportunities. Over the course of her Commerce career, Ms. Saunders has managed programs to advance U.S. business and technology interests in the European Union, Russia and the Newly Independent States, China and Japan. She has worked with a broad range of sectors on competitiveness and market access issues, including information and communications technologies, telecommunications, medical devices, oil and gas equipment, construction equipment, energy technologies and consumer goods.

Ms. Saunders has been in federal service since 1979, serving in a variety of positions with the Department of the Army, including the Office of Institutional Research, U.S. Military Academy, before joining ITA in 1986.

George C. (Chris) Tillery
Mr. Tillery is the Director of the National Institute of Justice's Office of Science and Technology. He has more than 25 years of experience in assisting industry and government agencies identify military and responder technology needs, and in implementing and managing programs and projects to address those needs. He received a B.S. in Engineering from the United States Military Academy at West Point, NY.

Michael Unterweger
Michael P. Unterweger has a Ph.D. in Nuclear Physics from St. Louis University. He joined the National Institute of Standards and Technology (NIST) (formerly the National Bureau of Standards) in 1972. He has served as a research scientist in development of national standards for radioactivity. His present position is Group Leader of the Radioactivity Group of the Ionizing Radiation Division in the NIST Physics Laboratory. He has had extensive experience in the development of national and international standards through ANSI and IEC. He is acting as coordinator for the development of ANSI standards for radiation detection instrumentation for homeland security. He is a member of ASTM, ANSI, IEEE, IEC, NCRP. His research includes radioactivity, internal gas counting, ionization chambers, microcomputers, micro-calorimetry, and alpha-particle counting.

Ken Willette
Kenneth R. Willette has 35 years' experience in fire service and emergency preparedness planning. He has served as a airfield/structural firefighter for the Department of Defense and served the Wilbraham, MA. Fire Department for 26 years, rising through the ranks to serve 7 years as Chief of Department and Emergency Management Director. In 2003, he accepted command of the Concord MA. Fire Department, serving as Fire Chief and Emergency Management Director until 2009. In 2010, he joined the National Fire Protection Association as Manager of the Public Fire Protection Division . He earned a BS in Fire Protection Administration from Empire State University, Stony Brook, NY and is a Past President of the Fire Chiefs Association of Massachusetts.