

EMERGENCY ALERTING POLICY
WORKSHOP

ITEM 1.13

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SPEAKER PROFILES



Mr. Doug Allport is currently serving as the acting General Manager for the Canadian Multi-Agency Situational Awareness System – Information Exchange (MASAS-X), under contract to the Centre for Security Science (CSS) Government of Canada as a Special Advisor. Doug's volunteer efforts include the Executive Director role for the Canadian Association for Public Alerting and Notification (CAPAN), CAPAN's representative on the National (Public) Alert Aggregation and Dissemination System Governance Council and various OASIS committees, a former Trustee of the U.S. Partnership for Public Warning (PPW) where he co-chaired the technical committee, as well as numerous coaching and sport association roles. Doug has played a leading role with education, development and adoption initiatives associated with the use of open structured information standards and systems, including the Common Alerting Protocol (CAP), Canadian Profile of CAP (CAP-CP), and MASAS. Doug's career includes general, product, project and key account management roles in Canada and the U.S., working with and for governments and major corporations, along with the licensing of his patented alerting methodology. His education includes a Bachelor of Administration with a major in marketing.

**Sessions 2.1,
4.1, and
Demos**



Mr. Art Botterell is a specialist in public warning and emergency information systems with more than forty years hands-on in public safety and emergency management as well as extensive private sector and mass media experience. Mr. Botterell has designed, built and operated a variety of advanced public warning and public information systems for the U.S. Federal Emergency Management Agency and for state and local agencies. He has served as a consultant on such systems in the U.S., Asia, Australia, Europe and the Caribbean. Mr. Botterell conceived and led the development of the international Common Alerting Protocol interoperability standard. He was a member of the FCC's Commercial Mobile Alerting Advisory Committee and numerous other scientific and policy panels, and was a founding trustee of the non-profit Partnership for Public Warning. In addition Mr. Botterell has experience as a broadcast journalist, a broadcast engineer and an award-winning Internet content producer. He is currently Disaster Management Consultant at Carnegie Mellon University's Silicon Valley campus at the NASA Ames Research Center in California.

**Sessions
2.1 & 4.1**



Mr. Don Beattie joined CellCast Technologies in 2008 as Lead Software Architect. As lead software architect, he is responsible for the development of the Aggregator/Gateway and Canary products produced by the company. Prior experience was with StellarRAD. Don has a B.S. in Computer Science from the University of Southern Maine (1991).

Demos



Mr. Maurizio Blasilli is a software engineer at World Food Programme since 2003. He is working for the Emergency Preparedness branch, on setup and running several systems to be used to monitor the situations worldwide and to support the WFP operations. From 2005 he is the technical responsible of Humanitarian Early Warning Service (HEWSweb), a service of the Interagency Standing Committee on Preparedness about natural disasters information. His interests in web GIS data visualization and web standards, allowed him to build applications that have been used with success by WFP staff and partners in several countries. Maurizio graduated as Software Engineer and lives in Rome, Italy.

**Sessions 2.1,
4.1 & 7.2**



Mr. Eliot Christian is a consultant, retired from the World Meteorological Organization (WMO) and the U.S. Geological Survey (USGS), although he continues with USGS as a volunteer. He has been a leader in several broad programs including the international Register of Alerting Authorities, WMO Information System (WIS), Global Earth Observations System of Systems (GEOSS), DisasterHelp.Gov, Global Information Locator Service (GILS), and the Global Change Data and Information System. Eliot had a key role in technical standards such as the Common Alerting Protocol (ITU-T Recommendation X.1303), ISO/IEC 11179 Metadata Registries, and ISO 23950, Information Search and Retrieval. He is expert in metadata and in networked information discovery. He is especially known for promoting decentralized information discovery and he has had a major role in shaping principles of scientific data management, especially the use of library science techniques for data and information systems interoperability.

Session 5.1



Ms. Jeanne Foust is Global Manager for Interoperability and Standards at Esri. She manages Esri's work with Standards Organizations. A geographer trained in Remote Sensing and GIS, she did her graduate work at University of South Carolina and has been with ESRI for over 20 years. Prior to coming to Esri she lived for 10 years in West Africa.

Session 6.1



Mr. Patrick J. Gannon is an entrepreneur and international consultant on strategic product marketing and the application of Internet software standards. He also serves as Board Director and CEO of Warning Systems, Inc. Previously he served as President/CEO and Board Director of OASIS Open from 2001-2008. In 2005, Gannon began work with ITU to develop the cooperation framework for the series of international CAP Workshops and adoption of the CAP OASIS Standard as ITU-T Recommendation X.1303. Mr. Gannon was appointed in 2006 as a high-level Advisor to the United Nations Global Alliance for ICT and Development (UN GAID). He also served from 2000 to 2005 with the United Nations Economic Commission for Europe (UNECE), as Chairman of the Team of Specialists for Internet Enterprise Development, which advised governments in transitional economies on best practices for electronic business. Gannon also served as Vice President of Strategic Programs for the CommerceNet Consortium in the 1990s, directing research and development efforts in new Internet commerce standards such as XML. While at CommerceNet, he became the first Project Leader for RosettaNet and served as Executive Director for the Open Buying on the Internet (OBI) initiative.

Session 1.1



Mr. Steve Hakusa is a software engineer at Google. He currently works with Google DotOrg's Crisis Response team, which focuses on making critical information more accessible during natural disasters and humanitarian crises. Steve has been at Google since 2005, where he has worked on numerous other projects in Google's advertising system. In his 20% time at Google, Steve has helped improve access to information in Africa using Google's SMS search and local health and agriculture databases. Steve graduated from New York University with degrees in Computer Science and Electrical Engineering and lives in New York City.

Session 6.2



Mr. Khalil Hayek is the leader of the infrastructure and development group of the Canadian Hazards Information Service (CHIS), a service of Natural Resources Canada that monitors and reports on natural and man-made hazards including earthquakes, tsunamis, volcanic eruptions, geomagnetic storms and nuclear accidents. Since starting with CHIS in 1997, Mr. Hayek has been involved with all aspects of the development and operation of the earthquake detection and notification system. He is a member of the CAP Canadian Profile (CAP-CP) working group and a number of Canadian working groups on public alerting and situational awareness. He is currently involved in projects to provide CAP-CP alerts of earthquakes and geomagnetic events to the Canadian Multi-Agency Situational Awareness System (MASAS) and CAP-CP alerts to a national railway operator.

Session 7.5



Mr. Marcel Hechel is the technical leader for the activities of Fraunhofer in the EU project IDIRA. Since I had completed my studies of informatics in 2009, I have been working at the Fraunhofer Institute for Transportation and Infrastructure Systems (IVI) in Dresden Germany. In our group we are mainly working on MobiKAT: a lightweight mobile geographic information system for emergency organizations. It provides functionalities for tactical planning and decision support. As the technical leader for the activities of Fraunhofer in the EU project IDIRA I have "contact" to CAP since the beginning of 2012. I attend this workshop to learn more aspects about CAP and alerting.

Session 7.4



Mr. Craig Hodan has been serving as the Chief of the Dissemination Systems Branch within the National Oceanic and Atmospheric Administration's National Weather Service since 2005. He is responsible for conceiving, designing, implementing, and managing telecommunications systems required for disseminating meteorological and hydrological data, reports, information, and weather warnings to the public, public safety agencies, and the mass news media through Governmental and public telecommunications systems. His responsibilities include overseeing and coordinating engineering and technical program management for the NOAA Weather Radio (NWR) program, the NOAA Weather Wire Service (NWWWS), and the International Satellite Communications System (ISCS). He works with diverse governmental and industry entities promoting and improving the delivery of All-Hazard warnings. Prior to the National Weather Service he was employed by the U.S. Department of Navy's Naval Sea Systems Command for 27 years in various system engineering and program management positions in and around Washington DC.

Session 8.6



Ms. Elysa Jones is an internationally recognized expert in Emergency Interoperability Communications via Data Messaging. Elysa is Chair of the OASIS Emergency Management Technical Committee (EM-TC) since 2004 and through her leadership; the EM-TC has developed the Common Alerting Protocol (CAP) Standard, which is also an ITU-T recommendation. She is a founding member of the Partnership for Public Warning, works with the Emergency Information Infrastructure Project and with government officials to understand the requirements for open standards adoption in next-generation alert and warning systems for emergency notification. As Chief Technology Officer of Warning Systems, where she has worked since 1998, she directed the design, development and deployment of over 100,000 Tone Alert Receivers for the Chemical Stockpile Emergency Preparedness Program. She developed web-based control systems many types of tone-encoded devices capable of being activated by CAP messages. Previously, she worked for the US Army Strategic Missile Defense Program. She holds a Baccalaureate Degree in Economics and Masters Degree in Computer Science. She is an advocate for the adoption of EDXL messaging standards and implementation of CAP.

Session 5.2



Mr. Gao Kang has been a member of staff at Electrical and High Frequency Laboratory of Politecnico di Torino, Italy from 2007 to 2009. Currently he works as an engineer at National Meteorological Information Center of China Meteorological Administration and is devoted largely to CMA's Satellite Broadcast System for Meteorological data. He has launched the application analysis of CAP in China since 2010. At the present time, as a major member of project group he is mainly occupied with imbedding CAP within China Public Emergency Alerting System which will be completed at the end of this year and engaging largely in promoting the generation of CAP China Profile.

Session 8.3



Mr. Paul Klein, since 2004, serves as the Executive Vice-President of International Sales & Marketing for CellCast Technologies, LLC. CellCast has developed its Emergency Alert Message System for use by government agencies in countries around the world and promotes the implementation of Common Alerting Protocol for emergency messaging. He has served as Vice-President for the Global Center for Leadership in Trust, an international non-profit foundation based in the Principality of Lichtenstein. He was the Co-Founder and Program Chair of the International Banking Information Technology Forum in Basle Switzerland, an exclusive symposium attended by chief executives from banking corporations, as well as, by government regulatory and security leaders. Mr. Klein is a Founder and Director of Authentic Enterprises, Inc., and the author of several books and manuals utilized by major corporations and trade groups such as the International Association of Advertising & Exhibition Managers, the International Food Marketing Institute, Safeway Packaging and the Miller Brewing Company. Paul works with the CellCast development and technical team that advocates CAP implementation, along with traditional warning methods (SMS) and the global emerging wireless technology, cell broadcasting.

Session 6.4



Ms. Haleh Kooval is the Chief of the WMO Public Weather Services (PWS) Programme and in that capacity has set up and developed the PWS programme according to the resolution of the WMO Congress. She is responsible to provide guidance and assistance to Members of WMO on the development, improvement and functioning of their national PWS Programmes, which represent the most visible part of the work of National Meteorological and Hydrological services (NMHSs), for the continual improvement of quality in the delivery of weather and related environmental services to user communities, and in particular to the public. Haleh is a physics graduate of the Imperial College of London University, and completed her post graduate studies in geophysics, before turning to studying meteorology. She started her career in meteorology as an operational forecaster focusing on tropical meteorology. Later she served as the Head of the Brunei Meteorological Service and the Permanent Representative of Brunei with WMO. Her wide experience in service delivery is derived from the years she spent in the operational environment of a Meteorological Service as well as extensive work she has done with many NMHSs in developing and improving the skills of meteorologists for delivering services. As the Permanent Representative of Brunei, Haleh was elected the Vice-President and then the President of the WMO Regional Association V (South West Pacific) and served as a member of the WMO Executive Council.

Session 8.1



Mr. Kenichi Kuma is a Counsellor, Administration Department of Japan Meteorological Agency (JMA). He coordinates scientific and technical matters related with meteorological services. His career includes various positions in Forecast department of JMA, where he worked for R&D of Numerical Weather Prediction and worked for the coordination of disaster prevention information. He has experienced director-level position of the several divisions such as aeronautical meteorology division of administration department, numerical prediction division, and administration division of forecast department.

Session 8.2



Mr. Fredrik Linde is head of the warning and forecasting service at the Swedish Meteorological and Hydrological Institute (SMHI). The warning and forecasting service is divided into three groups which produces warnings and forecasts within the areas of Meteorology, Hydrology and Oceanography. The forecasters produces warnings in a system based on CAP-standard. Fredrik represent SMHI in a group of governmental agencies dealing with crises management. He also took part in the EU-project MASSCRISCOM, a project focusing on Mass Crisis Communication with the public.

Session 8.5



Mr. Don Miller served as the Telecommunications and Warnings Systems Manager for Washington State Emergency Management for over 20 years. He has over 35 years of experience in Telecommunications Engineering, Computer Programming, Networking, Warnings Systems and Information Systems Management. He had the responsibility for the operation and maintenance of statewide networks to include the Emergency Alert System, Microwave networks, Multiple Radio systems, Wide Area and Local Area Computer and Telephony networks, Tsunami Siren Warning systems and Satellite networks. He was a member of the Board of Trustees for the Partnership for Public Warning.

**Session 3.3
& Demos**



Mr. Richard Moreau is currently the Chief of the Interoperability Development Office with Public Safety Canada. Prior to his recent arrival with Public Safety Canada, he accumulated 30 years of experience in the field of Emergency Management and Response in both the private and public sector. In 2006, he completed 25 years of service in the Canadian Forces; most of it spent in operational assignments in Canada and overseas. But it is as the Officer in charge of the National Defence Command Center that he gained experience in emergency management in particular in the areas of information management, situational awareness, incident management and support to decision-making. Since joining the private sector in 2006, he has developed a comprehensive Emergency Management Framework used to benchmark clients existing plans, identify capability gaps and develop customized solutions for them. In addition Mr. Moreau has extensive experience and knowledge in the field of planning from the strategic to the tactical level under both normal operational conditions and during emergencies and crises. He has worked closely with both public and private partners in the design and delivery of exercises and emergency management training for senior executives as well as the design and operations for Emergency Operations Centers. He also appeared frequently as a guest speaker on situational awareness and on the role of leaders in emergency management. He remains active in the Canadian Army Reserve. Richard is married to Sylvie and they have 4 children.

Session 3.1



Mr. Orhan Osmani works for the Telecommunications Development Bureau of International Telecommunications Union (ITU), Emergency Telecommunications Officer. Has a degree in Computer Engineering and holds a Masters Degree in IT from Charles Stuart University – Australia. Currently works on Emergency Telecommunications and Climate Change issues. Orhan also contributes to WSIS Action Line 7 on e-Environment and ITU-D Question 24/2 Study Group 2 – ICT and Climate Change.

Session 7.1



Mr. Norm Paulsen is a senior meteorologist for Environment Canada and one of the principle architects of the CAP Canadian Profile (CAP-CP). Through his expertise on data engineering, the CAP Canadian Profile remains interoperable with CAP systems worldwide while at the same time addressing the local needs of Canada. Norm gained his expertise by being involved in all aspects of warning message production within Environment Canada since 1991. In 2000, Mr. Paulsen was promoted to his current position involving the analysis and strategic planning for EC's alerting and warning programs. Mr. Paulsen's work also enabled Environment Canada to successfully undertake several key projects including the development of a pilot CAP messaging service in 2008 which then led to an Operational Service in 2012. Mr. Paulsen represents Environment Canada in all collaborative Alerting activities involving CAP both domestically and internationally.

Session 1.3



Mr. Damon Penn began serving as the Assistant Administrator of the National Continuity Programs (NCP), Federal Emergency Management Agency, in September 2009. Since joining the Agency, he's been instrumental in refining continuity at all levels of government. Mr. Penn also deployed to Haiti as the DHS task force leader for assistance to the survivors of the 2010 earthquake. He joined NCP after retiring from the U.S. Army as a Colonel. His military career included senior staff positions, leadership of an advisory team in Iraq, and brigade and battalion commands. Mr. Penn's association with FEMA began in 2004 when he served as the Defense Coordinating Officer (DCO) for Florida. There he was part of the FEMA emergency response team, responsible for all Department of Defense assets, providing millions of pounds of relief supplies and other forms of support to assist the Florida emergency management effort. He also served as the DCO the following year in support of Mississippi's efforts during hurricane Katrina.

Prior to joining NCP, Mr. Penn spent more than two years as the Director of Operations for the Joint Force Headquarters (JFHQ), National Capitol Region and the United States. While leading the JFHQ, Mr. Penn oversaw intelligence, operations, force protection/anti-terrorism, planning, operations center, training, ceremonies, and security for the largest and most influential directorate in the command. Mr. Penn worked directly with local, state, and federal partners to reinforce the DoD's role as a supporter of the lead federal agency during a crisis. During his time at the JFHQ, Mr. Penn directed numerous national security events, including the 2009 Presidential Inauguration, two State of the Union addresses, and official visits from Queen Elizabeth and Pope Benedict XVI. Additionally, during his 30-plus years with the U.S. Army, Mr. Penn held numerous other leadership positions, including US Army Advisor to the Iraqi National Police, Commander of the Training Support Brigade in Fort Knox, KY; Armor Branch Chief at U.S. Army Human Resources Command in Alexandria, VA; Inspector General with the 4th Infantry Division in Fort Hood, TX; as well as Battalion Commander of the 1st Battalion, 67th Armor, 4th Infantry Division, also at Fort Hood, TX.

Mr. Penn has received several top honors during his distinguished career with the military; including, two Legion of Merit awards, the Bronze Star Medal, two Defense Meritorious Service Medals, five Meritorious Service Medals, four Army Commendation Medals, and the Combat Action Badge, among many other honors and awards. Mr. Penn studied at the U.S. Navy War College, earning a Master of Arts in National Security and Strategic Studies in 2003. He also earned a Master of Science in Administration from Central Michigan University in 1993 and a Bachelor of Science degree in Criminal Justice from the University of North Carolina, Charlotte in 1981.



Mr. Efraim Petel, a specialist in emergency warning for over 35 years personally designed the national public alert and notification systems for Israel, Singapore and Taiwan, and the first CAP based state-wide systems in California and Hawaii, as well as community-based emergency warning systems in various parts of the world. Mr. Petel participated as an invited member of numerous policy setting groups and the 1993 FCC Emergency Alert System development process, the Common Alerting Protocol development and the FEMA Integrated Public Alert and Warning system protocol enhancements of last year. Efraim Petel is a board member of the CAP-EAS Industry group organization that established the implementation guidelines for Integrated Public Alert and Warning System (IPAWS) CAP Emergency Alert System (EAS) equipment.

Mr. Petel is currently participating on an International Team of Experts as a Project Lead for the United Nation Development Program's implementation of an EU funded regional CAP-based pilot emergency warning system network for the Dutch and UK Overseas Territories and Countries in the Caribbean. Efraim is also a member of the leadership team developing the CAP-based earthquake early warning system in Mexico. Mr. Petel is President of Alerting Systems Solutions, Inc., a California company developing CAP based Warning Systems and Components for Government, Industry, and University Campuses.



Mr. Rick Ruth has more than 20 years of experience in sales, marketing, and business development in the telecommunications field. He was previously the general manager of business development for PowerNet Global Communications, where he developed business relationships with telecom carriers, cable multisystem operators, digital subscriber line aggregators, and field installation providers to enable the sale and deployment of next-generation services. Prior to that, he held senior product management positions at Cincinnati Bell Telephone and Cincinnati Bell Wireless, where he was involved with the deployment of new products and DRS.

Session 6.3



Mr. Brahim Sanou was elected Director of the ITU Telecommunication Development Bureau by the Plenipotentiary Conference in October 2010 in Guadalajara, Mexico. He took office on 1 January 2011. A national of Burkina Faso, Mr. Sanou has more than thirty years experience in the telecommunication and ICT sector, both at a regional and at an international level.

Session 1.1

During his ten years as Head of the ITU Regional Office for Africa and Liaison Officer to the African Union and the United Nations Economic Commission for Africa (UNECA), he contributed substantially to the development of the African telecommunication/ICT sector and played a key role in the organization of the Connect Africa Summit, held in Kigali, Rwanda in October 2007 and in its follow-up. Prior to working for the ITU, Mr. Sanou held several high-level positions in the Posts and Telecommunication Services in Burkina Faso.

Mr. Sanou has served as Head of Burkina Faso's delegation to various international and national conferences and as Governor representing 15 African countries on the Board of INTELSAT. He also served for almost 10 years as Burkina Faso's representative on the ITU Council. He holds an Engineering degree from the Ecole Nationale Supérieure des Télécommunications (ENST) in Paris and a post-graduate diploma from the Centre for Financial, Economic and Banking Studies in Paris.



Mr. Christoph Schmutz (PhD) is Head Concepts and Coordination in the Analysis and Forecasting Division of the National Meteorological Service of Switzerland, MeteoSwiss. He has a background as a geographer and climatologist. He served in private companies as a general weather forecaster. After two years as operational research consultant and business processes and organization manager in logistics companies, he changed to MeteoSwiss in 2003 as a senior expert for aviation meteorology. From 2008 to 2011 he was Head of Staff Office in the Weather Division of MeteoSwiss at the interface between resources planning, controlling and weather forecasting. Since 2012 he is responsible for the "Emergency and Crisis Intervention Organization" of MeteoSwiss. He also represents MeteoSwiss in the national "Steering Committee Intervention against Natural Hazards" (strategic level) and is one of the deputy chief of staff of the national "Specialized Staff Organization Natural Hazards" of Switzerland (tactical and operational level).

Session 8.4



Nigel Snoad is product manager for the Google Crisis Response project, which is changing how citizens stay informed during crises by providing information and tools to help people collaborate and build resilient communities. Before joining Google in 2011, he led R&D on humanitarian systems at Microsoft and spent several years at the United Nations helping lead pandemic contingency planning and the UN Joint Logistics Center's responses in Iraq, after the 2004 tsunami and in Darfur. Nigel has taught courses in Humanitarian Design at Parsons the New School for Design, partnering with groups like the World Bank and the Red Cross to develop innovative design-thinking approaches to complex humanitarian problems. Nigel has a PhD in complex adaptive systems from the Australian National University and has held research fellowships at the Santa Fe Institute and Stanford University.

**Sessions
2.1 & 4.1**



Mr. Nuwan Waidyanatha is a LIRNEasia Research Fellow working collaboratively with multiple national and international stakeholders applying his academic and industrial experience designing and developing early warning systems and interoperable emergency information exchange platforms. He applied those concepts, especially the use of the Common Alerting Protocol content standard, in research projects: Interactive voice-enabled messaging with Community Emergency First Responders, mobile health-related epidemiological surveillance and notification, Cell-Broadcasting, CAP alerting over the HF data platform, and last-mile community-based hazard information dissemination. These action research projects contribute evidence towards his developing an abstract classification framework for comparing and contrasting early-warning systems. Nuwan is a FOSS advocate and his initiatives have much collaboration with the Sahana Software Foundation, active as a project management and standards/interoperability committee member, playing a key role in contributing his knowledge to developing the Sahana Alerting/Messaging Broker. Nuwan works closely and advises the Sarvodaya Shramadana Movement, Sri Lanka's largest humanitarian NGO. He is a founding and board member of the 2004 Indian Ocean post-tsunami-work volunteer group: Community Focused Disaster Response. Previously, worked as a Software Architect/Operation Research Analyst for Infocraft Limited, Business Analyst for Sri Lanka Institute of Information Technology, Analyst Programmer for APS Healthcare (USA), Operations Research Lecturer at the University of Montana (USA) and an Analyst Programmer at the Montana World Trade Center (USA).

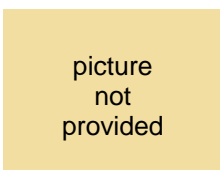
Session 3.4



Ms. Gina Wilson has been working over the past twenty years in senior-level and executive positions in the Aboriginal community and federal government. She worked in her First Nation community of Kitigan-Zibi as Executive Director of Health and Social Services and as Director of the Wanaki Treatment Centre. Ms. Wilson worked from 1992-97 as Senior Manager with the Assembly of First Nations (AFN), a national Aboriginal organization, representing First Nation communities in Canada and then joined the Federal Government as Director General of the Aboriginal Issues branch at Correctional Service Canada. Gina led the renewal of the Aboriginal Human Resources Development Strategy (AHRDS) in 2005, before moving to the Privy Council Office (PCO) as Director General of Engagement in the Aboriginal Affairs Secretariat.

Session 1.1

Gina Wilson was appointed in 2005 as Assistant Deputy Minister (ADM) with Indian Residential Schools Resolution Canada and was a partner in the implementation of a settlement agreement for approximately 80,000 survivors of Indian Residential Schools in Canada. Her office oversaw the co-ordination of events leading to the Prime Minister's historic Apology on June 11, 2008. She then became Senior Assistant Deputy Minister, Regional Operations, at Indian and Northern Affairs Canada (INAC) and was responsible for the implementation of INAC's programming in seven regions, community infrastructure, governance and emergency issues. Gina was also a participant in the Advanced Leadership Program in 2009. Gina is currently Assistant Deputy Minister of Emergency Management and Regional Operations at Public Safety Canada, where she is leading a national emergency management system designing frameworks and exercising capabilities to respond to emergencies. Her organization is also working to develop strategies to reduce and mitigate disasters in Canada.



Mr. Wade Witmer has been with the FEMA IPAWS Division since January of 2009. The Department of Homeland Security was tasked by a Presidential Executive Order in 2006 with implementing "an effective, reliable, integrated, flexible, and comprehensive system to alert and warn the American people". Undertaking the mission to maintain and modernization the Emergency Alert System (EAS) and "enable interoperability and the secure delivery of coordinated messages to the American people through as many communication pathways as practicable", FEMA chose to leverage the Common Alerting Protocol to build the IPAWS as a simple message sharing architecture that can distribute authenticated alert and warning messages to multiple public communications systems at once.

Session 3.2 & Demo

Wade has over 20 years of experience in government systems engineering and program management. Before joining FEMA, he served as a communications systems engineer and project manager at the Defense Information Systems Agency in various duties including as the portfolio manager for Mobile Communications in the Presidential Communications Upgrade Program and Deputy Director of Enterprise Architecture, Strategic Planning and Systems Engineering in the White House Communications Agency. He graduated from the Pennsylvania State University in 1991 with a Bachelors of Science degree in Electrical Engineering.