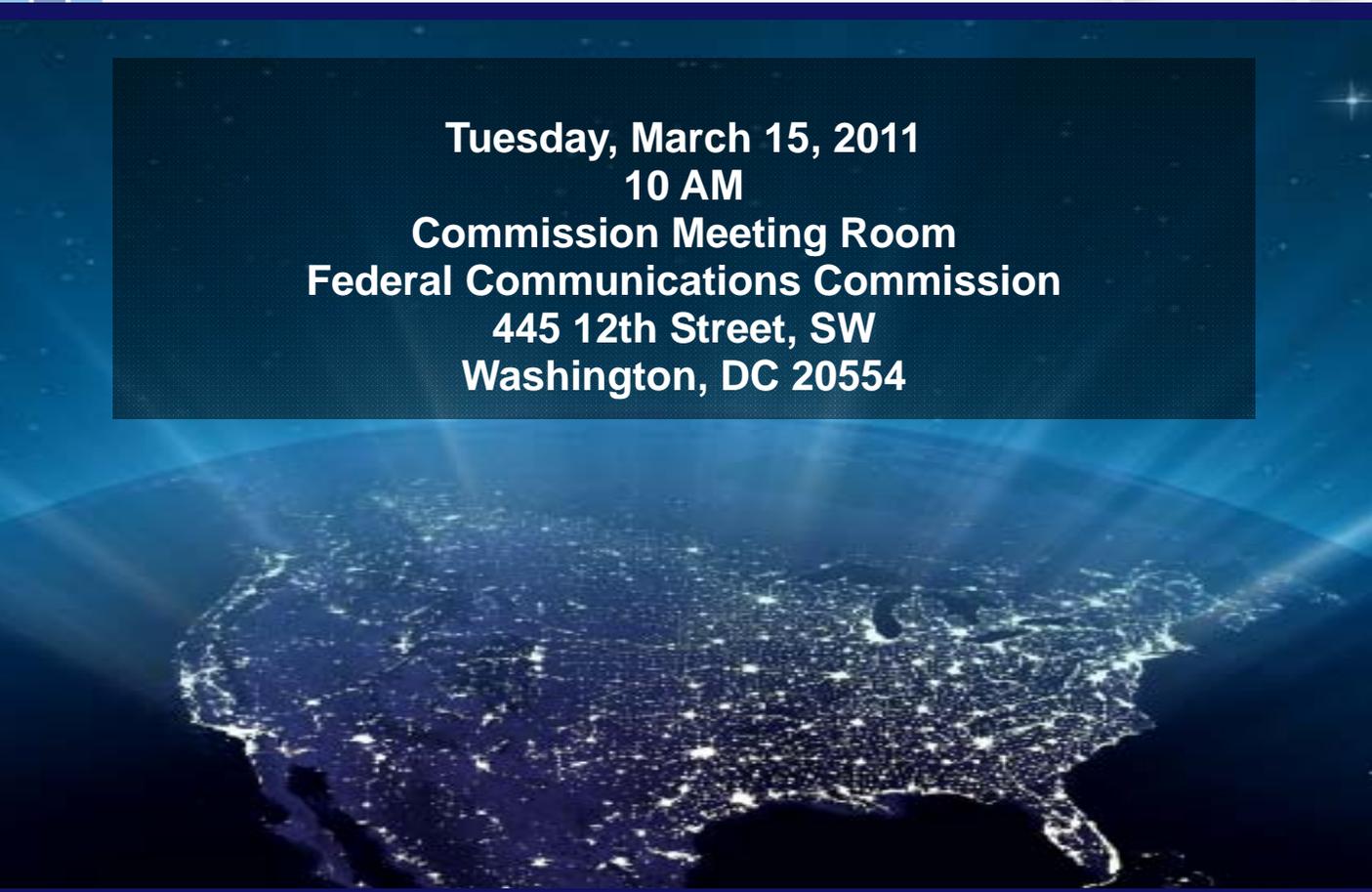




PUBLIC SAFETY ADVISORY COMMITTEE

Public Safety & Homeland Security Bureau

Tuesday, March 15, 2011
10 AM
Commission Meeting Room
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554



Public Safety Advisory Committee

EMERGENCY RESPONSE INTEROPERABILITY CENTER PUBLIC SAFETY ADVISORY COMMITTEE

**Tuesday, March 15, 2011
Federal Communications Commission
445 12th Street SW, Washington D.C.
Commission Meeting Room
10:00 a.m.**

10:00	Call to Order	Chief Jeffrey Johnson, Chair Deputy Chief Eddie Reyes, Vice-Chair, Emergency Response Interoperability Center (ERIC) Public Safety Advisory Committee (PSAC)
	Opening Remarks	Julius Genachowski, Chairman, Federal Communications Commission
	Remarks	James Arden Barnett, Jr. – Rear Admiral (Ret.) Chief, PSHSB
	Remarks	Chief Jeffrey Johnson, PSAC Chair
10:45	Introduction of Members	Deputy Chief Eddie Reyes, PSAC Vice-Chair
11:15	Overview of FACA Procedural Issues	Paula Silberthau, FCC Office of General Counsel Gene Fullano, Designated Federal Officer Brian Hurley, Deputy Designated Federal Officer
11:30	The Road Ahead: An Introduction to the Commission's Open Proceeding on Interoperability	Behzad Ghaffari, Systems Engineering Chief, ERIC Pat Amodio, RF Engineering Chief, ERIC Brian Hurley, Attorney, ERIC
12:00	Lunch	
1:00	Remarks	Amy Levine, Special Counsel to FCC Chairman Genachowski
1:15	Introduction of Working Group Chairs	Deputy Chief Eddie Reyes
	Overview and Discussion PSAC Individual Work Plans	Chief Jeffrey Johnson
2:45	Closing Comments	Jennifer Manner, Acting Director, ERIC
3:00	Adjourn	Gene Fullano, Associate Bureau Chief and Designated Federal Officer, ERIC PSAC

Public Safety Advisory Committee

ABOUT THE FEDERAL ADVISORY COMMITTEE ACT

GENERAL INFORMATION

The Federal Advisory Committee Act (FACA), 5 U.S.C. App. 2, and the regulations thereunder, 41 C.F.R. §§102-3.5 et seq, govern the operations of the Emergency Response Interoperability Center Public Safety Advisory (“PSAC” or “Committee”).

Several guiding principles under FACA include:

- Openness in government
- Diversity and balance in membership; and
- Public accountability

TIMELY PUBLIC NOTICE OF MEETINGS

The FACA requires that timely notice (generally 15 calendar days notice) of each Committee meeting be published in the *Federal Register*. Committee meeting notices may also appear in Federal Communications Commission (“FCC”) releases, Internet postings and other media. Meetings may include teleconferences, video conferencing and Internet communications.

PUBLIC ATTENDANCE

The FACA requires the Committee to permit interested persons to attend its meetings and submit written statements with the Committee, subject to reasonable regulations. Members of the public may also speak or address the Committee if FCC or Committee guidelines so permit.

Under certain limited circumstances (e.g., where information to be discussed involves trade secrets, classified government materials, or national security matters related to foreign policy), the meetings or portions of the meetings may be closed with approval of the agency head and after prior notice in the *Federal Register*. The Committee cannot simply announce spontaneously at a meeting that parts of the meeting will be closed or that it will adjourn to another room to discuss a matter.

DOCUMENT AVAILABILITY

Under FACA, the Commission is required to keep detailed minutes including a record of the persons present at the Committee meetings and documents received, issued or approved by the Committee. These documents and all other Committee minutes, transcripts, reports, studies, etc., must be available for public inspection and copying (although they may be withheld under applicable FOIA exemptions). Publicly available documents will be made available for copying and inspection at the FCC’s Reference Information Center, 445 12th Street, SW, Room CY-A257, Washington, DC 20554. Information about the Committee, including certain publicly available documents (e.g., public notices, agenda, transcripts, written public comments), may also be posted on the Committee’s website.

ROLE OF THE COMMITTEE CHAIR AND VICE CHAIR

Duties include:

- Serving as focal point for Committee members.
- Establishing informal working groups/naming chairs (subject to the agency’s approval).
- Conducting all Committee meetings and suggesting meeting agenda.

Public Safety Advisory Committee

DESIGNATED FEDERAL OFFICER

Duties include:

- Calling meetings and approving agendas.
- Attending meetings.
- Chairing and closing meetings as necessary.
- Maintaining all Committee records.
- Ensuring taking of minutes at Committee meetings.

Contact Information: Gene Fullano, Designated Federal Officer
Telephone: (202) 418-0492
Email: Genaro.Fullano@fcc.gov

Brian Hurley, Deputy Designated Federal Officer
Telephone: (202) 418-2220
Email: Brian.Hurley@fcc.gov

INFORMAL WORKING GROUPS OR SUBCOMMITTEES

To facilitate the work of the Committee, some business may be conducted by informal working groups that will make suggestions to the full Committee as appropriate.

Informal working groups can:

- Gather information
- Develop work plans.
- Draft reports.
- Discuss preliminary findings.

Informal working groups cannot:

- Function as the *de facto* parent advisory committee.
- Make recommendations to the Committee that are “rubber stamped” without further action or consideration by the full Committee.
- Make decisions that are binding on the Committee.
- Speak on behalf of the full Committee without prior approval.
- Make direct recommendations to the FCC.

Meetings conducted by informal working groups are not subject to the public participation and public notice requirements of the FACA so long as the above requirements are met.

Questions

Questions about the FACA should be directed to the DFO, Gene Fullano or the Deputy DFO, Brian Hurley, at the telephone numbers and email addresses listed above.

Public Safety Advisory Committee

CHARTER FOR THE EMERGENCY RESPONSE INTEROPERABILITY CENTER PUBLIC SAFETY ADVISORY COMMITTEE

1. The Committee's Official Designation

The official designation of this advisory committee will be the "Emergency Response Interoperability Center Public Safety Advisory Committee" (PSAC or Committee).

2. Authority

The PSAC is hereby established at the direction of the Chairman of the Federal Communications Commission (Commission) and in accordance with the Provisions of the Federal Advisory Committee Act (FACA) as amended, 5 U.S.C., App.

3. The Committee's Objectives and the Scope of its Activity

The purpose of this Committee is to make recommendations that will assist the Commission's Emergency Response Interoperability Center (ERIC), an entity established within the Public Safety and Homeland Security Bureau, in the development of a technical framework and requirements for interoperability in order to ensure that the public safety wireless broadband network is interoperable on a nationwide basis.

In particular, PSAC will provide recommendations to the Commission that would assist ERIC as it implements the following policy objectives: (1) the adoption of technical and operational requirements and procedures to ensure a nationwide level of interoperability; (2) the adoption and implementation of requirements and procedures to address operability, roaming, priority access, gateway functions and interfaces, the interconnectivity of public safety broadband networks, and other matters related to the functioning of the nationwide public safety broadband network; (3) the adoption of authentication and encryption requirements for common public safety broadband applications and network use; (4) the coordination of ERIC's policies with other entities, including other federal agencies; and (5) such other policies for which ERIC may have responsibilities from time to time.

4. Description of the Duties for Which the Committee is Responsible

The general duties of the Committee are to gather and discuss information necessary to develop recommendations for the Commission to satisfy the objectives stated under paragraph 3 above. The Committee serves the Commission in an advisory capacity only.

5. Official to Whom the Committee Reports

The Committee will report to the Chairman of the Commission through the Chief of the Public Safety and Homeland Security Bureau.

6. Support

The Commission will provide the necessary staff support for the Committee and the facilities needed to conduct meetings.

7. Estimated Annual Costs in Dollars and Staff Years

An estimated two Commission staff years will be expended in support of the Committee. The estimated annual operating cost of the PSAC to the Commission is approximately \$150,000 per year.

8. Designated Federal Officer

A full-time or permanent part-time employee, appointed by the Chairman of the Commission, will serve as the Designated Federal Officer (DFO). The DFO will approve or call all of the Committee's meetings, prepare and approve all meeting agendas, attend all committee meetings, adjourn any meeting when the DFO determines adjournment to be in the public interest, and chair meetings when directed to do so by the Chairman of the Commission or the Chief of the Public Safety and Homeland Security Bureau.

Public Safety Advisory Committee

CHARTER FOR THE EMERGENCY RESPONSE INTEROPERABILITY CENTER PUBLIC SAFETY ADVISORY COMMITTEE

9. Estimated Number and Frequency of Committee Meetings
The Committee will meet approximately two times per year.
10. Duration
The Commission will review the accomplishments and activities of the Committee to determine whether, after two years, this charter should be renewed and the Committee should continue as a Federal Advisory Committee.
11. Termination
This charter will terminate two years from the Filing Date of this charter, prior to which the Commission may seek its renewal.
12. Membership and Designation
Members of the Committee will be appointed by the Chairman of the Commission in consultation with appropriate Commission staff. Members will be selected to balance the expertise and viewpoints that are necessary to address effectively the issues to be considered by the Committee. Members will represent the public safety community as well as various sectors of the telecommunications industry and serve in a representative capacity. Representatives of the public safety community will be selected from state and local public safety agencies, public safety trade associations, federal user groups, and such other segments of the public safety community as the Chairman of the Commission may consider appropriate. Industry representatives will be selected from service providers, equipment vendors and other industry segments.

No members of the Committee, its subcommittees or working groups shall be registered lobbyists under the Lobbying Disclosure Act.
13. Subcommittees
The FCC may create subcommittees. Recommendations of any subcommittee must be reported to the Committee as a whole, and may not be treated as recommendations of the PSAC unless and until ratified by the full Committee (either as proposed or with modifications). No subcommittee will advise or report directly to the Commission.
14. Recordkeeping
Records of the proceedings will be kept, as required by applicable laws and regulations. All records of the Committee, its subcommittees, and any other subgroups of the Committee, shall be handled in accordance with General Records Schedule 26, Item 2 or other approved agency records disposition schedule. These records shall be available for public inspection and copying, subject to the Freedom of Information Act, 5 U.S.C. 552.
15. Filing Date
August 6, 2010

Public Safety Advisory Committee

EMERGENCY RESPONSE INTEROPERABILITY CENTER PUBLIC SAFETY ADVISORY COMMITTEE MEMBERS BIOS

Chief Douglas M. Aiken

Chief Douglas M. Aiken has 34 years of career public safety experience including telecommunications, from his service with the Manchester, NH Fire Department to his current role as Chief of Lakes Region Mutual Fire Aid. At Lakes Region he is responsible for the coordination of 36 fire and EMS agencies, the Central New Hampshire Haz-Mat Team, and the operation of the central communications center with a service area of nearly 1,500 square miles. In addition, he serves as the chairman of the New Hampshire Enhanced 9-1-1 Commission. Chief Aiken is a former chairman of the board and current chair of the communications committee of the International Municipal Signal Association (IMSA), a member of the board of PSST, vice-chair of NPSTC, past president of LMCC, past chair of the IAFC communications committee, a member of the National Advisory Committee of the Congressional Fire Service Institute, and a Fellow of the Radio Club of America. He retired from the New Hampshire Air National Guard in 2007 at the rank of colonel after a forty year military career during which he served as the Director of Command, Control, Communications and Computer Systems (J-6). Chief Aiken served on the Public Safety Wireless Advisory Committee (PSWAC), was a member of the steering committee of the National Coordinating Committee (NCC), and was instrumental in creating NPSTC, the follow-on effort to provide a unified voice for public safety telecommunications needs. He holds a Bachelors Degree in Management from New Hampshire College, an associate degree in Electronic Engineering from Wentworth Institute of Technology, and is a graduate of the Air University Air Command and Staff College and the Air War College.

Mike Beckstrand

Mike Beckstrand comes to CalEMA with six years as an Auxiliary Communications Volunteer. Mike has served as the Inland Region ACS Officer and is a member of the MAR 4 field team. Previously, he started his work in emergency service as an active member of San Jose RACES (Radio Amateur Civil Emergency Service), until he moved to Folsom in early 2004. As the Inland Region ACS Officer, Mike has worked with the various volunteer emergency communication groups throughout the region providing training opportunities, suggestions regarding radio plans and acting as a point of contact to CalEMA for the various groups. Mike has been involved with the Operational Area Satellite Information System (OASIS) as a field technician and has been involved in the programming of the radio interoperability side of the Mobile Interoperability Gateway Unit (MIGU) project. The MIGU project leverages an ACU1000 which allows radios of different frequencies to directly communicate, facilitating inter-agency communication. Mike's current daily activities include functioning as a liaison between the CalEMA Interoperability section and the Communications coordinators, as CalEMA prepares for the 2013 narrowband requirement change in Public Safety Frequencies statewide. Other duties include the continued work being done on the MIGU project, as stated above, including upgrades to the current ACU-1000 to an ACU-2000ip format that will include wide area interoperability communications via the States OASIS system. Mike is an active member of the FIRESCOPE Communications Specialist Working Group and the Northern California Chapter of the Association of Public-Safety Communications Officials – International (APCO International, Inc.). Mike is also an active member of the City of Folsom's CERT program. His educational accomplishments include a Bachelors of Science in Management as well as a Masters in Business Administration, both from the University of Phoenix, and a Graduate Certificate in Emergency Management and Business Continuity from Boston University.

Stacey Black

As AT&T Assistant Vice President for Market Development, Stacey Black is responsible for product management of strategic mobility solutions for enterprise and government segments. Specifically, Stacey oversees products in development that include 700 MHz Public Safety LTE Managed Services, next generation packet-switched priority services, next-generation Push-to-Talk over IP services, Commercial Mobile Alerting Services, managed disaster recovery services and dual mode cellular-satellite PDAs and other devices. Stacey has been deeply engaged in the FCC's Public Safety National Broadband Network proceeding from its inception. He has participated on several Commission panels, including one earlier this year that focused on the creation of an Emergency Response Interoperability Center (ERIC). In addition, Stacey was an expert witness at a September 2009 hearing on the Creation of a Public Safety Broadband Network for the House Subcommittee on Communications, Technology and the Internet. Stacey has also represented AT&T at the Public Safety Broadband Vendor/Carrier Forum hosted by the Department of Commerce. Other participants at the Forum included the Department of Justice, the Department of Homeland Security and the Chief Technology Office of the White House. He has also participated on several panels at the International Wireless Communications Exposition (IWCE) as well as several APCO conferences, where the topic was the 700 MHz

Public Safety Advisory Committee

Stacey Black (continued)

Broadband Spectrum. Stacey moderated the IWCE panel in March 2010 entitled "Using a Commercial Operator to Host and Manage Dedicated 700 MHz Public Safety LTE Equipment." He also participated in the National Public Safety Telecommunications Council's 700 MHz Public Safety Broadband Task Force, which produced the final Report and Recommendations approved by the PSST and submitted to the FCC in late 2009. Finally, Stacey testified before the Commission at the FCC En Bank Hearing in Brooklyn, NY on July 30, 2008, where he introduced the concept of leveraging commercial networks for regional public safety broadband networks by using a request for proposal process.

Kenneth Boley

Kenneth Boley serves as the Director of Intergovernmental Initiatives for the Office of the Chief Technology Officer, Government of the District of Columbia, where he leads the implementation of a number of priority programs for the District, including the provision of wireless broadband capabilities for public safety agencies. He is an active participant in groups focused on developing national wireless broadband policy for public safety, including the Public Safety Alliance, the Waiver Recipient Working Group and the Operator Advisory Committee of the Public Safety Spectrum Trust. Ken is also involved in the design and execution of OCTO's broad-based effort to bridge the digital divide in the District, and he leads the District's DC One Card initiative to deploy a consolidated credential for all District government workers and customers, including a standardized, interoperable credential for first responders. Before joining the District government, Ken worked at three Washington, DC telecommunications law firms and served as counsel and professional staff for a number of U.S. Senate personal and committee offices.

Thomas Bretthauer

Mr. Bretthauer has been involved with public safety communications from every aspect for the past 16 years. He has been responsible for Ohio's state-wide mobile voice, mobile data and Computer Aided Dispatch infrastructure for the past 8 years. Mr. Bretthauer is also an active Executive Committee member of the Motorola Mobile Data Users Group, a national user group that has specific ties to wireless data for public safety entities. Mr. Bretthauer currently serves as a member of an Ohio based team that is investigating data sharing techniques for law enforcement agencies across Ohio and the nation. This team is working to standardize access to mission critical data for officers. The team is also looking into data interoperability for law enforcement users. Mr. Bretthauer carries a degree in Electronics Engineering Technologies.

William Brownlow

Governing Board Member representing the American Association of State Highway Transportation Officials (AASHTO); chair, Outreach Committee and represents NPSTC on the Federal Communications Commission's Communications Security, Reliability, and Interoperability Committee. William K. Brownlow is AASHTO's Telecommunications Manager and serves as the Federal Communications Commission's (FCC) certified public safety frequency coordinator with primary responsibility nationwide for the Highway Maintenance frequencies. Mr. Brownlow serves as Manager, Intelligent Transportation Systems standards. Mr. Brownlow has collateral duties as the AASHTO staff liaison with the Special Committees on Wireless Communications Technology and Transportation Security and the Special Committee on Transportation Security and Emergency Management. He provides support to the Transportation Research Board (TRB) of the National Academies of Science Critical Transportation Infrastructure Protection Committee (ABE-40) and the National Cooperative Highway Research Program 20-59 Critical Infrastructure Protection Research panel. He is responsible for all filings made on behalf of AASHTO and its members before the FCC and other regulatory bodies regarding both wireless and wireline communications. He serves as a primary member of the Public Safety Communications Council (PSCC), the Land Mobile Communications Council (LMCC), and, on the Board of Directors, of the Public Safety Spectrum Trust Corporation (PSST). Mr. Brownlow is a former consultant to the District of Columbia government, Office of the Chief Technology Officer, where he provided technical and management expertise for the design and installation of the District's telecommunications infrastructure. Mr. Brownlow was responsible for the evaluation, design, installation, and maintenance of an in-building system to augment the reception and retransmission of voice, video, and data on frequencies between 700 and 3,000 MHz. Mr. Brownlow has managed, designed, and installed voice, data, and video systems for a number of systems integrators for over 30 years. Mr. Brownlow has provided domestic and international technical support and training for mini and micro computer manufacturers and has written programs using C, COBOL, Pascal and other high level languages. Mr. Brownlow has been a volunteer fire fighter and emergency medical technician for the city of Anchorage, Alaska, and a reserve police officer in the city of San Diego, California. Mr. Brownlow's background in radio communications began with his experience as an Aeronautical Radio Operator and ARINC radio station manager for Reeve Aleutian Airways on the North Pacific intercontinental route. His formal training in communications and computer systems began with the U.S. Navy during the Vietnam War. He has attended numerous specialized training courses and holds the equivalent of Associates Degrees in Electronics and Computer Systems Maintenance.

Dr. Kenneth C. Budka

Dr. Kenneth C. Budka is Senior Director of Advanced Mission-Critical Communications at Alcatel-Lucent's Bell Labs. Dr. Budka leads Alcatel-Lucent's next-generation public safety wireless research team, a team dedicated to the development of interoperable public safety broadband wireless solutions using open-standard, commercial wireless technologies. This work led to Alcatel-Lucent's deployment of the National Capital Region's Regional Wireless Broadband Network, the Nation's first 700 MHz Public Safety Broadband Network built using open-standard commercial technologies, Alcatel-Lucent's proposal to the FCC to transform the data portion of the Public Safety 700 MHz band to an all-broadband block, early advocacy with Government and Public Safety officials in favor of constructing a nationwide public safety broadband network, and the Nation's first over-the-air LTE transmissions in the Public Safety 700 MHz band. Dr. Budka and his team have contributed to the US Department of Homeland Security's SAFECOM "Statement of Requirements for Public Safety Wireless Communications and Interoperability," design of Project 25's Inter RF-Subsystem Interface (ISSI), and development of methods of achieving interoperability between Project 25 and public safety broadband systems. Dr. Budka received the Ph.D. and M.S. degrees in Engineering Science from Harvard University in Cambridge, MA and a B.S. in Electrical Engineering summa cum laude from Union College in Schenectady, NY. He is a Senior Member of the IEEE and holds 20 patents.

Major Hugh T. Clements, Jr.

Hugh T. Clements Jr. is an active member of the Providence Police Department with 26 years on the job. He presently holds the rank of Major/Chief of the Uniform Division within the department. Most of his police career has been spent within the Patrol and Investigative Divisions (major crimes and narcotics). He also had a short stint within the Homeland Security Division within the police department. Mr. Clements has always been an active member within the Fraternal Order of Police holding the local office of Vice-President for 10 years up until 2003. For the last 12 years, he has held the position of National Trustee, representing the State of Rhode Island on the National FOP Board. Mr. Clements holds a Bachelor of Arts Degree in Sociology from the University of Rhode Island, a Bachelor of Science Degree in the Administration of Justice from Roger Williams University, and a Masters Degree in Criminal Justice from Boston University.

Michael Cline

Michael Cline is the State Coordinator for the Virginia Department of Emergency Management. He represents the National Emergency Management Association on the Public Safety Advisory Committee. Michael has served as state coordinator of VDEM since 1998 and in 38 years of service to the Commonwealth he has responded to more than 40 presidentially declared disasters. Under Michael's leadership, in 2005 Virginia became one of the first states in the country to receive national accreditation for emergency management. Michael began his career at VDEM in 1972 as a public assistance officer during the recovery from Hurricane Agnes. He served in a number of positions including deputy state coordinator before his appointment to state coordinator.

Harry A. (Alex) Coleman

Alex Coleman is the Vice President of Government and Education markets for Verizon Wireless. In this capacity, Coleman is responsible for sales strategy, solution development, and creating focus for the State and Local Government, Public Safety, Higher Ed, and K-12 customers on a national basis, a position that he has held since May of 2010. Prior to his current position, Alex was Vice President of Marketing for Verizon Wireless, South Area, from 2009 to 2010, and Vice President of Government and Education for Verizon Business from 2006 to 2009, where he was responsible for \$1.9B in profitable revenue growth, through the sale of network services, CPE, and application solutions. He led, directed, and managed a 500+ member sales, sales engineering, and applications development team for state and local government, and primary and higher education business customers. During this role, Coleman served as a board member for Tech America, formerly known as ITAA. Prior to his role in Verizon Wireless and Verizon Business, Alex was Vice President of Verizon Enterprise Solutions Group's Atlantic South Region, a position he held since June of 2001. He was responsible for delivering approximately \$1B in revenues, by providing services to over 1,700 customers. Previously, he was Vice President/General Manager of Verizon Online Operations in the Advanced Services Group, responsible for system design, service delivery, and operations support for the retail Internet business. In 1997, Alex was named Vice President/General Manager of GTE Intelligent Network Services (INS), responsible for managing GTE's Consumer and Small Business Internet group, as well as, Signaling System 7 (SS7) operations. He was responsible for all Sales, Marketing, Product Development, and Operations for the INS business unit. Alex additionally served in the position of Director--Business and Product Development, within the INS organization, prior to his promotion to the Vice President/General Manager position. Alex advanced through various management positions at GTE since beginning his career there in 1987 as an engineering management associate -- Telephone Operations in Westfield, Indiana. Beginning in 1989, he held various positions in product management and product development, including Product Manager--Network Services, Section Manager--New Services Pricing, Manager--New Services Pricing, Group Product Manager--Data Network Services, and Director--Strategic Development.

Public Safety Advisory Committee

John T. Collins

John Collins has been in clinical engineering since 1970. A BSEE from Newark College of Engineering and a MS from the University of Rhode Island. Senior clinical engineer at Northwestern Memorial Hospital and then at Advocate Healthcare. Currently, Mr. Collins is Director of Engineering & Compliance for ASHE. A founding member and past president of the Midwest Biomedical Society and a member of IEEE, ACCE, NFPA, AAMI, ATA. Member of the NFPA 99 revision task group, NFPA Technical Committee on Medical Equipment, the 2010 Health Guidelines Revision Committee, the ASHRAE Certification Committee, RF Wireless Working Group of the IEEE 1073 General Committee, International Certification Commission, United States Certification Committee, the Underwriters Laboratories Inc. Standards Technical Panel 1047 and a board member of the Public Safety Spectrum Trust representing AHA.

Patricia Cooper

Patricia Cooper has been President of the Satellite Industry Association since November 2007. As President, Ms. Cooper is SIA's lead representative for government services, regulatory, legislative, export control, public safety, and trade issues of critical importance to the Association's members. She also takes over the day-to-day management and operations of SIA, including member communications, staff leadership and organization of SIA sponsored events. Patricia brings more than 18 years of experience in the satellite industry and in government. She joined SIA following a five-year tenure in the Federal Communications Commission where she managed the FCC's bilateral relationships with regulatory agencies across the world, served as lead author of the FCC's inaugural competition report to Congress on communications satellite industry and was Senior Satellite Competition Advisor in the International Bureau. Patricia holds a Master's Degree in International Economics from the School of Advanced International Studies at Johns Hopkins University (SAIS) and graduated summa cum laude from Kansas State University with a Bachelor's Degrees in Political Science and German.

Michael Coyne

Michael Coyne, Vice President of Mobile Broadband Systems and Principal Solutions Architect, has more than 28 years of experience in the telecommunications industry. He has worked with broadband wired and wireless technologies (including LTE, HSPA, CDMA), wireless core networks and IMS, IPTV video and other application solutions. He has actively worked with a number of wireless operators in the transition of wireless to an IP-centric environment. Mr. Coyne previously served as the technical lead for Ericsson's work with the United States government for use of commercial broadband wireless by the Department of Defense. He also has worked with global wireless operators in assessing which wireless technology to support in their roadmap planning and with content providers for global content delivery over wireless. Mr. Coyne holds more than 15 patents.

Colonel Steven Cumoletti

Colonel Steven Cumoletti is a 28 year member of the New York State Police. He serves as the Deputy Superintendent for Technology and Communications. He has represented the New York State Police on various communications and information sharing committees, including the New York State 911 Board. He presently serves on the Global Justice Information Sharing Initiative (Global), which serves as a Federal Advisory Committee and advises the U.S. Attorney General on justice information sharing and integration initiatives. He is also the current Chair of the FBI CJIS (Criminal Justice Information Systems) Advisory Policy Board (APB). The APB is responsible for reviewing appropriate policy, technical, and operational issues related to CJIS Division programs and for making appropriate recommendations to the Director of the FBI. Colonel Cumoletti is a member of the International Association of Chiefs of Police and the New York State Association of Chiefs of Police. He resides in a Guilderland, New York.

Deputy Chief Charles F. Dowd

Deputy Chief Charles F. Dowd is a 30 year veteran of the New York City Police Department. As Commanding Officer of the Department's Communications Division with more than 1,500 members, he is responsible for the world's busiest 9-1-1 telephone system receiving over 11 million calls per year and the N.Y.P.D. police radio operation dispatching 4.5 million radio runs annually. The radio network consists of over 67 voice frequencies, 1,200 receivers, 150 transmitters, and 32,000 portable radios. He was the Police Department's lead representative on several major projects in the City of New York including a new Digital Recording system for 9-1-1. This system was used to run a successful pilot project for domestic violence cases to deliver 9-1-1 emergency calls electronically to prosecutors as evidence for initial court appearances. He was also the Department's lead on Mayor Bloomberg's new 3-1-1 Government Services telephone system, and instrumental in integrating the 3-1-1 system with the City's 9-1-1 system. Currently, he is involved in Mayor Bloomberg's new initiative to merge Police, Fire, and Emergency Medical communications, as well as 9-1-1 services into one consolidated Public Safety Answering Center, a 1.5 billion dollar project. He was tasked with the responsibility of establishing the Communications Plan for Public Safety/Interoperability for the Republican National Convention held in New York City's Madison Square Garden. He is the former Commanding Officer of several commands, including the 88th and 77th Precincts and, as a Detective Lieutenant of the 79th Detective Squad, where he supervised over 300

Public Safety Advisory Committee

Deputy Chief Charles F. Dowd (continued)

homicide investigations. Chief Dowd was in command at the New York City PSAP on September 11, 2001, coordinating the NYPD's communications response. Since the horrific events of that day, he has been the keynote speaker at numerous Communications Conferences for the Association of Public Safety Communications Officials (A.P.C.O.) and the National Emergency Number Association (N.E.N.A.), as well as several Government Communications seminars. He has testified before the F.C.C. on both new-technology 911 VOIP call delivery first implemented successfully on a large scale in NYC and 700 mhz public safety broadband spectrum. He has testified before several Congressional sub-committees on public safety radio and interoperability issues. He has had articles published in several Public Safety and I.T. magazines. He has a baccalaureate degree from John Jay College of Criminal Justice. His wife Madeline is a retired New York City Detective and he has three children, Katie 27, Rob 26, and Garrett 16.

Leonard Edling

Currently serving as the State and Local Co-Chair of the Inter Agency Board's (IAB) Information Management and Communications Committee, Commander Edling is an 18-year veteran of the Chicago Fire Department with 21 years of emergency response experience. His public safety experience has included serving as a firefighter, paramedic, HAZMAT technician, HAZMAT response chief, planning section chief, communication unit leader as well as the chief of a volunteer fire department. His current assignment with the Chicago Fire Department is as the Administrative Assistant to the Deputy Fire Commissioner of Operations. Commander Edling's responsibilities include working on various federal, state, local committees and programs in the areas of communications, hazardous materials, incident management, and All-Hazards incident response. He is a member of the SAFECOM emergency Response Council, the Chicago/Cook County Interoperable Communications Committee, The Illinois Mutual Aid Box Alarm System (MABAS) Telecommunications, Communications, and Dispatch Committee (TCD), The Illinois Terrorism Task Force Communications Committee and has served on various working groups including, Nation Emergency Communications Plan (NECP) and Communication Unit Leader (COML).

Christopher B. Epps

Christopher Epps is Chairman of the Mississippi Wireless Communication Commission and Commissioner of the Mississippi Department of Corrections. Commissioner Epps started his career with the Mississippi Department of Corrections (MDOC) in 1982 as a correctional officer at the Mississippi State Penitentiary. His extensive corrections experience with the MDOC includes: Chief of Staff, Deputy Commissioner of Institutions, Deputy Commissioner of Community Corrections, Director of Offender Services, Deputy Superintendent, Chief of Security, Corrections Case Management Supervisor, Director of Treatment Services and Corrections Case Manager. Additionally, he has served as Disciplinary Hearing Officer/Investigator and Director of Records for the agency. Elected president of the prestigious American Correctional Association (ACA) in May 2010, Commissioner Epps has held various leadership positions throughout his career in corrections and in the military. Having served in the armed forces since 1984, Commissioner Epps received an honorable discharge from the Mississippi Army National Guard after attaining the rank Lieutenant Colonel. Vice-President of the Association of State Correctional Administrators (ASCA), Commissioner Epps also serves on the Correctional Industries, Research & Technology, Re-entry & Community Corrections, Racial Disparity and the Program & Training ASCA Committees. He serves as an Auditor with the American Correctional Association, and in 2008, was elected to a two-year term as treasurer of the ACA. He was elected in 2006 to serve on the ACA Nominating Committee, and in June 2004, he was elected to the Commission on Accreditation for Corrections of the American Correctional Association for the term of 2004 – 2008 . In 2007 he was appointed to the Executive Committee for the Commission. He also is a long-standing member of the Southern States Correctional Association (SSCA), currently serving as President of the Association, and in 2009 was appointed to the Correctional Peace Officers (CPO) Foundation National Board of Directors.

Raymond Flynn

Born in New York City, NY, Mr. Flynn joined the Las Vegas Metropolitan Police department in 1980. As a police officer, he served in Patrol, Crime Prevention, Academy Staff, and Burglary Attack Team. Upon being promoted to sergeant, he served in Patrol, Field Training, and K-9. As lieutenant, he served in Patrol and Line Solution Policing, and as commander of the Traffic and SWAT/K-9 Sections. He took command of the Northeast Area Command upon promotion to captain, and later was assigned to the Organized Crime Bureau. In 1998, he was appointed to deputy chief with the command of the Human Resources Division. In 1999 he was assigned command of the Investigative Services Division, which includes the Crimes Against Persons, Financial/Property Crimes, and Criminalistics bureaus. In 2003, Sheriff Young appointed him to Assistant Sheriff. For the last 8 years Assistant Sheriff Flynn's responsibilities have included radio and data communications, information technologies, and regional interoperability. For almost two years he has been a member of the Public Safety Alliance (D-Block) and this year was appointed to the Department of Homeland Security's Safecom Executive Council.

Public Safety Advisory Committee

Brian Fontes

Brian Fontes currently serves as the Chief Executive Officer for the National Emergency Number Association (NENA), a position he has held since June 2008. As CEO, he is responsible for all aspects of the association. His primary objectives are to ensure that Americans have access to reliable 9-1-1 service, 9-1-1 centers have state-of-the-art technologies and well-trained professionals, and sufficient funding is available so that the 9-1-1 system can best serve those who call upon it as their first voice of hope. Mr. Fontes started his professional career as a Professor of Communications at the University of Massachusetts, Amherst. Prior to joining NENA, Mr. Fontes was Vice President, Federal Relations for Cingular Wireless, and served in that capacity after its acquisition by AT&T. Prior to that, Mr. Fontes was Senior Vice President for Policy and Administration at the Cellular Telecommunications Industry Association (CTIA). Before joining CTIA, he served as the Senior Advisor to Commissioner James H. Quello, Federal Communications Commission (FCC), and as the FCC's Chief of Staff. In the Fall of 1995, President Clinton appointed Mr. Fontes as head of the United States Delegation to the International Telecommunication Union's (ITU) World Radio Conference held in Geneva, Switzerland, and gave him the rank of Ambassador. Mr. Fontes also served as Chairman of the Council of the Communication Regulatory Agency in Bosnia-Herzegovina. Mr. Fontes has served on numerous U.S. delegations. He is currently on the Board of Directors of the 9-1-1 Institute and the Quello Center for Telecommunication Management, Policy and Law. He also serves on the Commerce Spectrum Management Advisory Committee (Department of Commerce). Mr. Fontes received a Ph.D. in Mass Media/Telecommunications from Michigan State University's Department of Telecommunications and a M.S./B.S. from Brigham Young University.

Thomas Goode

Thomas Goode is General Counsel for the Alliance for Telecommunications Industry Solutions (ATIS), a technical planning and standards development organization that focuses on a broad range of issues such as: emergency services, broadband interconnection, next generation broadband networks, IPTV, cloud services, energy efficiency, billing and operational support, and architectural platforms. Prior to joining ATIS in 2005, Mr. Goode worked for technology companies developing systems to provide broadband communications over powerline, including ONELINE AG and also served as Associate General Counsel with the United Telecom Council. Mr. Goode has a Juris Doctor from Georgetown University Law Center and a Bachelor of Arts in Political Science from Loyola College in Baltimore, Maryland.

Mark Grubb

Mark serves as the Director of the Delaware Division of Communications and is responsible for the operation and maintenance of Delaware's statewide 700 and 800 MHz public safety radio systems. Under Mark's leadership, Delaware provides interoperable public safety communications systems serving all full-time and volunteer first responders within the state as well as state government critical infrastructure service providers. In addition, Mark serves as the Statewide Interoperability Coordinator ("SWIC") for Delaware, and was elected the first Chairman of the National Council of SWIC's. Mark serves as the Chairman for Regional Planning Committee 28 for 800 & 700 MHz. Mark also supports the National Public Safety Telecommunications Council ("NPSTC") and serves as a sub-committee chair.

Mark J. Hill, Sr.

Mark Hill is a Communications Engineer for the Gila River Indian Community, where he also serves as 911 Administrator/Manager and Amber Alert Coordinator.

Arnold Hooper

Arnold Hooper has been involved in Public Safety since 1976 beginning as a Volunteer Firefighter and Rescue Squad member working his way up the chain of command to attain the rank of Assistant Chief. In 1985 his vocation as an Electronic Technician and his passion for Public Safety combined when he accepted a position with the City of Chattanooga in the Radio Shop. Since then he has been involved in the birth and maturity of Public Safety Trunking radio in Southeast TN. In 2008 he was chosen as the Project Manager/System Manager for the new Tennessee Valley Regional Communications System. The TVRCS is a P25 Trunking system operating in East TN and Northwest GA. Today working as the System Manager/Regional Interoperability Coordinator for the TVRCS he primarily concentrates on the implementation of the TVRCS into daily service for the Public Safety community furthering Interoperability throughout the region.

Kenneth C. Hughes, Jr.

Col. Kenneth C. Hughes, Jr. (Ret.) is the Regional Communications Planner for the City of New Orleans.

Public Safety Advisory Committee

Chief Jeffrey D. Johnson

Jeff Johnson is the Chief Executive Officer (CEO) for the Western Fire Chiefs Association, Past President of the International Association of Fire Chiefs and retired as Fire Chief and Chief Executive Officer of Oregon's Tualatin Valley Fire & Rescue (TVF&R) following a 32 year fire service career. Chief Johnson served as TVF&R's chief executive for over 15 years during which time the organization became recognized as one of the nation's premier fire and rescue service providers. Jeff is nationally known as an innovator and ambassador for excellence through customer service. Additionally, he advocates for cooperative initiatives and other business practices that achieve efficiencies and demonstrate smart government while maximizing the value of services provided to the citizens'. He has authored two fire service books and is a featured guest lecturer across the nation. In August 2009, Chief Johnson was installed as the President and Chairman of the Board of Directors of the International Association of Fire Chiefs (IAFC). He also holds membership in the Metropolitan Fire Chiefs Association and various IAFC Sections. He is the IAFC's alternate representative to the SAFECOM Executive Committee and a member of the USA Delegation to the Comité Technique International De Prevention Et D'Extinction Du Feu (CTIF), also known as the International Association of Fire and Rescue Services. In the corporate environment, Jeff sits as Chairman of the Board of two private companies, specifically as a member of the Informed Publishing, Inc. Board and Emergency Services Consulting International (ESCI) Board. He also is on the Editorial Board of FireRescue Magazine. By gubernatorial appointment, he is the Chair of Oregon's State Interoperability Executive Council, and a member of the Oregon Homeland Security Council and the Oregon Broadband Advisory Council. He is Past President of both the Western Fire Chiefs Association and the Oregon Fire Chiefs Association (OFCA), the Past Chair of the Oregon Governor's Fire Service Policy Council, and a charter member of Oregon's Meritorious Service Committee. Chief Johnson holds a Bachelor of Science Degree in Business and Associate Degrees in Fire Science and Criminal Justice Administration. During his leisure time, Jeff enjoys spending time with his wife, Kay, and their two children. As an avid outdoorsman and student of Oregon history, Jeff enjoys camping, fishing, and motorcycling in Oregon's back country.

Ajit Kahaduwe

Ajit heads Industry Environment North America, part of Nokia Siemens Networks CTO (Chief Technology Office), which focuses on standards, research, and technical regulatory matters. Ajit has over 20 years of experience in wireless communications with specific competences in GSM, WCDMA, LTE, and iDEN radio systems. Specific to public safety, Ajit has been directly involved in the design and deployment of public safety systems in multiple countries during his career and participates in NSN's Public Safety Communications Research Program.

Robert Lederman

Mr. Lederman has nearly 30 years of experience in the area of public safety communications and broadband networks. He has served as the system coordinator for his local fire department and has directed the set up of VHF, 800, UHF and many other systems in his county. He was instrumental in the development of interoperable public safety communications and wireless and broadband networks in Williamson County, Texas. He currently serves full time as a broadband and network engineer and part time as a first responder in Austin-Travis County, Texas.

Ray Lehr

Ray Lehr has worked in public safety for over 40 years. He served for 30 years with the Baltimore City Fire Department, retiring in 2000 as Assistant Chief. He spent the next 10 years as a subject matter expert for large systems integrators.

Ray's experience includes:

- Incident Commander at large, complex emergencies
- Directed the City's implementation of a consolidated public safety 800 MHz communications system
- Served as a member of the NSTAC Task Force on Emergency Communications and Interoperability
- Currently the State of Maryland Statewide Interoperability Director
- Member of the National Capital Region Interoperability Council
- Board Member representing the NGA on the PSST

John Lenihan

Chief Lenihan has 33 years of experience in the Fire Service. This includes a wide variety of disciplines including Emergency Medical (Paramedic), Wildland firefighting, Aviation, Dispatch, and Urban Search and Rescue (USAR). Most recently, Chief Lenihan returned from a USAR deployment to New Zealand for the Christchurch earthquake. Chief Lenihan brings good leadership qualities and understands the needs of the first responder. The past 4 years, Chief Lenihan led the Los Angeles County Fire Department's efforts in the formation of the LA-RICS JPA and development of the System Specifications. Chief Lenihan has participated in the DHS SCIP review process, attended OIC/OEC Emergency Response Council events, and is on the VOIP Working Group. His local participation in the Los Angeles Area Fire Chief's Association's Communications Working Group includes channel planning and narrowband transition working groups. Chief Lenihan's other interests include general aviation and spending time with his 14 year-old triplets.

Public Safety Advisory Committee

Doug Mah

Doug Mah is the Policy Manager for the Washington State Department of Information Services. He has more than 20 years of experience in the areas of research, budgeting, and policy development for public safety and criminal justice. He currently provides staff support to the Washington State Interoperability Executive Committee (SIEC) and the State Information Services Board. He assists in the development and implementation of policies and recommendations regarding state wireless communications systems, information technology investments, and inter-agency coordination. Mr. Mah also serves in a part-time capacity as the elected Mayor of the City of Olympia. Olympia is the State Capital with a population of 46,000.

Dr. Dennis Martinez

Dr. Dennis Michael Martinez is Chief Technology Officer for Harris RF Communications Division. Dr. Martinez has spent most of his career in the development of advanced telecommunication products and systems, serving mission-critical markets including National Defense, Public Safety, Critical Infrastructure Industries and Enterprises that rely on wireless communications. His recent focus is in the application of emerging broadband technology in these mission-critical markets. Dr. Martinez has taught graduate-level courses in Digital Signal Processing and has lectured on Signal Processing Theory and Communication System Design and Analysis. In addition he has co-authored patents for wireless communication and image processing systems. He received his B.S., M.S., and Ph.D from the Massachusetts Institute of Technology, all in the field of Electrical Engineering and Computer Science.

Vonya B. McCann

Vonya B. McCann is senior vice president - Government Affairs, of Sprint Nextel Corporation. She is responsible for the development of its regulatory, legislative, and public policy positions and advocacy at the state, federal, and international levels. Before joining Sprint, Ms. McCann served in the U.S. Department of State as ambassador and deputy assistant secretary for International Communications and Information Policy and as principal deputy assistant secretary of state for Economic and Business Affairs. Before joining the State Department, she was a partner in the Washington law offices of Arent, Fox, Kintner, Plotkin & Kahn. She also has held positions at the Federal Communications Commission and the National Telecommunications and Information Administration of the Department of Commerce. Ms. McCann has an undergraduate degree from UCLA and a master's degree and a law degree from the University of California, Berkeley. She has received a variety of awards, including the National Eagle Leadership Institute Eagle Award; Sprint Leadership Excellence Award; Washington Business Journal, Women Who Mean Business Award; Women in Technology, Corporate Leadership Award; U.S. Department of State, Distinguished Honor Award; and National Association of Blacks in Telecommunications Professionals, Patrice Johnson Award for Excellence.

Chief Harlin R. McEwen

Harlin McEwen has been in the field of law enforcement for more than 50 years. He started his law enforcement career as a patrol officer, and after progressing through the ranks, served as a Chief of Police for more than 20 years, last serving as Chief in the City of Ithaca, NY. Following Chief McEwen's retirement as Ithaca Police Chief he served as a Deputy Assistant Director of the Federal Bureau of Investigation with his office located at FBI Headquarters in Washington, DC. During his tenure at the FBI he provided executive oversight for the new FBI Criminal Justice Information Services such as the National Crime Information Center (NCIC) 2000 Project and the Integrated Automated Fingerprint Identification System (IAFIS) and traveled extensively throughout the United States and internationally meeting with law enforcement groups and speaking at law enforcement and criminal justice conferences. He serves as the Chairman of the Communications and Technology Committee of the International Association of Chiefs of Police, a position he has held for 32 years. In his role with the IACP he also serves on numerous national technical and advisory committees. In 2006, as recognition of his long and extensive service to the IACP and law enforcement community, he was elected IACP Honorary President, only the second member to be so honored in the history of the IACP. Chief McEwen also serves as the elected Chairman of the Public Safety Spectrum Trust, a non-profit Corporation consisting of representatives of fifteen national public safety organizations. The Trust was issued the nationwide 700 MHz Public Safety Broadband License by the Federal Communications Commission in November 2007.

Kevin McGinnis

Kevin McGinnis is a graduate of Brown University and Cornell University with Bachelors and Masters degrees in hospital and health care delivery systems. An EMS system builder and field EMS provider since 1974, Kevin has been a firefighter, a hospital ER director, ambulance service chief, state EMS director, as well as a nationally recognized EMS consultant, author and speaker. He is communications advisor to 5 national EMS associations, chair of the USDHS SafeCom Program, vice chair of the Public Safety Spectrum Trust, and serves on the governing board of NPSTC. He lives in Maine.

Public Safety Advisory Committee

Stephen Meer

Stephen Meer is the cofounder and chief technology officer of Intrado Inc., a Colorado-based company that's been a leading provider of 9-1-1 technology solutions for more than three decades. An expert in public safety communications, Mr. Meer has made significant contributions to the advancement of the nation's 9-1-1 system. He served 10 years as a commissioned officer with the Boulder County, Colorado Sheriff's Office, where he defined the role of Technical Communications Manager. During his tenure with the Sheriff's Office he was also certified as an advanced life support provider and taught Emergency Medical Services and Incident Command throughout the United States and abroad. Mr. Meer is a charter-certified Emergency Number Professional, RCA Fellow, and an active member of NENA, APCO International, the Institute of Electrical and Electronics Engineers and the National Sheriff's Association.

Jacqueline Miller

Jacqueline Miller is currently the Chief Technology Officer for the NM Department of Homeland Security and Emergency Management serving as the Statewide Interoperability Coordinator (SWIC), supporting the legislatively created Interoperability Planning Commission and coordinating program implementation activities with the NM Governor's Office, Statewide Interoperable Communications Working Group (SICWG), state agencies, state planning regions and local governments. She is the agency top technology executive, playing an integral role in the strategic direction, development, and future growth. Past assignments within state government include Deputy Director of Communications, IT Manger and Network Engineering Supervisor. Ms. Miller also spent 10 years working for US West and Qwest Communications in regulatory, technical, engineering and customer service positions.

Jackie Mines

Jackie Mines joined the Department of Public Safety's, Emergency Communication Network's division in February of 2007 to lead the State of Minnesota's 9-1-1 program and provide leadership and direction to migrate the legacy Enhanced 911 network to a Next Generation 911 (NG911) Internet Protocol (IP) enabled network. Jackie was recently appointed director of the division. Jackie is a graduate of the University of St. Thomas and has 20 years of experience in the field of 9-1-1 with extensive experience in PBX design; call center application design; VoIP 9-1-1 solutions design; wireless 9-1-1 solutions and deployment; toll free and long distance product management. Under Jackie's direction Qwest led the nation in deploying the first Wireless E9-1-1 solutions. Jackie designed and implemented the first state-wide deployments of wireless E9-1-1 in Iowa and North Dakota. She is active in NENA and APCO, two 9-1-1 industry associations and has been called upon to do numerous presentations about her experience in the design and deployment of 9-1-1 to state 9-1-1 boards and commissions across the United States as well as testify before the FCC.

Richard Mirgon

Mr. Mirgon is Past President of the Association of Public-Safety Communications Officials (APCO). He has over 30 years of public safety experience to include having been a first responder, was a senior manager and had responsibilities including the design and building of a public safety system. He has served as a member of the APCO Board of Director's Executive Committee for over 4 years and has been a strong public advocate for ERIC. He has a clear understanding of ERIC's mission, goals and the challenges that confront the creation of ERIC.

Brant Mitchell

Brant Mitchell began his career with the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) in 2001 as a staff member with the Louisiana National Guard attached full-time to GOHSEP. In this capacity he served as the National Guard's Counter-Terrorism Program Manager and eventually became the Program Manager for the Homeland Security Grants for Louisiana. In August 2006 he officially joined GOHSEP as the Section Chief for the newly formed Regional Support Section. In July 2008 he was named the Assistant Deputy Director for Interoperability. In this capacity, he serves as the Chairman of the Statewide Interoperability Executive Council (SIEC), which is responsible for providing governance of the Louisiana Wireless Information Network (LWIN), one of the nation's first statewide digital 700 MHz radio systems. Today LWIN is one of the nation's largest digital radio systems providing voice communications to over 60,000 users across the State. In February 2009 Brant also assumed responsibilities for GOHSEP's Management and Finance functions and is currently serving as the Deputy Director for Management, Finance and Interoperability. Brant has also been a member of the Louisiana National Guard since 1989. While serving as a member of the Louisiana National Guard he has been assigned to various positions to include Platoon Leader, Scout Platoon Leader, Company Commander, Battalion Operations Officers and Brigade Plans Officer. He is a recipient of the Bronze Star and a veteran of Operation Iraqi Freedom where he commanded an Infantry company in Baghdad, Iraq. Brant is currently a Major assigned to the J-6 in the Louisiana National Guard's Joint Forces Headquarters.

Public Safety Advisory Committee

Jonathan W. Moore

Jonathan Moore, IAFF Fire & EMS Operations/GIS Department Director, has been with the IAFF since 1996 and holds an AS in Emergency Medical Services and a BA in Zoology. He began his journey in EMS in rural Maine at age 14. He formerly served for over 8 years with the City of Concord (NH) Fire Department as a cross trained-dual role fire fighter-paramedic. Jonathan serves on a number of public safety related roundtables, including the NFPA Technical Committees on EMS and Data Exchange for the Fire Service, as well as NHTSA EMS Education Agenda for the Future Task Forces. Jonathan is also an amateur radio operator – specializing in digital radio communications.

Byron Neal

Byron (B.J.) Neal is Chief Network Architect at Syniverse Technologies since June 2010. Mr. Neal was previously Chief Engineer and Senior Technologist within the Federal Communications Commission working on the Omnibus Broadband Initiative (National Broadband Plan). He is a telecommunications network engineer and management professional with over 17 years of experience in the telecom service provider industry. Mr. Neal has held Vice President, Director, Manager, Technologist and Engineering management positions within Inter-Exchange Carrier, Competitive Local Exchange Carrier, Internet Service Provider and Competitive Access Provider firms. He has developed practical experience in planning, designing, engineering, implementation and production support of distributed Next Generation Network architectures delivering voice, data, video and signaling solutions. He started his career as a Telecom Engineer in 1993 after obtaining a BS in Electrical Engineering from the West Virginia University Institute of Technology and progressed through multiple levels of management serving at TransGlobal Communications, Intermedia Communications, Z-Tel Technologies, Syniverse Technologies, and the Federal Communications Commission. Mr. Neal is currently a member of the IEEE Communications Society. In his role as Syniverse's Chief Network Architect, Mr. Neal has been integrally involved both in the development of Syniverse's critical infrastructure technology for the CMRS industry and in the design of roaming hub services.

Robert Nelson

Robert Nelson has been involved in both the Fire and Emergency Management fields for over 39 years, working up the ranks to the positions of Fire Chief, Director of Emergency Services, and even served briefly as a City Manager. Currently, Mr. Nelson serves as the Assistant Tribal Administrator for the Campo Band of Mission Indians in San Diego County (CA). He also serves part-time as the Tribal Emergency Management Specialist for the Inter-Tribal Council of California (ITCC). In 1993, Robert had the distinction of being one of the first Certified Emergency Manager's (CEM) in the nation, and again in 2001 became one of the nation's first Fire Chief's to receive the Chief Fire Officer (CFO) designation. Mr. Nelson has been involved since the early 1980's in the implementation and development of both 9-1-1 phone systems, Emergency Services Regional Communications Systems and Fire Dispatch Centers. Robert also serves on the ITCC Project Advisory Team, the FEMA Tribal CERT Board, and as Vice Chairman on the International Association of Emergency Manager's "Tribal Affairs Committee."

Art Prest

Art Prest has over forty years experience in the telecommunications industry. Since 2004 he has been working with small and medium size wireless carriers, vendors, and other industry participants on technical and regulatory issues. He is presently representing the Rural Telecommunications Group (RTG) on the FCC Communications Security, Reliability, and Interoperability Council (CSRIC). He currently represents small telecommunications carriers on the Board of Directors of the E9-1-1 Institute that supports House and Senate members of the United States Congress with issues involving E-911. In 2008 he served as Chairman of the E9-1-1 Institute. In the past Mr. Prest chaired the E9-1-1 Institute Issues Committee on Wireless Rural E911 Issues. In 2006 he was elected to the Board of Directors of IFAST (the International Forum on ANSI-41 Standards and Technology) that manages the use of International Roaming Mobile Identification Numbers worldwide. In the past he has represented the Rural Cellular Association (RCA) on the FCC Commercial Mobile Service Alert Advisory Committee (CMSAAC), the Alliance for Telecommunications Industry Solutions Emergency Services Interconnection Forum (ESIF) and the FCC's Network Reliability and Interoperability Council (NRIC). He is a frequent guest speaker and panel member for numerous wireless industry sessions at the FCC, SuperComm, NENA, APCO, E9-1-1 Institute and RCA. From 2000 until 2004 he was Vice President and Chief Technology Officer for Alpine PCS and RFB Cellular, two independently owned rural wireless carriers. In 2003 and 2004 he served as a member of the Board of Directors of RCA, the Rural Cellular Association. From 1994 to 1999, Mr. Prest was Vice President for Science and Technology at the Cellular Telecommunications & Internet Association (CTIA). Prior to 1994 Mr. Prest worked in management and engineering roles at Telco Systems, Polaroid, Western Electric and Bell Labs. He received a Bachelor's degree from Northeastern University and an MBA with Honors from Boston University.

Public Safety Advisory Committee

Roger Quayle

Roger is the Chief Technology Officer and Co-Founder of IPWireless, where he leads technical marketing, and strategy for new markets and technologies such as mobile satellite. Before co-founding IPWireless, he worked with Qualcomm and led that company's successful effort to standardize CDMA 450 technology in Europe. His other positions include Chief Technology Officer at International Wireless Communications, Inc, an owner of cellular operators in Asia; and General Manager of Technology and Business Development at BCL in New Zealand. Earlier in his career, Roger was the founder and CEO of Datacom Equipment Ltd. in New Zealand.

Deputy Chief Eddie L. Reyes

Chief Reyes has been with the Alexandria Police Department since 1990. He has worked in almost every unit of the Police Department, including being the Department's first domestic violence investigator then rising through the ranks to become the commander of the City's Public Safety Answering Point. He was assigned to the National Institute of Justice CommTech Program (formerly the AGILE Program) for three years. Chief Reyes conducted research and development in the interoperability arena when it was barely recognized at the national level as a critical public safety concern, well before the terrible incidents on September 11th and the Sniper incident that gripped the National Capital Region. He also managed and oversaw public safety radio interoperability operations for the City of Alexandria and continues to be a key player in the National Capital Region on communications, interoperability and data sharing. He has served as patrol sector commander, special operations bureau commander and is currently the commander of the Administrative Services Bureau. In the National Capital Region (NCR), Deputy Chief Reyes chaired the Metropolitan Washington Council of Governments (COG) Police Technology Subcommittee. This committee focuses on regional technology issues impacting law enforcement and it reports to the regions' police chiefs. During his tenure, and in collaboration with the Naval Criminal Investigative Service (NCIS), this subcommittee focused on a regional law enforcement data sharing system (Law Enforcement Information Exchange – LInX) that includes the regions' municipalities and the NCIS. Today there are over 220 agencies contributing data to this project from the Hampton Roads region of VA to the City of Baltimore. He is currently the Governance Board Chairman. At the state level, he chaired the VA State Interoperability Executive Committee (SIEC). This committee coordinates interoperability issues statewide through end user collaboration and reports to the Governor through the Office of Commonwealth Preparedness. Focusing on training and standards for public safety communications has been his priority while serving on this committee, including a statewide, standardized radio protocol, also known as common language protocol. He has been instrumental in assisting public safety agencies across the country transition from coded radio protocol to a common language protocol. At the national level, he is a past chair of the Law Enforcement Information Management (LEIM) Section of the International Association of Chiefs of Police (IACP). Deputy Chief Reyes is also an active participant and voting member of the National Public Safety Telecommunications Council (NPSTC) and the SAFECOM Executive Committee, representing the International Association of Chiefs of Police on each. He is also an active participant in the IACP's Communications and Technology Committee. Most recently he was appointed by Chairman Genachowski as the Vice-Chair of the Federal Communications Commission Emergency Response Interoperability Center Public Safety Advisory Committee. Deputy Chief Reyes is a graduate of the FBI National Academy, 227th Session in Quantico, VA and Leadership Alexandria 2010. VA Governor Tim Kaine appointed him to the Virginia Latino Advisory Board and the Commission on Immigration. Deputy Chief Reyes is a native of New Mexico. He holds a Bachelor's degree in Criminal Justice from New Mexico State University and is presently working on his Master's Degree in Public Administration with a concentration in Administration of Justice at George Mason University in Fairfax, VA.

William Schrier

Service as the Chief Technology Officer (CTO) for the City of Seattle since October, 2003. In this role Schrier directs the central information technology function of the City government, including a Department of Information Technology (DoIT) with 205 employees and a 2010 budget of \$56 million. In this capacity Mr. Schrier reports directly to me as Mayor and Chief Executive of the City government. The City of Seattle's Department of Information Technology, under Mr. Schrier's direction, operates and maintains an 800 MHz public safety voice network using FCC licensed frequencies. This network includes 7 radio sites and over 4,400 mobile and portable radios. This network is part of the larger King County 800 MHz public safety voice network which has 29 sites and almost 15,000 mobile and portable radios. Mr. Schrier is a member and past chair of the King County Regional Communications Board which oversees and governs the County-wide network. Mr. Schrier is also the City of Seattle's representative to the Regional Radio Executive Policy Committee. This Committee is composed of representatives of all agencies which operate voice radio networks in the three county Seattle Urban Area (as defined by the Department of Homeland Security). This are includes King, Snohomish and Pierce Counties. The RREPC is chaired by the deputy County Executive of King County and is charged with creating a strategic plan and roadmap for the public safety wireless narrowband and broadband, voice and data, networks used throughout the region. Mr. Schrier is presently serving as chair of the Public Safety Spectrum Trust's (PSST) Operator Advisory

Public Safety Advisory Committee

William Schrier (continued)

Committee, coordinating information sharing and work between the twenty-one states, cities and regions who have received conditional waivers from the FCC for use of 700 MHz spectrum to construct public safety broadband wireless networks. Mr. Schrier holds a B. S. in Physics from Loras College and a Masters in Public Administration (MPA) from the University of Washington in Seattle.

Andrew Seybold

Andrew Seybold has been involved in Public Safety and Public Safety Communications for more than 50 years, starting as a first responder and then working with RCA Mobile Communications, General Electric Communications, Biocom (where he helped develop the first paramedic radio for sending voice and EKG from an incident to a hospital), and Motorola. In 1981, he began his career as a consultant, educator, and writer. For the past three years, Mr. Seybold has been volunteering his time and efforts to the Public Safety community in its quest to build a nationwide, interoperable broadband communications network, and has worked closely with the Public Safety Spectrum Trust, The Public Safety Alliance, the Major City Chiefs Association, APCO, The International Chiefs of Police, the National Sheriff's Association, and other organizations. Mr. Seybold works with both Public Safety and the commercial sector on wireless communications issues and is one of the few individuals who is conversant with existing Public Safety communications as well as the commercial technologies including second, third and fourth-generation commercial systems, handsets, chipsets, and back-end systems. Mr. Seybold has contacts within many of the organizations and companies that will be working together to form public/private partnerships in both the major metro areas and in rural America. Mr. Seybold has extensive contacts and relationships with all of the major commercial network vendors, operators, and device manufacturers, with Public Safety, and with many of the smaller rural telephone and utility companies that are potential partners for Public Safety to help provide broadband coverage across the United States. Mr. Seybold has been a licensed amateur radio operator for more than 50 years, is a member of the ARRL, and has held various positions within the Amateur Radio Emergency Services organization including Emergency Coordinator. He has a long established relationship with Cal-Fire and has served as a liaison between Cal-Fire and the amateur radio community. He is a long-standing member of APCO, and is a member and Fellow in the Radio Club of America. In November of 2010, Mr. Seybold was honored with the RCA Sarnoff award for his contributions in the field of wireless communications, and he was nominated for induction into the Wireless Hall of Fame. In early 2011 he was chosen as the Co-Chair for the newly formed APCO Broadband Committee and has been active in formulating that committee's creation and early recommendation to the APCO Board of Directors. The Andrew Seybold Wireless University, held twice a year prior to the CTIA conferences, is now in its 16th year, and his annual Wireless Dinner will celebrate its 21st year at CES in Las Vegas in January 2011. He writes his own e-newsletters including his *COMMENTARY, TELL IT LIKE IT IS* blog, and *PUBLIC SAFETY ADVOCATE*. He also writes for *Forbes.com*, *Fierce Wireless*, *Fierce Mobile Content*, *Wireless Week*, *Mobile Enterprise Magazine*, and *Urgent Communications*, and has authored three books

Michael Simpson

Mike Simpson is the Texas Department of Public Safety Assistant Director for Law Enforcement Support, and oversees six functional areas with about 900 employees. He is also the Texas Statewide Communications Interoperability Coordinator and Technology Advisor to the Governor's Office, serving 5,300 public safety agencies in 254 counties with 25 million residents. His responsibilities include management of Texas interoperable communications strategic planning efforts, 32 TxDPS communications centers across the state, TxDPS radio maintenance operations, the TxDPS statewide VHF P25 radio network, the state's Communications Coordination Group (which stands up during major critical incidents), TxDPS mobile communications platforms, and the state's strategic reserve of cached radio equipment. He is the former Program Manager of the \$100-million Austin/Travis County Regional Radio System, and former Wireless Communication Services Division Manager for the City of Austin. Mr. Simpson has 44 years of communications experience, is a graduate of the University of Texas at Austin, and holds a Masters Peace Officer Certification with the Texas Commission on Law Enforcement Officer Standards and Education.

Tom Sorley

Tom Sorley, Deputy Director Radio Communication Services for the City of Houston, Texas, brings over 25 years of experience as both an advocate for public safety telecommunications issues and as an administrator in public safety telecommunications, from his early days of service in the Orlando, Florida, Police Department's 9-1-1 Center to his current role as Deputy Director for radio services in the fourth largest city in the nation. Mr. Sorley has served as Communications Manager for both the Orlando Police Department and Orange County, Florida. He has chaired several local and state industry panels and committees. Mr. Sorley has extensive experience in local and state communication issues at all levels. Mr. Sorley has served as Executive Council Representative for the Association of Public Safety Communications Officials, International (APCO) and has chaired chapter, regional, and international conferences for the group. Mr. Sorley has also been an active participant in the Software Defined Radio Forum as a representative of

Public Safety Advisory Committee

Tom Sorley (continued)

NPSTC. Mr. Sorley currently serves as Governing Board Vice-Chair for the Department of Homeland Security Project 25 Compliance Assessment Program. Mr. Sorley holds a Bachelor's degree in management and a Master's degree in business, both from Nova Southeastern University. Mr. Sorley also holds numerous industry certificates and is an alumnus of the Southern Police Institute Command Officer Development Course.

Dorothy A. Spears-Dean

Ms. Spears-Dean is a communication and technology professional with over sixteen years of experience, possessing extensive knowledge of public safety technology issues affecting state and local governments. She holds an M.B.A. from The University of Richmond and a B.A. from The College of William and Mary. Currently, she is employed by the Virginia Information Technologies Agency as the Public Safety Communications Coordinator and is responsible for managing the Commonwealth's 9-1-1 program and licensed spectrum. In conjunction with her professional responsibilities, Ms. Spears-Dean is an accomplished author and presenter, having had numerous articles on topics related to information technology published in professional journals. She also has designed a Grant Management course for the National Emergency Number Association, which she regularly presents around the country, along with lecturing on 9-1-1 related topics at numerous state and national conferences. In addition to her work with the Commonwealth of Virginia, she will complete her Ph.D. in the spring of 2011 in Public Policy and Administration at the Center for Public Policy on the campus of Virginia Commonwealth University.

Paul Steinberg

Paul Steinberg joined Motorola in 1992 and is presently Chief Technology Officer for Motorola Solutions. Prior to being appointed CTO, Paul was chief architect for Integrated Command and Control and Private Broadband Solutions for public safety systems. Before this assignment, Paul was chief architect for carrier wireless infrastructure broadband products (WiMAX and LTE) in Motorola's wireless networks business. In prior roles, he led system architecture activities for Motorola's cellular infrastructure common platforms as well as the Japan PDC and CDMA2000 cellular access network product families. Throughout his career, he has focused on IP networking, high availability platforms, application architectures and call control aspects of network solutions. Paul serves on technical advisory boards for multiple companies that supply products and technologies into the networking industry. Paul is a member of Motorola's Science Advisory Board Associates, was recognized with the Motorola Dan Noble Fellow award in 2004 and was named a Motorola Fellow in 2006. He also holds several US patents. Prior to joining Motorola, Paul was a Distinguished Member of Technical Staff at AT&T Bell Laboratories where he worked on operating system architectures and the development of shared memory and distributed multiprocessing computing systems.

Bradley A. Stoddard

Brad Stoddard is the Director of the Michigan Public Safety Communications System for the State of Michigan. Prior to joining the state of Michigan, Brad worked for the Department of Defense (DOD) at the Joint National Test Facility in Colorado Springs, Co. providing a critical insight to crisis communications. As one of the elemental electrical engineers responsible for the design oversight, and construction of the MPSCS within the Michigan State Police, Brad went on to implement the asset management, maintenance tracking system, and mobile data computing unit for the MSP and other state agencies. Brad had been the Director of Information Technology for the Michigan State Police, Michigan Department of Military and Veterans Affairs, and the Michigan Department of Transportation before re-joining the MPSCS as Director. In his prior and current Director roles, formalizing strategic plans and initiatives to increase efficiency with use of technology, his success has resulted in state and national recognition. Brad has had a vital role and passion for changing the strategic and tactical landscapes for delivery of public safety applications with integrated identity management and interoperable communications by introducing new, and leading edge technology to meet stringent requirements while minimizing long term costs.

Thomas Sugrue

Thomas J. Sugrue is Senior Vice President of Government Affairs at T-Mobile U.S.A. In this position he is responsible for managing T-Mobile's regulatory and legislative activities at both the federal and state levels. Prior to joining T-Mobile U.S.A., Sugrue served for four years as Chief of the Wireless Telecommunications Bureau in the Federal Communications Commission. The Wireless Bureau is responsible for programs and policies governing the nation's wireless industries, including running the FCC's radio spectrum auctions program, establishing rules and policies for wireless services, and handling the FCC's licensing, enforcement, and other regulatory functions. Prior to becoming Wireless Bureau Chief in January 1999, Sugrue was a partner in the Washington D. C. law firm of Halprin, Temple, Goodman & Sugrue, where he specialized in communications law, regulation, and policy. From 1989 to 1995, Sugrue was the Deputy Assistant Secretary in the Department of Commerce's National Telecommunications and Information Administration (NTIA). At NTIA, Sugrue advised the Assistant Secretary, the Secretary of Commerce, and the White House on communications and information

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Thomas Sugrue (continued)

issues, developed Executive Branch policy positions, and implemented regulatory and political strategies to advance those positions. Prior to joining NTIA, Sugrue worked at the FCC as Chief of the Policy Division in the Common Carrier Bureau. While at the FCC, Sugrue was responsible for developing and implementing a number of key policy initiatives, including the FCC's interconnection, open network, and unbundling rules; the Commission's "access charge" policies; the promotion of universal service; and the transition to competition in various telecommunications markets, including the break-up of the Bell System. Before joining the FCC, Sugrue was an attorney with the law firm of Wilmer, Cutler & Pickering and a law clerk with the Supreme Court of Massachusetts. Sugrue holds a J.D. degree, *magna cum laude*, from Harvard Law School, a Master's degree in Public Policy from the Kennedy School of Government of Harvard University, and a Bachelor of Science degree in physics, *magna cum laude*, from Boston College.

Terry L. Sult

Chief Terry Sult spent 30 plus years with the Charlotte-Mecklenburg Police Department in North Carolina beginning as a dispatcher at age fourteen and last serving as the division commander for the Center City of Charlotte before, during and after September 11th, 2001. During this time period Charlotte-Mecklenburg enhanced regional radio interoperability through the Urban Area Security Initiative (UASI). From 2004 thru 2008 while serving as the Chief of Police in Gastonia, North Carolina, he worked cooperatively through the UASI to transition the Gastonia radio infrastructure from a 450 MHz conventional system into a sub-system of the Charlotte-Mecklenburg UASI interoperable P25 compliant system additionally interfaced into the North Carolina State VIPER radio interoperability system. Since October 2008 Chief Sult has served as the Chief of Police for the City of Sandy Springs, Georgia. As a tenured police chief in the Atlanta Metro Area of Georgia serving a population of over 100,000, he also has served as the vice chairman of the Chattahoochee River 911 Authority known as ChatComm. ChatComm serves as the primary PSAP and first responder dispatch center for the City of Johns Creek and City of Sandy Springs. ChatComm is one of (if not the) first 911 Centers operated in a public-private partnership, with the iXP Corporation running day-to-day operations overseen by the ChatComm Authority.

Peter van den Berg

Mr. van den Berg is an energetic and self-motivated Information Services and Technology leader with 35+ years of combined experience in all aspect of Information Services and Technology derived from a variety of settings ranging from health care to private industry to government and the military. In addition Mr. van den Berg has extensive global and domestic business exposure. Most recently he was the Deputy Director for the Oregon Wireless Interoperability Network and before that the Chief Information Officer for the Oregon Department of Transportation (ODOT). He also served as the CIO for Silverton Hospital, Director for IT Operations at Providence Health System, Professional Services manager for Sequent Computer Systems, Engineering Computer manager and Customer Support Services manager at Tektronix Inc., and Electronics Officer in the Royal Dutch Air Force. Mr. van den Berg lives with his wife in Beaverton, Oregon. They have two children and two grand children. He loves travel, the outdoors, and sports. He is fluent in English, Dutch, and German.

Chief Charles Werner

Charles Werner is a 36 year veteran of the career and volunteer fire rescue service. He presently serves as the fire chief for the City of Charlottesville, VA. Regionally, Werner is a director on the Charlottesville-Albemarle-UVA Emergency Communications Management Board which oversees the regional 911 and Emergency Communications Center. At the state level, Chief Werner was appointed by the Governor and presently serves on the Statewide Interoperability Executive Committee (SIEC) and the Secure Commonwealth Panel. He has also been appointed by the VA Secretary of Public Safety to serve on the Public Safety Executive Advisory Committee. At the national level, Werner is the vice-chair of the Department of Homeland Security SAFECOM Executive Committee (former chair), the chair of the Department of Homeland Security Virtual USA Strategic Resource Group, a member of and the first chair of the International Association of Fire Chiefs Technology Council (IAFC) and on the Board of Directors of the National Alliance of Public Safety GIS. Werner is the immediate past president of the Virginia Fire Chiefs Association and served for three years on the National Public Safety Telecommunications Council (NPSTC) Governing Board. Chief Werner is a contributing editor for Firehouse Magazine and contributor to Urgent Communications Magazine with over 70 nationally published articles on public safety communications and technology. Chief Werner has been recognized for his efforts through a number of local commendations, three Governor's Awards for Fire Service Excellence, the 2008 Fire Chief Magazine National Career Fire Chief of the Year and the 2008 NPSTC Richard DeMello Award.

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Robert Wideman

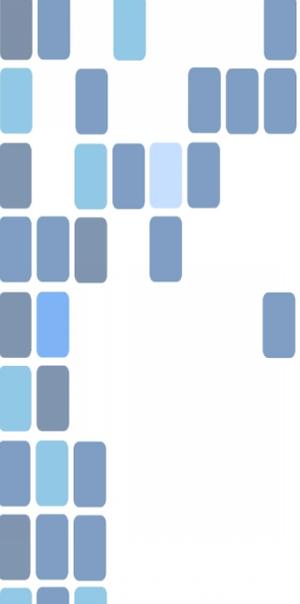
Robert Wideman is the Statewide Interoperability Coordinator for the Nevada Department of Public Safety Division of Emergency Management. Prior to serving as the Statewide Interoperability Coordinator for Nevada, Mr. Wideman completed over 30 years of experience with the Nevada Department of Public Safety as a state trooper, major crimes detective and various supervisory positions before serving as a regional highway patrol commander, including command of statewide communication services, chief of statewide investigations and chief of criminal history and state information technology services. Mr. Wideman has substantial experience in legislative testimony as well experience in national policy development in information sharing through the national criminal justice Advisory Policy Board working group participation and involvement in the development of the National Data Exchange (NDeX) Mr. Wideman brings communication and information sharing experience from both a user perspective as well as a policy development perspective.

Gary Wingrove

Gary Wingrove is director of government relations and strategic affairs for Mayo Clinic Medical Transport. He is past-president of the National EMS Management Association, a Secretary of Transportation appointee to the National EMS Advisory Council, a member of the Executive Council of SAFECOM, chair of the International Roundtable on Community Paramedicine, past chair of the Rural Domestic Preparedness Consortium and is president of the Center for Leadership, Innovation and Research in EMS. Gary was recognized by the Journal of Emergency Medical Services as one of the inaugural group of Top 10 EMS Innovators in 2009. In prior EMS roles Gary operated multiple EMS communications centers and was state EMS director of Minnesota.

Kenneth J. Zdunek, Ph.D.

Kenneth (Ken) Zdunek, an Adjunct Professor and research faculty member in the Electrical and Computer Engineering Department at the Illinois Institute of Technology (IIT), in Chicago, Illinois. He leads research in the areas of public safety wireless networks, dynamic spectrum access, and interference identification and mitigation, and teaches a graduate course in wireless communication system design. Mr. Zdunek is a Fellow of the Institute of Electrical and Electronic Engineers, recognized for his leadership in integrating voice and data in wireless networks. Concurrently he does consulting in the wireless communications as VP and CTO of Roberson and Associates. Prior to joining the Illinois Institute of Technology, Mr. Zdunek was VP of Networks Research at Motorola for 9 years. He was awarded Motorola's patent of the year award in 2002 for a voice-data integration approach used in GSM GPRS. He holds 17 other patents. Mr. Zdunek was also in Motorola's Government and Public Safety division for 24 years, where he directed the invention and validation of Nextel's iDEN™ voice-data air interface and internet protocol-based roaming approach, and was the principal architect of Motorola's APCO-16 compliant public safety trunking protocol suite. In the 1990's, he directed a spectrum utilization and public safety spectrum needs projection submitted to the FCC in support of the re-allocation of 700 MHz spectrum for public safety. He was awarded the BSEE and MSEE degrees from Northwestern University, Evanston, Illinois, and the Ph.D. EE degree from the Illinois Institute of Technology. He is a registered Professional Engineer in the State of Illinois. Mr. Zdunek is President of the Board of the Directors of the Chicago Public Schools Student Science Fair, Inc.



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