NIST Cloud Computing
Forum and Workshop IX

September 13, 14, and 15, 2016

Speaker Profiles

Susie Adams
Chief Technology Officer, Microsoft Federal

Susie Adams is the Chief Technology Officer for Microsoft's Federal Government business and brings with her over 30 years of IT experience. Susie joined Microsoft in 1999 and has held several leadership positions in Microsoft including the Director of the Microsoft Reston Virginia Technology Center and most recently the CTO of the Federal Civilian Business. Prior to joining Microsoft, she spent 16 years in the consulting arena working with customers in both the commercial and government sectors. She held a variety of management and leadership roles including practice manager, systems analyst and software developer. Susie was named as a Fed100 award winner in 2011 and has authored several books on the topics of software integration and web development. Susie is a graduate of George Mason University where she received a BS in Information Systems.

Kapil Bakshi
Systems Engineer at Cisco Systems, Inc.

Kapil Bakshi is a Distinguished Systems Engineer at Cisco Systems Inc. He is responsible for leading Technology & Business Architectures, including Data Center, Analytics and cloud computing strategy and initiatives. Kapil has extensive experience in strategizing, architecting, managing, and delivering complex technology solutions. During his career, he has held several architectural, consulting, and managerial positions within the industry. Prior to Cisco, Kapil worked for Sun Microsystems, working with US Pubic Sector, Enterprise and Service Provider customers. Prior to SUN Microsystems, he worked for Hewlett-Packard and several government system integrators in consulting and product development roles. He chairs and leads several industry forums. He is also a prolific author of numerous technical papers, publications and books. Kapil holds both a BS in electrical engineering and a BS in computer science from the University of Maryland, College Park, as well as an MS in electrical & computer engineering from Johns Hopkins University, and an MBA from the University of Maryland, College Park. He also holds U.S. patents for data center and related solution sets.

Abdella Battou
Division Chief of the Advanced Networking Technologies Division, ITL, NIST

Abdella Battou is the Division Chief of the Advanced Network Technologies Division, within The Information Technology Lab at NIST. He also leads the Cloud Computing Program.

Before joining NIST in 2012, Abdella served as the Executive Director of the Mid-Atlantic Crossroads (MAX) GigaPop founded by The University of Maryland, The George Washington University, The Georgetown University and The Virginia Polytechnic Institute.

From 2000 to 2009, he was Chief Technology Officer, and Vice President of Research and Development for Lambda OpticalSystems, where he was responsible for overseeing the company's system architectures, hardware design and software development teams.

Additionally, he served as senior research scientist for the Naval Research Laboratory's high speed networking group, Center for Computational Sciences from 1992 to 2000.

Dr. Battou holds a PhD and MSEE in Electrical Engineering from the Catholic University of America.

Dr. Robert Bohn
NIST Cloud Computing Program Manager, Advanced Networking Technologies Division, ITL, NIST

Dr. Robert Bohn serves as Program Manager for the NIST Cloud Computing Program. In this role, he manages and coordinates the goals and strategy of the program and also works with industrial, academic and other government stakeholders to develop the US Government Cloud Computing Technology Roadmap (NIST SP 500-293). This roadmap contains the highest priority requirements in security, interoperability and portability to ensure a safe & secure adoption of cloud computing for the USG.

Previously, Dr. Bohn served as the Technical Coordinator for the High End Computing Interagency Working Group (HEC-IWG) at National Coordination Office of the Networking and Information Technology Research and Development (NITRD) under the Office of Science and Technology Policy (OSTP). He now serves as a co-chair for the FASTER Community of Practice under the NITRD Program.

He was a recipient of a National Research Council fellowship at NASA Ames Research Center in Moffett Field, CA, received Ph.D. in Physical Chemistry from the University of Virginia and a Bachelor of Science degree in Chemistry from the University of Illinois.

Jodi Cramer
Senior Air Staff Counsel, Information Law Administrative Law Directorate Office of The Judge Advocate General, USAF

Jodi Cramer is currently assigned as Senior Air Staff Counsel for Information Law, Administrative Law Directorate, Office of the Judge Advocate General, Headquarters U.S. Air Force, Washington, D.C. Her primary responsibility is to provide legal advice on information law policy including: FOIA, Privacy, Records Management, Civil Liberties, Section 508, Paperwork Reduction Act, Cyber Security, and Technology Policy, and issues amongst other issues to the Air Force CIO/A6. Jodi entered Federal service in 2005 as a General Attorney with the Federal Emergency Management Agency (FEMA) where she advised on Technology, Media, FOIA, Privacy, Ethics, Fiscal, Personnel, and Intellectual Property issues and other general law issues including MSPB and FOIA litigation. She was the legal advisor to FEMA's social media program where she negotiated the first government agreement with a social media company and wrote the Agency's Web 2.0 Policy. She also co-founded the Federal Cloud Compliance Committee and co-authored the white paper "Best Practices for Acquiring IT as a Service". Prior to joining FEMA she worked as a contractor on policy issues for several government agencies.
Jodi has an undergraduate degree from New York University in New York, NY, and a Juris Doctorate from SUNY Buffalo, in Buffalo, NY. Jodi is licensed to practice law in New York

Frederic de Vaulx
NIST Associate
VP Prometheus Computing LLC
Chair, NIST Cloud Service Metrics Public Working Group

Frederic is a Senior Software Engineer specializing in the analysis, design and development of software applications. He earned a master's degree in computer science from ESIAL France in 2003 and has served as technical lead on several projects.

Frederic has been involved in the NIST Cloud Computing Program since January 2011, first as part of its public working groups (mainly the Reference Architecture and Taxonomy Working Group) and then as a program associate. He currently leads the Cloud Metrics Public Working Group, which is part of the Reference Architecture and Taxonomy Working Group. The group is developing a model to define cloud metrics.

Stephen L. Diamond

Chair, IEEE Cloud Computing Standards Committee
Vice Chair, IEEE Future Directions Committee
Global Standards Officer and General Manager of the Industry Standards Office, EMC Corporation

Stephen L. Diamond has more than 40 years of senior management, marketing, mergers and acquisitions, business development, industry standards, strategic planning, and engineering management experience in computer hardware, software, and semiconductors.

Most recently, he was Global Standards Officer and General Manager of the Industry Standards Office at EMC Corporation, a multinational Fortune 500 cloud computing, big data, and IT solutions provider headquartered in Hopkinton, MA.

Prior to EMC, Steve was Director of Product Management for Intercloud Computing at Cisco Systems, where he built what was at the time the largest Amazon Web Services-compatible cloud outside of Amazon, and was responsible for Cisco's cloud computing industry standards program.

Before that, he was Vice President of Marketing at Equator Technologies, a very-long-instruction-word signal-processing chip startup, Vice President of Business Development at Tycho Networks, Director of Mergers and Acquisitions at National Semiconductor, and Director of SPARC Marketing at Sun Microsystems.

Steve is the Chair of the IEEE Cloud Computing Standards Committee and Vice Chair of the IEEE Future Directions Committee. Prior to that, he was the Founder of the IEEE Cloud Computing Initiative. Steve served on the IEEE Board of Directors in 2009-10 and 2005-06, and chaired its Marketing & Sales and Strategic Planning Committees.

He was 2003 President of the IEEE Computer Society, Vice President for Standards in 1999-2000, and Editor-in-Chief of IEEE Micro Magazine from 1995-98. He was a founding member and Vice Chair of the IEEE Standards Association Board of Governors in 2001-02.

Steve is a prolific speaker on cloud computing, the Intercloud, and big data, recently serving as General Co-Chair of IEEE CloudCom, and has authored more than 20 technical publications on cloud computing, memory and microprocessor technology, signal processing, expert systems, and computer graphics.

Steve was awarded the IEEE Computer Society Richard E. Merwin Medal in 2014, the IEEE Third Millennium Medal in 2000, and the IEEE Computer Society "Golden Core" in 1997.

Donna Dodson
Chief Cybersecurity Adviser and Director of the National Cybersecurity Center of Excellence (NCCoE), NIST
Associate Director
Chief Cyber Security Adviser ITL

Donna Dodson is the Associate Director and Chief Cybersecurity Advisor of the Information Technology Laboratory (ITL) and the Chief Cybersecurity Advisor for the National Institute of Standards and Technology (NIST). She is also the Director of NIST's National Cybersecurity Center of Excellence (NCCoE).

Donna oversees ITL's cybersecurity program to conduct research, development and outreach necessary to provide standards, guidelines, tools, metrics and practices to protect the information and communication infrastructure. Under her leadership, ITL collaborates with industry, academia, and other government agencies in research areas such as security management and assurance, cryptography and systems security, identity management, security automation, secure system and component configuration, test validation and measurement of security properties of products and systems, security awareness and outreach and emerging security technologies. In addition, Donna guides ITL programs to support both national and international security standards activities. She recently led the establishment of the NIST NCCoE. Through partnerships with state, local and industry, the NCCoE collaborates with industry sectors to accelerate the widespread adoption of standards-based cyber security tools and technologies.

Donna's research interests include applied cryptography, key management, authentication and security testing. She has led technical teams to produce standards, guidelines and tools in each of these areas.

Donna received three Department of Commerce Gold Medals and three NIST Bronze Medals. She was a Fed100 Award winner for her innovations in cybersecurity and in 2011 was included in the top 10 Influential People in Government Information Security. Recently, FedScoop recognized Donna as one of DC's Top 50 Women in Tech.

Joel J. Fleck II
Head – Cloud Standards, Hewlett-Packard

Joel has served as a Board Director, executive, chief architect and lead contributor in numerous standards groups and activities including INCITS Cloud38, ISO/IEC JTC1 SC38, IEEE-SA OASIS, OMG, WS-I and TeleManagement Forum. He currently serves on the Executive Board of INCITS, as Convenor of the JTC1 SC38 Working Group on Cloud Interoperability and Portability and as the Chair of the IEEE-SA P2303 Working Group on Adaptive Management for Cloud Computing.

Joel graduated from the University of Michigan with a MS in Industrial and Operations Engineering specializing in large-scale system design and the University of Vermont with a BS in Computer Science with coordinate majors in Electrical Engineering and Environmental Engineering. He is Distinguished Fellow of the TeleManagement Forum.

Chris Goehring
Senior Platform Architect at Pivotal

Chris Goehring is a Senior Platform Architect at Pivotal. He helps Federal organizations innovate, accelerate, and transform how they build software for the cloud era by effectively applying DevOps, lean/agile methodologies, and by exploiting application and data platforms. Chris has over 15 years of professional experience architecting, developing, and integrating software applications and solutions for commercial and government organizations.

Melvin Greer
Director Data Science and Analytics, Intel

Melvin Greer is Director Data Science and Analytics, Intel Corporation. Melvin uses his knowledge in graph analytics, machine learning and cognitive computing to accelerate transformation of data into a strategic asset for Federal Agencies and global enterprises. His systems and software engineering experience has resulted in patented inventions in Cloud Computing, Synthetic Biology and IoT Bio-sensors for edge analytics

John Hale
John E. Hale, Chief, Enterprise Applications, Defense Information Systems Agency

Mr. Hale is responsible for a host of enterprise services, including DoD Enterprise Email, DoD Enterprise Portal Service, and Defense Connect Online. Enterprise Applications provides a diverse portfolio of capabilities to the Department of Defense (DoD) that enhances operational effectiveness, cross-organizational collaboration, and cyber-security. As a key focus area of DISA's Enterprise Services offerings, Enterprise Applications balances cost-effective solutions with the department's unique requirements for physical and virtual security.

Originally from Decatur, Alabama, Hale is a graduate from The University of Maryland, University College. Prior to his civilian service, he served 8 years in the United States Air Force and 11 years in the commercial sector. Mr. Hale started his civilian service with the Director of National Intelligence and moved to the Defense Information Systems Agency in 2009.

Michael D. Hogan
Standards Liaison Information Technology Laboratory, NIST

With over 40 years of standards experience, Mr. Michael D. Hogan serves as the Standards Liaison for the NIST Information Technology Laboratory. He represents NIST at national and international fora that advance measurement science, testing, and standards for Information Technology (IT). Since September 2003, Mr. Hogan has served as the Convener of the international standards group: ISO/IEC JTC 1/SC 37 Working Group 4 – Technical Implementation of Biometric Systems. From February 2007 to November 2012, Mr. Hogan served as the Co-Chair and then Chair of the Standards and Conformity Assessment Working Group of the NSTC Subcommittee on Biometrics and Identity Management.

Mr. Hogan is a past recipient of the ANSI Ed Lohse Information Technology Medal. Mr. Hogan graduated with honors with a B.S. degree in electrical engineering from the University of Maryland in 1973. He was a Distinguished Graduate of the U.S. Army Infantry Officer Candidate School in 1967.

Timothy Howard
National Science Foundation – Division of Polar Programs

Tim Howard is the Information Technology Operations and Security Program Manager for the National Science Foundation U.S. Antarctic Program (USAP). Tim oversees the IT infrastructure operations and cybersecurity activities at 11 USAP operating locations, including three Antarctic research stations and two research vessels. Each year, the USAP IT infrastructure supports 118 science and technical events conducted by 72 academic institutions and federal agencies across eight major science program areas, including the IceCube Neutrino Array and the South Pole telescope. Tim is a Certified Information System Security Professional (CISSP), and a Penn State grad with a Bachelor of Science degree in Aerospace Engineering. Tim also holds a Master of Science degree in Telecommunications Management from the University of Maryland University College and is currently participating in the Chief Information Officer certificate program at Carnegie-Mellon University.

Dr. Michaela Iorga
Senior Security Technical Lead for Cloud Computing, NIST

Dr. Michaela Iorga is the Senior Security Technical Lead for Cloud Computing with the National Institute of Standards and Technology (NIST) and the Co-chair of NIST Cloud Computing Security and Cloud Computing Forensic Science Working Groups. Michaela is a recognized expert in cloud computing, information security risk assessment, information assurance and ad-hoc mobile networks. She has an extensive knowledge base in the development of complex security architectures and a deep understanding of security, privacy and identity and credential management issues in the cyberspace - an expertise she gained while serving, in different roles, government, academia and private sectors. In her role at NIST, Dr. Iorga promotes American innovation and industrial competitiveness by working with industry, academia, and other government stakeholders to develop and disseminate vendor-neutral cybersecurity standards and guidelines that meet national priorities. Her current focus includes the development of security, privacy and forensic science specifications and guidelines that support the widespread adoption of cloud computing

Dr. Ajit Jillavenkatesa
Senior Standards Policy Adviser, NIST

Dr. Ajit Jillavenkatesa is a Senior Standards Policy Adviser with the Standards Coordination and Program Coordination offices at the National Institute of Standards and Technology (NIST), and is also a member of the Dept. of Commerce's Digital Economy Office.

Ajit specializes in standards and technology related policy issues in South Asia, Asia-Pacific and Europe with a particular focus on China, Japan and India; and in emerging technologies such as nanotechnology and information and communication technologies/digital economy technologies. He provides standards policy and technical expertise to NIST staff and leadership, the U.S. Department of Commerce, other U.S. Government agencies and the private sector. An active participant in international standards development activities, he contributes technology standards and related policy expertise to intra- and inter- governmental groups, bridging the worlds of standards, technology, international trade and regulatory policy.

He has provided standards policy expertise to the House Committee on Science and Technology during a short-term assignment to the Committee in 2010, and was a resource to Committee staff during the development and reauthorization of the America COMPETES Act, signed into law as the America COMPETES Reauthorization Act of 2010 (P.L.111-358).

Dr. Jillavenkatesa is a materials scientist by training. He joined NIST in 1997 as a post-doctoral fellow, with a Ph.D. in Ceramics from Alfred University in New York. He has authored and co-authored books and peer reviewed publications related to physical and chemical characterization of materials. He received the American National Standards Institute's Next Generation Award in 2008, and U.S. Department of Commerce Silver Medal in 2013 and the Department's Bronze Medals in 2009 and 2011.

Cary Landis
Executive Director
FedPlatform.org

Cary Landis is Executive Director of FedPlatform.org, a nonprofit that helps federal organizations navigate the complex world of cloud computing. He has served in multiple technology leadership roles at companies including SAIC, Virtual Global and KeyLogic Systems. Cary has been involved in several NIST Public Working groups since early stages of the cloud program.

Dr. Craig A. Lee
Senior Scientist, The Aerospace Corporation

Craig A. Lee is a Senior Scientist in the Computer Systems Research Department of The Aerospace Corporation. He has worked in high-performance parallel and distributed computing for the last thirty years. Dr. Lee served as the President of the Open Grid Forum from 2007 to 2010. He contributed significantly to the NIST Cloud Technology Roadmap and is now supporting the NIST Cloud Federation Working Group. He has also served as a panelist for the NSF, NASA, DOE, and as an international evaluator for INRIA. He is an associate editor of Future Generation Computing Systems (Elsevier) and on the editorial board of the International Journal of Cloud Computing (Inderscience). Dr. Lee holds a Ph.D. in Computer Science from the University of California, Irvine.

Laura Lindsay
US National Standards Officer, Microsoft Corporation

Laura has been working in the industry on cloud computing, Information security, International standards, network operations, and architecture for over 20 years. She has spent the last 10 years working on standards and is the editor of several standards including Recommendation Y.3502|ISO/IEC 17789, Cloud Computing Reference Architecture.

Ms. Lindsay currently works within the Corporate Standards team, working on standards in the area of Cloud Computing, Information Security and Internet of Things. Her background in delivering security solutions for customers and the industry as a whole has helped to bring a implementers view to International Standards. Prior to her current role she worked in Consulting Engineering (focusing on Cloud Security), Information Security (Infosec), and Network Operations and Design.

Paul Lipton
Vice President, CA Technologies

Paul Lipton is Vice President at CA Technologies where he leads the corporate Open Standards and Open Source Program, coordinating participation for open standards and open source organizations and functioning as part of CA Labs, the advanced research group within the Office of the CTO. He is a founding member of the CA Council for Technical Excellence, the leading academy of technology thought-leaders within the company, where he has focused on emerging technologies.

Paul also serves on the Board of Directors of OASIS, the Eclipse Foundation, the Object Management Group, and the Distributed Management Task Force (DMTF). Paul is an approved US delegate of international standards organization ISO/IEC JTC 1, where he is a member of the SC38 subcommittee focused on cloud standards and the WG10 workgroup focused on the Internet of Things.

Paul is Co-Chair of the OASIS Topology and Orchestration Specification for Cloud Applications (TOSCA) Technical Committee, which has nearly 200 members from a diverse range of countries, companies, and research organizations. He has also contributed to many other leading industry organizations such as the W3C and INCITS, written articles, and spoken at numerous conferences covering areas such as Cloud, Software Defined Environments, Internet of Things, and Smart Cities.

David Maher
Executive Vice President and Chief Technology Officer

David Maher has over 30 years of experience in secure computing and is responsible for Research and Development at Intertrust. Before joining Intertrust in 1999, he was chief scientist for AT&T Secure Communications Systems, Head of the Secure Systems Research Department, and security architect for AT&T's Internet services platform. After joining Bell Labs in 1981, Maher developed secure communications, information vending, and e-commerce systems. He was Chief Architect for AT&T's STU-III secure voice, data, and video products used by the White House and Department of Defense for top-secret communications. In 1992, Maher became a Bell Labs Fellow in recognition of his accomplishments in communications security. Maher holds multiple patents in secure computing; has published papers in the fields of mathematics and computer science; and has consulted with the National Science Foundation, National Security Agency, National Institute of Standards and Technology, and the Congressional Office of Technology Assessment. Maher holds a Ph.D. in mathematics from Lehigh University. He has taught electrical engineering, mathematics, and computer science at several institutions.

Dr. Willie E. May
NIST Director; Under Secretary of Commerce for Standards and Technology
Office of the Director

On May 4, 2015, Congress confirmed Dr. Willie E. May as the 15th Director of the National Institute of Standards and Technology (NIST). He also serves as Under Secretary of Commerce for Standards and Technology, a position created in the America COMPETES Reauthorization Act of 2010. Dr. May had served as Acting NIST Director and Acting Under Secretary of Commerce for Standards and Technology since June 2014. Prior to that assignment, he was Associate Director for Laboratory Programs, where he was responsible for oversight and direction of NIST's seven laboratory programs and served as the principal deputy to the NIST Director.

As NIST Director, Dr. May provides high-level oversight and direction for NIST. The agency promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology. NIST's FY 2015 resources total $863.9 million in direct appropriations, an estimated $50 million in service fees, and $120 million services rendered to other

agencies on a cost reimbursable basis. NIST employs about 3,000 scientists, engineers, technicians, support staff, and administrative personnel at two main locations in Gaithersburg, MD, and Boulder, CO. NIST also hosts ~3500 Associates from academia, industry, and other government agencies, who collaborate with NIST staff and access user facilities. In addition, NIST partners with more than 1,300 manufacturing specialists and staff at more than 400 MEP service locations around the country.

Dr. May led NIST's research and measurement service programs in chemistry-related areas for more than 20 years. His personal research activities were focused in the areas of trace organic analytical chemistry and physico-chemical properties of organic compounds, where his work is described in more than 85-archival publications.

Other National and International Responsibilities:

Dr. May has several leadership responsibilities in addition to those at NIST. He is Vice President of the 18-person International Committee on Weights and Measures (CIPM), President of the CIPM's Consultative Committee on Metrology in Chemistry and Biology; Executive Board Member for the Joint Committee on Traceability in Laboratory Medicine; Board of Visitors for the University of Maryland College Park's College of Computer, Mathematical, and Natural Sciences; External Advisory Boards for the UK National Physical Laboratory and Japan's National Institute of Advanced Industrial Science and Technology.

Honors and Awards:

Department of Commerce Bronze Medal Award, 1981; National Bureau of Standards (NBS) Equal Employment Opportunity (EEO) Award, 1982; Department of Commerce Silver Medal Award, 1985; Arthur Flemming Award for Outstanding Federal Service, 1986; NOBCChE Percy Julian Award for Outstanding Research in Organic Analytical Chemistry and Presidential Rank Award of Meritorious Federal Executive, 1992; Department of Commerce Gold Medal, 1992; American Chemical Society Distinguished Service in the Advancement of Analytical Chemistry Award, 2001; Keynote Speaker-Winter Commencement Ceremonies, University of Maryland, College of Life Sciences, 2002; Council for Chemical Research Diversity Award; NOBCChE Henry Hill Award for exemplary work and leadership in the field of chemistry; Science Spectrum Magazine Emerald Award, 2005; Alumnus of the Year Award from the College of Chemical and Life Sciences at the University of Maryland, 2007; Member of first class of inductees into the Knoxville College Alumni Hall of Fame, 2010; Fellow of the American Chemical Society, 2011; Honorary Doctor of Science and Speaker at Graduate School of Arts and Sciences Commencement Exercises, Wake Forest University, 2012.

Sherwin McAdam
Compute and Storage Team Lead, Cloud Computing Program Manager, NIST

Sherwin McAdam is the Compute and Storage Team Lead and the Cloud Computing Program Manager for the Office of Information Systems Management at NIST. As team lead, Sherwin delivers enterprise services including Virtual Infrastructure, Enterprise Backup, Central File Storage, and Hybrid Cloud. He serves as Project Manager and implementation lead for a range of cloud computing solutions including Email as a Service (EaaS), Infrastructure as a Service (IaaS), and Platform as a Service (PaaS). Mr. McAdam provides cloud computing program planning, direction, administration, and oversees all aspect of program performance, contractual, technical, and administrative.

Todd McAnally
CTO, Waverley Labs

Todd has been a developer in the field of networking and device management for almost 30 years. Spent many years as an independent consultant. He has been building tools for cyber security and cyber intelligence for the last 10 years. He recently worked for MITER Cyber Intelligence Division as Department Chief Engineer (4 years) and iSIGHT Partners as Architect (2.5 years). He currently helps architect a Software Defined Perimeter at Waverley Labs.

John Messina
Computer Scientist, Cloud Computing Program Senior Member, NIST

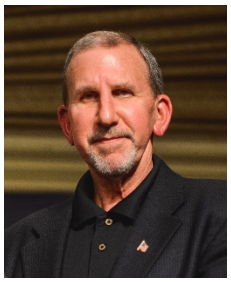
John Messina is a senior member of the Cloud Computing (CC) Project at the National Institute of Standards and Technology (NIST). He holds a M.S. in Computer Science and B.S. in Physics and has been working at NIST as computer scientist since 1998. He has a distinguished record of scientific accomplishments, such as publications and industry presentations, and has received several awards, including NIST's Edward Bennett Rosa Award and the US Department of Commerce's Bronze Medal. Having spent the last few years helping developing data dictionaries and data exchange standards for the US Electronics Industry, he has been co-leading the NIST CC Reference Architecture working group. His particular focus has been on leading efforts to create Cloud Computing Ontologies and various taxonomies.

Marcelo Olasoaga
FAS/ITS Deputy Director of the Cloud Computing Services Program Management Office (CSS PMO), GSA

Mr. Olascoaga serves the Deputy Director of the Cloud Program Management Office within GSA's Federal Acquisition Service (FAS) - a part of the agency's Information Technology Services (ITS) portfolio.

Mr. Olascoaga leads or has provided critical support to several cloud computing initiatives aimed at simplifying and expanding cloud adoption in the federal space. These include management and oversight of GSA's IaaS BPA and EaaS BPA, leading a feasibility study including multi-agency pilot for a Cloud Broker Initiative, implementation of the cloud-specific IT Schedule 70 SIN, and overseeing GSA's extensive market research and requirements gathering for a next-generation cloud contract solution.

Prior to joining GSA, Mr. Olascoaga applied his expertise in strategic planning, enterprise architecture, and capital planning to advance the missions of numerous federal agencies and accelerate innovation in the private sector.



Dr. Ronald Ross
Fellow, NIST

Ron Ross is a Fellow at the National Institute of Standards and Technology (NIST). His current focus areas include information security and risk management. Dr. Ross leads the Federal Information Security Modernization Act (FISMA) Implementation Project, which includes the development of security standards and guidelines for the federal government, contractors, and the United States critical infrastructure. His publications include Federal Information Processing Standards (FIPS) Publication 199 (security categorization standard), FIPS Publication 200 (security requirements standard), NIST Special Publication (SP) 800-39 (risk management guideline), SP 800-53 (security and privacy controls guideline), SP 800-53A (security assessment guideline), SP 800-37 (security authorization guideline), SP 800-30 (risk assessment guideline), SP 800-160 (systems security engineering guideline), and SP 800-171 (security requirements for contractors and nonfederal organizations). Dr. Ross is the principal architect of the Risk Management Framework (RMF), a multi-tiered approach that provides a disciplined and structured methodology for integrating the suite of FISMA-related standards and guidelines into a comprehensive enterprise-wide security program. Dr. Ross also leads the Joint Task Force, an interagency partnership with the Department of Defense, the Office of the Director National Intelligence, the U.S. Intelligence Community, and the Committee on National Security Systems (CNSS) that developed the Unified Information Security Framework for the federal government and its contractors.

Dr. Ross previously served as the Director of the National Information Assurance Partnership, a joint activity of NIST and the National Security Agency. In addition to his responsibilities at NIST, Dr. Ross supports the

U.S. State Department in the international outreach program for information security and critical infrastructure protection. He has also lectured at many universities and colleges across the country including the Massachusetts Institute of Technology, Dartmouth College, Stanford University, the George Washington University, and the Naval Postgraduate School. A graduate of the United States Military Academy at West Point, Dr. Ross served in many leadership and technical positions during his twenty-year career in the United States Army. While assigned to the National Security Agency, Dr. Ross received the Scientific Achievement Award for his work on an inter-agency national security project and was awarded the Defense Superior Service Medal upon his departure from the agency. Dr. Ross is a four-time recipient of the Federal 100 award for his leadership and technical contributions to critical information security projects affecting the federal government and is a recipient of the Department of Commerce Gold and Silver Medal Awards. He has been inducted into the Information Systems Security Association (ISSA) Hall of Fame and given its highest honor of ISSA Distinguished Fellow. In addition, Dr. Ross has been inducted into the National Cyber Security Hall of Fame, Class of 2015.

Dr. Ross has received numerous private sector cybersecurity awards including the Partnership for Public Service Samuel J. Heyman Service to America Medal for Homeland Security and Law Enforcement, Applied Computer Security Associates Distinguished Practitioner Award, Government Computer News Government Executive of the Year Award, Vanguard Chairman's Award, Government Technology Research Alliance Award, InformationWeek's Government CIO 50 Award, Billington Cybersecurity Leadership Award, ISACA National Capital Area Conyers Award, ISACA Joseph J. Wasserman Award, Symantec Cyber 7 Award, SC Magazine's Cyber Security Luminaries, $(ISC)^2$ Inaugural Lynn F. McNulty Tribute Award, 1105 Media Gov30 Award, and the Top 10 Influencers in Government IT Security. During his military career, Dr. Ross served as a White House aide and senior technical advisor to the Department of the Army. Dr. Ross is a graduate of the Defense Systems Management College and holds Masters and Ph.D. degrees in Computer Science from the U.S. Naval Postgraduate School specializing in artificial intelligence and robotics.

Tiffany Sargent
Principle Engineer of Intel

Tiffany A. Sargent holds a bachelor's degree in Industrial Engineering and Operations Research from the University of Massachusetts Amherst and a master's degree in Industrial Engineering from North Carolina State University. She is also a Principle Engineer of Intel and has a Project Management Professional (PMP) certification. Having an engineering education has enabled her to span both technical and business areas at Intel Corporation for the past 22 years nationally and internationally. Tiffany began as a manufacturing systems engineer and rotated through five different business groups taking on various leadership and management roles. She has led multiple complex technical endeavors across different fields most notability in software, enterprise information technology, security, chipset platforms, and Internet of Things. Beyond her technical roles, she has held positions as a business strategist, innovation manager, operations manager, people manager, program manager, and program office manager. Tiffany has received Intel's highest award, the Intel Achievement Award, for innovative cyber-security solutions. Tiffany's primary interest has been to integrate decision science into her technical and leadership roles to accelerate and increase the speed and quality of data driven decisions.

Currently, Tiffany is a senior technical contributor within Intel Sales and Marketing Federal Team focused on designing Internet of Things and Machine to Machine (M2M) Complex Systems, Analytics, and Solution Architectures. She works with multiple federal agencies and business partners to introduce technology opportunities, create solution concepts, and develop technical considerations for policy inclusion that can pave the way to a "Smarter" Government. In 2014, she was named by Connected World Magazine as one of the "Women of M2M".

Tony Scott
CIO US Government, OMB (Office of

Tony Scott, the current Federal Chief Information Officer, joined OMB in February 2015, and brings more than 35 years of leadership and management experience in IT services. Prior to OMB, Mr. Scott served as VMWare's Senior Vice President and Chief Information Officer, where he focused on the effective use of IT to bring improved agility and cost savings to the business. Before VMWare, Mr. Scott was Microsoft's Chief

Management and Budget) |Federal Chief Information Officer

Information Officer, where he oversaw all aspects of the company's information technology organization and enterprise digital supply chain.

Previous to Microsoft, Mr. Scott served as CIO at the Walt Disney Company, Mr. Scott also served as the Chief Technology Officer of Information Systems & Services at General Motors Corporation.

He holds a bachelor's degree in information systems management from the University of San Francisco and a Juris Doctorate with a concentration in Intellectual Property, International Law from Santa Clara University.

Sonny Segal
Chief Information Officer, Montgomery County Maryland

Mr. Sonny Segal was appointed Chief Information Officer of Montgomery County Maryland in May 2012. He serves as the chief technology manager for this large East Coast County and is responsible for an operating budget of over $45 million and a capital budget of approximately $150 million. His responsibilities include information and communications technology management including technology and information security strategy planning, technology innovation, technology acquisition and operations, broadband and cable affairs, and IT sector development. Mr. Segal is a member of the County Executive's cabinet; a member of Governor Larry Hogan's State-wide Interoperability Executive Commission, the Maryland State Council on Open Data; and a member of the Metropolitan Washington Council of Governments' Chief Information Officers' Committee. He is a contributing author to Public Technology Institute's book titled Smarter Cities for a Bright Sustainable Future: A Global Perspective.

Eric Simmon
NIST Cloud Computing Senior Member, Systems Expert, Electronic Information Group, NIST

Eric Simmon is a systems expert in the Electronic Information Group (EIG) at the National Institute of Standards of Technology. He graduated magna cum laude from Worcester, Polytechnic Institute (Worcester, MA) with an electrical engineering degree in 1989. That same year he joined the National Institute of Standards and Technology to work on precision measurements for high voltage and high current. In 2003 he joined the EIG working on using systems modeling to improve the standards development process.

He is presently leading the NIST cloud computing SLA effort and is project editor for the ISO/IEC 19086-2 "Service Level Agreement (SLA) framework and terminology - Metrics" draft standard. In addition to cloud computing Mr. Simmon is leading the NIST effort in cyber-physical cloud computing and is co-chair for the NIST cyber-physical systems use case sub-group.

Annie Sokol
NIST Cloud Computing Senior Member, Designated Federal Officer, Computer Security Division, NIST

Ms. Annie Sokol is an IT Specialist in the Information Technology Laboratory's Computer Security Division at the National Institute of Standards and Technology (NIST). As a member of NIST Cloud Computing Program, she co-chaired NIST Cloud Computing Interoperability and Portability Working Group and NIST Cloud Computing Standards Roadmap Working Group. Currently, she is one of the editors of ISO/IEC AWI 19941 Information Technology – Cloud Computing – Interoperability and Portability. Annie Sokol's involvement in standards development includes Co-Convener for ITU-T and ISO/IEC Collaborative Team for and eventual publication of ISO/IEC 17788 Cloud Computing Vocabulary and Overview. Previously, Annie served as the International Representative and Vice Chair of INCITS B10.12, Integrated Circuit Cards with Contacts.

Annie Sokol is also the Designated Federal Officer for the Information Security and Privacy Advisory Board (ISPAB). The ISPAB advises the Secretary of Commerce and the Director of the Office of Management and Budget on emerging information security and privacy issues pertaining to Federal Government information systems.

James St. Pierre
Deputy Director, Information Technology Laboratory (ITL), NIST

James A. St. Pierre is Deputy Director of the Information Technology Laboratory (ITL). ITL is one of seven research Laboratories within the National Institute of Standards and Technology (NIST).

Along with the ITL Director St. Pierre oversees a research program designed to promote U.S. innovation and industrial competitiveness by developing and disseminating standards, measurements, and testing for interoperability, security, usability, and reliability of information systems, including cybersecurity standards and guidelines for Federal agencies and U.S. industry, supporting these and measurement science at NIST through fundamental and applied research in computer science, mathematics, and statistics. Through its efforts, ITL seeks to enhance productivity and public safety, facilitate trade, and improve the quality of life.

Under the Federal Information Security Management Act, ITL is addressing major challenges faced by the nation in wide range of areas including: cloud computing, big data, cyber-physical systems, electronic voting, and health information technology. Mr. St. Pierre coordinates ITL's involvement in the NIST Cyber-Physical Systems program – ITL's contributions to this effort are focused on cybersecurity, networking, and timing.

His work has been published in the NIST Journal of Research and in external publications. He has given dozens of presentations on both technical and management topics, to both national and international audiences. Before joining NIST, in 1994, he worked as a technical project leader within Loral

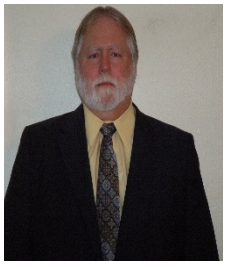
Space Systems semiconductor design group and worked for IBM on the development of hardware and software for Los Angeles-class submarines. In addition, he worked with several universities to develop their semiconductor design curricula.

Michael Tarquinio
Montgomery County Government
Department of Technology Services
Enterprise Architect

Michael Tarquinio has been the Montgomery County Government Department of Technology Services Enterprise Architect for 10 years. In addition to his duties as Enterprise Architect he was the Technical Manager for the team that implemented Office 365 for the County. Previous to the County Mr. Tarquinio held a variety of technical and team lead positions at GE, IBM, PB Farradyne, and Spirent. He has been an Adjunct Professor at the University of Maryland University College for the last 20 years in both the Computer and Information Science and Computer Science departments. He received a BS in Computer Science from the University of Maryland and a MS in Computer Science from Johns Hopkins University.

James Taylor
Ralph S. O'Connor Associate Professor of Biology and Computer Science

James Taylor is the Ralph S. O'Connor Associate Professor of Biology and associate professor of computer science at Johns Hopkins University. Until 2014, he was an associate professor in the departments of biology and mathematics and computer science at Emory University. He is one of the original developers of the Galaxy platform for data analysis, and his group continues to work on extending the Galaxy platform. His group also works on understanding genomic and epigenomic regulation of gene transcription through integrated analysis of functional genomic data. James received a PhD in computer science from Penn State University, where he was involved in several vertebrate genome projects and the ENCODE project.



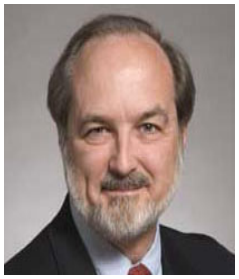
Don Topper

Don has over 30 years of experience in the Communications Industry. He held the position of Senior Reliability Engineering Manager at DSC Communications. Vice President of Quality, Reliability, Development Process Engineering as well as Technical Support and Installations at Alcatel / Alcatel-Lucent. He worked at Huawei as a Senior Principle Reliability Engineer In Central R&D and a Senior Principle in the Global CTO Office reporting to the Global CTO. He is now a consultant currently working with Huawei as a Principle NFV Resiliency Architect.

Principle NFV Resiliency Architect

Matt Tricomi
Chief Architect & President

Mr. Tricomi founded Xentity Corporation in 2001. Xentity is a Data-First Technology Consulting 8(a) Firm with the emphasis on putting the I back in IT and GIS. His focus balances technology advancement while not losing sight of the end value of the information and knowledge product. Mr. Tricomi has co-authored architecture methods adopted by OMB, participates in ACT-IAC, and OGC. With headquarters in Denver, clients tend to be from Federal and State "Earth Agencies" seeking consulting or support services in Open Data, geospatial data, remote sensing data, science platforms, big data, data visualization, crowdsourcing, cloud migration, enterprise metadata, and mission data lifecycle. Solutions have included NYC mobile BI, Nationalmap.gov 2.0, data.gov migration, geoplatform supporting, Geospatial and Agency-wide cloud migration, NSF EarthCube Architecture, and dozens more. Prior to founding Xentity in 2001, Matt architected large mission critical systems such as in energy (Southern Natural Gas), travel (United Airlines), financial, and education (Sallie Mae). Matt holds a B.S. in Computer Science with Distinction from Worcester Polytechnic Institute. Outside of his work, his wife and sons are his world.



Gregg Vanderheiden
Gregg Vanderheiden Professor of Industrial Engineering; Director of Trace Center at the Univ. of MD – College Park

Gregg Vanderheiden is a professor of Industrial and Biomedical Engineering, and director of Trace R&D Center at the University of Maryland – College Park and co-directs Raising the Floor, an international consortium of over 50 companies and organizations building the Global Public Inclusive Infrastructure (GPII). Has worked in technology and disability for over 45 years; was a pioneer in Augmentative Communication (a term taken from his writings in 1979) and computer access. Most of the initial access features for both Windows and MacOS came from his Center. His can be in a wide range of products including computers, phones, Automated Postal Stations, Amtrak ticket machines, and airport communication terminals. He co-chaired both WCAG 1.0 and 2.0 working groups, and has worked with over 50 companies and numerous government advisory & planning committees including FCC, NSF, NIH, GSA, NCD, Access Board and White House. (Dr. Vanderheiden will be joining the faculty of the iSchool at University of Maryland – College Park the fall.)

Robbert van Renesse is a Principal Research Scientist in the Department of Computer Science at Cornell University. He is interested in distributed

Robbert van Renesse
Principal Research Scientist, Cornell University

systems, particularly in their fault tolerance and scalability aspects, and has authored over 200 refereed papers. He is chair of ACM SIGOPS (Special Interest Group on Operating Systems) and associate editor for ACM Computing Surveys. He is an elected member on the Steering Committee of NSF PRObE (Parallel Reconfigurable Observational Environment). Van Renesse is a Fellow of the ACM.

Robert Vietmeyer
Associate Director, Cloud Computing

One of the 2016 Federal 100 awardees, Mr. Robert W. Vietmeyer is the government lead and strategic advisor to the Department of Defense (DoD) Chief Information Officer (CIO) on Enterprise Cloud Computing. Widely-recognized for his expertise across all aspects of cloud computing, he is responsible for guiding the Department's adoption of cloud computing and the modernization of its IT environment. Current focus areas include the adoption of commercial cloud services, cybersecurity, cloud contracting and achieving efficiencies through IT consolidation and cloud transition.

Mr. Vietmeyer has over 20 years of experience delivering mission critical systems for the Department. Formerly with the Defense Information Systems Agency, he held several technical leadership positions including Chief Engineer for the Net-Centric Enterprise Services (NCES) program and the Global Combat Support System (GCSS). In 2010, Mr. Vietmeyer was awarded the Federal CIO Council's Leadership Award and Federal Computer Week's Federal 100 Award for his work supporting agile development and creating the collaborative software development environment - Forge.mil.

Mr. Vietmeyer has a Master of Science in Information Systems from John Hopkins University and lives in Northern Virginia with his wife and three children.

Hakim Weatherspoon
Associate Professor, Department of Computer Science, Cornell University

Hakim Weatherspoon is an Associate Professor in the Department of Computer Science at Cornell University. His research interests cover various aspects of fault-tolerance, reliability, security, and performance of large Internet-scale systems such as cloud computing and distributed systems. Professor Weatherspoon is an Alfred P. Sloan Fellow. Also, he is the recipient of the NSF CAREER, DARPA Computer Science Study Panel, IBM Faculty Award, the NetApp Faculty Fellowship, and the Future Internet Architecture award from the National Science Foundation (NSF). He received his Ph.D. from the University of California, Berkeley, in the area of secure and fault-tolerant distributed wide-area storage systems (e.g. Antiquity, OceanStore, etc.) and received his B.S. in Computer Engineering from the University of Washington.