

MODERNIZATION SUMMIT

Wednesday, March 21, 2018
Hyatt Regency, Reston, VA



Speaker Bios

Dr. Richard Soley: Chairman and Chief Executive Officer of OMG, Executive Director of the Cloud Standards Customer Council, and Executive Director of the Industrial Internet Consortium, Dr. Soley also serves on numerous industrial, technical and academic conference program committees, and speaks all over the world on issues relevant to standards, the adoption of new technology and creating successful companies.

William Ulrich: President, TSG, Inc. & Co-Chair, ADM Task Force, Cofounder of the Business Architecture Guild, and Cutter Fellow. Mr. Ulrich serves as senior advisor, mentor, and workshop leader to corporations and government agencies, helping them address major transformational challenges. He is a thought leader in the field of business architecture and business/IT transformation. Mr. Ulrich is an originating contributor to “A Guide to the Business Architecture Body of Knowledge®” (BIZBOK® Guide) and coauthor of “Business Architecture: The Art and Practice of Business Transformation” and “Information Systems Transformation”. He is a Certified Business Architect® (CBA®) and active contributor to the international standards community

Philip Newcomb: Founder and CEO of The Software Revolution, Inc & Co-Chair ADM Task Force, and recipient of the 2011 IEEE Stevens Award for his leadership in applying artificial intelligence, formal methods and rule-based technologies to foster innovative products and services for reliable reengineering of mission-critical and high-assurance information systems. Mr. Newcomb's thought leadership spans 40 years in R&D and more than 175 large-scale modernization projects, most notably TopSky (for Thales Group/Air Traffic Management) which is installed as the primary flight operation software at 40% of airports worldwide. The 2011 deployment of TopSky (transformed from Ada to Java by TSRI) constituted a major breakthrough in the acceptance of reverse and reengineering technologies and automated transformation for large-scale safety-critical and highly-regulated software systems. Mr. Newcomb is Coauthor with William Ulrich of Information Systems Transformation: Architecture Driven Modernization Case Studies.

John A. Weiler: Co-Founder of the IT Acquisition Advisory Council, a public/private “do tank” dedicated to effecting the transformation of Federal IT Management, Acquisition and Governance. With four decades of senior IT experience in commercial and defense positions. Mr. Weiler has played a leading role in the transformation of Federal IT planning, governance and acquisition, supporting the White House, Congress, Department of Homeland Security, USAF and Secretary of Defense. Mr. Weiler helped congress draft key IT Reforms including FITARA, '10 NDAA Sec 804, and was a supporting author of the IT MGT Act for Chairman Will Hurd. Mr. Weiler is the co-author of the Agile Acquisition Maturity Model

(AAM), established Solution Architecture Innovation Lab (SAIL). He is a leading champion of Federal IT/Cyber Reforms as Managing Director and CIO at the Interoperability Clearinghouse, a DoD chartered non-profit research institute. Currently, Mr. Weiler is actively involved in over 24 leading industry groups and international standards activities including; IT Acquisition Advisory Council, Object Management Group, NDIA, AFCEA, BENS, TBM Council, Consortia for S/W Quality, TIAonline, to name a few. Mr. Weiler is a Senatorial Scholar, University of Maryland, Smith School of Business and holds degrees in Information System Management and Marketing.

Jason McC Smith, PhD: Software Archaeologist, Author, Member OMG Architecture Board, Founder of Elemental Reasoning, and former co-chair of the ADMTF, Dr. Smith has spent the last 20 years researching how practitioners comprehend and apply abstractions within their solutions, across a plethora of industries and domains. Co-author of the OMG's Structured Patterns Metamodel Standard (SPMS), he is fostering common ground for methodology and tooling to identify, detect, apply, and refactor patterns for best practice in software design, systems architecture, security, business processes, and business architecture. Author of *Elemental Design Patterns*, Addison-Wesley, 2012.

Dr. Marv Langston: Langston and Associates, LLC, Afternoon Keynote Speaker: In Marv's public career he served as the Department of Defense Deputy Chief Information Officer, the Deputy Assistant Secretary of Navy for C4I, was Navy's *first* Chief Information Officer, and Directed the Defense Advanced Research Projects Agency (DARPA) Information Systems Office. Following public service Marv was the Chief Operating Officer of a small high-tech start-up, Chief Technology Officer of a large defense business, and a Senior Staff Engineer at the Johns Hopkins University Applied Physics Laboratory where he helped establish today's AEGIS Ballistic Missile Defense capability.

Robert Martin: MITRE Bob Martin is a Senior Principal Engineer in Cyber Security Partnerships at MITRE, Chair of OMG's SACM Task Force and a member of the IIC Steering Committee. He has dedicated his career to solving some of the world's most difficult problems in systems and software engineering-including cybersecurity, application security and assurance, and establishing appropriate standards in these areas. He is actively contributing to or authoring 30 different standards within the ITU-T, ETSI, OMG, Open Group, and ISO on various aspects of cybersecurity and assurance. Bob's sponsor work spans across the seven Federal Funded Research and Development Centers that MITRE operates. Over the past 25 years Bob has utilized his expertise and experience in software quality and cybersecurity to help sponsors as well as to create and promote public international community initiatives such as SACM, SQA, CVE, CAPEC, and CWE, which include large active vendor and research communities.

Dr. Bill Curtis: SVP and Chief Scientist, CAST. Dr. Curtis is best known for leading the development of the Capability Maturity Model and the People CMM in the Software Engineering Institute at Carnegie Mellon University. He is also the Executive Director of the Consortium for IT Software Quality (CISQ), managed by OMG. CISQ has produced international standards for automating the measurement of size and structural quality from source code. In 2007 he was elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) for his contributions to software process improvement and measurement. He has published 4 books and over 150 articles.

Dr. Nikolai Mansourov, PhD, CISSP: Dr. Mansourov, KDM Analytics' Chief Technical Officer, is a cyber security consultant and innovator recognized worldwide for his work in the areas of automatic code generation and using formal specifications in both forward and reverse engineering. Prior to joining KDM Analytics, Dr. Mansourov was the Chief Scientist and Chief Architect at Klocwork Inc. Dr. Mansourov was a department head at the Institute for System Programming, Russian Academy of Sciences and Associate Professor at the Moscow State University. Currently he is an Adjunct Professor at the School of Information Technology and Engineering (SITE) of the University of Ottawa. Dr. Mansourov has published over 50 research papers, and co-authored a book "System Assurance: Beyond Detecting Vulnerabilities". His impact on the industry continues through his participation on several standards bodies, including the ISO, the ITU-T and Object Management Group. Dr. Mansourov is the Editor of the ISO Knowledge Discovery Metamodel (KDM) specification and the Chair of the OMG Revision Task Force for KDM.