

MODEL-BASED ENGINEERING, AUTOMATION AND IOT IN SMART MANUFACTURING

Wednesday, December 6, 2017
9:00 am – 5:30 pm
Burlingame, CA, USA

OMG SPECIAL EVENT



Claude Baudoin: is the owner and principal consultant for cébé IT and Knowledge Management, a strategy consulting firm based in Austin, Texas. Claude is a proven leader and visionary in Information Technology and Knowledge Management, with extensive experience working in a global environment. Capable of sorting out the important guidance from masses of information and research, and of aligning it with the goals of the enterprise, he delivers pragmatic recommendations. In addition to consulting in the Oil & Gas and government sectors, Claude is the energy domain advisor to the Object Management Group and the Industrial Internet Consortium

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.

Erich Clauer is heading up the Industry Standards and Open Source (Open Technology) team at SAP SE. He is active at the Plattform Industrie 4.0 in Germany, the Industrial Internet Consortium (IIC), OASIS and W3C. Before joining SAP he had various management positions at Deloitte Consulting, ARCOR, Mannesmann and IDS Scheer.

Calvin Smith: In his role as Director & Head of IoT Partner Engineering at Wipro Digital, Calvin Smith and his team combine Wipro IP and services with Partner products and offerings to create differentiable end to end solutions designed to maximize Customer ROI for specific use cases. Prior to this role, Calvin spent the better part of the last decade running IoT Strategy and Organic Innovation at Dell EMC.

Paul Didier: is an Industry Solutions Architect for manufacturing for Cisco. He is responsible for developing solutions for the manufacturing industry, including those for automation and control systems. Prior to joining Cisco, he was an associate partner with a focus on IT infrastructure at Accenture and an IT manager for SAP. He has extensive experience working for manufacturing, retail and financial services clients, developing and deploying large enterprise IT applications for a range of business functions on a global scale. Didier is a member of the Open Device Vendor Association's (ODVA) Technical Review Board and has more than 20 years of industry experience.

Kym Watson: received an Honours Degree in Sciences (1974) and a PhD in mathematics (1978) from the Flinders University of South Australia. He has been a scientist at Fraunhofer IOSB, Karlsruhe since 1982 and is currently deputy head of the department "Information Management and Production Control". His expertise includes modeling and performance evaluation of computer networks, information management systems with geospatial data based on sensor networks, as well as development of technology roadmaps for Industrial Internet of Things and automation systems. He leads the IIC Smart Factory Web Testbed project at Fraunhofer IOSB in which architectures for Industrial Internet of Things are investigated and tested

Allison Barnard Feeney: Allison Barnard Feeney is a supervisory mechanical engineer in the Systems Integration Division of the National Institute of Standards and Technology's Engineering Laboratory, overseeing the Systems Engineering Group. She is Program Manager for the Smart Manufacturing Operations Planning and Control Program, and co-leads its Digital Thread for Smart Manufacturing project. This program addresses national problems related to advanced manufacturing such as cybersecurity and wireless systems for industrial environments, integration of languages and models for lifecycle engineering, and monitoring, diagnostics, prognostics and control of smart manufacturing systems

Larry Johnson : has overall responsibility for the OMG's technology adoption process, and also chairs the Architecture Board, the group of distinguished technical contributors from OMG member organizations, which oversees the technical consistency of the OMG's specifications. Larry is always happy to answer questions about OMG's specifications or process.

Sanford Friedenthal: is an industry leader in model-based systems engineering (MBSE) and an independent consultant. Previously, at Lockheed Martin, he led the effort to enable Model-Based Systems Development (MBSD) and other advanced practices across the company. His experience includes the application of systems engineering throughout the system life-cycle from conceptual design, through development and production on a broad range of systems in aerospace and defense. Mr. Friedenthal has been a leader of the Industry Standards effort through the Object Management Group (OMG) and INCOSE to develop the Systems Modeling Language (OMG SysML™) that was adopted by the OMG in 2006, and is currently leading the effort to develop the requirements for the next generation of SysML (v2). He is co-author of A Practical Guide to SysML.

Gerardo Pardo-Castellote: is Chief Technology Officer of Real-Time Innovations, specializes on middleware for distributed secure real-time systems and the Industrial Internet of Things. He is co-author of various DDS standards, including the core DDS, Interoperability (RTPS), and DDS Security. Dr. Pardo-Castellote is co-chair of the DDS SIG at the OMG.

Graham Bleakley: originally worked at Ford Motor Co. in the area of production manufacture and testing. He left there to do a degree in Mechanical Engineering that lead to a Ph.D in Model Based Systems Engineering as applied to safety critical robotic systems. He has been working in the application of MBSE to the safety critical domain for the past 20 years within the A&D and Automotive sectors. He currently works for IBM Watson IoT, where he helps develop integrated industry solutions based upon IBM products. Graham is a co-chair of the OMG UPDM/UAF group and lead architect for UPDM 2/UAF 1.0. He is also an IBM representative to the IIC working with the IIRA. He is now looking at ways of applying his experience of working with Architecture Frameworks to the development of the IOT, manufacturing and to cognitive projects around MBSE.

Matthew Hause: Co-chair of the UPDM group, a member of the OMG Architecture Board, and a member of the OMG SysML specification team. Matthew has been developing multi-national complex systems for over 35 years. He started out working in the power systems industry and has been involved in military command and control systems, process control, communications, SCADA, distributed control, office automation and many other areas of technical and real-time systems. His role at PTC includes mentoring, sales presentations, standards development, presentations at conferences, specification of the UPDM profile and developing and presenting training courses. He has written over 100 technical papers on architectural modeling, project management, systems engineering, model-based engineering, human factors, safety critical systems development, virtual team management, product line engineering, systems of systems, systems and software development with UML, SysML and Architectural Frameworks such as DoDAF and MODAF. He has been a regular presenter at INCOSE, the IEEE, BCS, the IET, the OMG, AIAA, DoD Enterprise Architecture, Embedded Systems Conference and many other conferences.

Uwe Kaufmann: works as an independent consultant for interoperability and enterprise integration in the area of PLM, software-, and systems-engineering. Since 2003 Uwe co-chairs OMG's Manufacturing Technology and Industrial Systems DTF and co-chairs the INCOSE/GfSE PLM4MBSE WG. Before starting a business as an independent consultant, he worked as a senior researcher for Fraunhofer IPK. Uwe received a diploma in Mathematics from Humboldt University.

Alain Pfouga: is General Manager of prostep ivp, an international association headquartered in Darmstadt, Germany. Prostep ivp is committed to developing innovative approaches to solving problems and modern standards for product data management and virtual product creation. It bundles the interests of manufacturers and suppliers in manufacturing industry as well as IT vendors, in close cooperation with research and science institutes, to provide its members with the long-term competitive advantages that more efficient processes, methods and systems provide.

Sven-Olaf Schulze: Systems Engineering at Unity AG, President of GfSE (German chapter of INCOSE)
Sven-Olaf Schulze holds a diploma in Aerospace and Space with a focus on aircraft structure and light weight design. He has been working in the space/aerospace industry since 1996 with project responsibilities in Ariane 4, Ariane 5, ISS, MIR, Airbus A380 and A400M and 2 years systems engineering consulting in different industries. His field of operation covers quality and product assurance, material qualification and systems engineering. Furthermore, he was the vice president of the German Chapter of INCOSE since 2003 and a nominated ambassador for INCOSE. He has been the president of the German Chapter of INCOSE since 2008. In 2010 he joined the wind industry at Suzlon Energy GmbH as the Vice President Systems Engineering. Since 2012 he is working as a senior expert at UNITY AG a management consulting company for future-oriented corporate management with the aim to drive the clients' innovative strength and operational excellence.