

4th AutomationML User Conference

Road to *Industrie 4.0*:

AutomationML as Digital Enabler

Topics of the Conference



- Success Stories: Application of AutomationML
 - From Industry
 - From Research
- Visions:
 - Leaving Engineering Phase
 - Leaving Discrete Manufacturing Domain
- Guidelines: Implementation of Workflows
 - On the Edge of Two Engineering Phases
 - Supporting the Entire Engineering Process of Production Systems
- Panel Discussion:
Road to *Industrie 4.0*: AutomationML as Digital Enabler

Listen to Speakers from Various Companies and Institutions



Daimler AG • EPLAN Software & Service GmbH & Co. KG • evosoft GmbH • Festo AG & Co. KG • fortiss GmbH • Fraunhofer IOSB • German Research Center for Artificial Intelligence • Helmut-Schmidt-University • inpro mbH • KIT • Otto-von-Guericke-University Magdeburg • SAP SE • SBA Research gGmbH • Siemens AG • tarakos GmbH • TU Vienna

Date, Location, and Host



**From October 18th to
October 19th, 2016**

in Esslingen, Germany
at Festo AG & Co. KG

Host: Arndt Lüder, *Otto-von-Guericke-University Magdeburg*

Tuesday – October 18th, 2016

08.00 to 09.00 **Registration**

09.00 to 09.15 **WELCOME**

09.15 to 10.00 **KEYNOTE**
When AutomationML meets OPC UA and Service Oriented Architectures on the Shop Floor – a Team with Huge Potential
Rüdiger Fritz, *SAP SE – Member OPC UA TAC*

10.00 to 10.30 **INTRODUCTION**
AutomationML within Industrial Applications
Arndt Lüder, *Otto-von-Guericke-University Magdeburg*

Coffee Break

Session 1: Latest Developments in Research

11.00 to 11.30 **Model-Based Engineering from Components to Production Plants using AutomationML**
Benjamin Brandenbourger, *fortiss GmbH*
Mathias Wiegand, *Festo AG & Co. KG*

11.30 to 12.00 **A Model-driven Approach for Software Engineering of Industrial Robotics**
Yingbing Hua, *Karlsruhe Institute of Technology*

12.00 to 12.30 **Continuous Data Exchange Between Layout Planning and Simulation Tools**
Ender Yemenicioglu, *tarakos GmbH*

12.30 to 13.00 **The Use of AutomationML in the Engineering of Building Automation Systems**
André Scholz, *Helmut-Schmidt-University*
Christoph Sieber, *Helmut-Schmidt-University*

Lunch Break

Session 2: AutomationML Beyond the Bilateral Data Exchange

- 14.00 to 14.30 **Integration of MathML in PLCopen XML**
Carla Pilz, *inpro Innovationgesellschaft mbH*
- 14.30 to 15.00 **Integrated Digitalization with Teamcenter and AutomationML**
Florian Himmler, *evosoft GmbH*
- 15.00 to 15.30 **Engineering Model Exchange in in Multi-Disciplinary Engineering with AML.hub**
Stefan Biffel, *TU Vienna*
Richard Mordinyi, *TU Vienna*
Manuel Wimmer, *TU Vienna*
- 15.30 to 16.00 **Consistent Merging of AutomationML Documents in Multiple Sources Scenarios**
Josef Prinz, *inpro Innovationsgesellschaft mbH*

Coffee Break

Session 3: AutomationML in Tool Chains I

- 16.30 to 17.00 **Automation Project Configuration: Exchange of ECAD Data Between EPLAN P8 and Siemens TIA Portal**
Thomas Funke, *EPLAN Software & Service GmbH & Co. KG*
Michael John, *Siemens AG*
- 17.00 to 18.00 **Panel Discussion:
Road to *Industrie 4.0*: AutomationML as Digital Enabler**
Oliver Riedel, *ProSTEP iViP e.V.*
Gerd Eßer, *inpro mbH*
Gerald Mayr, *Outotec GmbH & Co. KG*
Matthias Prinzen, *Festo AG & Co. KG*
Host: Fabian Wanke, *ARC Advisory Group*

DINNER

- 19.00 **Bus Transfer from “Neo Hotel Linde” and “Berkheimer Hof” to “Restaurant Alte Wache”**
Claude-Dornier-Straße 4, 73760 Ostfildern
www.alte-wache-ostfildern.de
- 22.30 **Bus Transfer back to the Hotels**

Wednesday – October 19th, 2016

Session 4: AutomationML in Tool Chains II

- 09:00 to 09:30 **Practical Application of AutomationML in Engineering Toolchains**
Joachim Burlein, *Daimler AG*
Manuel Paul, *Festo AG & Co. KG*
Dr. Anton Strahilov, *EKS – InTec GmbH*
- 09:30 to 10:00 **Improving the Transition and Modularity of Virtual Commissioning Workflow with AutomationML**
Ender Yemenicioglu, *tarakos GmbH*
- 10:00 to 10:30 **Collaborative Model Review Support for AutomationML**
Dietmar Winkler, *SBA Research gGmbH, TU Vienna*
Stefan Biffel, *TU Vienna*

Coffee Break

Session 5: Beyond Engineering?

- 11:00 to 11:30 **AutomationML and OPC UA – Enabling Technologies for PLUGandWORK in a Smart Production**
Miriam Schleipen, *Fraunhofer IOSB*
- 11:30 to 12:00 **Creating a Smart Factory Web based upon AutomationML**
Kym Watson, *Fraunhofer IOSB*
- 12:00 to 12:30 **Open Semantic Meta-Model as a Cornerstone for the Design, Engineering and Management of CPS-Based Factories**
Stephan Weyer, *German Research Center for Artificial Intelligence*
- 12:30 to 13:00 **FINAL TALK**
Using AutomationML in the Engineering Process: Start Implementing or Keep Waiting?
Björn Grimm, *Daimler AG*
- 13:00 **GOODBYE**

Lunch Break

- 14:00 to 16:00 **PLANT TOUR**
Bus Transfer to/from “Technologiefabrik Scharnhausen”
Plieninger Str. 50, 73760 Ostfildern/Scharnhausen
Note: Arriving by own car is not recommended due to limited parking spaces.