

## CAE Forum: Trends of the future factory

### Program Monday – April 1, 2019

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| <b>12:30 – 13:00</b> | <b>Welcome "The CAE Forum in the Digital Factory"</b><br>Dirk Pieper, Senior Partner, corsus   |
| <b>13:00 – 13:20</b> | <b>Introducing Nvidia Turing – World's first Ray-Tracing GPU</b><br>Manfred Pieper, Field Marketing Manager Central Europe, PNY Technologies Quadro GmbH   |
| <b>13:20 – 14:00</b> | <b>Aspects of digitalization in materials research</b><br>Material modeling – process simulation – machine learning<br>Prof. Dr.-Ing. Benjamin Klusemann, Abt.leiter, Helmholtz-Zentrum Geesthacht /Leuphana |
| <b>14:00 – 14:20</b> | <b>Minimize weight – maximize functionality</b><br>How FEM based optimization and 3D Printing help to reinvent your current design<br>Dr. Marco Götsche, Geschäftsführer, S.M.I.L.E.-FEM GmbH                |
| <b>14:20 – 14:40</b> | <b>3D printing basics</b><br>Dennis Großmann, Additive Manufacturing Consultant, Print-Concept   |
| <b>14:40 – 15:00</b> | <b>ADAS systems analysis: a way to assess the function's performance</b><br>Alexandre Mugnai, ESTECO SpA   |
| <b>15:00 – 15:20</b> | <b>Simulating complex assemblies without geometry simplification</b><br>fast, accurate and robust structural simulation in SimSolid<br>Dr. Frank Cord Lohmann, Project Manager, Altair Engineering GmbH      |
| <b>16:00 – 16:45</b> | <b>Everything made of cardboard - Sustainable. Digital. Future-oriented</b><br>Dirk Pieper, Senior Partner, corsus   |



## CAE Forum: Trends of the future factory

### Program Tuesday – April 2, 2019

- 12:00 – 12:20**                      **Welcome "The CAE Forum in the Digital Factory"**  
Dirk Pieper, Senior Partner, corsus
- 12:20 – 12:40**                      **Introducing Nvidia Turing – World's first Ray-Tracing GPU**  
Manfred Pieper, Field Marketing Manager Central Europe, PNY Technologies Quadro GmbH
- 12:40 – 13:00**                      **CAE Process Automation and Optimization**  
Alexandre Mugnai, ESTECO SpA
- 13:00 – 13:20**                      **Increase competitiveness with electromagnetic simulation**  
Dr. Matthias Tröscher, Business Development Executive, Dassault Systemes Deutschland GmbH
- 13:20 – 13:40**                      **Cloud-based design, simulation and optimization of electrical drives**  
Andreas Ocklenburg, Geschäftsführer, cloudSME
- 13:40 – 14:00**                      **3D printing basics**  
Dennis Großmann, Additive Manufacturing Consultant, Print-Concept
- 14:20 – 14:40**                      **Good Practice Examples – Resource Efficiency in Industry**  
Martina Prox, Sustainability and Software Expert, ifu Institut für Umweltinformatik Hamburg GmbH
- 14:40 – 15: 00**                      **Digitalization as a Catalyst for Increasing Resource Efficiency**  
Martina Prox, Sustainability and Software Expert, ifu Institut für Umweltinformatik Hamburg GmbH



## CAE Forum: Trends of the future factory

### Program Wednesday – April 3, 2019

- 10:30 – 11:00**                      **Welcome "The CAE Forum in the Digital Factory"**  
Dirk Pieper, Senior Partner, corsus
- 11:00 – 11:20**                      **Digitalization as a Catalyst for Increasing Resource Efficiency**  
Martina Prox, Sustainability and Software Expert, ifu Institut für  
Umweltinformatik Hamburg GmbH
- 11:20 – 11:40**                      **Good Practice Examples – Resource Efficiency in Industry**  
Martina Prox, Sustainability and Software Expert, ifu Institut für  
Umweltinformatik Hamburg GmbH
- 11:40 – 12:00**                      **ADAS systems analysis: a way to assess the function's performance**  
Alexandre Mugnai, ESTECO SpA
- 12:00 – 12:20**                      **Introducing Nvidia Turing – World's first Ray-Tracing GPU**  
Manfred Pieper, Field Marketing Manager Central Europe, PNY  
Technologies Quadro GmbH
- 12:20 – 12:40**                      **Virtual Reality and Augmented Reality 2019**  
**Where are we going??**  
Prof. Dr.-Ing. Dipl.-Kfm. Christoph Runde, Geschäftsführer, Virtual  
Dimension Center (VDC)
- 13:00 – 13:40**                      **Additive Manufacturing – Strategies for Today and the Future**  
Prof. Dr.-Ing. Franz-Josef Villmer, Professor, Hochschule  
Ostwestfalen-Lippe
- 14:00 – 15:00**                      **Scaling into high-volume 3D Printing Production using HP Metal Jet**  
Uday Yadati, HP
- 15:30 – 15:50**                      **Mechanical computation of fiber-reinforced plastics**  
MSc Simon Gekeler, Berechnungsingenieur, CAE Innovative  
Engineering GmbH



## CAE Forum: Trends of the future factory

### Program Thursday – April 4, 2019

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| 12:00 – 12:20 | <b>Welcome "The CAE Forum in the Digital Factory"</b><br>Dirk Pieper, Senior Partner, corsus  |
| 12:20 – 12:40 | <b>Simulation potentials within Additive Manufacturing</b><br>Volker Mensing, simufact  |
| 12:40 – 13:00 | <b>CAE Process Automation and Optimization</b><br>Alexandre Mugnai, ESTECO SpA  |
| 13:00 – 13:20 | <b>Engineer Innovation with Simcenter and Simulation Management</b><br>Torsten Runge, Technischer Vertrieb Simcenter und Teamcenter Simulation Process Management, Siemens Industry Software GmbH |
| 13:20 – 13:40 | <b>Introducing Nvidia Turing – World's first Ray-Tracing GPU</b><br>Manfred Pieper, Field Marketing Manager Central Europe, PNY Technologies Quadro GmbH  |
| 13:40 – 14:00 | <b>Cloud-based design, simulation and optimization of electrical drives</b><br>Andreas Ocklenburg, Geschäftsführer, cloudSME  |
| 14:00 – 14:20 | <b>Digital Twins: Not Just Hype?</b><br>Dr. Philip Oberdorfer, Manager Technical Marketing, Comsol Multiphysics GmbH  |
| 14:20 – 14:40 | <b>Minimization of the digital shadow in plant construction with the help of Smart Objects.</b><br>Dipl.-Ing. Timur Ripke, Geschäftsführer & Co-Founder, COMAN Software GmbH                      |
| 17:00 – 21:00 | <b>8th International Simulation Stammtisch</b><br>Dirk Pieper, Senior Partner, corsus   |



## CAE Forum: Trends of the future factory

### Program Friday – April 5, 2019

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|---------------|---|
| 11:00 – 11:20 | <b>Welcome "The CAE Forum in the Digital Factory"</b><br>Dirk Pieper, Senior Partner, corsus  |
| 11:20 – 11:40 | <b>Introducing Nvidia Turing – World's first Ray-Tracing GPU</b><br>Manfred Pieper, Field Marketing Manager Central Europe, PNY<br>Technologies Quadro GmbH |
| 11:40 – 12:00 | <b>ADAS Systems analysis: a way to assess the function's performance</b><br>Alexandre Mugnai, ESTECO SpA  |

