PROCESS DEVELOPMENT SYMPOSIUM EUROPE

September 25-26, 2019
DECHEMA-Haus
Frankfurt am Main, Germany
www.aiche.org/pdseurope

Tuesday, September 24, 2019	
11:00 17:00	Guided Tour to Industrial Park Hoechst
17:30 19:30	Registration Opens

Wednesday, September 25, 2019	
7:15 8:00	Registration (Open all day)
8:00 8:15	**Chairmen's Introduction** Piet Huizenga, Shell
8:15 9:00	**The Circular Economy Transition: Opportunities and Challenges for Scale-Up and Role Out of New Technology** Marco Waas, Nouryon
9:00 10:30	**Process Optimization** Chair: Armin Fricke, Chemstations Europe
9:00 9:30	**Machine Learning Meets Process Simulator: Greybox and Surrogate Modeling to Support Process Optimization** Norbert Asprion, BASF
9:30 10:00	**Multi-Criteria Optimization in Process Design Supported by Machine Learning Methods** Michael Bortz, Fraunhofer Institute for Industrial Mathematics
10:00 10:30	**Bringing Data Analytics and ML to the Shop Floor for Better Process Performance** Mathieu Cura, Optimistik
10:30 11:00	Coffee Break
11:00 12:30	**Process Optimization Continued** Chair: Armin Fricke, Chemstations Europe
11:00 11:30	**Process Design and Optimization for the Hydroformylation of Long-chain Alkenes** Kevin McBride, Max Planck Institute for Dynamics of Complex Technical Systems
11:30 12:00	**Agrochemical Process Research: Searching For The Holistic Solution** Dirk Brohm, Bayer
12:00 12:30	**Analysis and Optimization of Complex Flowsheet Simulations with Parallel Computing and Machine Learning** Jan Schöneberger and Armin Fricke, Chemstations Europe
12:30 13:30	Lunch
13:30 15:00	**Modeling & Data Analytics in Process Optimization** Chair: Thomas Froese, atlan-tec Systems GmbH
13:30 14:00	**The Role of White Box Modelling for Process Optimization** Norbert Jung, AVEVA
14:00 14:30	**Optimization of Batch and Continuous Processes with Grey Box Modelling** Heiko Kulinna, BASF
14:30 15:00	**Black Box Modelling – The Fastest Way to Optimize Processes** Andreas Krüger, atlan-tec Systems
15:00 15:30	Coffee Break
15:30 17:00	**Risk Mitigation in Process Development** Chair: Piet Huizenga, Shell
15:30 16:00	**Risk-based Steering of New Process Technology Development** Piet Huizenga, Shell
16:00 16:30	**Use of a Mixed Solvent Thermodynamic Framework to Predict the Formation of Amine-Hydrochloride Salts in Crude Tower Overhead Systems** AJ Gerbino, OLI Systems
16:30 17:00	**Shell's Gas to Liquids Technology – Learnings till Date and Next Steps** Speaker Pending, Shell
17:00 18:30	**Reception**

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Thursday, September 26, 2019	
7:15 8:00	Registration (Open half day)
8:00 8:15	**Chairmen's Summary of Previous Day's Discussions** Armin Fricke, Chemstations Europe
8:15 9:00	**How Digitalization Can Enable a Circular Economy** Wolfgang Falter, Deloitte
9:00 10:30	**Creating a Baseline for Lifelong Learning in Engineering Education** Chair: Anna Wolna, Chemstations Europe
9:00 9:30	**Integrating Global Simulation Competition into Senior Design** Jeffrey Halpern, University of New Hampshire
9:30 10:00	**Playful Exploration and Intuitive Understanding of Chemical Processes by Using Process Simulation** Juergen Rarey, University of Oldenburg
10:00 10:30	**Closing the Gap between Process Engineering and Safety with a Safety-Focused Master's Degree** Kristin Hecht, Otto-von-Guericke University Magdeburg
11:00 12:30	**Process Intensification** Chair: Bastian Arendt, The Dow Chemical Company
11:00 11:30	**Membrane Assisted Distillation** Luigi Leva, DeltaMem
11:30 12:00	**Reactive Dividing Wall Columns** Torben Egger, Evonik
12:00 12:30	**How Modern Digital Design Approaches Can Help Realise the Potential of Process Intensification** Speaker Pending, Process Systems Enterprises
12:30 13:30	Lunch
13:30 15:00	**Case Studies & Lessons Learned** Chair: Armin Fricke, Chemstations Europe
13:30 14:00	**Abstract Title Coming Soon** Jonas Probst, Merantix
14:00 14:30	**Using Power-to-Ammonia to Transform Fluctuating Wind Power into Base-Load** Marc Hölling, Hamburg University of Applied Sciences
14:30 15:00	**The E-refinery** Alexander van der Made, Shell
15:00 15:30	Coffee Break
15:30 16:30	**Digitization** Chair: Wolfgang Falter, Deloitte
15:30 16:00	**How to Maximize Profit per Hour in Process Industries** Thomas Froese, atlan-tec Systems GmbH
16:00 16:30	**Digital Transformation in the Process Industry – Opportunities and Challenges** Uwe Hinsen, BASF
16:30 16:45	**Closing Remarks** Piet Huizenga, Shell