

Tuesday, September 24, 2019	
11:00 17:00	Guided Tour to Industrial Park Hoechst
16:30 17:00	Registration Open
Wednesday, September 25, 2019	
7:30 13:30	Registration Open* - 7:30-8:15 10:30-11:00 12:30 - 13:30
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 Asprien, 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 Process Engineering in the Digital Transformation 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 GmbH
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 (GTL) Technology and Opportunities in Energy Transition Svetlana van Bavel, Shell
17:00 18:30	Reception

*Availability not guaranteed outside posted hours

Thursday, September 26, 2019

7:30 11:00	Registration Open* - 7:30 - 8:15 10:30 - 11:00
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 Jürgen 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
10:30 11:00	Coffee Break
11:00 12:30	Process Intensification Chair: Sven Claessens, Dow Co-Chair: Bastian Arendt, Dow
11:00 11:30	Membrane Assisted Distillation Luigi Leva, DeltaMem
11:30 12:00	Modeling and Operation of Enzymatic Catalyzed Reactive Wall Columns Torben Egger, Evonik
12:00 12:30	How Modern Digital Design Approaches Can Help Realise the Potential of Process Intensification Mark Matzopoulos, 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	Machine Learning Meets Production Nicole Büttner, 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	Status of and Perspectives for Power to Products 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 Hinsén, BASF
16:30 16:45	Closing Remarks Piet Huizenga, Shell

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