

Final Symposium | ONLINE sessions

Agenda

Thursday, 2 April 2020

13:00	Opening and welcome Christine Maul, Covestro Deutschland AG - Sebastian Engell, TU Dortmund
13:10	Overview of the CoPro Project Sebastian Engell, TU Dortmund
13:25	Presentation of sister projects COCOP, FUDIPO, MONSOON, MORSE
14:05	Introduction to the poster sessions CoPro Sebastian Engell, TU Dortmund
14:15	Posters and demonstrations I - 6 parallel sessions
15:00	Posters and demonstrations II - 6 parallel sessions
15:45	Posters and demonstrations III - 6 parallel sessions
16:25	Wrap up and programme of day 2 Sebastian Engell, TU Dortmund

All poster sessions will be available in all time slots.

Parallel poster and demonstration sessions

Session 1: Operator support	Session 2: Site-wide optimisation
<ul style="list-style-type: none"> • Operator support for improving energy and material efficiency • Anomaly detection in polyethylene production • Optimisation of the production and procurement of technical gases • Optimum operation of evaporator networks in viscose fiber production 	<ul style="list-style-type: none"> • Large-scale optimisation of production and logistics in chemical plants • Modelling concept and model library for large-scale optimisation in chemical plants • Power plant scheduling under uncertainty • Cross company site-wide optimization without sharing of sensitive data
Session 3: Planning and scheduling	Session 4: Thermal processes
<ul style="list-style-type: none"> • Planning and scheduling of consumer goods production • Planning and scheduling of make and pack processes • Large-scale production scheduling in the food industry • Day-ahead impacts of European electricity consumption 	<ul style="list-style-type: none"> • Optimal operation of sterilisation processes in food production • Thermal models for process optimisation in the canning industry • Optimisation of the operation of heat exchangers
Session 5: Integration and model management	Session 6: Hybrid modelling
<ul style="list-style-type: none"> • Intexc Integration Suite • Model Management Platform 	<ul style="list-style-type: none"> • Surrogate modelling tool and workflow in gPROMS • Data-driven and hybrid modelling tool • Estimation of grey-box models with constraints

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Theme: Digitalisation for Sustainability

Facilitator: Dr. Stefan Krämer, Bayer AG

09:30	Opening and welcome Prof. Dr. Sebastian Engell, TU Dortmund
09:35	Address by MinDirig. Karl-Uwe Bütof Ministry of Economy, Innovation, Digitalisation and Energy Federal State of North-Rhine Westphalia, Germany
09:45	Presentation by Dr. Klaus Schäfer Chief Technology Officer of Covestro AG
10:00	From digitalisation to optimisation: Overview of the results of CoPro Prof. Dr. Sebastian Engell, Coordinator of CoPro, TU Dortmund
10:15	IT Integration: The Challenge and the CoPro solution Dr. Udo Enste, CEO, LeiKon, Herzogenrath
10:30	Human factors in digitalisation Jane Arnold, Head of Global Process Control Technology, Covestro AG
10:45	Break
11:00	Green Deal and Industrial Strategy – what does it mean for the process industry? Jürgen Tiedje, Head of Unit Sustainable Industry Systems, Directorate-General for Research and Innovation, EU Commission
11:15	The SPIRE roadmap Angels Orduna, Director of A.SPIRE
11:30	Digitalisation in the SPIRE roadmap Dr. Martin Winter, CEFIC
11:45	Panel discussion: Digitalisation and optimisation for sustainability Facilitator: Dr. Stefan Krämer Panel: Karl-Uwe Bütof, Prof. Dr. Sebastian Engell, Dr. Klaus Schäfer, Jürgen Tiedje, Dr. Martin Winter