Turku/Åbo, Seminar room of Brewery Restaurant 'Koulu'

Eerikinkatu/Eriksgatan 18 (Street of HRH King Erik of Sweden and Finland)

All time indications are given in Helsinki time, EET.

Monday 26/01/2026

8:30	Registration
9:00	Opening of the event
9:30	**Chemical reactor modeling with MATLAB** *Riccardo Tesser, University of Naples Federico II, Italy*
11:00	Coffee Break
11:30	**Case Study 1: Machine learning for biogas modelling** *Pragya Singh, Indian Institute of Technology Ropar, India*
12:30	Lunch Break
13:30	**Case Study 2: Methanol production** *Stefan Frölich and Albrecht Irrgang, Dresden University of Applied Science, Germany*
15:00	Coffee Break
15:30	**Case Study 3: Sugar alcohol production** *German Araujo Barahona, Åbo Akademi University, Finland*
17:00	Closing

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Tuesday 27/01/2026

9:00	**Digitalization in chemical engineering education: the use of virtual laboratories and generative AI in teaching and assessment** *Tuomo Sainio, LUT University, Finland*
11:00	Coffee Break
11:30	**Audience response systems for in-person and online teaching** *Sara Marchini, Dresden University of Technology, Germany*
12:15	Lunch Break
13:15	**Conductive Microstructured Catalysts for the Intensification of (century-old) energy-related chemical processes: Debottlenecking heat transfer and paving the way for electrification** *Enrico Tronconi, Politecnico di Milano, Italy*
15:00	Coffee Break
15:30	**Reflections on the boundaries of admissible AI-use by students** *Asad H. Sahir, Indian Institute of Technology Ropar, India*
16:00	**Division Research and Innovation Management at Dechema** *Steve Rommel, Dechema, Germany*
16:30	Closing

19:30 SOCIAL DINNER
Restaurant Gunnar at Hotel *Seurahuone*
Humalistonkatu/Humlegårdsgatan/Street of Hops Farm 2

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Wednesday 28/01/2026

9:00   **Teaching AI based CFD for Chemical Engineering applications**
Ashutosh Yadav, Indian Institute of Technology Jammu, India

9:30   **Case Study 4: Waste-water treatment**
Vincenzo Russo, University of Naples Federico II, Italy

11:00   Coffee Break

11:30   **Supervision of group work in-person and digitally**
Matthias Heinz, Center for Interdisciplinary Learning and Teaching, TU Dresden, Germany

12:30   Lunch Break

13:30   **Teaching creativity and innovation in chemical technology**
Dmitry Murzin, Åbo Akademi, Finland

15:00   **Visit to Åbo Akademi**
Laboratory of Industrial Chemistry and
Reaction Engineering (TKR), Aurum building, 4th floor, Henriksgatan 2

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Thursday 29/01/2026

9:00	**Case Study 5: Fischer-Tropsch synthesis** *Stefan Haase, Dresden University of Applied Science, Germany*
10:15	Coffee Break
10:45	**No multiple choice in chemical engineering** *Marcel Liauw, RWTH Aachen University, Germany*
11:30	**Quality assessment strategies in active learning courses in higher education** *Natasa Brouwer, University of Amsterdam, The Netherlands*
12:30	Lunch Break
13:30	**From tool to teaching partner: Integrating generative AI into engineering education** *Verena Wolf-Zöllner, Montanuniversität Loeben, Austria*
14:30	**Case Study 6: Epoxidation of vegetable oils (Part 1)** *Rosa Turco, University of Naples Federico II, Italy*
15:30	Coffee Break
16:00	**Case Study 6: Epoxidation of vegetable oils (Part 2)** *Pasi Tolvanen, Åbo Akademi, Finland*
17:00	Closing

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Friday 30/01/2026

9:00	**Case-study 7: Overcoming thermodynamic limitations via process intensification** *Martino Di Serio, University of Naples Federico II, Italy*
10:30	Coffee Break
11:00	**Case study 8: Carbon capture** *Dresden University of Technology, Germany*
12:00	Closing Ceremony
12:30	Lunch