



# CAPE Forum

CAPE and lab-scale/industrial experiments  
Bucharest, Romania | 15-17 November 2018



## PROGRAM – 15 November 2018

**Venue:** University Central Library - Conference Center (313 Splaiul Independentei, RO-060042, Bucharest)

- 12.00 -12:30 Opening ceremony (participation of the Rector of University POLITEHNICA of Bucharest)
- 12.30-14.00 **Lectures session 1**
- 12.30-13.10 Prof. Anton A. KISS – The University of Manchester  
*Process Systems Engineering from an industrial and academic perspective*
- 13.10-13.30 José LOYOLA-FUENTES (PhD student) - The University of Manchester  
*Fouling Modelling and Data Reconciliation in Crude Oil Preheating systems*
- 13.30-14.00 Prof. Vasile LAVRIC – University POLITEHNICA of Bucharest  
*Modeling the dynamics of S-L interactions with a microwave field - a COMSOL approach*
- 14.00-15.00 BUFFET LUNCH – on site
- 15.00-17.00 **Lectures session 2**
- 15.00-15.20 Rahma MUTHIA (PhD student) - The University of Manchester  
*Preliminary economic assessment of reactive distillation using a mapping method*
- 15.20-15.40 Dinesh KRISHNAMOORTHY (PhD student) - Norwegian University of Science and Technology  
*Online Process Optimization using Transient Measurements*
- 15.40-16.00 Julia Nataly JIMENEZ ROMERO PhD student - The University of Manchester  
*Novel Methodology for Cogeneration Targeting with Optimum Steam Level Placement*
- 16.00-16.30 Prof. Flavio MANENTI – Politecnico di Milano  
*Practical CO<sub>2</sub> reuse: new sustainable technologies*
- 16.30-17.00 Prof. Simone COLOMBO - Politecnico di Milano  
*Risk Engineering and the HoRAM Method: A paradigm Shift*
- 17.00- 17.20 Coffee Break
- 17.20-18.15 **Lectures session 3**
- 17.20-17.40 Alessandro Di PRETORO (PhD student) - University of Toulouse, ENSIACET  
*Flexibility analysis and economic assessment of distillation column trains*
- 17.40-18.00 Fernando ALMEIDA-TRASVINA (PhD student) - The University of Manchester  
*Design and optimisation of novel cascade refrigeration cycles for LNG production*
- 18.00-18.15 Closing remarks
- 19.30-22:30 Get together social event: Dinner in a nice restaurant (*location to be announced*)

## PROGRAM – 16 November 2018

**Venue:** UPB laboratories - Building L, Amphitheatre L.022 (1-7 Polizu Street, RO-011061, Bucharest)

- 9.30-11.00 Laboratory opening ceremony - visiting the *Laboratory for Engineering of Oil Processing*
- 11.00-13.00 **Poster session**
- 13.00-13.50 **Lectures session 4**
- 13.00-13.30 Prof. Vasile-Mircea CRISTEA – University Babes-Bolyai Cluj-Napoca  
*Use of Modelling for Control Applications of the Waste Water Treatment Plants*
- 13.30-13.50 Andre Furtado AMAREL (PhD student) – Politecnico di Milano  
*Sustainable Bio-methanol from Biomass Gasification*
- 13.50-15.50 LUNCH
- 15.30-17.30 **Lectures session 5**
- 15.30-15.50 Daniele PREVITALI (PhD student) – Politecnico di Milano  
*Biogas-to-methanol: a distributed biorefinery concept*
- 15.50-16.10 Ecem Muge ANDOGLU (PhD student) - Bilecik University Turkey  
*Simplified Kinetic Model Approach for Claus Thermal Furnace*
- 16.10-16.30 Cătălina Elena UDREA (PhD student) – University POLITEHNICA of Bucharest  
*Application of pressure swing distillation to TAME process: Design, optimization & control*
- 16.30-17.00 Adriaen VERHEYLEWEGHEN (PhD student) – Norwegian University of Science and Technology  
*Production optimization subject to equipment degradation*
- 16.50-17.10 Iulian PATRAȘCU (PhD student) – University POLITEHNICA of Bucharest  
*Design and control of heat pump assisted A-DWC for enhanced biobutanol separation*
- 17.10-17.30 Christian LANGNER (PhD student) - Chalmers University of Technology  
*Combined flexibility and energy analysis of retrofit actions for heat exchanger networks*
- 17.30-17.45 Closing remarks about CAPE FORUM 2018 contributions

## PROGRAM – 17 November 2018

**Venue:** University POLITEHNICA of Bucharest - Laboratories (1-7 Polizu Street, RO-011061, Bucharest)

- 10.00-14.00 Demo sessions
- 14.00-15.30 LUNCH
- 15.00-17.00 Demo sessions

UPB Laboratories include:

- Laboratory for Innovative Products and Processes with pilot plants
- Siemens Laboratory for Remote Process monitoring from Industrial Platform CHIMCOMPLEX Borzești ([www.chimcomplex.ro](http://www.chimcomplex.ro))