



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)
Room 2.1

- 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 CO₂ 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 (*Restaurant Pescarus – Mihai I Park*)

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)