

TUESDAY 6TH JUNE

 **DTU Chemical and Biochemical Engineering, Lyngby**

- Morning** Visit the Department of Chemical and Biochemical Engineering (KT), DTU, in Lyngby (for those arriving early)
- 11-14** ICAS Workshop, Professor Rafiqul Gani and Post Doc Alay Aray (including lunch) in room 003, bld. 229
- 12-13** Lunch for all AM17 participants
- 13-14** PILOT PLANT tour, bld. 228, by Lars Kiørboe, Head of PILOT PLANT, and Associate Professor Ioannis V. Skiadas
- 14:00** Departure by bus from bld. 229 to Marienlyst
- 14:30** Arrival at Marienlyst and check-in to rooms
- 15:30** Walk (10-15 min.) from Marienlyst to Kronborg
- 16-17** Sightseeing at Kronborg: "In Hamlet's Footsteps"
- 18:30-22** Get-together-reception at Marienlyst - "Salon 1"
- 20:30-21:30** Advisory Board Meeting, Marienlyst - "Kronborg 11"

WEDNESDAY 7TH JUNE

 **Beach Hotel Marienlyst, Elsinore - "Kronborg Salen"**

- 08:30** Welcome & Introduction - Professor Kim Dam-Johansen, Head of Chemical and Biochemical Engineering (KT), DTU
- 08:50** KT Consortium - Current Status - Professor Rafiqul Gani
- Presentation of main research areas by selected PhD students**
- 09:15** (PhD 1) Olivia Perederic - Thermodynamic property modelling for Lipids Based Process and Product Design
- 09:35** (PhD 2) Daniela Damaceno - Improvement of predictive tools of vapor-liquid equilibrium based on group contribution methods applied to lipid technology
- 09:55** (PhD 3) Andre Vinhal - Simultaneous representation of critical point and phase equilibria with advanced thermodynamic models

- 10:15 Break - coffee station outside the meeting room
- 10:45 (PhD 4) Spardha V. Jhamb – Property model based chemical substitution & formulation design
- 11:05 (PhD 5) Xinyan Liu – Energy efficient hybrid gas separation with ionic liquid
- 11:25 (PhD 6) Rebecca Frauzem – Sustainable CO₂ capture & conversion technologies
- 12:00 Lunch – “Salon 1”
- 13:00 **Poster Session & Meet the Faculty**
Projects on property prediction; hybrid separation; superstructure based optimization; process intensification, ionic liquids for CO₂ capture, electrolytes, asphaltenes and other complex mixtures with CPA and interfacial properties (PhD; MSc; and visiting students)
- 15:00 (PhD 7) Maria-Ona Bertran – Modelling, Synthesis and Analysis of Biorefinery Networks
- 15:20 (PhD 8) Alessandro Rosengart – Strategy for adipic acid production
- 15:40 (PhD 9) Mauro Torli - Thermodynamics, Design, Simulation and Benchmarking of Biofuel Processes
- 16:00 (PhD 10) Nipun Garg – Systematic Sustainable Process Synthesis, Design and Intensification
- 18:30 Annual Meeting Dinner – “Sea Point”
Oral and Poster Awards

THURSDAY 8TH JUNE

 Beach Hotel Marienlyst, Elsinore - “Kronborg Salen”

- 08:30 Invited lecture 1 - Dr. Maxime Durot, TOTAL MS, France – New approaches for bio-based product design at TOTAL
- 09:00 Invited lecture 2 – Mr. P. Crafts, Genesis Oil and Gas Consultants, Aberdeen, UK – Mercury in oil and gas processing
- 09:30 Invited lecture 3 - Dr. Eirini Sioungkrou, Dept. Chemical Engineering, National Technical University of Athens, Greece - Systematic methods for solvent design; Towards better reactive processes
- 10:00 Break - coffee station outside the meeting room

Presentation of main research areas by KT Consortium Faculty Members & Post Docs

- 10:30** (1) Post Doc Alay Arya – Software News & Status
- 11:00** (2) Assistant Professor Xiaodong Liang - Fluid phase equilibria and interfacial tension from advanced equations of state
- 11:30** (3) Post Doc Teng Zhou – Systematic methods for reaction solvent design
- 12:00** Lunch - “Brasserie”
- 13:00** (4) Professor John M. Woodley - Development of industrial bioprocesses
- 13:30** (5) Professor Georgios Kontogeorgis - Thermodynamic models for process and product design. Status and Future trends
- 14:00** Open discussion with member companies (Professors Rafiqul Gani, Georgios Kontogeorgis, John M. Woodley and Assistant Professor Xiaodong Liang)
- 14:30** End of meeting – bus transportation to DTU, bld. 229
- 15:00** Arrival at DTU, bld. 229
- 15:45-16:45** PILOT PLANT tour, bld. 228, by Lars Kjørboe, Head of PILOT PLANT, and Associate Professor Ioannis V. Skiadas

	No.	Personnel	Poster Title
MSc Students	P1	Anders Jaksland	Development of novel processing networks for biorefineries
	P2	Evangelia Koumaditi	Intensified reaction-separation schemes
	P3	Jacob Møller Jensen	Design of a CO ₂ Utilizing and neutral process
	P4	Maria do Carmo	Food waste upgrading by an integrated biorefinery process
	P5	Tereza Kolaiti	Process design and analysis for the synthesis of glycerol to 3-hydroxypropionic acid and 1,3-propanediol
PhD Students	P6	Edgar Camacho	Inhomogeneous fluid behavior: density functional theory approaches
	P7	Li Sun	Modeling CO ₂ semi-clathrate hydrate related systems: literature review and database
	P8	Anders Schlaikjer	Development of CPA for electrolyte mixtures
	P9	Mauro Torli	The SYNFERON project
	P10	Arne B. Gladis	Upscaling of enzyme-enhanced carbon capture process
	P11	Susana Almeida	Predictive modeling of gas diffusion and solubility in polymers for offshore application
Researchers	P12	Alay Arya	Recent application of CPA for flow assurance (asphaltenes)