

ESS-HPT "The European Summer School in High Pressure Technology"

Start on Sunday, 5.7.2015

5.7. - 12.7.2015 University of Maribor

13.7.2015 Visit of industry (NATEX, SCHÖLLER BLECKMANN NITEC) and Transfer to Graz

14.7.-19.7.2015 Graz University of Technology

		MORNING				AFTERNOON					
		8:45 - 9:30	9:40 - 10:25	10:45 - 11:30	11:40 - 12:25	14:00-14:45	14:55-15:40	16:00-16:45	16:55 - 17:40	18:00 - 19:00	
Maribor	Sunday, 5 July 2015	Arrival								18:00 - 19:30 Registration	19:30 Welcome Dinner
Maribor	Monday, 6 July 2015	Opening Short Introduction of each Participant		Thermodynamic Properties and Phase Equilibria for HPT (Kikic/de Loos)		Thermodynamic Properties and Phase Equilibria for HPT (Kikic/de Loos)		Thermodynamic Properties and Phase Equilibria for HPT (Kikic/de Loos)			
Maribor	Tuesday, 7 July 2015	HP Extraction and Separation of Pharmaceutical Plants (Székely)		HP Production of Chiral Compounds (Székely)		Class work 1: HP Phase Equilibria (Kikic/de Loos)		Class work 1: HP Phase Equilibria (Kikic/de Loos)			
Maribor	Wednesday, 8 July 2015	HP Particle Generation - Pros and Cons to Conventional Processes (Knez)		HP Enzymatic Processes - Advantages to Organic Solvents (Knez)		HP Pasteurisation and Sterilisation - A Promising Low Energy Consumption Technology (Bertucco)		Supercritical Fluids in Process and Product Design – From Bench Scale to Pilot Plants (Petermann)		Oral Presentation Students	
Maribor	Thursday, 9 July 2015	HPT for High Quality Pharmaceuticals and Cosmetic Products (Bertucco)		Intersection of Chemical and Biomedical Engineering: Green Technologies Towards the Development of Enhanced Biomaterials (Duarte)		New challenges in polymer foaming using an extrusion process assisted by supercritical carbon dioxide (Fages)		Supercritical Water Oxidation - An Efficient and Clean Energy Production Technology from Wastes (Cocero)		Oral Presentation Students	
Maribor	Friday, 10 July 2015	Biomass Refining Processes Intensification by Supercritical Water (Cocero)		Oral Presentation Students		Class work 2		Oral Presentation Students			
Maribor	Saturday, 11 July 2015	Kinetics of High Pressure Chemical Reactions including benefits (Busch)		Application of Pressure and SCF Technology in a World Scale Process (Busch)		Modelling of Efficiency and Energy Consumption of SCF Extraction from Plant Materials (Sovova)		BASF/SE Polymer Process Development (Lanzinger, Gerling)			
Maribor	Sunday, 12 July 2015	Free Time									
Graz	Monday, 13 July 2015	Transfer to NATEX Prozesstechnologie		Design and Layout of Closure Systems and Sealings for High Pressure Vessels (Lack)		Visit of NATEX Prozesstechnologie and Schoeller-Bleckmann Nitec GmbH		Transfer to Graz		Social Programme	
Graz	Tuesday, 14 July 2015	Viscosity Measurement of Fluids at High Pressure (Schaschke)		Food Under Pressure (Schaschke)		HP and Ionic Liquids for Green Chemistry Applications (Nunes da Ponte)		HPT in Materials Industry - Strategies for Process Intensification and Energy and Resource reduction (Kleintjens)		Oral Presentation Students	
Graz	Wednesday, 15 July 2015	SCF Extraction of Solid Materials - Advantages in Energy and Resource Consumption to Conventional Processes (Gamse)		Tutorials in HP Separation Processes for Process Intensification (Gamse)		Class work 3		16:30 guided tour Graz			
Graz	Thursday, 16 July 2015	How to Design High Pressure Equipment (Schlücker)		HP Nanomaterial Processing (Erkey)		Countercurrent SCF Extraction - Comparison and Pros to Conventional Processes (Zetzl)		Innovative Supercritical Separation Processes for Energy and Resource Reduction (Zetzl)			
Graz	Friday, 17 July 2015	How to Design High Pressure Equipment (Schlücker)		How to Design High Pressure Equipment (Schlücker)		Selective pre-treatment of plant material for optimized release of active principles during SFE (Zizovic)		Preparation Final Exam			
Graz	Saturday, 18 July 2015	Final Exam		Final Exam						Farewell Dinner	
Graz	Sunday, 19 July 2015	Delivery of Diploma, Closing Ceremony				Departure					