ESS-HPT 2023 "The European Summer School in High Presssure Technology" 9.7. -22.7.2023, TU Graz

Online Phase 24.7. - 25.8.2023

	Online Phase 24.7 23.6.2023											
		RNI						AFTERNOON			1	
	8:45 - 9:30 9:40 - 10:25		10:45 - 11:30 11:40 - 12:25		13:30 - 14:15	14:25-15:10		15:30-16:15	16:25 - 17:10		17:15 - 18:15	
Sunday, 9 July 2023			Arrival						18:00 Registration		19:00 Welco	ome Dinner
Monday, 10 July 2023	Opening Short Introduction of each Participant		HP Phase Equilibria - Fundamentals (Bren, Maribor/SI)		HP Phase Equilibria - Experimental Methods (Knez-Marevci, Maribor/SI)		Break	Oral Presentation Students (3)	17:00 -18:30 guided tour Graz		20:00 Dinner	
Tuesday, 11 July 2023	HP Phase Equilibria - Modelling (Martin, Valladolid/ES)		Supercritical Fluids in Process and Product Design – From Bench Scale to Pilot Plants (Petermann, Bochum/DE)	Break			on and Coffee Break	Exa (Martin, Va	am 1 Iladolid/ES)		Oral Presentation Students (4)	20:00 Dinner
Wednesday, 12 July 2023	Countercurrent SCF Extraction - Comparison and Pros to Conventional Processes (Zetzl, Hamburg/DE)	Coffee Break	Innovative Supercritical Separation Processes for Energy and Resource Reduction (Zetzl, Hamburg/DE)	and Lunch	Kinetics of H Chemical React Bene (Busch, Dar	tions Including	Discussion	Technology in Pro	ressure and SCF a World Scale cess rmstadt/DE)		Oral Presentation Students (4)	20:00 Dinner
Thursday, 13 July 2023	11	Discussion and 0	12	Discussion	Transfer to Maribor			P Lab	16:30 - 18:00 tour Maribor		18:00 - 20:00 Dinner Maribor	Transfer to Graz
Friday, 14 July 2023	13		14		1	5			16		Oral Presentation Students (4)	20:00 Dinner
Saturday, 15 July 2023	Kinetics of SCF Extraction of Compounds from Plants and Microalgae (Sovova, Prague/CZ)		18		Free Time optionally: 13:00 - 16:00 G		Gin :	in Seminar optio		Free Time nally: 16:00 - 19:00 Gin Seminar		
Sunday, 16 July 2023				_	Free	e Time		1				
Monday, 17 July 2023	19		20		2	1		:	22		Oral Presentation Students (4)	20:00 Dinner
Tuesday, 18 July 2023	Transfer to NATEX Prozesstechnologie		Design and Layout of Closure Systems and Sealings for High Pressure Vessels (Lack)			Visit of NATEX Transfer to Graz Prozesstechnologie GmbH				20:00 Dinner		
Wednesday, 19 July 2023	23	e Break	24	h Break	2	5	e Break	Exa	ım 2		Oral Presentation Students (4)	20:00 Dinner
Thursday, 20 July 2023	26	Discussion and Coffee I	27	sssion and Lunch	2	8	Discussion ans Coffee		ng to Analysis aribor / Sl			20:00 Dinner
Friday, 21 July 2023	30	Discu	31	Discus	3	2	Discu	Preparation	n Final Exam			20:00 Farewell Dinner
Saturday, 22 July 2023	ESS-HPT Delivery of Diploma, Closing Ceremony				Depar	rture						

1	HP Phase Equilibria - Fundamentals (Bren, Maribor/SI)			
2	HP Phase Equilibria - Experimental Methods (Knez-Marevci, Maribor/SI)			
3	SSI, Integrated SFE-SSI, and SSI Coupled with Chemical Reaction in Materials Design (Zizovic, Wroclaw/PL)			
4	Supercritical Fluids in Process and Product Design – From Bench Scale to Pilot Plants (Petermann, Bochum/DE)			
5.6	HP Phase Equilibria - Modelling (Martin, Valladolid/ES)	Exam 1 (Martin, Valladolid/ES)		
7.8	Supercritical Water Properties & Applications (Cocero, Valladolid/ES)	Lignocellulosic Biomass Biorefinery by sub/SCW Processes (Cocero, Valladolid/ES)		
9	Extrusion Foaming of Polymers (Sauceau, Albi/FR)			
10	Supercritical Fluid Extraction and Separation of Active Components from Medicinal Plants (Vagi, Budapest/HU)			
11	Kinetics of SCF Extraction of Compounds from Plants and Microalgae (Sovova, Prague/CZ)			
12.13	SCF Extraction of Solid Materials - Advantages in Energy and Resource Consumption to Conventional Processes (Gamse, Graz/AT)	Tutorials in HP Separation Processes for Process Intensivation (Gamse, Graz/AT)		
14.15	HP Particle Generation - Pros and Cons to Conventional Processes (Knez, Maribor/SI)	HP Enzymatic Processes - Advantages to Organic Solvents (Knez, Maribor/SI)		
16.17	Kinetics of High Pressure Chemical Reactions Including Benefits (Busch, Darmstadt/DE)	Application of Pressure and SCF Technology in a World Scale Process (Busch, Darmstadt/DE)		
18	HPCO ₂ Pasteurization and Drying of Food Products (Zambon, Padova/IT)			
19	Supercritical Fluids in the Oil and Gas Industry (Székely, Budapest/HU)			
20.21	Countercurrent SCF Extraction - Comparison and Pros to Conventional Processes (Zetzl, Hamburg/DE)	Innovative Supercritical Separation Processes for Energy and Resource Reduction (Zetzl, Hamburg/DE)		
22, 23	Processing of Aerogels by Supercritical Fluid Technology and their Applications (Gurikov, Hamburg/DE)	Thermodynamic Aspects of Supercritical Fluid Chromatography (Gurikov, Hamburg/DE)		
24.25	Selective Chemical Conversions with Hydrogen (Müller, Bochum/DE)	Mass Transfer Limitations in Multiphase Reactions (Müller, Bochum/DE)		
26,27,28,29	How to Design High Pressure Equipment (Schlücker, Erlangen/DE)	How to Design High Pressure Equipment (Schlücker, Erlangen/DE)	How to Design High Pressure Equipment (Schlücker, Erlangen/DE)	Hydrogen (Schlücker, Erlangen/DE)
30	Application of CO2-Extracts in Food and Cosmetic Industry (Grüner-Lempart, Freising/DE)			
31, 32	Food Under Pressure (Schaschke)	Viscosity Measurement of Fluids at High Pressure (Schaschke)		
	From Sampling to Analysis Perva, Maribor / Sl			
	CO ₂ Capture and Utilisation Nunes, Lisbon / PT			