

ERASMUS+ BIP ESS-HPT 2024 "The European Summer School in High Pressure Technology"												
7.7. -20.7.2024, TU Graz												
Online Phase 22.7. – 23.8.2024												
	MORNING				AFTERNOON							
	8:30 - 9:15	9:25 - 10:10	10:30 - 11:15	11:25 - 12:10	13:15 - 14:00	14:10 - 14:55	15:15-16:00	16:10 - 16:55	17:00 - 17:45	17:45 - 18:30		
Sunday, 7 July 2024	Arrival									18:30 Registration	19:00 Welcome Dinner	
Monday, 8 July 2024	Opening Short Introduction of each Participant	Oral Presentation Students (3)	HP Phase Equilibria - Fundamentals (Bren, Maribor/SI)		HP Phase Equilibria - Experimental Methods (Knez-Marevci, Maribor/SI)		16:00 -17:30 guided tour Graz			Free time	Discussion + 20:30 Dinner	
Tuesday, 9 July 2024	Countercurrent SCF Extraction - Comparison and Pros to Conventional Processes (Zetzl, Hamburg/DE)		Innovative Supercritical Separation Processes for Energy and Resource Reduction (Zetzl, Hamburg/DE)		HP Phase Equilibria - Modelling (Martin, Valladolid/ES)		Supercritical Fluids in Process and Product Design – From Bench Scale to Pilot Plants (Petermann, Bochum/DE)		Exam 1 (Martin, Valladolid/ES)		Discussion + 20:30 Dinner	
Wednesday, 10 July 2024	Chemical Conversions under High Pressure (Müller, Bochum/DE)		Mass Transfer Limitations in Multiphase Reactions (Müller, Bochum/DE)		Biodiesel Synthesis under High Pressure (Stamenic, Belgrade/RS)		Supercritical Water Properties & Applications (Cocero, Valladolid/ES)		Oral Presentation Students (7)		Discussion + 20:30 Dinner	
Thursday, 11 July 2024	How to Design High Pressure Equipment (Schlücker, Erlangen/DE)		How to Design High Pressure Equipment (Schlücker, Erlangen/DE)		Transfer to Maribor	15:00 - 16:30 Visit of HP Lab Maribor		16:30 - 18:00 tour Maribor		18:00 - 20:00 Dinner Maribor	Transfer to Graz	
Friday, 12 July 2024	How to Design High Pressure Equipment (Schlücker, Erlangen/DE)		Hydrogen (Schlücker, Erlangen/DE)		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)		Oral Presentation Students (6)		Discussion + 20:30 Dinner	
Saturday, 13 July 2024	SCF Extraction of Solid Materials - Design Criteria from Lab Scale to Industrial Scale Plants (Gamse, Graz/AT)		Tutorials in HP Separation Processes for Process Intensification (Gamse, Graz/AT)		Free Time optionally: 14:00 - 17:00 Gin Seminar			Free time				
Sunday, 14 July 2024	Free Time											
Monday, 15 July 2024	Kinetics of SCF Extraction of Compounds from Plants and Microalgae (Sovova, Prague/CZ)		Impregnation and Grafting in Supercritical CO ₂ - Challenges and Prospects (Zizovic, Wroclaw/PL)		HP Particle Generation - Pros and Cons to Conventional Processes (Knez, Maribor/SI)		HP Enzymatic Processes - Advantages to Organic Solvents (Knez, Maribor/SI)		Oral Presentation Students (6)		Discussion + 20:30 Dinner	
Tuesday, 16 July 2024	Transfer to NATEX Prozesstechnologie		Design and Layout of Closure Systems and Sealings for High Pressure Vessels (Lack)		Visit of NATEX Prozess-technologie GmbH	Transfer to Innoweld	Visit of INNOWELD Company		Transfer to Graz		17:30 - 20:00 Dinner Graz	
Wednesday, 17 July 2024	Extrusion Foaming of Polymers (Sauceau, Albi/FR)		Processing of Aerogels by Supercritical Fluid Technology and their Applications (Gurikov, Hamburg/DE)		Thermodynamic Aspects of Supercritical Fluid Chromatography (Gurikov, Hamburg/DE)		Exam 2			Oral Presentation Students (6)		Discussion + 20:30 Dinner
Thursday, 18 July 2024	Oral Presentation Students (5)		Application of CO ₂ -Extracts in Food and Cosmetic Industry (Grüner-Lempart, Freising/DE)		Supercritical Fluids in the Oil and Gas Industry (Székely, Budapest/HU)		From Sampling to Analysis (Perva, Maribor/SI)		Free time		Discussion + 20:30 Dinner	
Friday, 19 July 2024	Supercritical Fluid Extraction and Separation of Active Components from Medicinal Plants (Vagi, Budapest/HU)		CO ₂ Capture and Utilisation (Nunes, Lisbon/PT)		Preparation Final Exam			Free time		Free time		20:00 Farewell Dinner
Saturday, 20 July 2024	ESS-HPT Closing Ceremony		Departure									