

**ERASMUS+ BIP ESS-HPT 2026 "The European Summer School in High Pressure Technology"**

**5.7. - 18.7.2026, TU Graz**

**Online Phase 20.7. – 21.8.2026**

	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				
Sunday, 5 July 2026	<b>Arrival</b>										18:30 Registration	19:00 Welcome Dinner Steirerstubn	
Monday, 6 July 2026	Opening Short Introduction of each Participant	Oral Presentation Students (3)		HP Phase Equilibria - Fundamentals (Bren, Maribor/SI)		HP Phase Equilibria - Modelling (Martin, Valladolid/ES)		Free time	16:00 -17:30 guided city tour Graz	Free time		Discussion + 20:30 Dinner Steirerstubn	
Tuesday, 7 July 2026	Biodiesel Synthesis under High Pressure (Stamenic, Belgrade/RS)		Discussion & Coffee Break	HP Phase Equilibria - Experimental Methods (Knez-Marevci, Maribor/SI)	Discussion & Lunch Break	Impregnation and Grafting in Supercritical CO <sub>2</sub> - Challenges and Prospects (Zizovic, Wroclaw/PL)	Discussion & Coffee Break	Supercritical Water Properties & Applications (Cocero, Valladolid/ES)		Exam 1 (Martin, Valladolid/ES) 17:00 - 18:30		Discussion + 20:30 Dinner Steirerstubn	
Wednesday, 8 July 2026	How to Design High Pressure Equipment (Freitag, Schlücker, Erlangen/DE)			How to Design High Pressure Equipment (Schlücker, Erlangen/DE)		How to Design High Pressure Equipment (Schlücker, Erlangen/DE)		Hydrogen (Freitag, Schlücker, Erlangen/DE)		Free time	Discussion + 18:30 Dinner Steirerstubn	20:30 - 22:15 Oral Presentation Students (8) Bar 8020	
Thursday, 9 July 2026	Chemical Conversions under High Pressure (Müller, Bochum/DE)			HPCO <sub>2</sub> Pasteurization and Drying of Food Products (Zambon, Bologna/IT)		Transfer to Maribor	15:00 - 16:30 Visit of HP Lab Maribor	16:30 - 18:00 city tour Maribor	18:00 - 20:00 Dinner Maribor		Transfer to Graz		
Friday, 10 July 2026	Mass Transfer Limitations in Multiphase Reactions (Müller, Bochum/DE)			Kinetics of High Pressure Chemical Reactions Including Benefits (Busch, Darmstadt/DE)		Break	Application of Pressure and SCF Technology in a World Scale Process (Busch, Darmstadt/DE)	Utilisation of Food Industry By- products for Sustainable Development using Supercritical CO <sub>2</sub> Extraction (Jokic, Osijek/HR)	Free time	Discussion + 19:00 Dinner Pizza Napo	20:30 - 22:15 Oral Presentation Students (8) Bar 8020		
Saturday, 11 July 2026	SCF Extraction of Solid Materials - Design Criteria from Lab Scale to Industrial Scale Plants (Gamse, Graz/AT)		Tutorials in HP Separation Processes for Process Intensivation (Gamse, Graz/AT)	Free Time optionally: 14:00 - 17:00 Gin Seminar				Free time					
Sunday, 12 July 2026	Free Time												

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Monday, 13 July 2026	Oral Presentation Students (6)			Break	Emerging Applications of High-Pressure Process Technology in Sustainable Chemistry, Recycling, and Manufacturing (Petermann, Bochum/DE)			Break	Countercurrent SCF Extraction - Comparison and Pros to Conventional Processes (Zetzl, Hamburg/DE)			Break	Innovative Supercritical Separation Processes for Energy and Resource Reduction (Zetzl, Hamburg/DE)			Free time			Discussion + 18:30 Dinner Steirerstubn			20:30 - 22:15 Oral Presentation Students (8) Bar 8020		
Tuesday, 14 July 2026	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 Lucky's Heuriger					
Wednesday, 15 July 2026	Processing of Aerogels by Supercritical Fluid Technology and their Applications (Gurikov, Hamburg/DE)			Discussion & Coffee Break	Thermodynamic Aspects of Supercritical Fluid Chromatography (Gurikov, Hamburg/DE)			Discussion & Coffee Break	Kinetics of SCF Extraction of Compounds from Plants and Microalgae (Sovova, Prague/CZ)			Discussion & Coffee Break	Exam 2			Free time			Discussion + 18:30 Dinner Steirerstubn			20:30 - 22:15 Oral Presentation Students (8) Bar 8020		
Thursday, 16 July 2026	Supercritical Fluids in the Oil and Gas Industry (Székely, Budapest/HU)				Application of CO <sub>2</sub> -Extracts in Food and Cosmetic Industry (Grüner-Lempart, Freising/DE)				HP Particle Generation - Pros and Cons to Conventional Processes (Knez, Maribor/SI)				HP Enzymatic Processes - Advantages to Organic Solvents (Knez, Maribor/SI)			Free time			Discussion + 20:00 Dinner Steirerstubn					
Friday, 17 July 2026	CO <sub>2</sub> Capture and Utilisation (Nunes, Lisbon/PT)				Supercritical Fluid Extraction and Separation of Active Components from Medicinal Plants (Vagi, Budapest/HU)				From Sampling to Analysis (Perva, Maribor/SI)				Preparation Final Exam			Free time			19:00 Farewell Dinner					
Saturday, 18 July 2026	ESS-HPT Closing Ceremony			Departure																				