Program draft of the joint annual meeting of the DECHEMA/VDI Specialist Groups on “Fluids Process Engineering” with “Heat and Mass Transfer” on March

09.03.2026				
Start	End			
11:00	12:00	Arrival and registration, D415		
11:15	12:00	Guided lab tour (optional) ->		Meeting point D415
12:00	12:45	Possibility for lunch at mensa		
13:00	13:10	**D415 - Josef Mädersaal** **Welcome & Joint Session**		
13:10	13:30	Welcome & Intro HS Lucerne, L. Fischer		
13:30	14:00	T. Linder/Sulzer: Advancing Mass Transfer Component Development: From a Knowledge-Based to a Data-Driven Approach		
14:00	14:30	F. Lais/TUBS: A shortcut design approach to evaluate reboiler designs in mechanical vapor recompression scenarios		
14:30	15:00	**Coffee Break**		
		C200		**D415 - Josef Mädersaal**
		FVT - Session 1: **Rotating Equipment**		**WSÜ - Session 1:** **Evaporation and Condensation**
15:00	15:25	P. Eichler/ Technische Universität Berlin: CO_2-Absorption in Rotating Packed Beds: Exploring the Capacity Limit		R. Behle/TU Darmstadt: Influence of Topography Wavelength on Thermocapillary-driven Deformation of Evaporating Liquid Films
15:25	15:50	J. Hohlmann/ TU Dortmund: Phase Retention Control in Preparative Centrifugal Partition Chromatography		B. A. Al-Khateeb/FAU Erlangen: Measurement of Heat Transfer Coefficients for Dropwise Condensation of Fluids with Low Surface Tension
15:50	16:15	M. Illner/ Technische Universität Berlin: CO2 Capture using Rotating Packed Beds – Are Columns Obsolete? Pilot-Plant Operation and Simulation of Hybrid Process Configurations		J. V. W. Kühl/FAU Erlangen: Condensation Heat Transfer of Zeotropic n-Alkane Mixtures on Horizontal Single Tubes and in Tube Bundles
16:30	17:30	**D218** **Poster Short presentations** 30 Posters each 2 min		
17:30	19:30	**Posterparty with Swiss Apero**		
18:00	19:15	Internal Meeting Board Fluid-VT		
20:00	open	Meeting Young Fluid Seps		

10.03.2026				
Start	End	**Joint Session**		
08:30	08:35	Report from Internal Board meeting FVT		
08:35	09:20	Aydin Akay/Roche: Driving Sustainability at Roche: Achievements, Future Pathways, and Shared Responsibilities		
09:20	09:45	A. Denecke/TUBS: Characterization of Entrained Droplet Size Distributions under Flashing-Feed Conditions with 1-Hexanol		
09:45	10:10	A. Döß/HZDR: Experimental Investigation and Prediction of Flooding Points of Wire-Mesh Demisters at Relevant Fluid Properties		
10:10	10:40	Coffee Break		
		C200		**D415 - Josef Mädersaal**
		FVT - Session 2: **Processes**		**WSÜ - Session 2:** **Fundamentals of Heat and Mass Transfer**
10:40	11:05	M. Polyakova/ Ruhr-Uni Bochum : Methodology for early-stage screening and selection of hybrid membrane-		N. Germann/Univ. Stuttgart: Heat and mass transfer in thin-film drying of sewage sludge
11:05	11:30	L. Wieczorek/ Ruhr-Uni Bochum: Assessing Distillation Robustness under Variable Feeds: KPI Development and Application to Styrene Recovery in Chemical Recycling		W. Ma/OvGU Magdeburg: Experimental Investigation of Thermal Mixing of Monodisperse Particles in a Rotary Drum
11:30	11:55	C. Lukas/ Uni Ulm: Comparison of liquid split actuation methods for a 3D-printed laboratory scale dividing wall column		J. Dörr/KIT: Mass Transfer during Thermal Removal of Volatiles from Lithium-Ion Batteries for Safe and Efficient Recycling
11:55	12:20	D. Siebe/ TU Munich: Thermodynamic non-equilibrium model of a liquid hydrogen tank including gas phase temperature stratification		M. S. Idrees/FAU Erlangen: Accurate Determination of the Interfacial Heat Transfer Coefficient during Hot Stamping
12:20	13:20	Lunch Break		
		C200		**D415 - Josef Mädersaal**
		FVT - Session 3: **Packing & Phenomena in Columns**		**WSÜ - Session 3:** **Thermal Storages**
13:20	13:45	M. Xia/ Evonik Operations GmbH: Good Intentions Meet Reality: A Liquid Distributor Story		J. Martinez Garcia/UAS Lucerne: Tracking heat conduction and phase change in solid-liquid PCMs by X-ray tomography and diffraction
13:45	14:10	P. Pötter/ Ruhr-Uni Bochum : Characterization of liquid distribution in structured packings by a novel film thickness sensor in a miniaturized		K. Diewald/ISE Freiburg: Heat transfer in a novel mantle heat exchanger in a heat pump storage concept
14:10	14:35	V. Charitatos/ Sulzer Chemtech AG: Digital Twinning of Structured Packing Columns: Modeling Liquid Maldistribution		T. Thelen/Univ. Paderborn: Latent heat storage for industrial applications: Characterization of a lab-scale unit
14:35	15:00	V. Wolf-Zoellner/ TU Leoben: Understanding Methodological Influences and End Effects in Pilot-Scale Packing Characterization across Facilities		E. Schmitt / CH Lucerne: High-temperature water vapour transmission measurements for polymer liners in cavity thermal energy storage
15:00	15:30	Coffee Break		
		C200 **FVT - Session 4:** **Packing & Phenomena in Columns**		**D415 - Josef Mädersaal** **WSÜ - Session 4:** **Heat Exchanger Simulation**
15:30	15:55	J. Solà Cervera/ RVT Process Equipment GmbH: Optimization of an Ethlybenzene/Styrene Splitter with RMP SP-type Structured Packings – A Case Study		V. Scheffel/TU Dresden: Numerical simulations of non-uniform flow in shell-and-tube heat exchangers and their practical validation
15:55	16:20	J. Gramann/ Ruhr University Bochum: Investigation of the Influence of Dynamic Operating Conditions on HETP Values Using a Distillative Miniaturized Measuring Cell		L. Hanimann(AUS Lucerne: Next-Generation Industrial Design via Discrete Adjoint CFD: Applications in Flow and Heat Transfer
16:20	16:45	D. Appelhaus/ TU Braunschweig: Characterization of Evaporation-Induced Foam Behavior for Industrial Separation Processes		C. Otto/TU Braunschweig: Micro heat exchanger characterization method deployed to fouling analyses using an effective heat flow
16:45	18:15	**Poster Session (D218)**		
17:00	18:15	Internal Meeting Board WSÜ		
19:00	open	**Conference Dinner** Restaurant "Wilhelm Tell", Landungsbrücke 9, 6006 Lucerne		

n 09 – 11, 2026 in Lucerne/CH				
11.03.2026				
		C200		**D415 - Josef Mädersaal**
Start	End	**FVT - Session 5: Batch-Distillation**		**WSÜ - Session 5: Physical Preperties**
08:30	08:55	M. Wolke/ TU Braunschweig: Solvent Purification from Lithium-Ion Battery Recycling via Fractional Batch-Rectification: Feasibility study		J. Wagner/RPTU Kaiserslautern: Hybrid Models for Physical Consistent Diffusion Coefficient Prediction
08:55	09:20	J. Arweiler/ RPTU Kaiserslautern: A Dataset of Normal and Anomalous Batch Distillation Data for Anomaly Detection		E. A. Schmidt/KIT: Experimental Concept for Investigating the Effective Thermal Conductivity of Packed Beds with Liquid Metals as Fluid Phase
09:20	09:45	A. González de Castilla/ Bayer AG: Requirements, Approach, and Exemplary Application for the Simulation of a Reactive Batch Distillation in Life-Science Industry		M. Kansy/KIT: Innovative fiber optic measurement method for determining the thermal conductivity properties of honeycomb reactors
09:45	10:15	Coffee Break		
		Joint Session: Additive Manufacturing		
10:15	10:40	M. A. Ashour/Univ. Ulm: Understanding Additively Manufactured Surfaces: Topography and Wettability of Polyamide 12 for Lab Scale Distillation Packings		
10:40	11:05	V. Hollenhorst/Univ. Paderborn: Investigation of Surface Roughness Effects on Flow Patterns and Thermal Performance in Additively Manufactured Channels		
11:05	11:30	M. A. Ashour/Univ. Ulm: Overcoming the Hurdles of Miniaturizing Corrugated-Sheet Structures: A Novel 3D-Printed Lab-Scale Distillation Packing		
11:30	12:00	Report from Board Meeting WSÜ Reports from Doctoral Researchers Workshops 2025 Poster Awards Farewell		
12:00	13:00	Lunch at Mensa (optional)		
13:00	13:45	Guided lab tour (optional) ->		Meeting point: Foyer mensa