

Day 1 Morning Session - Water Vapour Sorption Basics		Day 2 Morning Session – Applications & Specific Material	
08:30 -08:45	Welcome		
08:45 - 09:30	Fundamental Aspects of Moisture Sorption Humidity, water activity, water content, units, terms, definitions, etc.	08:45 - 09:30	Moisture Sorption in Food Research An overview of DVS applications
09:30 - 10:15	Moisture Interactions with Solids Overview, chemical/physical changes, applications	09:30 - 10:15	„Applications & Specific Material“ Lactose and its modifications, amorphous content (Meggler GmbH)
10:15 - 10:30	Discussion	10:15 - 10:30	Discussion
10:30 - 11:00	Coffee Break	10:30 - 11:00	Coffee Break
11:00 - 11:45	Moisture Sorption Isotherms Types of isotherms, classification, how to read, etc.	11:00 - 11:45	Moisture Sorption in Pharmaceuticals and Related Areas Pharmaceuticals, tasks and issues, examples, patent relevance, etc.
11:45 - 12:30	Principles of Dynamic Vapour Sorption Instruments Operating principles, technical details	11:45 - 12:30	'Enhancing DVS Measurements: Integrating Imaging and Raman Spectroscopy to Identify Additional Processes, Applications to identify phase changes of mixed salt systems in the environment (Royal Institute of Cultural Heritage)
12:30 - 13:15	Lunch Break		
Day 1 Afternoon Session - Calibration & Experimental Strategies		Day 2 Afternoon Session - Instrument Workshop	
13:15 -14:00	Calibration and Validation of a Moisture Sorption Analyzer Procedures, sensors and reliability considerations	13:15 -14:00	SPS/Vsorp Moisture Sorption Instruments - Workshop part I Instrument selection, Strategies for optimized instrument settings, Min weight considerations, Data export & further processing, Analysis suite
14:00 - 14:45	Additional Sensors and extended measurement methods From a single purpose instrument to a comprehensive system solution	14:00 - 14:15	Coffee Break
14:45 - 15:00	Discussion	14:15 - 15:15	SPS/Vsorp Moisture Sorption Instruments - Workshop part II Hands-on instrument demonstration, open discussion, Q&A
15:00 - 15:30	Coffee Break	15:15 - 15:30	Closing Remarks
15:30 - 16:15	Experimental Aspects and Strategies Sample preparation, experimental setup, complementary techniques	15:30	End of Seminar
16:15 - 17:00	Interpretation and Evaluation of measurements Representative examples, hydration, phase transitions, deliquescence, decomposition etc.		
18:30	Conference Dinner		
20:30	Guided tour through historic Ulm		