

**CARNOT user meeting 2020****Thursday 09:00 – 10:30 Workshop 1 + 3 (parallel)**

Beginner's tutorial Bernd Hafner, Joachim Götsche

Co-Simulation Alex Keute

**Thursday 10:45 – 12:15 Workshop 2**

Creating and working with libraries Patrick Kefer

**Thursday 12:15 – 13:15 Lunch break****Thursday 13:15 – 13:30 Greetings (Prof. Floß / Prof. Becker)****Thursday 13:30 – 13:45 General news (Bernd)****Thursday 13:45 – 14:00 Technical note on pump model (Stephan, Bernd)****Thursday 14:00 – 15:30 Lecture block 1 – batteries (moderation: Stephan)**

Patrick Kefer	FH Wels	Modeling of battery inverters
Ralf Dott	FH NW-Schweiz	Battery model and validation procedure
Aminu Iliyasu Bugaje	HS Ingolstadt	Electric Battery Storage Simulation with Solar-PV

**Thursday 15:30 – 16:00 Coffee break****Thursday 16:00 – 17:30 Lecture block 2 – heating / cooling (moderation: Bernd)**

Marco Griesbach	Uni Bayreuth	Modeling innovative concepts for the heat and cold supply of non-residential buildings
Fabian Ochs	Uni Innsbruck	Simulation of decentral DHW preparation in (large) multi-family buildings
Stephan Volkmer	HS Biberach	Modeling and optimization of a recooling circuit

**Friday 09:00 – 10:30 Lecture block 3 – control systems (moderation: Ralf (scheduled))**

Sebastian Haußer Daniel Pfeiffer	HS Biberach	MPC control for chiller control including optimum use of a storage tank
Patrick Kefer	FH Wels	Energy Management in a School Building: Replacing an MPC with a Heuristic Model
Lena Frank Bernd Hafner	FH Düsseldorf Viessmann	Development of an improved heat pump model for the use in a HIL test bench or a complete building energy system

**Friday 10:30 – 11:00 Coffee break****Friday 11:00 – 12:00 Lecture block 4 – Co-Simulation and building simulation (Moderation: Joachim)**

Mara Magni	Uni Innsbruck	Comparison of Simulation Results for an Office Building Between Different BES Tools
Kedar Mehta	HS Ingolstadt	Utilisation of 'EnergyPlus' with MATLAB / Simulink + CARNOT toolbox

**Friday 12:00 – 12:30 Summary of the User Meeting (Stephan, Bernd)****Friday 12:30 – 13:15 Lunch break****Friday 13:15 – 14:15 Lab tour**