

Time	Speaker	Presentation
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Topic: Introduction

09:00 h - 09:10 h	Fabian OCHS (UIBK)	Welcome and Introduction
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09:10 h - 09:35 h	Bernd HAFNER (Viessmann)	Introduction to Carnot Toolbox and actual Developements
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09:35 h - 09:50 h	Tobias BLANKE (SIJ)	Carnot and Cloud Structure
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09:50 h - 10:00 h		short Q&A
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Topic: System / Case Studies

10:00 h - 10:15 h	Dennis GÖTZELMANN (FHD)	Usecase: Digital twin of a hybrid district heating plant with heat pump
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10:15 h - 10:30 h	Carsten WEMHÖNER (OST)	Comparison of nZEB ambition level in different countries
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10:30 h - 10:45 h	Tobias REUM (THI)	Annual simulation of a hybrid heat pump including inverter control
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10:45 h - 10:50 h		short Q&A
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Break (40 min)

Topic: Component Models

11:30 h - 11:45 h	Christoph MESSMER (FHNW)	HX Model with Condensation
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11:45 h - 12:00 h	Mara MAGNI, Elisa VENTURI (UIBK)	Window model
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12:00 h - 12:15 h	William MONTELEONE (UIBK)	Heat pump refrigerant cycle model for generation of lookup tables
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12:15 h - 12:30 h	Matteo DONGELLINI (UNIBO)	Dynamic simulations with ALMABEST: ALMABuild e ALMAHVAC – CARNOT
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12:30 h - 12:45 h	Anna VANNAHME (THI)	Modelling of a Thermal Network
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12:45 h - 12:55 h		short Q&A
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Lunch-Break (65 min) + Lab Visit

Topic: Controls

14:00 h - 14:15 h	Wolfgang ROHRMOSER (Ing.büro Dr.-Ing. W. Rohrmoser)	Model based PLC software development and test. Overview and classification of technologies illustrated for a MatLab/Simulink interface to Beckhoff TwinCAT
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14:15 h - 14:30 h	Dennis LOTTIS (Fraunhofer IEE)	Development of control concepts for heat exchangers for highly flexible usage in the test facility District LAB with the CARNOT blockset
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14:30 h - Jens SCHAUMANN
14:45 h (Viessmann)

[Developement of System Controller for Heat Pumps Systems](#)

14:45 h -
14:50 h

short Q&A

Topic: Tools and Outlook

14:50 h - Patrik KEFER
15:05 h (FH Wels)

[Comparison of Polysun and Simple-House in Carnot – influence of Ground Coupling](#)

15:05 h - Fabian OCHS
15:20 h (UIBK)

[Matlab vs Simulink - Simulation Performance](#)

15:20 h - Dietmar SIEGELE
15:40 h (Fraunhofer Italia)

[The future of physical building modelling](#)

15:40 h -
15:50 h

short Q&A

15:50 h -
16:00 h

Wrap up

16:00 h

End of the Carnot User Day

16:30 h -
18:00 h

Expert workshop on multi-zone building simulation