


**TRNSYS EXPERIENCE**  
 SEMINAR 2017

## Program

### THURSDAY, MARCH 2<sup>ND</sup> 2017

**9:00 – 10:00 STUDENTS OPENING SESSION**

Introduction to TRNSYS

Specific session for students: TRNSYS features &amp; introduction do dynamic thermal simulation

**10:00 – 11:00 OPENING SESSION**

 Welcoming speech – *Philippe André*

 Keynote talk : Challenges and use cases of simulation in Building 4.0 industry – *Cécile Goffaux*
**11:00 – 11:30**

Coffee break

**11:30 – 13:00 FIRST SESSION**

 The use and limits of TRNSYS for building energy performance contracting – *Camille Bernard*

 Energy performance assessment of an existing scholar building through detailed energy simulations – *Roberto Ruiz*  
 TRNSYS 18 : New features overview – *Jakob Merk*
**13:00 – 14:00**

Lunch break

**14:00 – 15:30 SECOND SESSION**

 Free-hanging sound absorbers modelization in TRNSYS – *Nils Rage*

 Numerical modelling of a building-integrated solar-thermal system – *Matteo D'Antoni*

 Adaptive building envelope : The impact of water-filled ETFE cushion on energy saving and comfort - *Abolfazl Ganji Kheybari*
**15:30 – 16:00**

Coffee break

**16:00 – 17:30 THIRD SESSION**

 Overheating risk evaluation by calibrated simulation model in TRNSYS – *Pauline Abrahams*

 Thermal performance assessment of passive techniques integrated into residential buildings in semi-arid climate by means of TRNSYS modeling - *Brahim Benhamou*

 Design guidelines for highly glazed office buildings in steel composite construction developed by using Trnys, optimization methods and LCA – *Anja Degens*
**17:45 – 18:45**

Visit of BEMS laboratory

**18:45**

Social dinner

### FRIDAY, MARCH 3<sup>RD</sup> 2017

**09:00 – 10:30 FOURTH SESSION**

 Towards designing energy self-sufficient smart cities – *Hamza Mohammad*

 System optimization of NZEB residential building in TRNSYS - "Vallenergie" project – *Pauline Abrahams*

 TRNSYS modeling and simulation of a beer brewing process – *Fabien Claude*
**10:30 – 11:00**

Coffee break

**11:00 – 12:30 FIFTH SESSION**

TRNSYS E-learning – TU Kaiserslautern

General discussion around TRNSYS

Conclusion

**12:30 – 13:45**

Lunch

### WORKSHOP FOR STUDENTS

**13:45 – 17:00**

Hands-on workshop with TRNSYS beginners

Software will be provided for the workshop