

## Wednesday, 05.10.2016

- 9:30 – 9:40 Welcome** (Nicole Faber)
- 9:40– 10:40 AICES Fellows**  
2-Slide Introduction, given in alphabetical order
- 10:40 – 11:00 Coffee Break**
- 11:00 – 11:30 AICES Postdoctoral Associate**  
(Chair: Jeyashree Krishnan)
- 11:00 – 11:30 Caterina Fenu**  
Numerical Integration and Inverse Problems
- 11:30 – 11:50 Marek Behr**
- 12:00 – 13:00 Lunch Break**
- 13:00 – 16:00 Ellen Gürtler**
- 18:00 Dinner**

## Thursday, 06.10.2016

- 9:00 – 10:00 AICES Fellows**  
(Chair: Rex Bedzra)
- 9:00 – 9:20 Atefeh Alipour**  
Confined Metal Plasticity on Small Scales Modeling
- 9:20 – 9:40 Rhea von Bülow**  
Integrated Hydrogeophysical and Structural Investigation of the Subsurface
- 9:40 – 10:00 Miguel de la Varga**  
Integration of Data to Improve Uncertain Geological Models Through Non-Parametrical Empirical Bayesian Networks
- 10:00 – 10:20 Sandra Wienke**  
A Methodology for Development Effort & Productivity Estimation in High-Performance Computing (HPC)
- 10:20 – 10:40 Coffee Break**
- 10:40 – 12:30 AICES Fellows and Associated Junior Research Group Leader**  
(Chair: Nicolas Gallego-Ortiz)
- 10:40 – 11:00 Reza Ghaffari**  
On Modeling of Graphene Based Structures
- 11:00 – 11:20 Paul Springer**  
High-performance Tensor Computations
- 11:20 – 11:40 Alexander Zimmerman**  
Modeling and Simulation of Heat Source Trajectories Through Phase-Change Materials
- 11:40 – 11:50 Break**
- 11:50 – 12:20 Stephan Wulfinghoff**  
Investigation of a Locking-Free Hybrid Discontinuous Galerkin Element That is Very Easy to Implement Into FE-Codes
- 12:20 – 12:40 Markus Höhnerbach**  
The Vectorization of the Tersoff Multi-Body Potential
- 12:40 – 14:00 Lunch Break**
- 14:00 – 18:30 Victor Eijkhout**
- 19:00 Dinner**

## Friday, 07.10.2016

- 9:00 – 10:00 AICES Fellows**  
(Chair: Henrik Barthels)
- 9:00 – 9:20 Heng Liu**  
Hexahedral Mesh Generation for Computational Engineering Science
- 9:20 – 9:40 Ajay Rangarajan**  
Adaptive HDG Schemes on Near-Optimal Meshes
- 9:40 – 10:00 Christian Doberstein**  
Joint Exit Wave Reconstruction and Nonrigid, Multimodal Registration of Transmission Electron Microscopy Image Series
- 10:00 – 10:15 Coffee Break**
- 10:15 – 11:15 AICES Postdoctoral Associates**  
(Chair: Maximilian Harmel)
- 10:15 – 10:45 Dzmityr Firahe**  
Scientific Pathway to AICES Graduate School
- 10.45 – 11:15 Satya Samal**  
Analysis of Biochemical Reaction Networks Using Tropical Geometry Methods
- 11:15 – 11:45 Hossein Gorji**  
Monte-Carlo Description of Flow Phenomena Based on the Fokker-Planck Kinetics
- 11:35 – 13:00 Lunch Break**
- 13:00 Shuttle back to RWTH**