

Final Program

OpenModelica Annual Workshop February 3, 2014

Supported by
Open Source Modelica Consortium (OSMC) and Linköping University (LiU)

8.00-8.35 Registration and coffee, outside A2, A-building.

8.35-9.05 Peter Fritzson, Director of OSMC (Linköping University)

- Workshop Opening, Status and Directions of OpenModelica

9.05-9.40 Keynote. Dirk Zimmer (DLR, Munich, Germany)

- Planar Mechanics Library and Simulation

9.45-10.10 Francesco Casella (Politecnico di Milano, Italy)

- ThermoPower Library Simulation

10.10-10.35 Bernhard Bachmann, Lennart Ochel, Willi Braun, Vitalij Ruge (FH Bielefeld)

- Status and Vision of current OMC-backend Development for Simulation, Initialization, and Optimization

10.35-11.00 Coffee

Session Chair: Gerhard Schmitz

11.00-11.25 Lennart Ochel, Francesco Casella, Bernhard Bachmann (FH Bielefeld, Politecnico di Milano, FH Bielefeld)

- Symbolic Initialization of Over-Specified Higher-index Models

11.25-11.50 Vitalij Ruge, Bernhard Bachmann (FH Bielefeld)

- Efficient Built-in Dynamic Optimization Features of OpenModelica

11.50-12.15 Willi Braun, Bernhard Bachmann (FH Bielefeld)

- Generic Differentiation Module and its Application within the OMC Backend

12.15-13.30 Lunch in Kårallen

Session Chair: Peter Fritzson

13.30-13.55 Adrian Pop (OSMC & Linköping University, OSMC Technical Coordinator)

- Current Status and Technical Overview of OpenModelica and its Development Environment

13.55-14.20 Marcus Walther, Volker Waurich, Christian Schubert, Ines Gubsch (TU Dresden)

- Parallelization of Modelica Models

14.20-14.45 Volker Waurich, Ines Gubsch, Torsten Blochwitz, Jens Frenkel (TU Dresden)

- Splitting Algebraic Loops for Improved Performance and Parallelization

14.45-15.10 Coffee

Session Chair: Bernhard Bachmann

15.10-15.30 Martin Sjölund (Linköping University)

- Integrated Modelica Debugging

15.30-15.50 Lena Buffoni and Wladimir Schamai (Linköping University, EADS)

- Modelica Extensions for Requirement Modeling and their Implementation

15.50-16.10 Thibaut-Hugues Gallois, Jean Brac, Thierry Soriano (IFP)

- Solver Issues in OpenModelica

16.10-16.25 Jan Silar, Kristian Stavåker, Marek Mateják, Pavol Privitzer, Jozef Nagy

- Modeling with Partial Differential Equations - Modelica Language Extension Proposal

16.30-17.00 Panel Discussion

- Future Directions of OpenModelica

17.00-18.00 Open Source Modelica Consortium Annual Statutory Meeting

19.00 Dinner