Final Program
OpenModelica Annual Workshop February 2, 2021
Supported by
Open Source Modelica Consortium (OSMC) and Linköping University (LIU)

08.15-08.30 Web-meeting opens

08.30-08.40 Lena Buffoni and Lennart Ochel (Linköping University and RISE Linköping, Sweden)
• Workshop Opening

Session Chair: Bernhard Bachmann

08.40-09.00 Francesco Casella, Director of OSMC (Politecnico di Milano, Italy)
• Status and Directions of OpenModelica

09.00-09.45 Francesco Casella, Director of OSMC (Politecnico di Milano, Italy)
• Keynote. Is OpenModelica finally coming of age?

09.45-10.10 John Tinnerholm, Adrian Pop and Martin Sjölund (Linköping University and RISE Linköping, Sweden)
• Modelica extensions for Highly Dynamic Systems via Julia and OpenModelica

10.10-10.35 Adrien Guironnet, Florentine Rosière and Gautier Bureau (RTE, France)
• Dynaωo: A Suite of Power System Simulation Tools using Modelica and the OpenModelica Compiler

10.35-10.50 Coffee break

Session Chair: Martin Sjölund

10.50-11.15 Sai Kiran Samboju, Vivek Teja Tanjavooru, Daniel Zinsmeister and Vedran S. Perić (Technical University of Munich)
• Modeling of Combined Heat and Power Generation Unit for Dynamic Analysis of Integrated Thermal-Electric Grids

11.15-11.40 Jan Peter Axelsson (Vascaia AB, Sweden)
• Design aspects of Bioprocess Library for Modelica

11.40-12.05 Barbara Zardin, Giovanni Cillo and Massimo Borghi (University of Modena and Reggio Emilia, Italy)
• Modelling and simulation of positive – displacement machines with OpenModelica

12.05-13.15 Lunch break

Session Chair: Francesco Casella

13.15-13.40 Adrian Pop, OSMC Technical Coordinator (Linköping University)
• Current Status and Technical Overview of OpenModelica and its Development Environment

13.40-14.05 Vishak Dudhee and Vladimir Vukovic (Teesside University, UK)
• Simulation-Based Optimisation Coupling OpenModelica and GenOpt

14.05-14.30 Hubert Blervaque and Kods Grissa Naïeb (EDF, France)
• BuildSysPro library on OpenModelica: a compatibility case study

14.30-14.55 Nikhil Sharma, Kannan Moudgalya and Sunil Shah (Indian Institute of Technology Bombay and Modelicon Infotech LLP)
• Modelica Library for Batch Distillation

14.55-15.05 Coffee break

Session Chair: Adrian Pop

15.05-15.30 Philip Hannebohm and Bernhard Bachmann (University of Applied Sciences Bielefeld, Germany)
• Symbolic Manipulation on Operator Records

15.30-15.55 Francesco Casella and Adrien Guironnet (Politecnico di Milano, Italy and RTE, France)
• Experimenting OMC and --daeMode with large-scale grid models: status and perspectives

15.55-16.20 Karim Abdelhak and Bernhard Bachmann (University of Applied Sciences Bielefeld, Germany)
• Efficient Handling of Arrays in the New Backend

16.20-16.50 Panel Discussion Chairs: Lena Buffoni and Lennart Ochel
• Future Directions of OpenModelica – Next 5 years and Next 20 years

16.50-17.00 Coffee Break

17.00-18.00 Open Source Modelica Consortium Annual Statutory Meeting