



1st European Nanofabrication Research Infrastructure Symposium - ENRIS 2017



Preliminary programme:

Sunday 7

- 20:00 Organ concert in Nidaros Cathedral
 20:30 Welcome reception in To Tårn Cafe

Monday 8

- 09:00 09:10 *Welcome*
 Anne Borg, Dean of the Faculty of Natural Sciences, NTNU

Session 1: National Networks

- Chair: Nils Nordell, Electrum Laboratory, KTH, Sweden
- 09:10 09:55 *30 years of cleanroom operation at IMEC, history and main learnings*
 Hans Lebon, Executive Vice President FAB and ICS, IMEC, Belgium
- 09:55 10:10 *The Australian National Fabrication Facility, Lessons from the First 10 Years*
 Rosie Hicks, Australian National Fabrication Facility, Melbourne, Australia
- 10:10 10:15 *Presentation of "Renatech", the French network of academic microfabrication clean-rooms*
 Hugues Granier¹, LAAS-CNRS, Université de Toulouse, CNRS, Toulouse, France
- 10:15 10:20 Nanolab NL
 Janneke Hoedemaekers, University of Twente, The Netherlands
- 10:20 10:25 *MICRONANOFABS: A Spanish Open Integrated Micro and Nano Fabrication Distributed Facility*
 Manuel Lozano, Microelectronics National Center IMB-CNM (CSIC), Spain
- 10:25 10:30 The Nordic Nanolab Network
 Thomas Swahn, Myfab, Sweden
- 10:30 10:35 *A Coordinated Research Infrastructure for Nanotechnologies: the EuroNanoLab Research Infrastructure project*
 Michel de Labacherie, French National Centre for Scientific Research, CNRS, France
- 10:35 11:00 **Coffee**

Session 2: Sustainability

- Chair: Janneke Hoedemaekers, MESA+, University of Twente, The Netherlands
- 11:00 11:15 *Sustainability challenges for university based core facility*
 Jens Müller, Technische Universität Ilmenau, Germany
- 11:15 11:30 *Implementing an ISO 9001-based QMS to a Research Cleanroom Infrastructure: The Main Challenges*
 Margaret Costa, International Iberian Nanotechnology Laboratory (INL), Braga, Portugal
- 11:30 11:45 *Extension of Cleanroom Systems Lifetime through Machine Virtualization*
 Adelino Correia, International Iberian Nanotechnology Laboratory (INL), Braga, Portugal
- 11:45 12:00 *OtaNano – Multi-owner, multi-user research infrastructure*
 Mika Koskenvuori, Aalto University, Finland
- 12:00 13:00 **Lunch**



Session 3: Laboratory information systems

- Chair: Klaus Magnus Johansen, UiO MiNaLab, Norway
- 13:00 13:15 *WebFabIS, the information system of FBK cleanrooms*
Lorenza Ferrario, Fondazione Bruno Kessler, Italy
- 13:15 13:30 *Tailored equipment management and booking system ARBuS*
Arne Albrecht, Technische Universität Ilmenau, Germany
- 13:30 13:45 *Myfab LIMS – Software development through collaboration*
Peter Modh, Chalmers University of Technology, Sweden
- 13:45 14:00 *Ballance score card*
Jörg Hübner, DTU Danchip, Denmark
- 14:00 14:30 Coffee**

Session 4: Financing models and pricing

- Chair: Thomas Swahn, Myfab, Sweden
- 14:30 15:15 *Fabfee system and financing model at MIT's MTL fabs*
Vicky Diadiuk, MIT Microsystems Technology Labs, USA
- 15:15 15:30 *Norwegian national cost model for research infrastructures*
Lise Sagdahl, NTNU, Norway
- 15:30 15:45 *Core facility tool prices based on hourly rates*
Anders Jörgensen, DTU Danchip, Denmark
- 15:45 16:00 *Investment planning at NTNU NanoLab*
Kay Gastinger, NTNU NanoLab, Norway
- 16:00 16:15 *Discussion*
- 16:30 17:30 Tour of NTNU NanoLab**

- 19:00 Departure of boat to Munkholmen for Conference Dinner**



Tuesday 9

Session 5: Efficiency

- Chair: Ida Noddeland, NTNU NanoLab, Norway
- 09:00 09:45 *How to deal with cross-contamination in a multi-application cleanroom*
Christiaan Bruinink, MESA+ NanoLab, University of Twente, The Netherlands
- 09:45 10:00 *Et saving*
Graeme Maxwell, Tyndall Central Fabrication Facility, Ireland
- 10:00 10:15 *Nitrogen savings on process equipment*
Leif Johansen, DTU Danchip, Denmark
- 10:15 10:30 *Discussion*
- 10:30 11:00 Coffee**

Session 6: Community interaction / innovation

- Chair: Heini Saloniemi, VTT, Finland
- 11:00 11:15 *Public-private collaboration at Park Innovaare's new clean room facility*
Martin Bednarzik, Paul Scherrer Institute, Laboratory for Micro- and Nanotechnology, Switzerland
- 11:15 11:30 *The Excellence Centre of Advanced MATERIAL Research and Technology Transfer CAMART²*
Andris Anspoks, Institute of Solid State Physics, University of Latvia, Lithuania
- 11:30 11:45 *Fostering Innovation and Working with Companies*
Nils Nordel, Electrum Laboratory, KTH, Sweden
- 11:45 12:00 *Wrap up*
Jörg Hübner, DTU Danchip, Denmark
- 12:00 Lunch**

For questions please consult www.enris.eu
or contact

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