

June 12, 2017

IV-KT Undervisningslab, Gløshaugen, NTNU

Trondheim Norway



HEAT TRANSFER Seminar Norway

Heat transfer and thermal management in micro- and nano systems

- To foster knowledge of micro and nanoscale heat transfer in industry and academia
- To build network between industry and academia
- To promote joint research projects on an European scale

Please register to:

Jianying He, NTNU, jianying.he@ntnu.no

Helge Kristiansen, Conpart AS, helge@conpart.no

Web: <https://www.ntnu.edu/nml/heat-transfer-seminar-norway>

PROGRAM

Undervisningslab, MTI-building 1-132, Norwegian University of Science and Technology (NTNU)
Richard Birkelands Vei 1A, 7034, Trondheim, Norway

09:00-15:30, Monday, June 12

09:00	Welcome — <i>Prof. Jianying HE</i>
09:10	Opening remarks — <i>Dr. Olivier CHAPUIS</i>
Chairman	<i>Prof. Helge KRISTIANSEN</i>
09:20	<i>Prof. Oleg KOLOSOW, Department of Physics, Lancaster University, UK</i> Measurements of nanoscale thermal properties of materials via Scanning Thermal Microscopy (SThM): Challenges and solutions
09:50	<i>Dr. Emigdio CHAVEZ-ANGEL, Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain</i> Thermal transport in Silicon-based phononic crystals
10:20	Coffee Break
10:40	<i>Dr. Olivier CHAPUIS, Centre for Energy and Thermal Sciences, Lyon (CETHIL) – CNRS, INSA Lyon, France</i> Subdiffusive phonon thermal transport
11:10	<i>Prof. Signe KJELSTRUP, Department of Chemistry, NTNU, Norway</i> Heat transport through a solid-solid junction and its dependence on the direction of transport
11:40	Lunch
12:20	Photo time and visit NTNU Nanomechanical Lab
Chairman	<i>Prof. Signe KJELSTRUP</i>
13:00	<i>Prof. Helge KRISTIANSEN, Conpart AS and NTNU, Norway</i> Thermal and electrical characterization of conductive adhesives
13:30	<i>Prof. Dag Werner BREIBY, Department of Physics, NTNU, Norway</i> Organic-inorganic interfaces – their structure and thermal properties from an experimentalist's view
14:00	Coffee Break
14:20	<i>Dr. Petr KLAPETEK, Czech Metrology Institute, Czech Republic</i> Graphics card based heat transfer calculations in Scanning Thermal Microscopy
14:50	<i>Dr. Senbo XIAO, Department of Structural Engineering, NTNU, Norway</i> Nanoscale thermal transport by molecular dynamics simulations
15:20	Concluding remarks — <i>Prof. Helge KRISTIANSEN</i>