



NANOLUND

A GREAT PLACE TO DO NANOSCIENCE

Annual Meeting 2017

Why we do Nanoscience: from Fundamental Curiosity to Society's Grand Challenges

7 September 2017, Gasquesalen, Kårhuset, John Ericssons väg 3

08:30 – 09:00 Coffee and registration (LTH Kårhus)

09:00 – 09:50 Heiner Linke: NanoLund update

Session 1: Materials for new science and technologies

09:50 – 10:20 Reine Wallenberg (Centre for Analysis and Synthesis): *What's new in the Material World, and how can we apply it?*

10:20 – 10:35 Hanna Kindlund (Solid State Physics): *Heteroepitaxial growth of zincblende and wurtzite AlSb.*

10:35 – 10:50 Zhaoxia Bi (Solid State Physics): *Development of (In)GaN platelets and their application on LEDs.*

10:50 – 11:00 Group photo

11:00 – 11:30 Coffee break (and posters)

Session 2: Exploring quantum physics

11:30 – 12:00 Stephanie Reimann (Mathematical Physics): *Quantum physics at Nanolund - past, present, future.*

12:00 – 12:15 Gediminas Kirsanskas (Mathematical Physics): *Modeling of transport in quantum dots using quantum master equations.*

12:15 – 12:30 Artis Svilans (Solid State Physics): *Quantum Dot Based Particle-Exchange Heat Engines Operating Near Thermodynamic Efficiency Limits.*

12:30 – 13:30 Lunch (and posters)

Session 3: Tools for new biology and diagnostics

13:30 – 14:00 Jonas Tegenfeldt (Solid State Physics): *Nano and micro-technology for biology and medicine.*

14:00 – 14:15 Jonas Jakobsson (Ergonomics and Aerosol Technology): *Using airborne nanoparticles to gain information about the human lung: AiDA, Airspace Dimension Assessment.*

14:15 – 14:30 Regina Schmitt (Solid State Physics): *Single-molecule experiments with optical tweezers.*

14:30 – 14:45 Christina Isaxon (Ergonomics and Aerosol Technology) and Jonas Borell (Ergonomics and Aerosol Technology): *Risk management at NanoLund.*

14:45 – 15:15 Coffee/refreshments (and posters)

15:15 – 15:25 Frida Lindberg and Regina Schmitt (NanoLund PhD student representatives): *Information on NanoLund activities by and for PhD students.*

15:25 – 15:30 Ivan Maximov: *NFFA – opportunities for financed collaborations.*

To be continued →



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Session 4: Nanoenergy research: starting from fW, aiming for GW

15:30 – 16:00 Magnus Borgström (Solid State Physics): *Nanoenergy in Lund.*

16:00 – 16:15 Jovana Colvin (Synchrotron Radiation Physics): *Photovoltaic characterization of individual nanowires in the scanning tunneling microscope.*

16:15 – 16:30 Kenneth Wärnmark (Centre for Analysis and Synthesis): *Iron-carbene complexes - towards a revolution in solar energy technology?*

16:30 – 18:00 Posters and pre-dinner drink

18:30 - Dinner (Lilla salen, AF borgen, Sandgatan 2)