NanoLund Annual meeting 10th October 2019

Scandic Star Hotel, Glimmervägen 5, Lund, SWEDEN
Program Chairs: Martin Leijnse and Tommy Nylander

Theme: Where will NanoLund research be in 10 years?

08.30-08.55	Coffee and registration
08.55-09.00	Welcome and opening (Viktor Öwall, Dean of LTH)
09.00-09.40	NanoLund update (Heiner Linke, Director of NanoLund)
09.40-10.20	One-minute pitches for selected Posters on new directions
10.20-10.30	Group photo
10.30-11.00	Coffee break and posters

Session 1: Physics, Electronics and Photonics (Chair: M-E Pistol)

11.00-11.30	Keynote: *Unconventional computing and the future of neuromorphic devices and processors*, Professor Göran Wendin, Chalmers University of Technology, Gothenburg, SWEDEN
11.30-11.45	Irene Geijselaers (Solid State Physics): *2DEG formation in Wurtzite-Zinc-blende InP heterostructures*
11.45-12.00	David Winge (Synchrotron Radiation Research): *How to reconstruct an insect brain navigational circuit using optoelectronic nanowire devices*
12.00-12.15	Pierre-Adrien Mante (Chemical Physics): *How do you put an elephant in a refrigerator? Confining micrometer waves in nanowires*
12.15-12.30	Tönu Pullerits: *Physics, Electronics and Photonics at NanoLund in 10 years*
12.30-13.40	Lunch and posters

Session 2: Materials and Energy (Chair: Reine Wallenberg)

13.40-14.10	Keynote: *Insight and Future Outlook for Metal Halide Perovskites*, Dr Eva Unger, Helmholtz Zentrum Berlin, GERMANY
14.10-14.25	Enrique Barrigon (Solid State Physics), *III-V nanowire-based solar cells for space applications*
14.25-14.40	Carina Babu Maliakkal (Center for analysis and synthesis), *Layer-by-layer growth of GaAs nanowires studied in situ*
14.40-14.55	Zhaoxia Bi (Solid State Physics), *Synthesis of submicrometer (In)GaN platelets and applications to full visible color light emitting diodes*
14.55-15.10	Magnus Borgström: *Materials and Energy at NanoLund in 10 years*
15.10-15.50	Coffee break and posters

Session 3: Life Sciences and Nanosafety (Chair: Christina Isaxon)

15.50-16.20	Keynote: *Why we need nanoscience to tackle complexity in living systems*, Professor Joachim Rädler, Ludwig-Maximilians-Universität München, GERMANY
16.20-16.35	Karin Lovén (Ergonomics and Aerosol Technology), *Engineered nanoparticle exposures at the cellular air-liquid-interface*
16.35-16.50	Enming Zhang (Diabetes Centre), *Regulation of cell functions using magnetic nanoparticles controlled by dynamic magnetic generator*
16.50-17.05	Linda Månsson (Physical Chemistry), *Preparation of colloidal molecules, models for anisotropic (bio)colloids*
17.05-17.20	Jonas Tegenfeldt: *Life Sciences and Nanosafety at NanoLund in 10 years*
17.20-17.30	Closing remarks (Anders Mikkelsen, Vice Director of NanoLund)
17.30-19.00	Mingle and posters
19.00-	Dinner