

# Welcome to the 12th CeNano Symposium in Nanoscience and Nanotechnology

Wednesday, December 7, 2016

Lecture hall Visionen, B Building, Campus Valla, Linköping University

## Program

- 8.30-8.35 Welcome
- 8.35-8.55 Theoretical study and attempt of synthesis of boron subnitride and boron subcarbonitride *Laurent Souqui and Annop Ektarawong*
- 8.55-9.15 High resolution graphene based gas/liquid sensor platform *Valdas Jokubavicius and Manuel Bastuck*
- 9.15-9.35 Correlating performance of organic solar cells with nanostructures of active layer via studying the cross-sections of devices with SEM *Yingzhi Jin and Pimin Zhang*
- 9.35-9.55 Exploring 2D topological insulating phase in surface functionalized MXene for spin-sensitive optoelectronic applications *Yuqing Huang and Quanzheng Tao*
- 9.55-10.15 Coffee
- 10.15-10.35 Single-phased and nanostructured thin  $\text{CaMnO}_3$  films for thermoelectric and fuel cell applications *Johan Klarbring and Erik Ekström*
- 10.35-10.55 Thermoplasmonic hydrogels for controlled cell adhesion and cell patterning *Ranjithkumar Ravichandran and Mina Shiran Chaharsoughi*
- 10.55-11.15 Towards studying self-limiting surface chemistry by in situ spectroscopic ellipsometry *Hama Nadhom and Viktor Elofsson*
- 11.15-11.35 Interfacial coherency and strength in nanostructured nitrides *Naureen Ghafoor*
- 11.35-11.55 Polymorphic self-organized multiple quantum wells in III-N nanorods *Mathias Forsberg and Alexandra Serban*
- 11.55-12.15 Snapshot on cell response on nanoparticles as a function of size, shape and surface density to capture the moment of initial immune response *Andreas Skallberg, Rickard Gunnarsson and Sebastian Ekeröth*

12.15-13.00 Lunch

13.00-13.45 Invited talk: Processing of nanocellulose and its use in composite materials  
*Professor Kristiina Oksman, Div of Materials Science, Dept of Engineering Sciences and Mathematics, Luleå University of Technology.*

13.45-14.05 Supramolecular coiled coil-based hybrid hydrogels for 3D cell culture of primary liver cells *Christopher Aronsson and Jonas Christoffersson*

14.05-14.25 Experimental characterization and theoretical modelling of the antioxidant/ catalytic properties of cerium oxide nanoparticles *Peter Eriksson and Alexey Tal*