



Programme:

The 6th Annual NTNU NanoLab Meeting

Highlighting nanoscience and nanotechnology

November 16th 2011

Lecture Hall MTA at the Medical Faculty

SESSION 1. Chair Bjørn Torger Stokke

- 08:30 *Welcome*
Bjørn Torger Stokke
Financial support through the Norwegian PhD Network on Nanotechnology for microsystems and NorFab
- 08:35
Sigrid Berg and Kay Gastinger
- 08:45 *Ultrasound enhanced delivery of nanoparticles*
Catharina Davies
- 09:05 *Nanosized capsules for future medication and diagnostics*
Per Stenstad
- 09:20 *Application of Focused Ion Beam (FIB) and Scanning Electron Microscope (SEM) to characterisation of biomaterials, cells and tissues*
Ken Roger Ervik
- 09:35 *Nanofabrication of GaAs nanowire optoelectronic devices in NanoLab*
Dong Chul Kim
- 09:50 *Wet Chemical Synthesis of Silicon Quantum Dots for Photovoltaic Applications*
Mustafa Balci

10:05 COFFEE and POSTERS

SESSION 2. Chair Øyvind Halaas

- 10:35 *Centre and Periphery of Nano*
Rune Nydal
- 10:55 *Single molecule force spectroscopy of glycoprotein interactions.*
Marit Sletmoen
- 11:10 *Crystal phase and position control of self-catalyzed GaAs nanowires grown on a Si substrate*
Mazid Munshi
- 11:25 *Teaching old proteins new tricks*
Wilhelm Glomm

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Norges teknisk-naturvitenskapelige universitet**11:40 LUNCH in "Laboratoriesenteret" St. Olavs Hospital****SESSION 3. Chair Catharina Davies**

- 12:30 *Multifunctional molecular tools for spectroscopic imaging diagnostics of amyloid states*
Mikael Lindgren
- 12:50 *Nanoscale control of mineral deposition within polysaccharide gel networks*
Pawel Sikorski
- 13:05 *Cell impalement on transparent arrays of vertically aligned nanowires*
Kai Müller Beckwith
- 13:20 *Use of NanoLab in biomedicine, examples from immunology*
Øyvind Halaas
- 13:35 *Formation of Polymer Particles using Microfluidics*
David Barriet

13:50 COFFEE and POSTERS**SESSION 4. Chair Thomas Tybell**

- 14:20 *Nanomechanical modeling and testing of biological materials including medical applications*
Christian Thaulow
- 14:35 *Mechanical properties of carbon nanocoils*
Jianyang Wu
- 14:50 *Cross-sectional Electron Microscopy characterization of the interface between GaAs Nanowires and a Si Substrate*
Vidar Tonaas Fauske
- 15:05 *Optical characterization of single semiconductor nanowires*
Lyubomir Ahtapodov
- 15:20 *Crossover From Spin-Flop Coupling to Colinear Spin-Alignment in Antiferromagnetic/Ferromagnetic Nanostructures*
Erik Folven
- 15:35 *Composition analysis of heterostructured GaAs nanowires with quantitative HAADF-STEM*
Hanne Hauko
- 15:50 *Closing Remarks*
Kay Gastinger