

Detailed Program

Wednesday, June 21st

11:00 *Registration and coffee. Mingling*

11:30 *Lunch & stands*

12:15 Welcome

Session 1 - chair: Knut Aasmundtveit. USN

12:30 Invited international talk: The Development of Hyperspectral Cameras - Potato grading and all the light we cannot see
Bjarke Jørgensen. Newtec

13:15 Contributed talk: Cholesterol gallstone ultrastructure revealed using X-ray phase contrast and diffraction tensor tomography
Ingvild Uri Hageberg. NTNU

Contributed talk: Coherent X-Ray Diffraction Imaging to Study Effect of Additives on Crystallization of Calcium Carbonate Microparticles
Daniyal Younas. NTNU

Contributed talk: Accelerating the development of new silicon-based anode materials
Marte Skare. IFE

13:55 Invited national talk: Fourier-ptychographic microscopy: achievements and applications
Muhammad Nadeem Akram. USN

14:15 *Coffee*

Session 2 - chair: Nicolai Winter-Hjelm. NTNU

14:40 Industry talk: MEMS Tech
Sissel Jacobsen. Safran Sensing Technologies

15:00 Contributed talk: Low-temperature Cu-(Sn-Bi) Solid Liquid Interdiffusion Bonding – An initial study
Lisette H. Gonzalez. USN

Contributed talk: FT-IR Studies of Hydrogen Species in Si Wafers and Solar Cell Structures
Nicole Assman. UiO

Contributed talk: Dye-sensitized solar cell using natural dye extracted from *Mussaenda erythrophylla* flowers
Rajaramanan Tharmakularasa. HVL

15:40 Invited national talk: Primary realisation of radiant power by photodiodes with record-low internal quantum deficiency and new self-calibrating methods in the chipS·CALe project
Jarle Gran. Justervesenet

16:00 Industry talk: Value-Driven Sustainability: Unlocking Relevance in the Future of Green Transformation
Eva Helen Rognskog. Techni

Poster pitch - chair: Avisek Roy. USN

16:20 Posters 1-16 (60s per poster)

16:40 Poster session 1 with refreshments/Tour of USN MSTLab

19:30 *Dinner & social program*

Thursday, June 22nd

Session 3 - chair: Katherine Zürbes. NTNU

09:00 Industry talk: Conductive Adhesive; A Lead Free Alternative for PV Energy
Helge Kristiansen. Conpart

09:20 Industry talk: Nanomaterials and nanofabrication for supercapacitors of
improved energy density
Xuyuan Chen. nanoCaps

09:45 Contributed talk: Observation and control of charged antiferroelectric domain
walls in $K_3[Nb_3O_6(BO_3)_2]$
Ivan Ushakov. NTNU

Contributed talk: Green hydrogen production from pure and salt water using
 NiS_2/TiO_2 photocatalysts
Sivagowri Shanmugaratnam. HVL

10:10 Invited national talk: Microscopy based on photonic chips giving ultra-wide field
of view in super resolution and diffraction limited mode
Jon Kristian Hagene. Chip NanoImaging

10:30 *Coffee*

Session 4 - chair: Håkon Røst. UiB

11:00 Industry talk: TBA
Gunnar Maehlum. IDEAS

11:20 Contributed talk: Calibration of photolithographic grayscale masks for accurate
profile control
Angelos Bouchouri. USN

11:35 Infrastructure presentation: USN MSTLab, a node of Norfab, the Norwegian
infrastructure for Micro and nanotechnology
Ole Henrik Gusland. USN

12:00 *Lunch & stands*

Session 5 - chair: Oliver Vanderpoorten. UiT

12:45 Industry talk: MEMS devices in medical ultrasound
Helge Grinde, GE Vingmed Ultrasound

13:05 Contributed talk: Tailored anisotropic gold nanoparticles through tuning the
seedmediated growth solution chemistry
Katharina Zürbes. NTNU

Contributed talk: Changing domain wall conductance in $ErMnO_3$ by oxygen off-
stoichiometry
Leonie Richarz. NTNU

13:30 Invited national talk: Ferroelectric and multiferroic domain walls for
nanotechnology
Dennis Meier. NTNU

13:50 Contributed talk: Conformable neural electrodes for interfacing the peripheral
nervous system
Jairo Ramirez-Sarabia. USN

Contributed talk: Novel 3D interfaces with embedded nanoporous
microelectrodes for preclinical neuroscience research

Nicolai Winter-Hjelm. NTNU

14:15 *Coffee*

Session 6 - chair: Erik Johannessen. USN

14:40 Industry talk: Sensor-to-API

Solrun Lid & Sindre Sjøpstad. Zimmer & Peacock

15:00 Poster pitch 2: Posters 17-27,33 (60s per poster)

15:20 Poster session 2 with refreshments/Tour of USN MSTLab

17:45 Leave for Åsgårdstrand (44 minutes by foot)

18:26 Public bus to Åsgårdstrand (arriving 18:34)

18:40 Munch tur, meet at Grand Hotel Åsgårdstrand

20:00 *Conference Dinner*

Friday, June 23rd

Session 7 - chair: Hamed Salmani. USN

09:00 Invited international talk: Micro-engineering for seamless electrode-neuron

Maria Asplund. Chalmers University of Technology

09:45 Contributed talk: Quantum well Rashba splitting in Sb monolayer on Au(111)

Jinbang Hu. NTNU

Contributed talk: Atomically Sharp and High-Density Sb Doping in Si for use in
Quantum Devices

Simon Cooil. UiO

10:10 Industry talk: Micro- and nanotechnologies for space

Tormod Haugen. Kongsberg Space & Surveillance

10:30 *Coffee*

Session 8 - chair: Simon Cooil. UiO

11:00 Industry talk: Sensor packaging and stability

Åsmund Sandvand. Memscap

11:20 Invited national talk: Nanosafety: Towards Safer and Sustainable by Design

Nanomaterials

Mihaela-Roxana Cimpan. UiB

11:40 Industry talk: TBA

John Inge Waage & Hans Normann. Kongsberg Discovery

12:00 *Lunch & stands*

12:45 Industry tours: Zimmer & Peacock/poLight/Techni

14:00 Industry tours: Memscap/Safran

15:30 *End*