Free-access online symposium on May 11, 2021

Nanotechnology and Innovation in Gothenburg

Sweden has a long tradition of comprehensive support for research and development and is currently well ahead of the rest of Europe in terms of investment. Accordingly, the Scandinavian country has been one of the world leaders in research, innovation, technology and competitiveness for years. It is no wonder that the country holds a particularly strong position in the field of nanotechnology. The city of Gothenburg with its two universities plays a key role in this field. Together with Prof. Dr. Dmitriev from the University of Gothenburg and Prof. Dr. Klement from Chalmers University of Technology, we present the activities of these two universities in the field of "Nanotechnology and Innovation" in this symposium, stimulate interesting discussions and encourage joint activities.

Join us for exciting talks and discussions!

Please register online: **gothenburg21.nina-sh.de**

Moderation
Prof. Dr. Alexandre Dmitriev*, Department of Physics, University of Gothenburg*
Prof. Dr. Uta Klement*, Materials and Manufacture, Department of Industrial and Materials Science, Chalmers University of Technology*

Program on May 11, 2021

13:00 CEST
Greeting
Prof. Dr. Franz Faupel, *Chairman North German Initiative Nanotechnology Schleswig-Holstein e.V./ Chair for Multicomponent Materials, Kiel University*

13:05 CEST
Research and innovation in the Gothenburg area
Dr. Fredrik Hörstedt**,** *Vice President of Utilisation at Chalmers University of Technology*

13:15 CEST
Nanotech for superconductor-based quantum computers at the Wallenberg Center for Quantum Technology
Prof. Dr. Jonas Bylander*, Department of Microtechnology and Nanoscience MC2, Chalmers University of Technology*

13:40 CEST
Photonics, Brain Connectivity, Deep Learning, and Entrepreneurship at GU Physics
Prof. Dr. Giovanni Volpe, *Department of Physics, University of Gothenburg*

14:05 CEST **In situ electron microscopy for site-specific correlation between atomic structure and properties**
Prof. Dr. Eva Olsson, N*ano and Biophysics, Department of Physics, Chalmers University of Technology*

14:30 CEST
Unveiling the secret of surfaces generated in hard machining
Dr. Seyed Hosseini, *RISE Research Institutes of Sweden and Chalmers University of Technology*
Prof. Dr. Uta Klement, *Materials and Manufacture, Department of Industrial and Materials Science, Chalmers University of Technology*

14:55 CEST
Coffee Break

15:15 CEST
Managing visible light at the nanoscale – ultrafast magnetic hard-drives, warm solar windows and **more.**
Prof. Dr. Alexandre Dmitriev*, Department of Physics, University of Gothenburg*

15:40 CEST
2D material-based technology for industrial applications – 2D-TECH
Prof. Dr. Samuel Lara-Avila, *Microtechnology and Nanoscience, Chalmers University of Technology*

16:05 CEST
Biomimetic Design of Medical Devices
Prof. Dr. Martin Andersson, *Chemistry and Chemical Engineering, Applied Surface Chemistry, Chalmers University of Technology*

16:30 CEST
Nanotech-tailored metal additive manufacturing
Prof. Dr. Lars Nyborg, *Department of Industrial and Materials Science*, *Chalmers University of Technology*
Adj. Prof. Dr. Karin Frisk, Höganäs AB and *Department of Industrial and Materials Science*, *Chalmers University of Technology*

16:55 CEST
Wrap up and Closing

Organization:

Prof. Dr. Alexandre Dmitriev	**Prof. Dr. Uta Klement**	**Dr. Christian Ohrt**
University of Gothenburg	*Chalmers University of Technology*	*NINa SH e.V.*
More information…	More information …	More information …

Contact: Dr. Christian Ohrt | E-Mail: ohrt@nina-sh.de