

Joint Workshop on Nano-Characterisation

Utrecht (De Witte Vosch, Oudegracht 46), 28 October 2019

4TU.High-Tech Materials

together with the Materials Innovation Institute (M2i)

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To be able to develop novel, high-tech materials for sustainable applications, a thorough understanding of materials on the nanoscale is crucial. This workshop aims to bring together scientists and industrial partners with interest and expertise on nano-characterisation throughout the different types of materials, techniques and processes for an exchange of ideas and observations.

Speakers

- Prof.dr. Holger Schönherr, Physical Chemistry, Universität Siegen
- Dr. Nicolas Gauquelin, Physics, University of Antwerp
- Dr. Michael Herbig, Materials Science of Mechanical Contacts, MPIE
- Prof.dr. Kobus Kuipers, Quantum Nanoscience, TU Delft
- Prof.dr. Joris Dik, Materials Science and Engineering, TU Delft
- Dr. Sissi de Beer, Materials Science and Technology of Polymers, UTwente
- Hanne van der Kooij MSc., Physical Chemistry and Soft Matter, WUR
- Dr. Roderick Tas, Self-Organizing Soft Matter, TU/e
- Dr.ir. Jacob Hoogenboom, Imaging Physics, TU Delft

Posters

- Dr. Amir Mirza Gheytaghi, Microelectronics, TU Delft
Poster title: *Nano-characterization of coated CNT pillar*
- Jianing Li MSc., Physics of Nanostructures, TU/e
Poster title: *Imprint lithography defined magnetic nanoplatelets for cancer treatment and biomedicine*
- Dr. Oleg Kurnosikov, Physics of Nanostructures, TU/e
Poster title: *Exploring a subsurface in metals with STM*



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Joint Workshop on Nano-Characterisation

10.00	Welcome and coffee
10.25 - 10.30	Introduction Prof.dr.ir. Jilt Sietsma (scientific director 4TU.HTM) Materials Science and Engineering, 3mE, Delft University of Technology
10.30 - 11.00	Prof.dr. Holger Schönherr (Universität Siegen) <i>Probing hidden interfaces and nanoenvironments in polymeric nanostructures and nanobubbles by combined optical-force microscopy methods</i>
11.00 - 11.30	Dr. Sissi de Beer (UTwente) <i>Nanoscale Subsurface Morphologies in Block Copolymer Thin Films Revealed by Combined Near-Field Infrared Microscopy and Mechanical Mapping</i>
11.30 - 12.00	Dr. Roderick Tas (TU/e) <i>Nanoscopy at the interface: from materials to ice</i>
12.00 - 12.15	Short poster presentations by <ul style="list-style-type: none"> • Amir MirzaGheytaghi (TU Delft) <i>Nano-characterization of coated CNT pillar</i> • Jianing Li (TU/e) <i>Imprint lithography defined magnetic nanoplatelets for cancer treatment and biomedicine</i> • Oleg Kurnosikov (TU/e) <i>Exploring a subsurface in metals with STM</i>
12.15 - 13.00	Lunch and posters
13.00 - 13.30	Dr. Michael Herbig (Max-Planck-Institut für Eisenforschung) <i>Joint Nanoscale Structural and Chemical Characterization by Correlative Atom Probe Tomography and Transmission Electron Microscopy</i>
13.30 - 14.00	Dr. Nicolas Gauquelin (University of Antwerp) <i>Nanocharacterisation of materials with modern TEM techniques</i>
14.00 - 14.30	Hanne van der Kooij MSc (WUR) <i>Imaging the nanoscale dynamics and mechanics of complex soft materials</i>
14.30 - 15.00	Break and posters
15.00 - 15.30	Prof.dr. Kobus Kuipers (TU Delft) <i>NanoOptics – breaking the diffraction limit to visualize the flow of light in nanophotonic devices</i>
15.30 - 16.00	Prof.dr. Joris Dik (TU Delft) Topic: Smart*Light
16.00 - 16.30	Dr.ir. Jacob Hoogenboom (TU Delft) <i>Zooming in on tissue from millimeters to nanometers with multi-modal microscopes</i>
16.30 - 17.30	Closure & Drinks

All information online: <https://www.4tu.nl/htm/en/events/workshop-on-nano-characterisation/>

