

Scope

The 5th Dresden Nanoanalysis Symposium will provide a forum for presenting current research and for discussions of future developments related in the field of materials characterization, represented by invited talks and poster sessions. In addition, we will offer to visit institutes. In this year, the symposium will have the particular motto: "In-situ Microscopy".

Invited Speakers

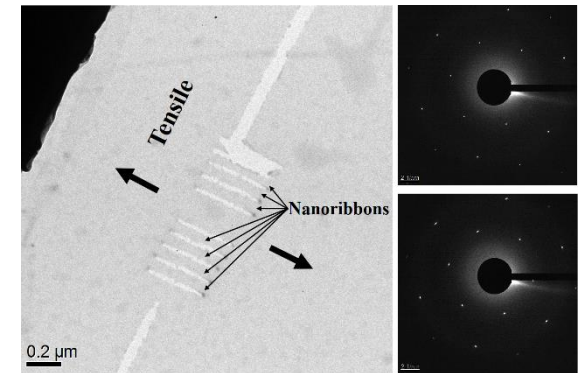
- Jaroslav Klima, Tescan Orsay Holding, Brno, Czech Republic
- Tofail Syed, University of Limerick, Ireland
- Thomas Chudoba, ASMEC Dresden, Germany
- Mathias O. Mosig, Protochips, Morrisville/NC, USA
- Olivier Thomas, University Marseille, France
- Horst Borrmann, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany
- Gisela Schütz, Max-Planck Institute for Intelligent Systems, Stuttgart, Germany
- Gerd Schneider, Helmholtz Center Berlin, Germany
- Wenbing Yung, Sigray, Concord/CA, USA
- Thomas LaGrange, EPFL Lausanne, Switzerland
- Robert Sinclair, Stanford University, Palo Alto/CA, USA
- Jerzy Morgiel, Institute of Metallurgy and Materials Science, Academy of Science, Krakow, Poland
- Andrey Chuvelin, CIC nanoGUNE, San Sebastian, Spain
- Rafal E. Dunin-Borkowski, Ernst Ruska Center for Microscopy, Jülich, Germany
- Erdmann Spiecker, University Erlangen-Nürnberg, Germany

Topics

- New methods for the mechanical characterization of surfaces and coatings: nanoindentation and nano-focused synchrotron X-ray diffraction
- New challenges in high-resolution diffraction
- Scanning X-ray microscopy at MAXYMUS combining chemical, magnetic, depth and temporal sensitivity
- Nanoanalysis with soft X-ray microscopes
- Laboratory X-ray technology enabling synchrotron capabilities in home-labs
- Exploring nanoscale material processes with nanosecond time-resolved electron microscopy as well as using electrons, X-rays and scanning probes
- Protochips™ in-situ Electron Microscopy Solutions
- Recent considerations and applications of in-situ, environmental TEM
- Accessing reaction kinetics via direct imaging of atoms
- Towards atomic resolution magnetic imaging of nanoscale materials in the TEM
- Infrared spectro-microscopy
- And many more

5th Dresden Nanoanalysis Symposium

"In-situ Microscopy"



Courtesy Z. Liao, In-situ TEM studies on graphene nanoribbons

September 1st , 2017

Dresden, Germany

<http://www.nanoanalytik.fraunhofer.de/de/veranstaltungen/5DNS.html>

Conference management:

Innotec21 GmbH

Symposium Chair

Ehrenfried Zschech, Fraunhofer IKTS Dresden and Dresden University of Technology, Germany

Scientific Committee

- Thomas Chudoba, ASMEC, Dresden-Rossendorf (Germany)
- Giovanni Cuniberti, Technische Universität Dresden, Dresden (Germany)
- Reiner Dietsch, AXO Dresden, Dresden (Germany)
- Lukas Eng, Technische Universität Dresden, Dresden (Germany)
- Narciso Gambacorti, CEA LETI MINATEC, Grenoble (France)
- Wolfgang Jäger, University of Kiel (Germany)
- Eckhard Langer, GLOBALFOUNDRIES, Dresden (Germany)
- Andreas Leson, Fraunhofer IWS, Dresden (Germany)
- Malgorzata Lewandowska, Warsaw University of Technology, Warsaw (Poland)
- Rodrigo Martins, UNINOVA, Lisbon, Portugal
- Michael Mertig, Technische Universität Dresden, Dresden (Germany)
- Eva Olsson, Chalmers University of Technology, Gothenburg (Sweden)
- Rainer Rauh, Airbus, München (Germany)
- Gerd Schneider, Helmholtz-Zentrum, Berlin (Germany)
- Robert Sinclair, Stanford University, California (USA)
- Olivier Thomas, University Marseille (France)
- Wilfried Vandervorst, IMEC, Leuven (Netherlands)
- Oden Warren, Hysitron, Minnesota (USA)
- Thomas Weißgärber, Fraunhofer IFAM, Dresden (Germany)

Registration

Registration fee

The registration fee includes technical sessions, lunch and coffee breaks, a tour to the institutes and the abstract booklet. Payment must be received by **August 31**.

- Normal Registration – **Euro 180**
- Students Registration – **Euro 40**
(both including VAT)

Register Now

The number of participants will be limited in order to maintain the intimate atmosphere of the symposium.

For the registration please send an email to: elke.goering@innotec21.de

Call for Papers

One-page abstracts must be received by **June 30, 2017**. Address the abstracts to the member of the local organizing committee:

kristina.kutukova@ikts.fraunhofer.de

Accepted abstracts will be published in the Symposium abstract booklet as submitted.

Conference Contact

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Location

The 5th Dresden Nanoanalysis Symposium venue

Fraunhofer Campus Dresden,
Winterbergstraße 28, 01277 Dresden

Organisation and support

- Dresden Fraunhofer Cluster Nanoanalysis (DFCNA)
- Dresden Center for Nanoanalysis (DCN) at TU Dresden
- European Materials Characterization Council (EMCC)

Organisational committee

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