

Concept and scope

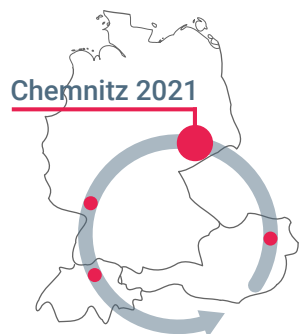


We want to invite you to contribute to the upcoming AOFKA21 conference in Chemnitz July 18-21, 2021, jointly organized by the FKA and AOFA series.

We expect around 200 international scientists working in the field of surface and solid state analytics.

The conference offers hands-on experiments in Raman spectroscopy on Sunday afternoon for young researchers and will have a special focus on "Advances in electron microscopy".

The broadband research activities with a focus on application will be demonstrated by invited and contributed lectures as well as poster presentations.



Scientific committee:

Tegenkamp, C. (Chemnitz, Chair); **Friedbacher, G.** (Wien, Co-Chair); **Bleiner, D.** (Dübendorf); **Denecke, R.** (Leipzig); **Engelmann, H.-J.** (Dresden); **Fröba, M.** (Hamburg); **Gemming, T.** (Dresden); **Goedel, W. A.** (Chemnitz); **Hietschold, M.** (Chemnitz); **Holze, R.** (Chemnitz); **Hutter, H.** (Wien); **Kopnarski, M.** (Kaiserslautern); **Leipner, H. S.** (Halle); **Mayer, J.** (Aachen); **Mücklich, F.** (Saarbrücken); **Müller, K.-H.** (Soest); **Nickel, H.** (Jülich); **Oechsner, H.** (Kaiserslautern); **Pedarnig, J.** (Linz); **Portella, P.** (Berlin); **Schweizer, S.** (Soest); **Seyller, T.** (Chemnitz); **Thien, V.** (Mühlheim); **Vogt, C.** (Freiberg); **Wetzig, K.** (Dresden); **Zahn, D.R.T.** (Chemnitz); **Ziegler, C.** (Kaiserslautern)

Conference details

Organization committee:

Prof. Dr. Christoph Tegenkamp

Analytik an Festkörperoberflächen

Prof. Dr. Thomas Seyller

Technische Physik

Prof. Dr. Dietrich R.T. Zahn

Halbleiterphysik

Secretary:

Ute Vales

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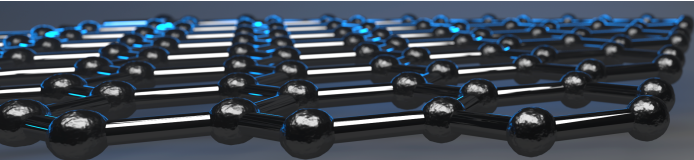
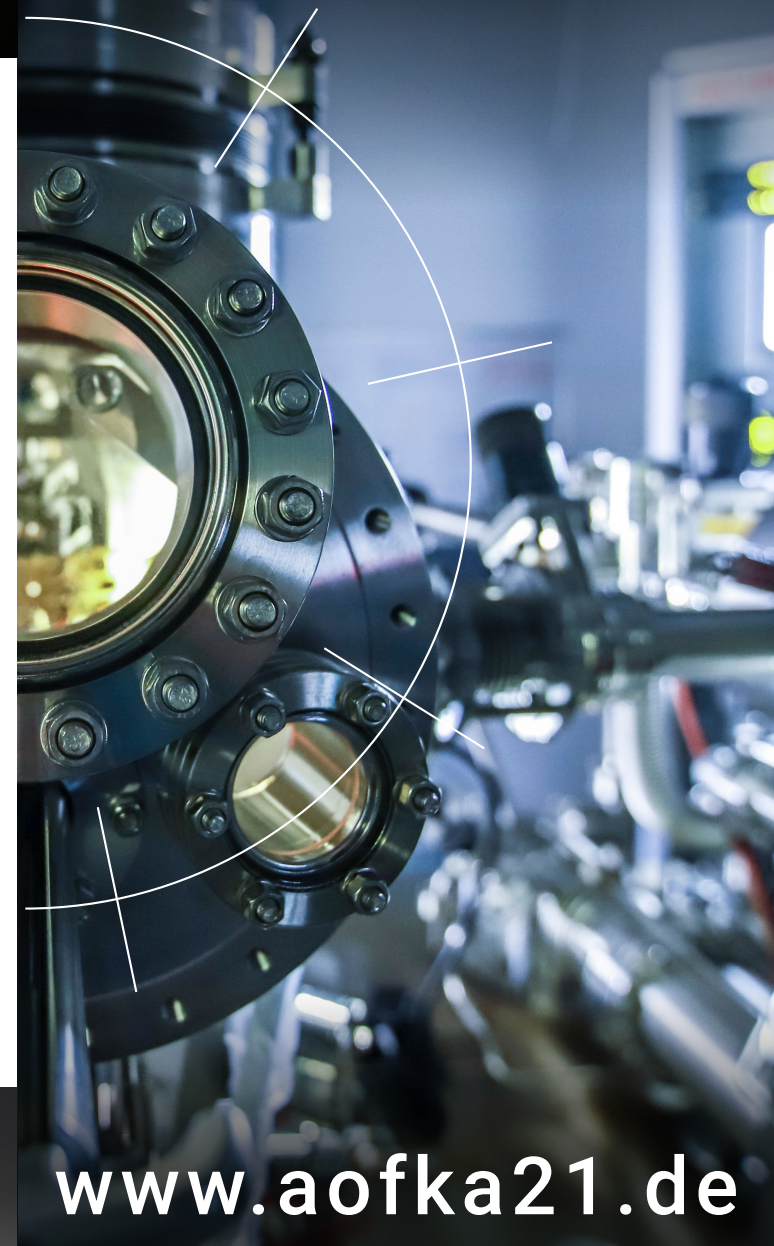
Sponsors/Company Exhibition:



AOFKA

Applied Surface and Solid State Analytics

July 18-21, 2021



Institut für Physik
Reichenhainer Str. 70
09126 Chemnitz

www.aofka21.de

Invited speakers



Andreas Undisz
Universität Jena:
*New Insights into the
early Oxidation Stages of
Metallic Materials
by Transmission
Electron Microscopy*



Margret Wohlfahrt-Mehrens
ZSW Stuttgart:
*Vorstellung des
BMBF-Kompetenz-
clusters Aqua:
Analytik/Qualitätssicherung
für eine nachhaltige Batterie-
fertigung in Deutschland*



Ute Kaiser
Universität Ulm:
*Properties of Low-
dimensional Materials
by Low-voltage TEM*



Eva Olsson
Chalmers Göteborg:
*High Resolution
Correlation between
Atomic Structure and
Properties using
Advanced Transmission Elec-
tron Microscopy*

Christian Papp
FAU Erlangen:
*Catalysis with Liquid
Metal Alloys*



Dietrich R.T. Zahn
TU Chemnitz:
*Exploiting Enhance-
ment Effects in
Raman Spectroscopy*



Klaus Danzer
Universität Jena:
*The Way of Chemo-
metrics*



Paul van der Heide
IMEC Leuven:
*Surface Analysis
Development for
Semiconductor
Applications*



Renato Zenobi
ETH Zürich:
*Tip-enhanced Raman
Spectroscopy for
Nanoscale Chemical
Analysis of Sensitive
2D Materials*



Scientific program

The conference covers all topics related to characterization of solids and their surfaces, including both basic research and technological applications. Main topics are:

- Elemental and compound analysis
- Structural analysis
- Chemical reactions in solids and on solid surfaces
- Dynamic behavior of solids
- Application to material science
- Theoretical and chemometrical aspects
- Quality assurance
- New instruments & methods

The scientific talks will be accompanied by a poster session. The best posters will be awarded.

Please submit your abstract und register for the conference on the conference website:

www.aofka21.de

Abstract submission deadline: 15.01.2021
Registration starts February 2021

Special focus: Advances in electron microscopy



In 2021 the special focus will be put on “**Advances in electron microscopy**”. Ranging from theory over imaging and diffraction to analytic techniques a wide variety of subjects are included. Fundamental topics will be matched by the committee with application related presentations.

Hands-on workshop: Raman spectroscopy



Beginners as well as experienced users are welcome to join this years **workshop on Raman spectroscopy**. Prof. Zahn will provide an introducing lecture and hands-on experience for this technique. Further informations for the participation in this workshop will be announced soon on the conference website.

