

PROGRAM

NanoCarbon Annual Conference 2018

Presentations - Short Pitches - Posters - Exhibits

Cluster
Nanotechnology

February 27th and 28th 2018
University of Würzburg
Germany

NETWORK
NANOCARBON

TUESDAY, FEBRUARY 27TH

- 09:00 Registration
- 10:00 **Start of the conference**
P. Grambow, Nanoinitiative Bayern GmbH, Germany
Opening remarks and short introduction of the Network NanoCarbon

SESSION 1: INDUSTRIALISATION AND COMMERCIALISATION

- Chair:** P. Grambow, Nanoinitiative Bayern GmbH, Germany
- 10:10 I. Kolaric, Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Germany
The role of materials in an increasingly dematerialised economy
- 10:30 M. Lee, GyoRin Inc, Korea
Commercialisation scheme for nanomaterial technology
- 10:50 G. Eberhard, DistriConsult GmbH, Germany
The role of chemical distributors in new business development for specialty additives
- 11:10 S. Bohm, Talga Technologies Limited, UK
Commercial development of graphene based coatings and composites
- 11:30 Poster session / lunch break

SESSION 2: APPLICATIONS FOR AUTOMOTIVE

- Chair:** P. Boulanger, NAWA Technologies, France
- 12:30 A. Nasiri, Nanocyl S.A., Belgium
Synergy of carbon nanotubes with silica and / or carbon black in rubber formulation, specific insight on tire application potential
- 12:50 C. Glanz, Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Germany
Printed functional layers for the use in connected car applications
- 13:10 J. Hofmann, Continental AG, Business Unit Transmission, Germany
Innovative materials vs. automotive requirements – ups and downs from application point of view
- 13:30 Poster session / coffee break

SESSION 3: ENERGY STORAGE

- Chair:** S. Bohm, Talga Technologies Limited, UK
- 14:15 E. Figgemeier, Helmholtz Institute Münster, Germany
Carbon nanotubes in batteries – benefits, hurdles and applications
- 14:35 F. Nedvidek, Business creation adjuvant, Canada
Is there the right battery for every application?
- 14:55 P. Boulanger, NAWA Technologies, France
Open innovation: Manufacturing and functionalisation of VACNTs as electrodes for supercaps
- 15:15 Poster session / coffee break

SESSION 4: SHORT PITCHES

- Chair:** P. Pötschke, Leibniz Institute of Polymer Research Dresden e.V. (IPF), Germany
- 16:00 W. Maser, Instituto de Carboquímica (ICB-CSIC), Spain
M. Morais, Fraunhofer Institute for Chemical Technology ICT, Germany
K. Kunz, Leibniz Institute of Polymer Research Dresden e.V. (IPF), Germany
C. Fink, PerkinElmer, Germany
T. Schubert, Institute of Chemical Process Engineering and Plant Design, TH Köln, Germany
- 17:00 End of the first day

EVENING EVENT - CONFERENCE DINNER

- 18:45 Meeting point **Am Alten Kranen**
Kranenkai, Schiffstouristik Würzburg
(red and yellow ticketbooth)



- 19:00 **Boat trip with conference dinner**
- 22:00 Return to Würzburg

08:30 Poster session / coffee

SESSION 5: PROCESS TECHNOLOGIES AND UPSCALING

- Chair:** C. Hübner, Fraunhofer Institute for Chemical Technology ICT, Germany
- 09:00 U. Köpke, EXAKT Advanced Technologies GmbH, Germany
Synergetic effects during material development with processing machines
- 09:20 V. Lison, Nanocyl S.A., Belgium
Optimisation of production of polypropylene / MWCNT composites
- 09:40 L. Boonen, Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Germany
Digitalisation in electrode manufacturing – towards more efficiency in joined research and small lot size production

10:00 Poster session / coffee break

SESSION 6: SHORT PITCHES

- Chair:** S. Roth, Sineurop Nanotech GmbH, Germany
- 10:45 T. Takatsuka, Thinky Corporation, Japan
G. v. Kerckhove, OCSiAl Europe, Luxembourg
J. Blanco Villalba, Fraunhofer Institute for Chemical Technology ICT, Germany
D. Nemeč, Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Germany
- Slot for a short pitch available – apply now!*

11:45 Poster session / lunch break

SESSION 7: MEASUREMENT AND SAFETY

- Chair:** H. Meyer, Nanoinitiative Bayern GmbH, Germany
- 12:45 J. Heindl, JEOL (Germany) GmbH, Germany
Characterisation of carbon materials in the electron microscope
- 13:05 D. Broßell, Bundesanstalt für Arbeitsschutz und Arbeitsmedizin BAuA, Germany
A new risk grouping concept for high aspect ratio materials – the shaker dustiness test
- 13:25 Poster session / coffee break

SESSION 8: GRAPHENE BASED APPLICATIONS

- Chair:** J. Helbig, Technische Hochschule Nürnberg Georg Simon Ohm, Germany
- 14:00 D. Carroll, Wake Forest University, USA
Ultrathin, washable, and large-area graphene papers for personal thermal management
- 14:20 T. Schubert, IoLiTec-Ionic Liquids Technologies GmbH, Germany
GRAFAT – Graphene for functionalisation of advanced textiles – flame retardancy
- 14:40 F. Torrisi, University of Cambridge, UK
Graphene and two-dimensional material inks enabling printed and wearable electronics
- 15:00 B. Münzing, The Sixth Element, China
Industrial usage of graphene in coatings: enhancing corrosion protection
- 15:20 **Poster award**
- 15:30 **Short coffee break**

STATUS MEETING

- 15:50 Regular meeting of the Network NanoCarbon
Open to the public
- 17:00 **End of the meeting / end of the conference**



NanoCarbon Annual Conference. Photo: Nanoinitiative Bayern GmbH.

PROFILE OF THE CONFERENCE

For the 4th time the Network NanoCarbon invites to the Annual Conference in Würzburg, Germany. The conference offers an open forum to the interested community for exchanging results and ideas. It is the most important communication platform for innovative and commercial activities in the field of carbon nanomaterials within Germany and beyond. This year, speakers from 11 countries will present current applications and processing technologies for carbon nanomaterials. The event particularly addresses industry delegates seeking new trends and partners for cooperations. In the open Network NanoCarbon national and international partners work closely together to develop innovative nanocarbon products for the market.

CONFERENCE VENUE



University of Würzburg
Audimax
Sanderring 2
D-97070 Würzburg

Directions: <https://wueaddress.uni-wuerzburg.de/building/1121>

CONFERENCE FEES - EARLY BIRD PRICES

Two-day conference with evening event on February 27th:
Conference dinner with boat trip on the river Main.

Industry delegates	380 €
Members of Nanonetz Bayern e. V.	220 €
Institutes / authorities	170 €
Partners of the Network NanoCarbon	170 €
Students	90 €
Students without conference dinner	50 €

(Notes: Prices are subject to VAT. The fees include conference documents, coffee breaks, lunch breaks, refreshments and the evening event. For registrations after 20.01.2018 a surcharge of 20 % will be due. In case of withdrawal from 13.02.2018 cancellation fees of 50 % of the respective prices are due. In case of withdrawal from 20.02.2018 full conference fees are due. Organiser: Nanoinitiative Bayern GmbH.)

REGISTRATION AND FURTHER INFORMATION

Registration is open until February 6th 2018. Please find all further information as well as the online registration form at:
carbon2018.nano.bayern

POSTERS AND ACCOMPANYING EXHIBITION

In addition to the lecture program there will be a poster award. Posters can be submitted until **February 6th 2018**. Please send your application to info@nanocarbon.net.

Manufacturers of materials and equipment have the opportunity to present their demonstrators and products in an accompanying **exhibition**. Please contact us for further information.

CONCEPTION AND ORGANISATION

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