

## PROGRAM

# NanoCarbon Annual Conference 2016

Presentations — Posters — Exhibits



February 23<sup>rd</sup> and 24<sup>th</sup> 2016  
University of Würzburg  
Germany



## TUESDAY, FEBRUARY 23<sup>RD</sup>

- 11:00 Registration of participants
- 12:00 Lunch snack
- 13:00 Start of the conference  
P. Grambow, Nanoinitiative Bayern GmbH, Germany  
**Opening remarks and short introduction of the Network NanoCarbon**

### SESSION 1: MATERIALS

- Chair:** H. Meyer, Nanoinitiative Bayern GmbH
- 13:10 F. Nedvidek, NanoXplore Inc., Canada  
**Unleashing a new generation of graphene-polymer composites**
- 13:35 V. Skakalova, Danubia NanoTech s.r.o., Slovakia  
**Graphite oxide**
- 14:00 H. Lincke, OCSiAl Europe, Germany  
**Single wall carbon nanotubes for industrial application**
- 14:25 A. Krüger, University of Würzburg, Germany  
**Composites based on nanodiamonds and carbon xerogels for electrode applications**
- 14:50 A. Reichow, Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (BAuA), Germany  
**Pilot project on building a supporting structure for the safe and sustainable development of nanoscale and other advanced materials**
- 15:15 Poster session / coffee break

### SESSION 2: ANALYTICS

- Chair:** C. Hübner, Fraunhofer ICT
- 16:00 E. Mansfield, National Institute of Standards and Technology (NIST), USA  
**Carbon nanotube reference materials and nomenclature standards**
- 16:25 J. Heindl, JEOL GmbH, Germany  
**Characterisation of carbon materials in the electron microscope**
- 16:50 D. Lerche, L.U.M. GmbH, Germany  
**Characterisation of dispersion properties and dispersibility of nanocarbon by in-situ visualisation of separation behaviour in centrifugal fields**

- 17:15 U. Köpke, EXAKT Advanced Technologies GmbH, Germany  
**Dispersing and Analyse - Processing of CNT / epoxy composite with EXAKT three roll mills**
- 17:40 H. Meeuw, TU Hamburg-Harburg, Germany  
**Dispersing nanoparticles in reactive polymers - Information from the process and supporting characterisation**

### EVENING SESSION: FUTURE TRENDS

- Chair:** N. Molitor, TIE GmbH
- 18:05 I. Kolaric, Fraunhofer IPA, Germany  
**Globalisation and its impact on nanomaterials in Germany**
- 18:30 Poster session
- 19:00 Conference dinner
- 22:00 End of the first day

## WEDNESDAY, FEBRUARY 24<sup>TH</sup>

### SESSION 3: CARBON NANOCOMPOSITES

- Chair:** P. Pötschke, Leibniz-Institut für Polymerforschung Dresden e.V. (IPF)
- 08:30 Y. Hayashi, Okayama University, Japan  
**Possibility of replacement of metallic wires and structural materials by carbon nanotube yarn and its reinforced nanocomposite**
- 08:55 I. Alig, Fraunhofer LBF, Germany  
**Shear-induced structure development in polymers filled with carbon allotropes of different size and shape: Electrical and rheological properties**
- 09:20 T. Augustin, TU Hamburg-Harburg, Germany  
**Basic characterisation of reactive polymer SWCNT composite systems for industrial application**
- 09:45 D. Schüppel, MAI Carbon, Germany  
**The Cluster MAI Carbon and its technological development of carbon composites**
- 10:10 Poster session / coffee break

## SESSION 4: APPLICATIONS I

- Chair:** S. Roth, Sineurop Nanotech GmbH
- 10:40 D. Carroll, Wake Forest University, USA  
**Advances in nanocomposite power scavenging technologies**
- 11:05 P. Kitzler, Fraunhofer IPA, Germany  
**Nanocarbon in batteries and supercapacitors**
- 11:30 B. Schumm, Fraunhofer IWS, Germany  
**Tailored carbon nanomaterials for electrochemical energy storage applications**
- 11:55 M. Sgraja, Enrichment Technologies Company Limited, Germany  
**Fatigue resistant resins for energy storage applications**
- 12:20 **Poster award / lunch snack**

## SESSION 5: APPLICATIONS II

- Chair:** I. Kolaric, Fraunhofer IPA
- 13:15 M. Hurtgen, Nanocyl SA, Belgium  
**Latest developments in carbon nanotubes industry: technical and commercial review**
- 13:40 T. Ackermann, Fraunhofer IPA, Germany  
**Material- and energy-efficient production of ultra-transparent electrodes based on rodlike conductive nanoparticles**
- 14:05 W. Schütz, FutureCarbon GmbH, Germany  
**Park deck heating by CNT mats**
- 14:30 Raphael Geiger, Fraunhofer IPA, Germany  
**Printed pumps based on CNT electrodes**
- 14:55 P. Grambow, Nanoinitiative Bayern GmbH, Germany  
**Closing remarks**
- 15:00 **Coffee break**

## NETWORK MEETING

- 15:15 Meeting of the Network NanoCarbon  
**Open to the public**
- 16:30 **End of the meeting / end of the conference**

## AIM OF THE CONFERENCE

The NanoCarbon Annual Conference 2016 aims to continue the tradition of the annual Inno.CNT congresses while extending the area of covered topics and expanding to an international level. The NanoCarbon Annual Conference is the most important communication platform for innovative and commercial activities in the field of carbon nanomaterials (e.g. CNTs, graphenes, nanohorns, carbon black) within Germany and beyond.

The Annual Conference offers an open and creative forum to the interested community for exchanging results and ideas. New applications and processing technologies for carbon nanomaterials are in the focus of the event. It particularly targets industry delegates seeking new trends and partners for novel cooperations.

## ACCOMPANYING FORUM

In addition to the lecture program participants will have the opportunity to present posters, demonstrators and products in an accompanying exhibition.

## LANGUAGE

The conference language is English.

## POSTERS

Posters can be submitted until February 15<sup>th</sup>, 2016. There will be an award for the best poster.

**We are looking forward to your poster application!**



on the basis of a decision by the German Bundestag

## CONFERENCE VENUE



University of Würzburg  
**Zentrales Hörsaal- und Seminargebäude Z6**  
Campus Hubland Süd  
Am Hubland  
D-97074 Würzburg

**Directions:** <https://elmut.uni-wuerzburg.de/building/3123>

## CONFERENCE FEES - EARLY BIRD PRICES

Industry delegates	250 €
Members of Nanonetz Bayern e. V.	100 €
Institutes / authorities	100 €
Partners of the Network NanoCarbon	50 €
Students	50 €
Students without conference dinner	20 €

(The listed fees are early bird prices, for registrations after February 1<sup>st</sup>, 2016 surcharges of 20 % will be due. All fees are net prices and will be invoiced with 19 % VAT. Cancellation up to 8 days before the event are free of charge. After this date we will charge a processing fee of 50 €.)

## REGISTRATION AND FURTHER INFORMATION

Please find all further information as well as the registration form online at:

**carbon2016.nano.bayern**

Registration is open until February 15<sup>th</sup> 2016.

## CONCEPTION AND ORGANISATION

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