



7th International Conference on Carbon NanoParticle based COMPosites

Dresden, Germany, June 26 to 28, 2017

CALL FOR PAPERS

Scope and History

CNPComp2017 is organized in conjunction with and as a special symposium within the Europe Africa Conference 2017 of the Polymer Processing Society (PPS).

It builds on a series of successful conferences on carbon based nanocomposites that originated from the European research network CNT-NET and has traditionally been held every two years alternating between Hamburg and Cambridge. CNPComp2017 will gather the international scientific community working in the field of composites filled with carbon nanoparticles (CNPs), including nanotubes, graphene or related materials, and other nanocarbons. The goal is to share knowledge and experience, in particular between nanocarbon systems, which are currently at different stages of maturity.

The meeting has traditionally focused on polymer matrices, but contributions on metallic or ceramic matrices are welcome.

Participants may attend other PPS symposia, especially on June 29, and benefit from an excellent platform for scientific exchange.

Chairpersons

Petra Pötschke (IPF Dresden, D)

Milo Shaffer (Imperial College, London, UK)

Topics

- Preparation (synthesis, processing, or assembly) of CNPs and CNP constructs for applications in composites
- Surface treatment, functionalization of CNP materials and characterization of the resulting surface/interphase behaviour
- Characterization of intrinsic CNP structure and properties relevant to composites
- Preparation and processing of CNPs composites, by blending, infiltration, or other methods, including subsequent conversion by moulding, stacking, or welding
- Additive manufacturing using CNP components
- Hybrid systems, combining different types of CNPs or other nanofillers
- Hierarchical nanostructured composites, developing architectures at multiple length scales, particularly in conjunction with conventional structural fibre reinforcements
- Characterization of CNP dispersion, distribution, orientation, within the matrix, and the associated influence on the matrix microstructure and properties
- Evaluation of CNP composite properties: mechanical, electrical, thermal, and optical characteristics, and emerging multifunctional performance
- Modelling of CNPs and their composites, both processing and performance
- Specific applications and opportunities for CNP-containing composites



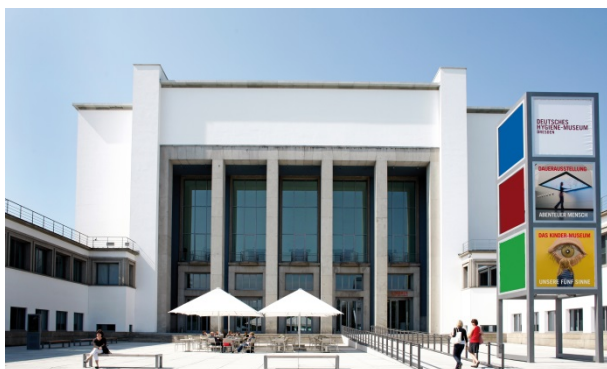
Submission of abstracts

Abstracts for CNPComp2017 can be submitted through the website www.pps2017dresden.de. Please be sure to assign your contribution to the special symposium Nanocarbon Based Composites - CNPComp.

Industrial and younger scientists are explicitly encouraged to participate actively, including with oral presentations.

Venue

Deutsches Hygienemuseum Dresden (www.dhmd.de), a world-famous museum between Dresden city centre and the beautiful historical park Großer Garten.



For accommodation you may choose from a large number of hotels and hostels of different categories.

Social Program

The social program includes a welcome get-together and a conference dinner during a boat trip on river Elbe.

Also, some tours will be offered for accompanying persons.

Organization

All detailed information on organization, venue, travel, social programs, etc. as well as online submission and registration can be found at the website

www.pps2017dresden.de.

Organizing Institution

Leibniz-Institut für Polymerforschung Dresden e. V.
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Important Dates

Deadline for submission:	February 28, 2017
Notification on acceptance:	March 2017
Early registration:	April 24, 2017

www.ipfdd.de/cnpcomp2017

