General Information

Venue
ATLANTIC Hotel Kiel
Raiffeisenstraße 2
24103 Kiel, Germany
www.atlantic-hotels.de

Homepage
www.intelligent-materials.de

Registration Fees
Further information can be found online under www.intelligent-materials.de.

Key Dates and Deadlines

Submission of Abstracts	28 February 2013
Notice to Authors	March 2013
Publication of Programme	May 2013

Call for Abstracts
The organisers invite prospective authors to submit an abstract relating to the conference topics. Abstracts should not exceed 300 words in length and should be submitted through the conference website. The abstracts will be evaluated, and if accepted, the authors will be informed about the kind of presentation (oral or poster). Especially young scientists are very welcome to actively contribute to the conference by submitting an abstract.

Topics
Topics addressed in this symposium will include, but are not limited to:

- New intelligent materials
  - Smart materials
  - Multiferroics
  - Multifunctional composites
  - Biofunctional materials
  - Bio-inspired materials
  - Switchable molecules and surfaces
- Microstructural characterization of intelligent materials and correlation with their functional properties
- Theory and modeling of intelligent materials on different scales
- Applications of intelligent materials
  - Integration into MEMS and NEMS
  - Medical devices
  - Biosensors
  - Energy harvesting
  - Information technology

Proceedings
The papers presented at the conference can be published in a special edition of Advanced Engineering Materials. Detailed instruction for the authors will be available on the conference website.

Conference Organisation
Conventus Congressmanagement & Marketing GmbH
Anja Kreutzmann
Carl-Pulfrich-Straße 1 • 07745 Jena, Germany
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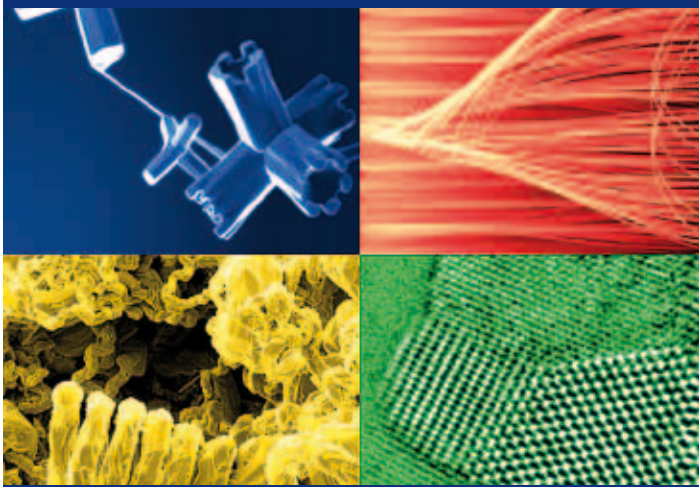
Abstract Submission now open

1st Announcement

Euro

Intelligent Materials



25–27 September 2013

Kiel, Germany

DGM Deutsche Gesellschaft für Materialkunde eV

www.intelligent-materials.de

Scope

Intelligent materials with integrated functionalities are required to make devices more energy efficient, autonomous, self-responding, switchable, biocompatible, and anti-bacterial. They are also integrated into novel sensor and actuator devices with significantly increased sensitivity. Such intelligent materials typically have a complex internal structure: They can be composites from different material classes like multiferroics. They might be nanostructured or hierarchically built-up, they could be bio-inspired and possess functional elements ranging from single molecules to the macro-scale. All those materials and their design and development has to be accompanied by high-resolution analytical tools that are able to characterize the materials on all scales and, moreover, to track and reveal their function-structure relations in situ.

The symposium will bring together experts in the field of intelligent materials in order to present and discuss recent developments and detect future trends.

The symposium will be a forum to get in contact with international key researchers and stimulate new collaborations for developing novel intelligent material systems, characterizing their functionality from molecular mechanisms to applications.

Eckhard Quandt
Christian-Albrechts University of Kiel, Germany

Programme Committee

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