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The venue of the EnFI 2018, the Leucorea, Lutherstadt Wittenberg, Germany. (© epd-Bild/Norbert Neetz)
Scope of the workshop

The EnFI 2018 workshop aims at summarizing the enormous progress in the rapidly growing interdisciplinary field of functional interfaces, and enhancing the exchange of ideas and understanding by bringing together experts and students from the different fields of materials science, physics, biophysics, chemistry, biology, engineering and medicine.

Functional interfaces play a key role in the design and synthesis of advanced materials with tailored properties. This applies for all modern top-down fabrication schemes for nanostructured materials and surfaces by thin-film technology in all its varieties. And, it is true as well for the bottom-up approaches often using bioinspired self-organization methods to assemble materials at the molecular scale in a predefined way for a rational surface engineering.

Advanced nanomaterials and smart surfaces are essential for developing novel concepts for multi-functional microsystems which are applicable in hot topics such as environmental monitoring or point-of-care diagnostics. Functional interfaces are also an integral part of electrochemical and photonic sensors, medical devices, implants, and drug delivery systems. Therefore, the EnFI 2018 workshop addresses this broad vision by focusing on the synthesis of advanced materials, on analyzing and understanding of their unique properties, and on their utilization in high-end technological applications.

The Kurt-Schwabe Institut e.V. Meinsberg is proud to host the EnFI in 2018 at the historical site of the Leucorea, founded in 1502 in Lutherstadt Wittenberg, Germany.

The EnFI workshop format is dedicated to the advanced, interdisciplinary education of young scientists. In particular, EnFI provides a platform for the cross-disciplinary exchange of ideas amongst master and Ph.D. students as well as postdoctoral researchers. Internationally renowned experts will give feature, evening and keynote lectures on a series of selected, highly relevant topics.

Invited speakers

- Heiko Wolf, IBM Research, Zürich/Switzerland
- Markus Engstler, Julius-Maximilians-Universität Würzburg, Germany
- Takayuki Homma, Waseda University, Tokyo, Japan
- Oliver Strube, Paderborn University, Germany
- Stefan Howorka, University College London, United Kingdom
- Guillermo Acuna, Technische Universität Braunschweig, Germany

Young researchers will present their recent results as brief oral presentations and as poster contributions in an interdisciplinary context.

Main topics of poster markets

- Thin film technology & microsystems
- Nanostructured materials & interfaces
- Conductive polymers & biopolymers
- Biomimetic materials synthesis & programmable surface engineering
- Nucleic acid technologies & enzyme-mediated engineering
- Biomaterials and membranes
- Novel methods for characterization of surfaces & interfacial reaction processes
- Medical implants & surface coatings
- Electrochemical & optical sensor materials interfaces
- Biosensors & next-generation diagnostics
- Chip-based devices
- Whole-cell bio- and chemo-sensing

Proceedings

The EnFI 2018 participants will have the opportunity to publish their research results, presented at the workshop, as original articles in a special issue of Physica Status Solidi (a) – applications and materials science (impact factor of 1.775).

Abstract submission

Please send your one-page abstract file to: enfi2018@ksi-meinsberg.de

Dates and deadlines

April 15, 2018 Submission of abstracts
May 30, 2018 Notification on acceptance
June 01 June, 2018 Registration & transfer of conference fee
July 01-03, 2018 EnFI workshop
September 30, 2018 Submission of manuscripts for pssa - Topical Section on Functional Surfaces and Interfaces

We are looking forward to welcome you at the EnFI 2018!

Visit the EnFI 2018 homepage for more information!

Or scan this QR code with your smartphone