


EnFI 2017

Engineering of Functional Interfaces

Marburg, August 28th – 29th

Engineering of Functional Interfaces EnFI 2017 – a conference for young scientists

Design, characterization, and production of functional interfaces is of increasing importance in many disciplines. On one hand, devices of daily life are getting smarter as an effect of functional materials; on the other hand, functional interfaces are an integral part of sensors, medical devices and drug delivery systems. Because of the complexity of these materials, an interdisciplinary approach for the education of scientists and engineers is of tremendous importance.

EnFI 2017, running now in its 10th consecutive year, offers a platform for an interdisciplinary exchange of ideas amongst master and Ph.D. students as well as postdoctoral researchers. For selected topics, tutorial lectures are given by internationally renowned experts. Moreover, young researchers will present their recent results as brief oral presentations and poster contributions in an interdisciplinary context. Ample time will be given to discussions on materials science, surface engineering, theoretical modelling concepts, and pathways towards system integration in sensors, optical, electronic, and medical devices. EnFI 2017 will be held at Philipps-Universität Marburg and will be organized by the Faculty of Pharmacy.

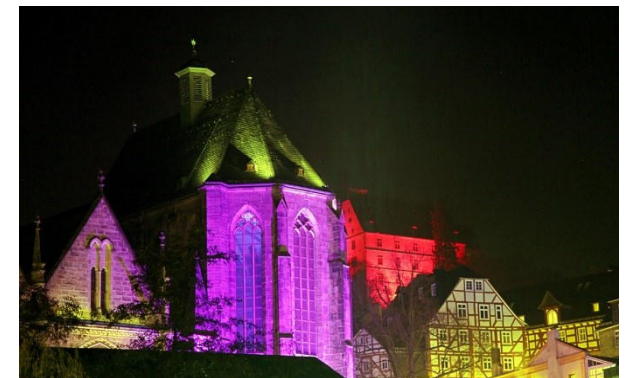
Philipps-Universität is not only a German university steeped in tradition, it is also the oldest university in the world that was founded as a Protestant institution in 1527. It has been a place of research and teaching for nearly five centuries. Nowadays, there are almost 26,500 students studying in Marburg - 12 percent from all over the world. Pharmaceutical as well as chemical teaching has been started in 1609, over 400 years ago. Out of this rich tradition, many interesting research fields have been

developed over the centuries. In total, 11 Nobel Prize winners are associated with Philipps-Universität Marburg.

Topics

Besides contributions in the fields of
Soft and Inorganic Thin Films
Nano Particles / Drug Delivery
Bio Hybrid Materials / Sensor Layers
Catalysis / Medical Engineering

Also further papers out of the areas of micro- and nanoscale surfaces as well as microbiological diagnosis are kindly welcome. New concepts for chemo- and biosensors as well as medical devices are invited.



Philipps-Universität Marburg, historical main building
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Scientific Advisory Board

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EnFI Course

Young scientists working on fields mentioned above are kindly invited to register and submit a contribution until June 1st 2017 (one page abstract). Each contributor should give a short oral presentation as well as a poster (DIN A0 = 84.1 x 118.9 cm, upright orientation). All posters will be presented over the whole conference. Young scientists are invited to submit a manuscript for a special issue for Physica Status Solidi.

Dates

Abstracts and registration: **21.06. 2017**

Acceptance of abstracts: **31.06.2017**

EnFI for young scientists: **28./29.08.2017**

Website: <http://www.pharmazie.uni-marburg.de/enfi-2017/>

Further information about abstract submission, registration and manuscript submission will be given at April 2017.

Chair

M. Keusgen, Marburg, in cooperation with Michael J. Schöning, Jülich; Theodor Doll, Hannover; Patrick Wagner, Leuven (Belgium)

Contact

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Program (preliminary)

Sunday, August 27th

Arrival and reception at conference venue (19:00) **GET TOGETHER PARTY**

Monday, August 28th

7:30 Registration

9:00 Opening Ceremony

9:10 – 9:50 **Keynote Lecture 1:** [Mardare C. C.: Versatility of WO₃-based materials: A thin film \(combinatorial\) approach](#)

9:50 – 10:55 Short Lectures Session **A**

10:55 – 12:00 Poster Presentation **A** and Coffee Break

12:00 – 13:00 Lunch Break

13:00 – 13:40 **Key Note Lecture 2:** [Keck C.: Nanopharmacy – improved health with smaller size](#)

13:40 – 14:45 Short Lectures Session **B**

14:45 – 15:45 Poster Presentation **B** and Coffee Break

15:45 – 16:20 **Key Note Lecture 3:** [Elter, P.: Nanostructured biomaterial interfaces for the regulation of cell adhesion](#)

16:30 – 17:30 Short Lectures Session **C**

17:45 – 18:45 Poster Presentation **C**

19:00 **Conference Dinner**

Tuesday, August 29th

9:00 – 9:40 **Key Note Lecture 4:** [Wagner T.: Photonic Structures for Sensing](#)

9:40 – 11:00 Short Lectures Session **D**

12:00 – 13:00 Poster Presentation **D** and Coffee Break

13:00 – 14:00 Lunch Break

14:00 – 14:40 **Key Note Lecture 5:** [Miyamoto K.: Applications of a chemical imaging sensor to micro-volume samples](#)

14:40 – 15:40 Short Lectures Session **E**

Sponsors

15:40 – 16:40 Poster Presentation **E** and Coffee Break

16:40 – 17:00 Poster Awards and Closing Ceremony