

## Program

UFA-Winter School "Surface-Confined Synthesis of Nanostructures" (4 Tutorials + 10 Lectures)

Baden-Baden, 17th-20th February 2014

### Mo, 17.02.14 Arrival / Lunch

13:00-13:30 **Introduction** (Prof. Ruben, Prof. Beaurepaire, Prof. Wulfhekel)

### Graphene and graphene-based nanostructures

Chair: Prof. M. Lackinger

13:30-15:15 **Tutorial I.** Prof. Xinliang Feng/ **Solution-based approach to Graphene-like Structures**

15:15-15:45 **Break**

15:45-16:45 **Lecture 1.** Prof. Roman Fasel/ **Bottom-up fabrication of graphene nanoribbons: From molecules to devices?**

16:45-17:45 **Lecture 2.** Prof. Heiko B. Weber/ **Epitaxial graphene: charge transport, defined interfaces and useful functionality**

17:45-19:30 **Poster session I**

19:30 **Dinner**

### Tu, 18.02.14 **Engineering surface-confined molecular nanostructures**

Chair: Prof. A. Gourdon

09:00-10:45 **Tutorial II.** Dr. habil. Florian Klappenberger/ **Constructing low-dimensional architectures: Comprehensive characterization and novel hydrocarbon materials.**

10:45-11:15 **Break**

11:15-12:15 **Lecture 3.** Prof. Harald Fuchs/ **Surface assisted synthesis of functional organic nanosystems.**

12:15-13:30 **Lunch Break** Chair: Dr. S. Klyatskaya

13:30-14:30 **Lecture 4.** Dr. Stephan Berciaud / **Optical spectroscopy of graphene and graphene-based hybrid systems.**

14:30-15:30 **Lecture 5.** Dr. Guillaume Schull / **Optoelectronic properties of thiophene wires polymerised on a Au(111) surface.**

15:30-16:15 **Break**

16:15-17:15 **Lecture 6.** Prof. Johannes V. Barth/ **From single molecule-chemistry to complex ensembles and dynamics at interfaces.**

17:30-18:30 **Poster session II**

19:00 **Dinner**

**Wed, 19.02.14**

## **On-surface formation of covalent networks**

**Chair: Prof. M. Ruben**

09:00-10:45 **Tutorial III.** Prof. A. Dieter Schlüter / **Synthetic Two-dimensional Polymers.**

10:45-11:15 **Break**

11:15-12:15 **Lecture 7.** Prof. Sylvain Clair / **From vapor-deposited molecules to surface covalent networks.**

12:15-13:30 **Lunch Break**

**Chair: Dr. G. Schull**

13:30-14:30 **Lecture 8.** Prof. André Gourdon / **On insulating surfaces chemical coupling.**

14:30-15:30 **Lecture 9.** Prof. Stefan Hecht / **On-surface polymerization - Quo vadis?**

15:30-16:15 **Break**

16:15-17:15 **Lecture 10.** Prof. Markus Lackinger / **Kinetic vs. thermodynamic control in on-surface polymerization.**

19:00 **Conference Dinner**

**Thu, 20.02.14**

## **Molecules at surface-confinement**

**Chair: Dr. habil. F. Klappenberger**

09:00-10:45 **Tutorial IV.** Prof. Paolo Samori/ **Scanning Probe Microscopies and Supramolecular Sciences: a honeymoon.**

10:45-11:00 **Conclusions**

10:45-11:15 **Break**

**Departure**