

KOSMOS SUMMER UNIVERSITY 2014



CHEMISTRY AND PHYSICS OF NOVEL MATERIALS FOR (OPTO-)ELECTRONICS

Humboldt-Universität zu Berlin, IRIS Adlershof

July 8th-19th, 2014



K O S M O S

HUMBOLDT-UNIVERSITÄT ZU BERLIN

SCIENTIFIC BACKGROUND

“We live in a materials world!” Historically, this sentence has become prophecy and arguably most technologies affecting our lives are inevitably relying on key materials. Would there be microelectronics without mastering inorganic semiconductors, most notably silicon, or would there be plastics without tailoring organic polymers? Absolutely not! So, it is clear that future progress will depend on the continuing evolution and smart combination of materials. In particular in the field (opto-)electronics, materials with specific optical and electronic properties, are being merged to construct advanced devices with new functions.

The main objective of this KOSMOS Summer University is to teach fundamentals of the physics and chemistry of (opto-)electronic materials. Focus is on an integrative approach combining the key expertise from scientists representing the three “Ms”: Make, Measure, and Model. Therefore, the event brings together young researchers from different backgrounds to generate a creative and interactive learning environment. The program will be composed of tutorials and research highlights by current leaders in their field as well as critical analysis of the literature and the development of innovative ideas (proposals) in smaller interdisciplinary teams.

The KOSMOS Summer University 2014 will gather leading experts and help to foster the next generation of young researchers in the burgeoning field of (opto)electronic materials research. We are looking forward to two weeks of exciting insights and stimulating discussions - simply lots of great science with lots of great young scientists!



TOPICS

- Electronic structure theory
- Synthesis of molecular materials
- Spectroscopic techniques
- Material classes and properties
- Interfacial design and analysis
- Device fabrication and characterization

The program will be complemented by various other activities involving the unique research and innovation environment of the science and technology park Berlin-Adlershof.

SCIENTIFIC CHAIRS

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FEES

The participation fee for KOSMOS 2014 is 750 € and covers the scientific programme, meals during the official programme, transportation in Berlin as well as a social/cultural programme. Travel and accommodation costs are not included.

We offer a limited number of grants to participants from Princeton University, the National University of Singapore, and Humboldt-Universität.

The application deadline is May 31, 2014.

APPLICATION

To apply for KOSMOS 2014, please submit the following:

- Curriculum Vitae
- Letter of Motivation (1/2 page addressing the question „Why do you want to attend?“)
- Letter of Reference

Applicants are kindly asked to send their application to:

kosmos2014@iris-adlershof.de

CONTACT

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