

## Scope of the Seminar

The seminar is intended to review recent progress and discuss future directions in the research on fundamental physical properties of highly ordered organic interface layers. In detail, it will cover

- **Structure and growth kinetics of organic films on surfaces**
- **Interface bonding of organic molecules**
- **Electronic structure**
- **Transport, optical, superconducting, and magnetic properties of highly ordered organic layers and materials**
- **Theoretical modelling**
- **Chemical synthesis**
- **Novel experiments.**

Mastering the challenge of preparing high quality interfaces has opened molecular materials for many sensitive experiments, through which fundamental physical phenomena such as interface polymorphism, interface bonding, growth surface diffusion fast carrier transport, electronic band dispersion, novel optical properties, excitonic bands, energy and charge transfer processes, magnetism and superconductivity in these materials are becoming accessible.

The seminar is organized as 2 ½ -day discussion meeting. Arrival is planned for Sunday evening. The scientific programme will consist of invited lectures and contributed posters. Moreover, three tutorials will be dedicated to fundamental aspects of experimental and theoretical methodology.

## Speakers

*F. Biscarini, ISMN Bologna*

*S.J. Blundell, University of Oxford*

*A. Brillante, Università di Bologna*

*T. Fritz, TU Dresden*

*L. Gade, Universität Heidelberg*

*L. Kronik, Weizmann Institute, Rehovoth*

*J. Krug, Universität Köln*

*C. Kumpf, Universität Würzburg*

*Th. Michely, RWTH Aachen*

*R. Möller, Universität Duisburg-Essen*

*M. Ramsey, Universität Graz*

*M. Rohlfing, Universität Osnabrück*

*Th. Schmidt, Universität Würzburg*

*A. Schöll, Universität Würzburg*

*F. Schreiber, Universität Tübingen*

*F. C. Spano, Temple University*

*R. Tromp, IBM Yorktown Heights*

*N. Ueno, Chiba University*

*C. Wöll, Universität Bochum*

*J. Wosnitza, Forschungszentrum Rossendorf*

*X. Zhu, University of Minnesota*

## General Information

### Organizing

Moritz Sokolowski, Universität Bonn

Stefan Tautz, International University Bremen

### Contact

Prof. Dr. Moritz Sokolowski

Universität Bonn

Institut für Physikalische & Theoretische Chemie

Wegelerstraße 12

53115 Bonn

GERMANY

E-mail: [sokolowski@pc.uni-bonn.de](mailto:sokolowski@pc.uni-bonn.de)

### Registration

Please use forms available at

[www.thch.uni-bonn.de/pc/sokolowski/383WEH/](http://www.thch.uni-bonn.de/pc/sokolowski/383WEH/)

Poster authors please attach an abstract of about 100 words length.

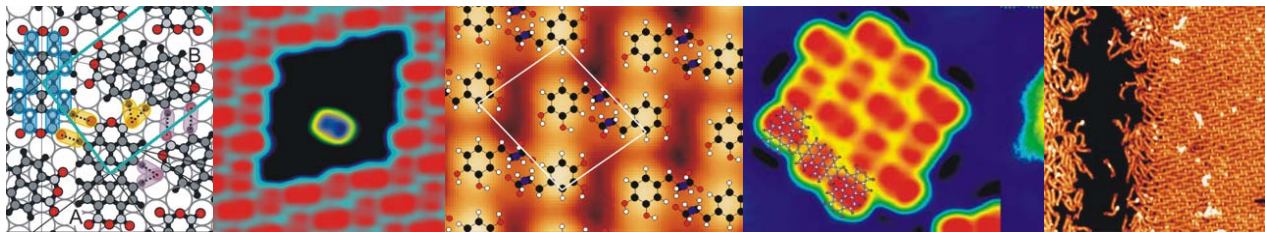
There is a 150 € conference fee which also covers room and board from January 21-24 .

### Registration Deadline

November 30, 2006

### Accommodation

Accommodation for all participants is available at the Physikzentrum Bad Honnef.



## Location

The seminar will take place at the **Physikzentrum Bad Honnef, Hauptstraße 5, 53604 Bad Honnef, Germany.**



### How to find the Physikzentrum:

#### By train:

- *From Cologne:*  
Direction Koblenz (right side of the Rhine River). Step off at Rhöndorf or Bad Honnef (duration 45 min). Walk to PBH (distance 2.5 km, see City Map) or take a taxi (about €5).
- *From Frankfurt:*  
Via Siegburg or Cologne to Rhöndorf (duration 2.5 hour). Alternatively via Koblenz to Rhöndorf (much cheaper! same duration).
- *From Bonn (main railway station):*  
Take a taxi from the front of the railway station to PBH (distance 18 km, about €25). Alternatively take the commuter train (S-Bahn) No. 66 destination Bad Honnef (duration 35 min). Step off at "Am Spitzenbach". Walk to PBH (400 m, see City Map).

#### By plane:

- *From Köln-Bonn Airport :*  
Direct train connection to Rhöndorf every hour, duration 32 min. Alternatively take a taxi to the Physikzentrum (38 km, fare about €40).

- *From Frankfurt Airport :*  
Train via Siegburg or Cologne to Rhöndorf (duration 2.5 hour). Alternatively train via Koblenz to Rhöndorf (much cheaper! same duration).

#### By car:

- *From the North:*  
Motorway A3 to "Autobahn-Dreieck Heumar" then motorway A59 direction "Bonn/Köln Airport" or "Bonn/Königswinter". A59 continues as B42 to Bad Honnef, exit "Rhöndorf". Follow the "Rhöndorfer Straße" to "Hauptstraße", after 2 km from the exit you will see PBH on the left.
- *From the South:*  
Motorway A3 Frankfurt-Köln, exit "Bad Honnef/Linz". After approx. 2 km turn right at the intersection with traffic lights and follow the valley down to Bad Honnef (apprx. 10 km in the forest). Cross the city in northern direction (see City Map) and find PBH on the right.



## 383<sup>th</sup> Wilhelm und Else Heraeus Seminar

### Physics of highly ordered organic interface layers

January 22 - 24, 2007

Physikzentrum Bad Honnef,  
Germany

