

# Present Challenges in Surface Science and Photon-Driven Phenomena at Interfaces

## Colloquium and Workshop in Honor of Dietrich Menzel

Dietrich Menzel is one of the pioneers of surface science. He has made important contributions to the entire field of chemical physics of surfaces, in particular to electron dynamics and electronically stimulated reactions on surfaces. On the occasion of his 80th birthday we organize a colloquium and a workshop in his honor.



### Program Colloquium

**Venue:** April 23<sup>rd</sup>, 2015, Physik-Department, TU-München, Lecture Hall 2, Garching

- 15:00 **Opening and Greetings**
- 15:15 **Surface Science Now: Solving Today's Energy Problems**  
**Prof. Cynthia M. Friend**, Harvard University, Dept. of Chemistry & Chemical Biology; School of Engineering & Applied Sciences; Cambridge MA, USA
- 16:00 **Chemistry and Electron Dynamics of Molecules at Surfaces**  
**Prof. Maki Kawai**, University of Tokyo, Dept. of Advanced Materials Science; and: RIKEN, Executive Director; Tokyo, Japan
- 16:45 **Coffee Break**
- 17:15 **4-D In-Water Holographic Microscopy for Environmental Studies at Any Depth**  
**Prof. Hans J. Kreuzer**, Dalhousie University, Dept. of Physics & Atmospheric Science; Halifax, Canada
- 18:00 **Laudationes**  
**Prof. Alexander M. Bradshaw**, Max-Planck-Institut für Plasmaphysik; Garching, Germany; and: Fritz-Haber-Institut der Max-Planck-Gesellschaft; Berlin, Germany  
**Prof. Hans-Joachim Freund**, Fritz-Haber-Institut der Max-Planck-Gesellschaft; Berlin, Germany
- 18:30 **Bavarian Dinner**

### Reminder

On occasion of Dietrich Menzel's 80<sup>th</sup> birthday *Surface Science* has scheduled a **Special Issue** entitled **"Present challenges in surface science, a special issue in honour of Dietrich Menzel"**.

"Regular papers", "letters" and "review-type articles of appropriate length" are welcome. All manuscripts will be peer-reviewed following the standard refereeing procedure of *Surface Science*. We invite you to submit your manuscripts to this special issue until **end of April** via <http://ees.elsevier.com/susc/default.asp>; please select "D Menzel Special Issue" as "Article Type".

The guest editors:

Peter Feulner and Johannes V. Barth, Technische Universität München, Garching  
Hans-Joachim Freund, Fritz-Haber-Institut, Berlin  
Hans-Peter Steinrück, Friedrich-Alexander-Universität Erlangen-Nürnberg



# Program Workshop

**Venue:** April 24<sup>th</sup>, 2015, IPP Lecture Hall, Garching

- 8:50 **Opening**
- 9:00 **From Surface Science to Catalysis: A Golden Era**  
*R.J. Madix*, Harvard University
- 9:40 **Ionic Liquids Surface Science**  
*H.-P. Steinrück*, Universität Erlangen-Nürnberg
- 10:00 **Multiplets for the XPS of Heavy Elements: Identification of the Oxidation State**  
*P. Bagus*, University of North Texas
- 10:20 **Functional Covalent Nanoarchitectures: Investigation and Manipulation with Light and Local Probe Techniques**  
*F. Klappenberger*, TU München
- 10:40 **Coffee Break**
- 11:10 **Investigation of Site-Selective Bond Breaking Induced by Resonant Core-Excitations**  
*S. Wada*, Hiroshima University
- 11:30 **Reaction Kinetics by PEEM Imaging: Spatially- and Component-Resolved Measurements**  
*Y. Suchorski*, TU Wien
- 11:50 **Phonon-Mediated Electron Transport through CaO Thin Films**  
*W.-D. Schneider*, EPFL
- 12:10 **Shedding Light on Internal Interfaces**  
*U. Höfer*, Universität Marburg
- 12:30 **Ultrafast Magnetism and its Signature in the Electronic Structure**  
*M. Weinelt*, FU Berlin
- 12:50 **Lunch Break**
- 13:20 **Double Photoemission from Ag(001) Using a High-Order Harmonic Light Source**  
*W. Widdra*, Universität Halle  
*J. Kirschner*, MPI für Mikrostrukturphysik, Halle
- 13:40 **Attosecond Band Gap Dynamics**  
*M. Schultze*, MPI für Quantenoptik, Garching
- 14:00 **Attosecond Time Resolved Photoemission Experiments on Surfaces of Layered Semiconductor Crystals**  
*U. Heinzmann*, Universität Bielefeld
- 14:20 **Ultrafast Screening and Transient Excitons at Metal Surfaces: Evidence from Multi-Photon Photoemission Spectroscopy**  
*B. Gumhalter*, Institute of Physics, Zagreb
- 14:40 **Time-Resolved X-Ray Spectroscopy with Free-Electron Lasers**  
*W. Wurth*, Universität Hamburg & DESY Photon Science
- 15:00 **Poster Session with Drinks**



# Site Map Campus Garching



**Colloquium, 23 April  
Lecture Hall 2  
James-Franck-Str. 1**

**IPP Entrance**

**Workshop, 24 April  
IPP Lecture Hall  
Boltzmannstr. 2**

## Directions to Campus Garching

There are direct public transport connections from within the Munich area via subway or bus. The Physics Department is located less than 500 m north-east of the subway station 'Garching-Forschungszentrum' of line U6.

From the center of Munich, Campus Garching is directly served by subway U6 to final destination 'Garching-Forschungszentrum'; the trip takes about 25 minutes.

From Munich airport you reach us with suburban train S1 to Neufahrn and then via bus 690 to 'Garching-Forschungszentrum'.

Plan your trip directly at the local transport services MVV! Further information on the network plan and prices is found at the web pages of the transport services Münchner Verkehrs- und Tarifverbund (MVV).

## Contact / Organization

E-Mail: [e20office@ph.tum.de](mailto:e20office@ph.tum.de)

### Prof. Johannes Barth and Peter Feulner

Lehrstuhl für Oberflächen- und Grenzflächenphysik  
Physik-Department  
Technische Universität München  
James-Franck-Str. 1  
85748 Garching  
Tel.: +49 89 289-12608

### Prof. Hans-Joachim Freund

Department of Chemical Physics  
Fritz-Haber-Institut der  
Max-Planck-Gesellschaft  
Faradayweg 4-6  
14195 Berlin  
Tel.: +49-30-8413-4100  
E-mail: [freund@fhi-berlin.mpg.de](mailto:freund@fhi-berlin.mpg.de)

## Supported by

- Physik-Department & Katalysezentrum, Technische Universität München
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- Max-Planck-Institut für Plasmaphysik

