

## Section Surface Physics Fachverband Oberflächenphysik (O)

Matthias Scheffler  
Fritz-Haber-Institut der MPG  
<http://www.fhi-berlin.mpg.de/th/th.html>  
scheffler@fhi-berlin.mpg.de

### Overview of Invited Talks and Sessions

(lecture rooms H36, H38, H39, H41, and H42; Poster C)

#### Invited Talks

O 2.1	Mon	9:30–10:15	H36	<b>Broken symmetry states at surfaces: the ARPES view</b> — ●MARCO GRIONI
O 3.1	Mon	10:15–11:00	H36	<b>Some aspects of chirality in molecules adsorbed at metal surfaces</b> — ●NEVILLE RICHARDSON
O 20.1	Tue	9:30–10:15	H36	<b>Spin-Coupling in Engineered Atomic Structures</b> — ●CYRUS HIRJIBEHEDIN, CHRISTOPHER LUTZ, ANDREAS HEINRICH
O 21.1	Tue	10:15–11:00	H36	<b>Recent advances in simulating high-resolution scanning tunnelling microscopy and spectroscopy</b> — ●WERNER HOFER
O 29.1	Tue	14:45–15:30	H36	<b>Many-body interactions in clean and alkali-adsorbed graphene</b> — ●E. ROTENBERG, A. BOSTWICK, T. OHTA, J. MCCHESENEY, TH. SEYLLER, K. HORN
O 37.1	Wed	14:00–14:45	H36	<b>Gallium-Nitride-on-Silicon: Mission possible!</b> — ●ARMIN DADGAR
O 38.1	Wed	14:45–15:30	H36	<b>Fluctuations of nanoscale structures</b> — ●ELLEN WILLIAMS, CHENGGANG TAO, WILLIAM CULLEN, TIMOTHY STASEVICH, THEODORE EINSTEIN, ALEXANDER BONDARCHUK, TIMOTHY BOLE, PHILIP ROUS
O 47.1	Thu	9:30–10:15	H36	<b>Complex magnetic structures on the atomic scale revealed by spin-polarized STM</b> — ●KIRSTEN VON BERGMANN
O 48.1	Thu	10:15–11:00	H36	<b>Semiconductor nanostructures: From self-assembly to self-ordering</b> — ●THOMAS SCHMIDT
O 54.1	Thu	14:00–14:45	H36	<b>Interplay between dimensionality and “exotic” properties: Model systems on surfaces</b> — ●ALEXANDER MENZEL, ENRICO DONA, MARIANA MINCA, ERMINALD BERTEL
O 55.1	Thu	14:45–15:30	H36	<b>Real-time observation of organic layer growth: a spectro-microscopic study</b> — ●THOMAS SCHMIDT, HELDER MARCHETTO, ULLRICH GROH, FLORIAN MAIER, PIERRE LÉVESQUE, RAINER FINK, HANS-JOACHIM FREUND, EBERHARD UMBACH

#### Sessions

O 1	Mon	8:30– 9:15	H1	<b>Plenary Talk Steven G. Louie: Understanding Nanostructures: Nanotubes, Nanowires, and Graphene Nanoribbons</b>
O 2	Mon	9:30–10:15	H36	<b>Invited Talk Marco Grioni: Broken Symmetry States at Surfaces: The ARPES View</b>
O 3	Mon	10:15–11:00	H36	<b>Invited Talk Neville R. Richardson (FV: DS+O): Some Aspects of Chirality in Molecules Adsorbed at Metal Surfaces</b>
O 4	Mon	9:30–13:00	H1	<b>Symposium: Spins in Semiconductors (FV: HL+MA+O+TT)</b>
O 5.1–5.6	Mon	11:15–12:45	H36	<b>Nanostructures at Surfaces I (Wires, Tubes)</b>
O 6.1–6.3	Mon	11:15–12:45	H38	<b>Symposium: Ultrafast Nanooptics I</b>
O 7.1–7.6	Mon	11:15–12:45	H39	<b>Metal Substrates: Adsorption I</b>
O 8.1–8.6	Mon	11:15–12:45	H41	<b>Methods: Scanning Probe Techniques I</b>
O 9.1–9.6	Mon	11:15–12:45	H42	<b>Oxides and Insulators: Adsorption I</b>
O 10	Mon	13:00–13:30	H1	<b>Special Talk Jorge E. Hirsch: The h-index: how useful is it as a measure of scientific achievement?</b>

O 11	Mon	13:30–14:00	H1	<b>Special Talk Philip Ball: Is it any good? Measuring scientific merit</b>
O 12.1–12.13	Mon	14:15–17:30	H36	<b>Nanostructures at Surfaces II (Wires, Tubes)</b>
O 13.1–13.10	Mon	14:15–18:00	H38	<b>Symposium: Ultrafast Nanooptics II</b>
O 14.1–14.14	Mon	14:15–17:45	H39	<b>Metal Substrates: Epitaxy and Growth</b>
O 15.1–15.14	Mon	14:15–17:45	H41	<b>Methods: Scanning Probe Techniques II</b>
O 16.1–16.13	Mon	14:15–17:30	H42	<b>Organic, Polymeric, and Biomolecular Films I</b>
O 17.1–17.87	Mon	17:30–20:30	Poster C	<b>Poster Session I (Nanostructures at Surfaces; Metal Substrates: Epitaxy and Growth; Methods: Scanning Probe Techniques; Phase Transitions)</b>
O 18	Mon	18:00–18:45	H1	<b>Plenary Talk Martin Pätzold: Venus Express</b>
O 19	Tue	8:30– 9:15	H1	<b>Plenary Talk Peter Lemke: Climate Change 2007: The Physical Science Basis</b>
O 20	Tue	9:30–10:15	H36	<b>Invited Talk Cyrus Hirjibehedin (FV: MA+O): Spin-Coupling in Engineered Atomic Structures</b>
O 21	Tue	10:15–11:00	H36	<b>Invited Talk Werner Hofer: Recent Advances in Simulating High-Resolution Scanning Tunnelling Microscopy and Spectroscopy</b>
O 22.1–22.4	Tue	11:15–12:15	H36	<b>Surface or Interface Magnetism</b>
O 23.1–23.6	Tue	11:15–12:45	H38	<b>Symposium: Ultrafast Nanooptics III</b>
O 24.1–24.6	Tue	11:15–12:45	H39	<b>Semiconductor Substrates: Epitaxy and Growth</b>
O 25.1–25.6	Tue	11:15–12:45	H41	<b>Phase Transitions</b>
O 26.1–26.4	Tue	11:15–12:15	H42	<b>Organic, Polymeric, and Biomolecular Films II</b>
O 27	Tue	13:00–13:45	H1	<b>Prize Talk Joel L. Lebowitz (Max Planck Medal): From Microscopic Dynamics to Macroscopic Behavior</b>
O 28	Tue	14:00–14:30	H10	<b>Invited Talk Patrick Bruno (FV: MA+O): Controlling Magnetism and Self-Organization of Adatoms on Surfaces by Using Quantum Interferences</b>
O 29	Tue	14:45–15:30	H36	<b>Invited Talk Eli Rotenberg: Many-Body Interactions in Clean and Alkali-Adsorbed Graphene</b>
O 30.1–30.8	Tue	15:45–17:45	H36	<b>Nanostructures at Surfaces III (Dots, Particles, Clusters)</b>
O 31.1–31.8	Tue	15:45–17:45	H38	<b>Surface Chemical Reactions and Heterogeneous Catalysis I</b>
O 32.1–32.7	Tue	15:45–17:30	H39	<b>Semiconductor Substrates</b>
O 33.1–33.8	Tue	15:45–17:45	H41	<b>Oxides and Insulators: Epitaxy and Growth</b>
O 34.1–34.8	Tue	15:45–17:45	H42	<b>Methods: Atomic and Electronic Structure I</b>
O 35	Wed	8:30– 9:15	H1	<b>Plenary Talk Atac Imamoglu: Quantum Dot Spin Manipulation</b>
O 36	Wed	9:15–10:00	H1	<b>Plenary Talk Hartmut Zabel: Magnetic Nanostructures in the Lateral and Perpendicular Direction</b>
O 37	Wed	14:00–14:45	H36	<b>Prize Talk Armin Dadgar (Gaede Prize): Gallium-Nitride-on-Silicon: Mission possible!</b>
O 38	Wed	14:45–15:30	H36	<b>Invited Talk Ellen D. Williams: Fluctuations of Nanoscale Structures</b>
O 39.1–39.8	Wed	15:45–17:45	H36	<b>Nanostructures at Surfaces IV (Dots, Particles, Clusters, Arrays)</b>
O 40.1–40.6	Wed	15:45–17:15	H38	<b>Particles and Clusters I</b>
O 41.1–41.7	Wed	15:45–17:30	H39	<b>Metal Substrates: Adsorption II</b>
O 42.1–42.3	Wed	15:45–16:30	H41	<b>Methods: Scanning Probe Techniques III</b>
O 43.1–43.4	Wed	15:45–16:45	H42	<b>Oxides and Insulators: Adsorption II</b>
O 44.1–44.81	Wed	17:00–19:30	Poster C	<b>Poster Session II (Semiconductors; Oxides and Insulators: Adsorption, Clean Surfaces, Epitaxy and Growth; Surface Chemical Reactions and Heterogeneous Catalysis; Surface or Interface Magnetism; Solid-Liquid Interfaces; Organic, Polymeric, Biomolecular Films; Particles and Clusters; Methods: Atomic and Electronic Structure; Time-resolved Spectroscopies)</b>
O 45	Wed	20:00–21:00	H1	<b>Evening Talk Eduard Arzt: Adhesion to Micro and Nano Structures: On Geckos, Minimushrooms and Smart Surfaces</b>

O 46	Thu	8:30– 9:15	H1	Prize Talk Jonathan J. Finley (Walter Schottky Prize): Optically Probing Charge and Spin Interactions in Semiconductor Quantum Dots and Molecules
O 47	Thu	9:30–10:15	H36	Invited Talk Kirsten von Bergmann: Complex Magnetic Structures on the Atomic Scale Revealed by Spinpolarized STM
O 48	Thu	10:15–11:00	H36	Invited Talk Thomas Schmidt: Semiconductor Nanostructures: From Self-Assembly to Self-Ordering
O 49.1–49.3	Thu	11:15–12:00	H36	Nanostructures at Surfaces V (Self Organization of Molecules)
O 50.1–50.6	Thu	11:15–12:45	H38	Particles and Clusters II
O 51.1–51.6	Thu	11:15–12:45	H39	Metal Substrates: Adsorption III
O 52.1–52.6	Thu	11:15–12:45	H42	Methods: Atomic and Electronic Structure II
O 53	Thu	13:00–13:45	H1	Prize Talk Peter Grünberg (Stern Gerlach Medal): Spin Transfer Phenomena in Layered Magnetic Structures
O 54	Thu	14:00–14:45	H36	Invited Talk Alexander Menzel: Interplay between Dimensionality and “Exotic” Properties: Model Systems on Surfaces
O 55	Thu	14:45–15:30	H36	Invited Talk Thomas Schmidt: Real-Time Observation of Organic Layer Growth: A Spectro-Microscopic Study
O 56.1–56.7	Thu	15:45–19:00	H36	Symposium: The Solid-Liquid Interface: A Challenge for Theoreticians I
O 57.1–57.11	Thu	15:45–18:30	H38	Surface Chemical Reactions and Heterogeneous Catalysis II
O 58.1–58.10	Thu	15:45–18:15	H39	Metal Substrates: Adsorption IV
O 59.1–59.12	Thu	15:45–18:45	H41	Oxides and Insulators: Clean Surfaces
O 60.1–60.11	Thu	15:45–18:30	H42	Time-Resolved Spectroscopies
O 61	Thu	19:30–20:00	H36	General Meeting of the Surface Science Division
O 62	Thu	20:00–21:00	H36	Post Deadline Session
O 63	Thu	21:00–24:00	H36 hallway	Surface Science Symposium
O 64	Fri	8:30– 9:15	H1	Plenary Talk Jean-François Joanny: Active gels: toward a generic approach of cell mechanics
O 65	Fri	9:15–10:00	H1	Plenary Talk Jens K. Nørskov: Catalysis from First Principles
O 66.1–66.7	Fri	10:15–12:00	H36	Nanostructures at Surfaces VI (Surface Reconstructions)
O 67.1–67.9	Fri	10:15–13:00	H38	Symposium: The Solid-Liquid Interface: A Challenge for Theoreticians II
O 68.1–68.6	Fri	10:15–11:45	H39	Metal Substrates: Adsorption V
O 69.1–69.6	Fri	10:15–11:45	H41	Metal Substrates: Clean Surfaces
O 70.1–70.7	Fri	10:15–12:00	H42	Methods: Atomic and Electronic Structure III

## Annual General Meeting of the Section Surface Physics

Thursday 7:30 p.m. H36

- Report of the Chairman of the DPG section Surface Physics
- Miscellaneous

### NOTES:

**Poster Session O17 on Monday (5:30-8:30 p.m.) in Area C close to the lecture rooms H43-H45**

Posters can be attached from Monday 8:30 a.m. and must be removed by Tuesday 5:00 p.m.

**Poster Session O44 on Wednesday (5:00-7:30 p.m.) in Area C close to the lecture rooms H43-H45**

Posters can be attached from Wednesday 8:00 a.m. and must be removed by Wednesday 9:30 p.m.

**Post Deadline Session O63 on Thursday (8:00-9:00 p.m.) in H36, and (9:00 p.m.-12:00 a.m.) in the hallway in front of H36**

Deadline for submission of abstracts is February 16, 2007; Notification on acceptance will be on March 3, 2007. The session will be sponsored by SPECS GmbH together with Bestec GmbH, Createc Fischer GmbH, and Surface Concept.