

## Surface Science Division Fachverband Oberflächenphysik (O)

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### Overview of Invited Talks and Sessions

Lecture Rooms: A 053, A 151, HE 101, MA 005, MA 041, MA 042, MA 043, and MA 141

Poster Rooms: MA 141/144 (called Poster F area)

#### Invited Talks

PV I	Mon	8:30– 9:15	H 0105	<b>The Interior of Single Molecules</b> — ●WILSON HO
O 2.1	Mon	9:30–10:15	HE 101	<b>The Perfect Lens: Resolution Beyond the Limits of Wavelength</b> — ●JOHN PENDRY
O 3.1	Mon	10:15–11:00	HE 101	<b>Graphene Single Electron Transistors</b> — CHRISTOPH STAMPFER, FRANCOISE MOLITOR, JOHANNES GÜTTINGER, THOMAS IHN, ●KLAUS ENSSLIN
O 16.1	Mon	17:00–17:45	HE 101	<b>The Surfaces of Bulk Semiconducting Metal Oxides</b> — ●ULRIKE DIEBOLD
O 17.1	Mon	17:45–18:30	HE 101	<b>Charge-Density Waves and Superconductivity in Two Dimensions: The ARPES View</b> — ●SERGEY BORISENKO
PV III	Mon	20:00–21:00	Urania	<b>Reaktionen an Festkörper-Oberflächen: Vom Atomaren zum Komplexen</b> — ●GERHARD ERTL
O 21.1	Tue	9:30–10:15	HE 101	<b>Electrons at Surfaces Taking an Unexpected Turn</b> — ●STEFAN BLÜGEL
O 22.1	Tue	10:15–11:00	HE 101	<b>Adsorption Processes on SiC Surfaces: First-Principles Theory</b> — ●JOHANNES POLLMANN
O 41.1	Tue	17:00–17:45	HE 101	<b>Nonadiabatic Processes in Surface Femtochemistry at Metals</b> — ●CHRISTIAN FRISCHKORN
O 42.1	Tue	17:45–18:30	HE 101	<b>Lateral Interactions on Surfaces: An Empirical Perspective</b> — ●GIL ALEXANDROWICZ, PEPIJN R. KOLE, EVERETT Y. M. LEE, HOLLY HEDGELAND, RICCARDO FERRANDO, ANDREW P. JARDINE, WILLIAM ALLISON, JOHN ELLIS
PV VI	Wed	8:30– 9:15	H 0105	<b>Graphene: Exploring Carbon Flatland</b> — ●ANDRE GEIM
O 47.1	Wed	14:15–15:00	HE 101	<b>Ab Initio Treatment of Strongly Correlated Electron Materials</b> — ●EMILY CARTER
PV VIII	Wed	20:00–21:00	Urania	<b>Vom Riesenmagnetowiderstand zur Computerfestplatte</b> — ●PETER GRÜNBERG
O 79.1	Thu	17:45–18:30	HE 101	<b>Bonding, Structure and Function of Highly Ordered Molecular Adsorbate Layers on Metal Surfaces</b> — ●STEFAN TAUTZ
O 80.1	Thu	18:30–19:15	HE 101	<b>Imaging Quantum Phase Information Using Isospectral Electronic Nanostructures</b> — ●HARI MANOHARAN
O 96.1	Fri	14:00–14:45	HE 101	<b>Electrochemical Surface Science</b> — ●KLAUS WANDELT
O 97.1	Fri	14:45–15:30	HE 101	<b>Energetics of Metal Atom Adsorption on Surfaces of Oxides and Polymers</b> — ●CHARLES CAMPBELL

#### Sessions

O 1	Mon	8:30– 9:15	H 0105	<b>Plenary Talk Wilson Ho</b>
O 2	Mon	9:30–10:15	HE 101	<b>Invited Talk John Pendry</b>
O 3	Mon	10:15–11:00	HE 101	<b>Invited Talk Klaus Ensslin</b>

O 4.1–4.5	Mon	11:15–12:30	MA 042	<b>Nanostructures at Surfaces</b>
O 5.1–5.6	Mon	11:15–12:45	MA 043	<b>Magnetic Nanostructures</b>
O 6.1–6.7	Mon	11:15–13:00	MA 005	<b>Metal Substrates: Clean Surfaces</b>
O 7.1–7.7	Mon	11:15–13:45	HE 101	<b>Symposium: Atomic Wires at Surfaces I</b> (Invited Speakers: Franz Himpsel, Hanno Weitering, Han Woong Yeom)
O 8.1–8.11	Mon	12:00–14:45	MA 041	<b>Metal Substrates: Adsorption of Organic/Bio Molecules I</b>
O 9	Mon	13:00–13:45	H 0105	<b>Plenary Talk Sankar Das Sarma</b>
O 10.1–10.14	Mon	13:15–16:45	MA 042	<b>Semiconductor Substrates: Epitaxy and Growth</b>
O 11.1–11.6	Mon	13:30–15:00	MA 043	<b>Time-Resolved Spectroscopy I</b>
O 12.1–12.9	Mon	13:30–16:45	MA 005	<b>Symposium: Size-Selected Clusters at Surfaces I</b> (Invited Speakers: Karl-Heinz Meiwes-Broer, Heinz Hövel, Thorsten Bernhardt)
O 13.1–13.10	Mon	14:00–16:30	HE 101	<b>Heterogeneous Catalysis</b>
O 14.1–14.6	Mon	15:15–16:45	MA 043	<b>Surface or Interface Magnetism</b>
O 15.1–15.5	Mon	15:30–16:45	MA 041	<b>Methods: Other Experimental Techniques I</b>
O 16	Mon	17:00–17:45	HE 101	<b>Invited Talk Ulrike Diebold</b>
O 17	Mon	17:45–18:30	HE 101	<b>Invited Talk Sergey Borisenko</b>
O 18.1–18.80	Mon	18:30–19:30	Poster F	<b>Poster Session I - MA 141/144 (Atomic Wires; Size-Selected Clusters; Nanostructures; Metal Substrates: Clean Surfaces+Adsorption of Organic / Bio Molecules+Solid-Liquid Interfaces+Adsorption of O and/or H; Surface or Interface Magnetism; Oxides and Insulators: Clean Surfaces)</b>
O 19	Mon	20:00–21:00	Urania	<b>Evening Talk Gerhard Ertl</b>
O 20	Tue	8:30– 9:15	H 0105	<b>Plenary Talk James Hudspeth</b>
O 21	Tue	9:30–10:15	HE 101	<b>Invited Talk Stefan Blügel</b>
O 22	Tue	10:15–11:00	HE 101	<b>Invited Talk Johannes Pollmann</b>
O 23	Tue	10:30–13:15	A 151	<b>SYNF: Ferroic Materials and Novel Functionalities I</b> (FV: MA+O+MM+DF+DS+HL+TT)
O 24	Tue	9:30–10:45	H 0105	<b>SYSA: Tayloring Organic Interfaces: Molecular Structures and Applications I</b> (Invited Speaker: Fernando Flores; FV: DS+CPP+HL+O)
O 25	Tue	10:45–13:00	H 0105	<b>SYSA: Tayloring Organic Interfaces: Molecular Structures and Applications II</b> (Invited Speakers: Norbert Koch, Antoine Kahn; FV: DS+CPP+HL+O)
O 26.1–26.5	Tue	11:15–12:30	MA 042	<b>Methods: Electronic Structure Theory</b>
O 27.1–27.6	Tue	11:15–12:45	MA 043	<b>Time-Resolved Spectroscopy II</b>
O 28.1–28.4	Tue	11:15–13:00	MA 005	<b>Symposium: Size-Selected Clusters at Surfaces II</b> (Invited Speakers: Steven Buratto, Stefan Vajda, Matthias Arenz)
O 29.1–29.6	Tue	11:15–13:30	HE 101	<b>Symposium: Surface Spectroscopy on Kondo Systems I</b> (Invited Speakers: Wolf-Dieter Schneider, Fakher Assaad, Serguei Molodtsov)
O 30.1–30.8	Tue	12:00–14:00	MA 041	<b>Phenomena at Semiconductor Surfaces</b>
O 31	Tue	13:00–13:45	H 0105	<b>Prize Talk Bernard Barbara (Gentner-Kastler Prize)</b>
O 32.1–32.15	Tue	13:00–16:45	MA 042	<b>Oxides and Insulators: Clean Surfaces</b>
O 33.1–33.7	Tue	13:45–16:15	MA 005	<b>Symposium: Frontiers of Surface Sensitive Electron Microscopy I</b> (Invited Speakers: James Hannon, Raoul van Gastel, Thomas Schmidt)
O 34.1–34.11	Tue	13:45–16:30	MA 043	<b>Metal Substrates: Adsorption of Organic/Bio Molecules II</b>
O 35.1–35.7	Tue	14:00–16:45	HE 101	<b>Symposium: Atomic Wires at Surfaces II</b> (Invited Speakers: Erio Tosatti, Serge Lemay, Shuji Hasegawa)
O 36.1–36.10	Tue	14:15–16:45	MA 041	<b>Surfaces and Films: Forces, Structure and Manipulation</b>
O 37	Tue	14:30–17:30	A 151	<b>SYNF: Ferroic Materials and Novel Functionalities II</b> (Invited Speakers: Jochen Mannhart, Warren Pickett, Yoshinori Tokura, Ramamoorthy Ramesh, Agnes Barthelemy, Evgeny Tsymbal; FV: MA+O+MM+DF+DS+HL+TT)
O 38	Tue	14:30–16:30	H 2013	<b>SYSA: Tayloring Organic Interfaces: Molecular Structures and Applications III</b> (Invited Speaker: Alberto Salleo; FV: DS+CPP+HL+O)

O 39	Tue	14:30–20:00	Poster A	<b>SYSA: Tailoring Organic Interfaces: Molecular Structures and Applications IV (Poster; FV: DS+CPP+HL+O)</b>
O 40	Tue	16:30–18:30	H 2013	<b>SYSA: Tailoring Organic Interfaces: Molecular Structures and Applications V (Invited speaker: Henning Sirringhaus; FV: DS+CPP+HL+O)</b>
O 41	Tue	17:00–17:45	HE 101	Invited Talk Christian Frischkorn
O 42	Tue	17:45–18:30	HE 101	Invited Talk Gil Alexandrowicz
O 43.1–43.46	Tue	18:30–19:30	Poster F	Poster Session II - MA 141/144 (Surface Spectroscopy on Kondo Systems; Frontiers of Surface Sensitive Electron Microscopy; Methods: Scanning Probe Techniques+Electronic Structure Theory+Other; Time-Resolved Spectroscopy of Surface Dynamics with EUV and XUV Radiation; joined by SYNFP posters)
O 44	Wed	8:30– 9:15	H 0105	Plenary Talk André Geim
O 45	Wed	9:15–10:00	H 0105	Plenary Talk Knut Urban
O 46	Wed	13:30–14:15	HE 101	Invited Talk Stefan Mayr (Gaede Prize)
O 47	Wed	14:15–15:00	HE 101	Invited Talk Emily Carter
O 48	Wed	14:30–17:30	H 2013	<b>SYSA: Tailoring Organic Interfaces: Molecular Structures and Applications VI (Invited Speaker: Ivan Stich; FV: DS+CPP+HL+O)</b>
O 49.1–49.10	Wed	15:15–17:45	MA 005	Particles and Clusters
O 50.1–50.8	Wed	15:15–18:00	HE 101	Symposium: Surface Spectroscopy on Kondo Systems II (Invited Speakers: Jonathan Denlinger, Johann Kroha, Alexander Schneider)
O 51.1–51.13	Wed	15:15–18:30	MA 041	Metal Substrates: Adsorption of Organic/Bio Molecules III
O 52.1–52.13	Wed	15:15–18:30	MA 042	Time-Resolved Spectroscopy III
O 53.1–53.13	Wed	15:15–18:30	MA 043	Surface Nanopatterns
O 54	Wed	17:45–19:30	H 2013	<b>SYSA: Tailoring Organic Interfaces: Molecular Structures and Applications VII (Invited Speaker: Stephan Roth; FV: DS+CPP+HL+O)</b>
O 55.1–55.77	Wed	18:30–19:30	Poster F	Poster Session III - MA 141/144 (Methods: Atomic and Electronic Structure; Particles and Clusters; Heterogeneous Catalysis; Semiconductor Substrates: Epitaxy and Growth+Adsorption+Clean Surfaces+Solid-Liquid Interfaces; Oxides and Insulators: Solid-Liquid Interfaces+Epitaxy and Growth; Phase Transitions; Metal Substrates: Adsorption of Inorganic Molecules+Epitaxy and Growth; Surface Chemical Reactions; Bimetallic Nanosystems: Tuning Physical and Chemical Properties; Oxides and insulators: Adsorption; Organic, polymeric, biomolecular films; etc.)
O 56	Wed	20:00–21:00	Urania	Evening Talk Peter Grünberg
O 57	Thu	8:30– 9:15	H 0105	Plenary Talk Helmut Grubmüller
O 58.1–58.4	Thu	9:30–11:00	HE 101	Symposium: Beyond Optical Wavelengths: Time-Resolved Spectroscopy of Surface Dynamics with EUV and XUV Radiation I (Invited Speakers: Reinhard Kienberger, Martin Aeschli-mann)
O 59.1–59.10	Thu	9:30–12:00	MA 041	Molecular Nanostructures
O 60.1–60.8	Thu	9:30–12:15	MA 005	Symposium: Bimetallic Nanosystems: Tuning Physical and Chemical Properties I (Invited Speakers: Harald Brune, Michael Hilgendorff, Konstantin Neyman)
O 61	Thu	9:30–12:30	A 151	SYEC: Exact-Exchange and Hybrid Functionals Meet Quasiparticle Energy Calculations I (Invited Speakers: Gustavo Scuseria, Andreas Görling, Georg Kresse, Angel Rubio, Mark van Schilfgaarde, Michael Rohlfing; FV: O+HL+DF+TT)
O 62.1–62.12	Thu	9:30–12:30	MA 042	Metal Substrates: Adsorption of Inorganic Molecules
O 63.1–63.8	Thu	9:30–12:30	MA 043	Symposium: Frontiers of Surface Sensitive Electron Microscopy II (Invited Speakers: Jürgen Kirschner, Liviu Chelaru, Michael Bauer, Claus Schneider)
O 64.1–64.6	Thu	11:15–12:45	HE 101	Metal Substrates: Adsorption of Organic/Bio Molecules IV
O 65.1–65.11	Thu	12:00–14:45	MA 141	Methods: Theory and Experiment
O 66.1–66.10	Thu	12:45–15:15	MA 041	Metallic Nanostructures I (on Metals)

O 67	Thu	13:00–13:45	H 0105	<b>Prize Talk Fedor Jelezko (Walter Schottky Prize)</b>
O 68.1–68.6	Thu	13:15–14:45	MA 043	<b>Metal Substrates: Solid-Liquid Interfaces</b>
O 69.1–69.4	Thu	14:00–15:00	MA 042	<b>Symposium: Size-Selected Clusters at Surfaces III</b>
O 70	Thu	14:00–17:00	A 151	<b>SYMS: Modern Developments in Multiphysics Materials Simulations I (Invited Speakers: David Pettifor, Alessandro De Vita, Chris Wolverton, Ingo Steinbach, Walter Thiel, Karsten Reuter; FV: O+HL+MM)</b>
O 71	Thu	14:00–17:00	A 053	<b>SYEC: Exact-Exchange and Hybrid Functionals Meet Quasiparticle Energy Calculations II (FV: O+HL+DF+TT)</b>
O 72.1–72.8	Thu	14:00–17:00	HE 101	<b>Symposium: Beyond Optical Wavelengths: Time-Resolved Spectroscopy of Surface Dynamics with EUV and XUV Radiation II (Invited Speakers: Wilfried Wurth, Hermann Dürr, Shik Shin)</b>
O 73.1–73.10	Thu	14:00–17:30	MA 005	<b>Symposium: Bimetallic Nanosystems: Tuning Physical and Chemical Properties II (Invited Speakers: André Fielicke, Thomas Risse, Jürgen Behm)</b>
O 74.1–74.9	Thu	15:00–17:15	MA 141	<b>Metal Substrates: Adsorption of O and/or H</b>
O 75.1–75.8	Thu	15:15–17:15	MA 042	<b>Oxides and Insulators: Epitaxy and Growth</b>
O 76.1–76.9	Thu	15:15–17:30	MA 043	<b>Organic, Polymeric, Biomolecular Films - also with Adsorbates</b>
O 77.1–77.8	Thu	15:30–17:30	MA 041	<b>Methods: Scanning Probe Techniques I</b>
O 78	Thu	17:00–18:30	H 2032	<b>SYSA: Tayloring Organic Interfaces: Molecular Structures and Applications VIII (Invited Speaker: Tomasz Kowalewski; FV: DS+CPP+HL+O)</b>
O 79	Thu	17:45–18:30	HE 101	<b>Invited Talk Stefan Tautz</b>
O 80	Thu	18:30–19:15	HE 101	<b>Invited Talk Hari Manoharan</b>
O 81	Thu	18:30–19:30	Poster F	<b>Poster Session IV - MA 141/144: SYMS II and SYEC III (Modern Developments in Multiphysics Materials Simulations; Exact-Exchange and Hybrid Functionals Meet Quasiparticle Energy Calculations)</b>
O 82	Thu	19:30–20:00	HE 101	<b>General Meeting of the Surface Science Division</b>
O 83	Thu	20:00–21:00	HE 101	<b>Post Deadline Session (followed by Surface Science Symposium)</b>
O 84	Fri	8:30– 9:15	H 0105	<b>Plenary Talk Wolfgang Kleemann</b>
O 85	Fri	9:15–10:00	H 0105	<b>Prize Talk Hagen Kleinert (Max Born Prize)</b>
O 86.1–86.7	Fri	9:30–11:15	MA 141	<b>Oxides and Insulators: Adsorption</b>
O 87.1–87.7	Fri	9:30–12:00	HE 101	<b>Symposium: Beyond Optical Wavelengths: Time-Resolved Spectroscopy of Surface Dynamics with EUV and XUV Radiation III (Invited Speakers: Christian Spielmann, Matias Bargheer, Philippe Wernet)</b>
O 88.1–88.12	Fri	9:30–12:30	MA 005	<b>Metallic Nanostructures II (on Semiconductors)</b>
O 89.1–89.12	Fri	9:30–12:30	MA 041	<b>Metal Substrates: Epitaxy and Growth</b>
O 90.1–90.7	Fri	10:15–12:00	MA 042	<b>Methods: Scanning Probe Techniques II</b>
O 91	Fri	10:15–12:30	A 151	<b>SYEC: Exact-Exchange and Hybrid Functionals Meet Quasiparticle Energy Calculations IV (FV: O+HL+DF+TT)</b>
O 92	Fri	10:15–13:00	A 053	<b>SYMS: Modern Developments in Multiphysics Materials Simulations III (FV: O+HL+MM)</b>
O 93.1–93.11	Fri	10:15–13:00	MA 043	<b>Surface Chemical Reactions</b>
O 94.1–94.5	Fri	12:00–13:15	MA 141	<b>Methods: Other Experimental Techniques II</b>
O 95	Fri	13:15–14:00	H 0105	<b>Special Talk Theodore Postol</b>
O 96	Fri	14:00–14:45	HE 101	<b>Invited Talk Klaus Wandelt</b>
O 97	Fri	14:45–15:30	HE 101	<b>Invited Talk Charles Campbell</b>

### Evening Talks by Nobel Laureates 2007

Monday, 8:00 p.m., Urania      GERHARD ERTL

Wednesday, 8:00 p.m., Urania      PETER GRÜNBERG

Urania is best reached by subway U1 from Ernst-Reuter-Platz to Wittenbergplatz (just a 4 min. train ride + 8 min. walk). Both lectures will also be presented in a live broadcast in H 0105.

### Annual General Meeting of the Surface Science Division

Thursday, 7:30 p.m., HE 101

- Report of the Chairman of the DPG Surface Science Division
- Miscellaneous

## NOTES

Poster Sessions O18 (Monday), O43 (Tuesday), O55 (Wednesday), and O81 (Thursday) at 6:30-7:30 p.m. in MA 141/144 (Poster F area) - Posters should be put up between 10:00 and 11:00 a.m. and must be removed before 10:00 a.m. on the following day. The poster presenter should be present at the poster between 6:30 and 7:30 p.m.

Post Deadline Session O83 on Thursday, 8:00-9:00 p.m., in HE 101, followed by the Surface Science Symposium at the TU Mensa (first floor), Hardenbergstraße 34.

Deadline for submission of abstracts is January 11, 2008; Notification on acceptance will be on February 4, 2008. Support from Elsevier (Surface Science), SPECS together with Bestec, Createc Fischer, and Surface Concept, and from IBM is gratefully acknowledged.