Surface Science Division
Fachverband Oberflächenphysik (O)

Richard Berndt
Institut für Experimentelle und Angewandte Physik
Christian-Albrechts-Universität zu Kiel
Olshausenstr. 40
D-24098 Kiel
berndt@physik.uni-kiel.de

Overview of Invited Talks and Sessions

(lecture rooms TRE Phy, Phy C213, WIL A317, WIL B321, WIL B122, WIL C107, WIL C307 and CHE 184; poster P3 and P4)

Invited Talks

O 1.1	Mon	10:15–11:00	TRE Phy	**Chirality at surfaces from the single-molecule perspective** — •Rasmita Raval
O 9.1	Mon	14:00–14:45	TRE Phy	**Ultrafast nanooptical control** — •Walter Pfeiffer, Tobias Brixner, Martin Aeschlimann
O 24.1	Tue	10:15–11:00	TRE Phy	**Low Energy Electron Microscopy Studies of Thin Film Graphene Growth and Properties** — •Rudolf M. Tromp
O 33.1	Tue	14:00–14:45	TRE Phy	**Competition of magnetic excitations on a superconducting surface** — •Katharina J. Franke
O 34.1	Tue	14:45–15:30	TRE Phy	**A Bottom-up View of Sliding Friction: From Hopping Atoms to Superlubric Nanoparticles** — •Andre Schirmeisen
O 37.1	Wed	10:15–11:00	TRE Phy	**Writing nanostructures with a focused electron beam** — •Hubertus Marbach
O 61.1	Thu	10:15–11:00	TRE Phy	**Novel properties of topological insulator thin films of Bi2Te3 and Bi2Se3 prepared by molecular beam epitaxy** — •Qikun Xue
O 72.1	Thu	14:00–14:45	TRE Phy	**In-situ Study of Nanoparticle Shape Changes under Reaction Conditions** — •Andreas Stierle
O 94.1	Fri	10:15–11:00	TRE Phy	**Computational study of optical and structural properties of an organic dye sensitized solar cell** — •Ralph Gebauer, Filippo De Angelis
O 103.1	Fri	13:15–14:00	TRE Phy	**Beat the heat! First-principles based modeling of micro- and macroscopic heat dissipation in heterogeneous catalysis** — •Karsten Reuter

Invited Talks Focussed Session: Theory and computation of electronic structure: new frontiers (jointly with HL, DS)

O 2.1	Mon	11:15–11:45	TRE Phy	**Range separation: success, doubts and perspectives** — •Andreas Savin
O 26.1	Tue	11:15–11:45	TRE Phy	**Electronic and Optical Excitations in Magnetic Insulators** — •Claudia Rödl, Frank Fuchs, Friedhelm Bechstedt
O 48.1	Wed	15:00–15:30	TRE Phy	**Progress in diffusion quantum Monte Carlo calculations** — •Richard Needs
O 64.1	Thu	11:15–11:45	TRE Phy	**Electronic excitations in thin-film materials for solar cells: beyond standard density functional theory** — •Silvana Botti
O 87.1	Thu	17:15–17:45	TRE Phy	**Continuum mechanics for quantum many-body systems: the anti-adiabatic approximation** — •Giovanni Vignale, Xianlong Gao, Jianmin Tao, Stefano Pittalis, Ilya Tokatly
O 96.1	Fri	11:15–11:45	TRE Phy	**Tunable bandgaps and excitons in doped semiconducting carbon nanotubes made possible by acoustic plasmons** — •Catalin Spataru, Francois Leonard

Invited Talks Focussed Session: Transparent conductive oxides (jointly with HL, DS)

O 4.1	Mon	11:15–11:45	WIL A317	**Surface and Bulk Properties of Post-Transition Metal Oxide Semiconductors** — Philip D.C. King, Sepehr Vasheghani Farahani, Tim D. Veal, •Chris F. McConville
O 4.2	Mon	11:45–12:15	WIL A317	***Ab-initio* calculation of electronic and optical properties of transparent conductive oxides** — •André Schleife, Claudia Rödl, Frank Fuchs, Jürgen Furthmüller, Benjamin Höffling, Karsten Hannewald, Patrick Rinke, Joel Varley, Anderson Janotti, Chris G. Van de Walle, Friedhelm Bechstedt
O 4.3	Mon	12:15–12:45	WIL A317	**Bulk semiconducting oxides: crystal growth and physical properties** — •Roberto Fornari
O 30.1	Tue	11:15–11:45	WIL B122	**Experimental Electronic Structure of In_2O_3 and Ga_2O_3** — •Christoph Janowitz
O 30.2	Tue	11:45–12:15	WIL B122	**Transparent Electronics Using Oxide Materials** — •Marius Grundmann
O 30.3	Tue	12:15–12:45	WIL B122	**Optical properties of undoped and doped ZnO** — •Axel Hoffmann, Markus R. Wagner

Gaede Prize Talk

O 47.1	Wed	14:00–14:45	TRE Phy	**Spin-split metallic surface states on semimetals and topological insulators** — •Philip Hofmann

Invited talks of the joint symposium SYAP

See SYAP for the full program of the symposium.

SYAP 1.1	Mon	10:30–11:00	HSZ 01	**Observing Intra-atomic Electron Correlation by Tunnelling and Recollision** — •Paul Corkum
SYAP 1.2	Mon	11:00–11:30	HSZ 01	**Attosecond time-resolved molecular electron dynamics** — •Marc Vrakking
SYAP 1.3	Mon	11:30–12:00	HSZ 01	**Opportunities in Attosecond Science using Core Level Spectroscopy** — •Anders Nilsson
SYAP 1.4	Mon	12:00–12:30	HSZ 01	**Attosecond spectroscopy on solid surfaces** — •Reinhard Kienberger
SYAP 1.5	Mon	12:30–13:00	HSZ 01	**Condensed matter effects in attosecond physics** — •Pedro M. Echenique

Sessions

O 1.1–1.1	Mon	10:15–11:00	TRE Phy	**Invited Talk (Rasmita Raval)**
O 2.1–2.6	Mon	11:15–13:00	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers I (jointly with HL, DS)**
O 3.1–3.6	Mon	11:15–12:45	PHY C213	**Metal substrates: Adsorption of organic / bio molecules I**
O 4.1–4.4	Mon	11:15–13:00	WIL A317	**Focussed session: Transparent conductive oxides I (jointly with HL, DS)**
O 5.1–5.6	Mon	11:15–12:45	WIL B321	**Spin-Orbit Interaction at Surfaces I**
O 6.1–6.7	Mon	11:15–13:00	WIL B122	**Semiconductor substrates: Adsorption**
O 7.1–7.7	Mon	11:15–13:00	WIL C107	**Surface Dynamics I**
O 8.1–8.7	Mon	11:15–13:00	WIL C307	**Oxides and insulators: Adsorption I**
O 9.1–9.1	Mon	14:00–14:45	TRE Phy	**Invited Talk (Walter Pfeiffer)**
O 10.1–10.8	Mon	15:00–17:00	TRE Phy	**Metal substrates: Adsorption of organic / bio molecules II**
O 11.1–11.8	Mon	15:00–17:00	PHY C213	**Plasmonics and Nanooptics I**
O 12.1–12.8	Mon	15:00–17:00	WIL A317	**Metal substrates: Adsorption of O / H and inorganic molecules I**
O 13.1–13.8	Mon	15:00–17:00	WIL B321	**Solid / liquid interfaces I**
O 14.1–14.7	Mon	15:00–16:45	WIL B122	**Clean surfaces: Metals, semiconductors, oxides and insulators I**
O 15.1–15.8	Mon	15:00–17:00	WIL C107	**Nanostructures at surfaces: Dots, particles, clusters, arrays I**

O 16.1–16.8	Mon	15:00–17:00	WIL C307	**Scanning probe methods I**
O 17.1–17.8	Mon	17:15–19:15	TRE Phy	**Metal substrates: Adsorption of organic / bio molecules III**
O 18.1–18.8	Mon	17:15–19:15	PHY C213	**Plasmonics and Nanooptics II**
O 19.1–19.7	Mon	17:15–19:00	WIL A317	**Metal substrates: Adsorption of O / H and inorganic molecules II**
O 20.1–20.8	Mon	17:15–19:15	WIL B321	**Solid / liquid interfaces II**
O 21.1–21.5	Mon	17:15–18:30	WIL B122	**Clean surfaces: Metals, semiconductors, oxides and insulators II**
O 22.1–22.9	Mon	17:15–19:30	WIL C107	**Theoretical methods**
O 23.1–23.8	Mon	17:15–19:15	WIL C307	**Scanning probe methods II**
O 24.1–24.1	Tue	10:15–11:00	TRE Phy	**Invited Talk (Rudolf M. Tromp)**
O 25.1–25.4	Tue	11:00–13:00	GER 37	**[DS] Progress in Micro- and Nanopatterning: Techniques and Applications I (Focused Session, jointly with O - Organisers: Graaf, Hartmann)**
O 26.1–26.6	Tue	11:15–13:00	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers II (jointly with HL, DS)**
O 27.1–27.7	Tue	11:15–13:00	PHY C213	**Metal substrates: Adsorption of organic / bio molecules IV**
O 28.1–28.7	Tue	11:15–13:00	WIL A317	**Plasmonics and Nanooptics III**
O 29.1–29.7	Tue	11:15–13:00	WIL B321	**Graphene I**
O 30.1–30.5	Tue	11:15–13:15	WIL B122	**Focussed session: Transparent conductive oxides II (jointly with HL, DS)**
O 31.1–31.8	Tue	11:15–13:15	WIL C107	**Nanostructures at surfaces: Dots, particles, clusters, arrays II**
O 32.1–32.6	Tue	11:15–12:45	WIL C307	**Spin-Orbit Interaction at Surfaces II**
O 33.1–33.1	Tue	14:00–14:45	TRE Phy	**Invited Talk (Katharina J. Franke)**
O 34.1–34.1	Tue	14:45–15:30	TRE Phy	**Invited Talk (Andre Schirmeisen)**
O 35.1–35.20	Tue	18:30–22:00	P3	**Poster Session I (Scanning probe methods)**
O 36.1–36.128	Tue	18:30–22:00	P4	**Poster Session II (Metals; Nanostructures at surfaces; Surface or interface magnetism; Spin-Orbit Interaction at Surfaces; Electron and spin dynamics; Surface dynamics; Methods; Theory and computation of electronic structure)**
O 37.1–37.1	Wed	10:15–11:00	TRE Phy	**Invited Talk (Hubertus Marbach)**
O 38.1–38.8	Wed	11:00–13:00	GER 38	**[DS] Progress in Micro- and Nanopatterning: Techniques and Applications II (Focused Session, jointly with O - Organisers: Graaf, Hartmann)**
O 39.1–39.7	Wed	11:15–13:00	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers III (jointly with HL, DS)**
O 40.1–40.7	Wed	11:15–13:00	PHY C213	**Metal substrates: Adsorption of organic / bio molecules V**
O 41.1–41.7	Wed	11:15–13:00	WIL A317	**Plasmonics and Nanooptics IV**
O 42.1–42.6	Wed	11:15–12:45	WIL B321	**Graphene II**
O 43.1–43.4	Wed	11:15–12:15	WIL B122	**Surface Dynamics II**
O 44.1–44.8	Wed	11:15–13:15	WIL C107	**Nanostructures at surfaces: Dots, particles, clusters, arrays III**
O 45.1–45.7	Wed	11:15–13:00	WIL C307	**Oxides and insulators: Adsorption II**
O 46.1–46.9	Wed	11:15–13:30	CHE 184	**Surface magnetism I (jointly with MA)**
O 47.1–47.1	Wed	14:00–14:45	TRE Phy	**Gaede Prize talk (Philip Hofmann)**
O 48.1–48.7	Wed	15:00–17:00	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers IV (jointly with HL, DS)**
O 49.1–49.9	Wed	15:00–17:15	PHY C213	**Metal substrates: Adsorption of organic / bio molecules VI**
O 50.1–50.8	Wed	15:00–17:00	WIL A317	**Plasmonics and Nanooptics V**
O 51.1–51.9	Wed	15:00–17:15	WIL B321	**Graphene III**
O 52.1–52.9	Wed	15:00–17:15	WIL B122	**Nanostructures at surfaces: Wires, tubes**
O 53.1–53.7	Wed	15:00–16:45	WIL C107	**Solid / liquid interfaces III**
O 54.1–54.5	Wed	15:00–16:15	WIL C307	**Particles and clusters I**
O 55.1–55.7	Wed	15:00–16:45	CHE 184	**Surface magnetism II (jointly with MA)**
O 56.1–56.8	Wed	15:00–17:00	GER 38	**[DS] Progress in Micro- and Nanopatterning: Techniques and Applications III (Focused Session, jointly with O - Organisers: Graaf, Hartmann)**
O 57.1–57.2	Wed	16:30–17:00	WIL C307	**Nanotribology**
O 58.1–58.8	Wed	17:15–19:15	GER 38	**[DS] Plasmonics and Nanophotonics (jointly with HL and O)**

O 59.1–59.20	Wed	17:30–21:00	P3	**Poster Session III (Nanotribology; Polymeric biomolecular films; Organic electronics and photovoltaics, Covalent networks on surfaces; Phase transitions; Particles and clusters; Transparent conductive oxides)**
O 60.1–60.127	Wed	17:30–21:00	P4	**Poster Session IV (Solid/liquid interfaces; Semiconductors; Oxides and insulators; Graphene; Plasmonics and nanooptics; Electronic Structure; Surface chemical reactions; Heterogeneous catalysis)**
O 61.1–61.1	Thu	10:15–11:00	TRE Phy	**Invited Talk (Qikun Xue)**
O 62.1–62.6	Thu	10:15–11:45	GER 38	**[DS] Organic Electronics and Photovoltaics I (jointly with CPP, HL, and O)**
O 63.1–63.8	Thu	11:00–13:00	HSZ 103	**[MA] Surface magnetism III**
O 64.1–64.6	Thu	11:15–13:00	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers V (jointly with HL, DS)**
O 65.1–65.7	Thu	11:15–13:00	PHY C213	**Metal substrates: Adsorption of organic / bio molecules VII**
O 66.1–66.7	Thu	11:15–13:00	WIL A317	**Plasmonics and Nanooptics VI**
O 67.1–67.7	Thu	11:15–13:00	WIL B321	**Graphene IV**
O 68.1–68.7	Thu	11:15–13:00	WIL B122	**Polymeric biomolecular films**
O 69.1–69.8	Thu	11:15–13:15	WIL C107	**Electronic structure I**
O 70.1–70.5	Thu	11:15–13:45	WIL C307	**Gerhard Ertl Young Investigator Award**
O 71.1–71.4	Thu	12:00–13:00	GER 38	**[DS] Organic Electronics and Photovoltaics II (jointly with CPP, HL, and O)**
O 72.1–72.1	Thu	14:00–14:45	TRE Phy	**Invited Talk (Andreas Stierle)**
O 73.1–73.8	Thu	14:00–16:00	GER 38	**[DS] Organic Electronics and Photovoltaics III (jointly with CPP, HL, and O)**
O 74.1–74.6	Thu	15:00–16:30	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers VI (jointly with HL, DS)**
O 75.1–75.8	Thu	15:00–17:00	PHY C213	**Metal substrates: Adsorption of organic / bio molecules VIII**
O 76.1–76.5	Thu	15:00–16:15	WIL A317	**Plasmonics and Nanooptics VII**
O 77.1–77.8	Thu	15:00–17:00	WIL B321	**Graphene V**
O 78.1–78.5	Thu	15:00–16:15	WIL B122	**Surface chemical reactions**
O 79.1–79.8	Thu	15:00–17:00	WIL C107	**Electronic structure II**
O 80.1–80.8	Thu	15:00–17:00	WIL C307	**Epitaxy and growth: Metals and semiconductors I**
O 81.1–81.8	Thu	15:15–17:15	HSZ 103	**[MA] Surface magnetism IV**
O 82.1–82.7	Thu	15:15–17:00	HSZ 401	**[MA] Graphene (jointly with DY, DS, HL, O, TT)**
O 83.1–83.8	Thu	15:15–19:00	HSZ 403	**[MA] Focussed Session "X-ray absorption spectra - state of the art of theory and experiment" (jointly with DS, HL, MM, O)**
O 84.1–84.6	Thu	16:15–17:45	GER 38	**[DS] Organic Electronics and Photovoltaics IV (jointly with CPP, HL, and O)**
O 85.1–85.10	Thu	16:30–19:00	WIL A317	**Electron and spin dynamics I**
O 86.1–86.12	Thu	16:30–19:30	WIL B122	**Heterogeneous catalysis I**
O 87.1–87.7	Thu	17:15–19:15	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers VII (jointly with HL, DS)**
O 88.1–88.9	Thu	17:15–19:30	PHY C213	**Metal substrates: Adsorption of organic / bio molecules IX**
O 89.1–89.4	Thu	17:15–18:15	WIL B321	**Methods: other (experimental)**
O 90.1–90.9	Thu	17:15–19:30	WIL C107	**Electronic structure III**
O 91.1–91.9	Thu	17:15–19:30	WIL C307	**Epitaxy and growth: Oxides and insulators**
O 92	Thu	19:30–20:00	TRE Phy	**General Meeting of the Surface Science Division**
O 93	Thu	20:00–21:00	TRE Phy	**Post Deadline Session**
O 94.1–94.1	Fri	10:15–11:00	TRE Phy	**Invited Talk (Ralph Gebauer)**
O 95.1–95.1	Fri	10:15–10:45	HSZ 04	**[MA] Surface magnetism V**
O 96.1–96.5	Fri	11:15–12:45	TRE Phy	**Focussed session: Theory and computation of electronic structure: new frontiers VIII (jointly with HL, DS)**
O 97.1–97.7	Fri	11:15–13:00	PHY C213	**Heterogeneous catalysis II**
O 98.1–98.8	Fri	11:15–13:15	WIL A317	**Graphene VI**
O 99.1–99.7	Fri	11:15–13:00	WIL B321	**Electron and spin dynamics II**
O 100.1–100.5	Fri	11:15–12:30	WIL B122	**Organic electronics and photovoltaics**
O 101.1–101.7	Fri	11:15–13:00	WIL C107	**Particles and clusters II**
O 102.1–102.7	Fri	11:15–13:00	WIL C307	**Epitaxy and growth: Metals and semiconductors II**
O 103.1–103.1	Fri	13:15–14:00	TRE Phy	**Invited Talk (Karsten Reuter)**

Annual General Meeting of the Surface Science Division

Thursday 19:30–20:00 TRE Phy

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

Post Deadline Session

Post deadline session on Thursday 20:00–21:00 in TRE Phy, followed by the Surface Science get-together.