

**Eingeladenene Vorträge  
AK Steinrück - Lehrstuhl für Physikalische Chemie II  
Universität Erlangen-Nürnberg**

**1998**

D. Borgmann

*Characterization of oxidic catalyst surfaces*

Vortrag an der Universidad National de La Plata (INIFTA), La Plata, Argentinien, März 1998

D. Borgmann

*Co on MoO<sub>3</sub> model catalysts*

Vortrag an der Universidad National de La Plata (INIFTA), La Plata, Argentinien, April 1998

H.-P. Steinrück

*Adsorption und elektronische Struktur einfacher Moleküle auf ultradünnen Metallschichten*

Vortrag am Institut für Festkörperphysik der TU Graz, Oktober 1998

H.-P. Steinrück

*Wechselwirkung einfacher Moleküle mit ultradünnen Metallschichten*

Vortrag am Fritz-Haber-Institut der Max-Planck-Gesellschaft in Berlin, November 1998

H.-P. Steinrück

*Ultradünne Metallschichten - neue Materialien mit neuen Eigenschaften*

Antrittsvorlesung - GDCH-Kolloquium an der Universität Erlangen-Nürnberg, Dezember 1998

**1999**

G. Held

*Präparation und elektronische Eigenschaften von Metallschichtsystemen*

Physikalisch-Chemisches Kolloquium, FAU Erlangen, 19.01.1999

D. Borgmann

*Adsorption and heterogeneous catalysis: Interaction of hydrocarbons with metal surfaces*

Vortrag an der Universidad National de la Plata (INIFTA), La Plata, Argentinien, 20.03.1999

D. Borgmann

*Elektronenspektroskopische Untersuchungen an Eisensiliziden*

Vortrag beim Workshop des SFB 292, Burg Rothenfels, 22.-23.04.1999

H.-P. Steinrück

*Chemische und elektronische Eigenschaften ultradünnner Metallschichten*

Eingeladener Vortrag beim Graduiertenkolleg-Workshop „Adsorption und Strukturierung von Grenzflächen“ in Großbothen bei Leipzig, April 1999

R. Denecke

*Interatomare resonante Photoemission: eine neue Methode zur Identifizierung von Nachbaratomen*

Seminarvortrag am Institut für Technische Physik, FAU Erlangen-Nürnberg, Erlangen, 07.06.1999

H.-P. Steinrück

*Elektronische und chemische Eigenschaften von Metallschichtsystemen*

Physikalisches Kolloquium an der Universität Erlangen-Nürnberg, Juni 1999

H.-P. Steinrück

*Oberflächenforschung: Physik und Chemie in zwei Dimensionen*

Vortrag im Rahmen des Collegium Alexandrinum der Universität Erlangen-Nürnberg

H.-P. Steinrück

*Oberflächenforschung: Physik und Chemie in zwei Dimensionen*

Vortrag aufgezeichnet vom Bayerischen Rundfunk „Dimensionen von Physik und Chemie“

Ausgestrahlt am 20.07.1999, 16:00 und 21.07.1999, 10:00 im Bildungskanal des Bayerischen Rundfunks BR-Alpha

G. Held

*Producing bi-metallic Surfaces by Deposition on Molecular Multilayers*

Vortrag bei den Sandia Livermore National Labs., USA, August 1999

G. Held

*Producing bi-metallic Surfaces by Deposition on Molecular Multilayers*

Vortrag an der University of Wisconsin, Milwaukee, USA, August 1999

H.-P. Steinrück

*Ultradünne Metallschichten - neue Materialien mit neuen Eigenschaften*

Chemisches Kolloquium, TU München, November 1999

H.-P. Steinrück

*Elektronische Struktur und chemische Eigenschaften ultradünner Metallschichten*

Kolloquium, Universität Essen, November 1999

## **2000**

G. Held

*Where will CLEED go: new ideas, problems and challenges*

Vortrag beim Workshop „The Structure Determination of Chemically Complex Systems by Low Energy Electron Diffraction“, Cambridge, Januar 2000

H.-P. Steinrück

*Ultrathin metal films: Correlation between electronic structure and chemical properties*

Vortrag im Chemistry Department, University of Cambridge, England, Januar 2000

R. Neubauer und M. Probst

*Elementary steps in the interaction of atoms and molecules with metals, oxides, silicides and ultrathin metal/metal and oxide/metal layers*

Vortrag beim Süddeutschen Lehrverbund Katalyse, Ulm

H.-P. Steinrück

*Electronic structure and chemical properties of ultrathin metal layers*

Eingeladener Vortrag bei AVS-Meeting in San Jose, USA, Februar 2000

H.-P. Steinrück

*Adsorption of small molecules on ultrathin Cu layers on Ni(111) and Ru(0001)*

Vortrag bei Lawrence Livermore National Laboratories, Livermore, USA, Februar 2000

H.-P. Steinrück, S. Kneitz, J. Gemeinhardt, M. Engelhardt, R. Denecke

*The adsorption dynamics of CO on ultrathin Cu layers*

Eingeladener Vortrag bei 12th Symposium on Surface Science (3S\*2000), Kananaski Village, Alberta, Kanada, März 2000

G. Held

*Elektronische und chemische Eigenschaften dünner Metallfilme*

Seminar für Oberflächenphysik, Inst. f. Festkörperphysik der TU Graz, Österreich, Mai 2000

G. Held

*Advances in quantitative LEED for surface crystallography*

Eingeladener Vortrag beim ECM-19 satellite meeting „Surface Crystallography“, Nancy, Frankreich, Juli 2000

M. Zharnikov und H.-P. Steinrück

*Photoelectron holography of clean and adsorbate covered surfaces*

Eingeladener Vortrag, 26th IUVSTA Workshop on “Surface Holography and Other Direct Methods”, Hongkong, August 2000

R. Denecke

*Temperature-dependent x-ray photoemission study of the dehydrogenation of ethylene and acetylene on Ni(100)*

Eingeladener Vortrag beim MAX-lab Users Meeting 2000, Lund, Schweden, September 2000

G. Held

*Adsorption einfacher Moleküle auf mono- und bimetallischen Oberflächen*

Physikalisch-Chemisches Kolloquium, Universität Erlangen-Nürnberg, November 2000

R. Denecke

*Interatomare resonante Photoemission: eine neue Methode zur Identifizierung von Nachbaratomen*

Seminarvortrag, Institut für Angewandte Physik, Universität Erlangen-Nürnberg

## **2001**

H.-P. Steinrück

*High resolution X-ray photoelectron spectroscopy for the in situ analysis of chemical reactions*

Eingeladener Vortrag beim „Workshop on the Scientific Case of a BESSY VUV-Soft-X-Ray FEL“, Holzhau, Januar 2001

H.-P. Steinrück

*Chemische und elektronische Eigenschaften ultradünner Schichtsysteme*

Kolloquium am Institut für Festkörper- und Werkstoffkunde (IFW) Dresden, Dresden, Juni 2001

H.-P. Steinrück

*In-situ Untersuchung von Oberflächenreaktionen mit höchstaufgelöster Photoelektronenspektroskopie*

Eingeladener Vortrag beim Workshop „Research with Synchrotron Radiation“, Erlangen, 19./20.07.2001

H.-P. Steinrück

*Charakterisierung und chemische Eigenschaften ultradünner Schichtsysteme*

Kolloquium am Institut für Allgemeine Physik der TU Wien, Oktober 2001

G. Held

*The local structure of benzene adsorbed on metal surfaces*

Eingeladener Hauptvortrag beim ECM-20, Krakau, Polen, August 2001

G. Held

*Bimetallische Oberflächen: Das Wechselspiel von Geometrie, elektronischer Struktur und Reaktivität*

Kolloquium am Physik-Department, TU München, November 2001

H.-P. Steinrück

*Physikalische und chemische Eigenschaften ultradünner Schichtsysteme*

Kolloquium am Physik-Department der TU München, November 2001

R. Denecke, M. Kinne, T. Fuhrmann, C. Whelan, H.-P. Steinrück

*High-resolution core-level photoemission experiments for in-situ studies of adsorption kinetics and surface reactions*

Eingeladener Hauptvortrag beim BESSY Nutzertreffen, Dezember 2001

M. Aeschlimann, Th. Fauster, P. Feulner, U. Höfer, D. Menzel, A. Nilsson, H.-P. Steinrück, M. Weinelt, M. Wolf, W. Wurth

*Femtochemistry – Understanding of the Dynamics and Formation of a chemical bond!*

Eingeladener Hauptvortrag beim BESSY Nutzertreffen, Dezember 2001

## **2002**

H.-P. Steinrück

*Wechselwirkung einfacher Moleküle mit ultradünnen Schichtsystemen*

Kolloquium am Institut für Physikalische und theoretische Chemie der Universität Bonn, Januar 2002

H.-P. Steinrück

*Ultrathin layer systems: Characterization, electronic structure and chemical properties*

Plenarvortrag bei der JVC-9 (Joint Vacuum Conference), Schloß Seggau, Leibnitz, Österreich, 16.-20.06.2002

H.-P. Steinrück

*Chemische Eigenschaften von Oberflächen und Schichtsystemen*

GDCh Kolloquium Universität Bayreuth, 04.07.2002

R. Denecke

*In-situ Untersuchungen zu Adsorption und Reaktionen an Oberflächen mit zeitaufgelöster Photoelektronenspektroskopie*

Physikalisch-Chemisches Kolloquium, Universität Erlangen-Nürnberg, 16.07.2002

H.-P. Steinrück

*Methanol-Dampfreformierung an Pd/Zn/ZnO-Katalysatoren*

Präsentation im Rahmen der Begutachtung des DFG-Schwerpunkts „Brückenschläge zwischen idealen und realen Systemen in der heterogenen Katalyse“, Berlin, September 2002

R. Denecke, T. Kinne, T. Fuhrmann, J. Zhu, H.-P. Steinrück

*In-Situ Untersuchungen von Oberflächenreaktionen*

Eingeladener Hauptvortrag bei der Konferenz für angewandte Oberflächenanalytik (AOFA 12), Kaiserslautern, September 2002

H.-P. Steinrück und R. Denecke

*Time Resolved Investigation of Surface Reactions*

Eingeladener Vortrag beim Workshop „ERLSYN-Science 2002 - International Workshop on Scientific Applications of Energy Recovery Linac Driven Synchrotron Light Sources“, Erlangen, 27.-29.09.2002

R. Denecke und H.-P. Steinrück

*Adsorbate systems studied with linearly polarized photons*

Eingeladener Vortrag beim Workshop on „A high-brilliance soft x-ray beamline for the PETRA III storage ring“, Oktober 2002, Hamburg

## **2003**

H.-P. Steinrück

*Synchrotronstrahlung – Licht im Nanokosmos*

Eingeladener Vortrag bei der Strategiediskussion zum BMBF-Förderschwerpunkt „Erforschung kondensierter Materie mit Großgeräten“, Hamburg, 31.01.2003

R. Denecke

*Surface chemistry studied by in-situ x-ray photoelectron spectroscopy*

Seminarvortrag, MAX-lab seminar, Lund University, Lund, Schweden, Mai 2003

R. Denecke

*In-situ Untersuchungen von Oberflächenreaktionen*

Kolloquium, Experimentalphysik II, Universität Würzburg, Juni 2003

R. Denecke

*Surface chemistry studied by in-situ x-ray photoelectron spectroscopy and molecular beam techniques*

Seminarvortrag, Abteilung Oberflächenchemie und Katalyse, Universität Ulm, Juli 2003

J. F. Zhu

*NO Adsorption and Coadsorption with O, CO on Pt(111): In-situ High Resolution XPS Studies*

Seminarvortrag, Institut für Physikalische und Theoretische Chemie, Universität Bonn, Juli 2003

H.-P. Steinrück

*In-situ Studies of Surface Reactions*

Eingeladener Vortrag, 4th Brazilian-German Workshop on Applied Surface Science, Schloß Ringberg, September 2003

H.-P. Steinrück

*Einblicke in die Nanowelt der Oberflächen*

Hauptvortrag bei der Jahresversammlung der Vereinigung der Chemielehrer an Realschulen in Bayern, Universität Erlangen-Nürnberg, Oktober 2003

H.-P. Steinrück

*Surface Reactions studied by in-situ photoelectron spectroscopy*

Kolloquium, Department of Physics, Uppsala University, Schweden, 23.10.2003

H.-P. Steinrück

*Light in the Nanocosmos*

Kurzvortrag, Faculty of Science and Technology, Uppsala University, Schweden, 24.10.2003

## **2004**

R. Denecke

*Projektvorschlag: Stoffübergang beim Vakuumaufkohlen - Untersuchungen zur Adsorption und Dissoziation von Acetylen auf Edelstahl*

Vortrag beim Treffen zur Koordination eines BMBF-Antrages mit der Firma Bosch und anderen Projektpartnern, Schwieberdingen, 28.01.2004

H.-P. Steinrück

*Elementary steps of surface reactions studied by photoelectron spectroscopy*

Kolloquium, Physik-Department der Universität München, 28.01.2004

R. Denecke

*Surface chemistry studied by in-situ x-ray photoelectron spectroscopy*

Eingeladener Hauptvortrag, DPG-Frühjahrstagung 2004, Regensburg, März 2004

R. Denecke

*Characterization of Pd/Zn/ZnO catalysts with „high pressure“ XPS and first results on PdZn alloy formation on Pd(111) - Status report Project D*

Bericht beim internen Statustreffen des Teilprojektes Methanol-Dampfreformierung an Pd/Zn/ZnO-Katalysatoren im Rahmen des DFG-Schwerpunkts SPP 1091 „Brückenschläge zwischen idealen und realen Systemen in der heterogenen Katalyse“, Erlangen, April 2004

H.-P. Steinrück

*Detaillierte Einblicke in Oberflächenreaktionen durch höchstaufgelöste Photoelektronenspektroskopie mit Synchrotronstrahlung*

Kolloquium, Universität Bochum, 04.05.2004

R. Denecke

*Detaillierte Einblicke in Oberflächenreaktionen mit in-situ Röntgenphotoelektronenspektroskopie und Molekularstrahl*

Chemisches Kolloquium, Universität Marburg, Juni 2004

H.-P. Steinrück

*In-situ Untersuchung von Oberflächenreaktionen mit höchstaufgelöster Röntgenphotoelektronenspektroskopie*

Physikalisches Kolloquium, Universität Marburg, 05.07.2004

H.-P. Steinrück

*Methanol steam reforming on Pd/Zn/ZnO catalysts - Bridging the „pressure gap“ and the „materials gap“*

DFG Schwerpunkt 1091 “Heterogene Katalyse”, Antragskolloquium für 3. Förderperiode, Vorstellung der gemeinsamen Projekte der Arbeitsgruppen Wasserscheid/Emig/Popovska/Liauw (Erlangen), Pfeifer/Fichtner (Karlsruhe), Rösch (München) und Steinrück/Borgmann/Denecke (Erlangen), Berlin, September 2004

J. M. Gottfried

*Direkte Messungen von Adsorptionswärmen: Mikrokalorimetrie an Einkristallen*

Kolloquium, Freie Universität Berlin, Germany, 02.11.2004

## 2005

H. Marbach

*Final Development of the Nanoworkbench: A Tool to Probe Electronic Properties of Surfaces and Small Structures*

Seminarvortrag, Universität Hannover, 21.01.2005

R. Denecke

*Reactivity of nano-scaled surfaces – in-situ XPS studies of adsorption and reaction on stepped surfaces*

Eingeladener Hauptvortrag, 2nd international workshop „nanoscience on surfaces“, Obergurgl, 26.-29.04.05

R. Denecke

*Molekularstrahl und XPS – Eine Symbiose für die Oberflächenchemie*

Kolloquium, Universität Ulm, März 2005

R. Denecke und K. M. Neyman

*Methanol-Dampfreformierung an Pd/Zn/ZnO*

Vortrag beim Berichtskolloquium zum DFG-Schwerpunktprogramm 1091, Berlin, September 2005

J. M. Gottfried

*Metal Complexes on Surfaces: Adsorption of Co(II)-Porphyrins on Ag(111)*

Kolloquium, University of Washington, Seattle, USA, 23.08.2005

R. Denecke

*Surface reactions followed by in-situ x-ray photoelectron spectroscopy*

Seminarvortrag, Advanced Light Source/CXRO, Lawrence Berkeley National Laboratory, Berkeley, USA, Juli 2005

R. Denecke

*Surface reactions followed by in-situ x-ray photoelectron spectroscopy*

Seminarvortrag, Chemical and Materials Science, Stanford Synchrotron Radiation Laboratory, Stanford, USA, Juli 2005

H.-P. Steinrück

*Detailed insights in adsorption and reaction on metal surfaces*

SFB Kolloquium, Universität Ulm, 06.12.2005

## **2006**

H. Marbach

*Von der fraktalen Dimensionsbestimmung bis zur Nanostrukturierung von Oberflächen*

Physikalisch-Chemisches Kolloquium, Universität Erlangen-Nürnberg, 31.01.2006

R. Denecke

*Detaillierte Einblicke in Oberflächenreaktionen mit in-situ Photoelektronenspektroskopie*

Kolloquium, Fakultät für Chemie und Mineralogie, Universität Leipzig, Januar 2006

H.-P. Steinrück

*Detaillierte Einblicke in Adsorption und Reaktion auf Metallooberflächen*

Materialwissenschaftliches Kolloquium, TU Wien, 22. März 2006

H.-P. Steinrück

*Electronic structure of adsorbate layers*

Eingeladener Hauptvortrag, 5th Brazilian-German Workshop on Applied Surface Science, Mangaratiba - Rio de Janeiro, Brasilien, April 2006

H.-P. Steinrück

*Adsorption and reaction of porphyrins on metal surfaces*

Kolloquium, SFB 583, Universität Erlangen-Nürnberg, 28. April 2006

H.-P. Steinrück

*Ionic Liquid Surface Science*

Antragskolloquium, SPP 1191 (gemeinsamer Antrag mit Prof. Dr. Peter Wasserscheid, Lehrstuhl für Chemische Reaktionstechnik Universität Erlangen), 18.05.2006

H. Marbach

*Properties of Porphyrins on a Silver Surface investigated by Scanning Tunneling Microscopy*

Seminar zur Physik supramolekularer Systeme, Universität Bielefeld, 19.05.2006

H.-P. Steinrück

*Methanol steam reforming on Pd/Zn/ZnO catalysts*

Eingeladener Hauptvortrag, SPP 1091 Projekt (mit Gerhard Emig, Nadejda Popovska, Marcel Liauw, Maximilian Fichtner, Notker Rösch, Konstantin Neyman, Dieter Borgmann, Reinhard Denecke), Bunsentagung, Erlangen, Mai 2006

H. Marbach

*Clean Porphyrin Films on a Silver (111) Surface: Topography, Electronic Structure and Adsorption of small Molecules*

Hauptvortrag, 2nd Erlangen Symposium on Redoxactive Metal Complexes – Control of Reactivity via Molecular Architecture, Erlangen, 06.10.2006

H. Marbach

*Clean Porphyrin Films on a Silver (111) Surface: Topography, Electronic Structure, Adsorption of small Molecules and in situ Metalation*

Seminarvortrag, TU Wien, 22.11.2006

J. M. Gottfried

*Photoelectron spectroscopy on metalloporphyrins on Ag(111): Coordination chemistry at a surface*

SFB 583, Berichtskolloquium, Universität Erlangen-Nürnberg, 08.12.2006

H.-P. Steinrück

*Tailoring the electronic and chemical properties of solid surfaces*

Eingeladener Hauptvortrag beim 2nd Kyoto-Erlangen Symposium on Advanced Energy and Materials, Kyoto University, Japan, Oktober, 2006

H.-P. Steinrück

*Surface properties studied by electron spectroscopies*

Kolloquium, Osaka University, Japan, Oktober 2006

H.-P. Steinrück

*Chemical reactions of simple and complex molecules on metal surfaces*

Kolloquium, Max-Planck-Institut für Festkörperforschung, Stuttgart, 13.12.2006

R. Denecke

*In-situ XPS studies of adsorption and reaction processes on surfaces*

Kolloquium, Humboldt Universität Berlin, Dezember 2006

## **2007**

J. M. Gottfried

*Coordination chemistry at solid and liquid surfaces*

Kolloquium, Freie Universität Berlin, 17.01.2007

J. M. Gottfried

*Surface-confined coordination chemistry with metalloporphyrins: In-situ metalation and axial coordination*

Eingeladener Hauptvortrag, 223rd ACS National Meeting, Chicago, USA, 2007

R. Denecke

*In-situ spectroscopy of surface reactions – a time-dependent close-up of fundamental steps of heterogeneous catalysis*

Vortrag vor BESSY SAC, 16.04.2007

H.-P. Steinrück

*Photoelectron spectroscopy of complex surfaces: From porphyrins to ionic liquids*

Vortrag bei Lawrence Livermore National Laboratories, Livermore, USA, 23.04.2007

H.-P. Steinrück

*In-situ X-ray photoelectron spectroscopy of surface reactions*

Vortrag an der ALS, Berkeley, USA, 24.04.2007

H.-P. Steinrück

*Detailed Insights in Surface Chemical Reactions: From Simple Molecules to Metallo-Porphyrins*

Vortrag am SLAC, Stanford, USA, 25.04.2007

H.-P. Steinrück

*In-situ studies of complex surface reactions*

Vortrag, University of California, Santa Barbara, USA, 01.05.2007

H.-P. Steinrück

*Surface Chemistry with Porphyrins*

Vortrag, Department of Physics and Astronomy, Rutgers University, Piscataway, USA, 03.05.2007

J. M. Gottfried

*Functionalization of solid and liquid surfaces with coordination compounds*

Kolloquium, TU Ilmenau, 06.06.2007

J. M. Gottfried

*Aromatic molecules and coordination compounds on solid and liquid surfaces - What can we learn from adsorption calorimetry and photoelectron spectroscopy?*

Vortrag, ETH Zürich, Schweiz, 20.06.2007

J. M. Gottfried

*Functionalization of solid and liquid surfaces with coordination compounds*

Vortrag, EMPA, Dübendorf, Schweiz, 21.06.2007

J. M. Gottfried

*Aromatic molecules and coordination compounds on solid and liquid surfaces - What can we learn from adsorption calorimetry and photoelectron spectroscopy?*

Vortrag, Physikalische Chemie, Universität Bonn, 29.06.2007

H. Marbach

*Oberflächen mit maßgeschneiderten Eigenschaften*

Eingeladener Hauptvortrag beim Workshop „Innovative Oberflächen“ im Rahmen des Clusters Chemie der Bayerischen Staatsregierung, 18.07.2007

F. Maier

*Oberflächenuntersuchungen an einfachen und komplexen Systemen ionischer Flüssigkeiten mit Photoelektronenspektroskopie*

Vortrag, Institut für Metallurgie, Technische Universität Clausthal, 19.07.2007

R. Denecke

*In-situ Spektroskopie von Oberflächenreaktionen – zeitaufgelöste Analytik grundlegender Schritte der heterogenen Katalyse*

Eingeladener Hauptvortrag, 14. Tagung für Festkörperanalytik, TU Wien, Juli 2007

H.-P. Steinrück

*In-situ Untersuchungen komplexer Oberflächenreaktionen*

Kolloquium, TU Clausthal, 28.11.2007

H.-P. Steinrück

*Molecular Surface Science*

Vortrag bei der Südchemie, Heufeld, 30.11.2007

J. M. Gottfried

*Coordination Chemistry at Solid and Liquid Surfaces*

Vortrag, TU München, Dezember 2007

H. Marbach

*Lithographic Fabrication of Nanostructures by Electron-Beam Induced Deposition in UHV*

Vortrag, TU Wien, Dezember 2007

F. Maier

*Ionic Liquid Surface Science*

Eingeladener Hauptvortrag beim Annual Meeting of the DFG Priority Programm SPP 1191 „Ionic Liquids“, Bamberg, 12.-14.12.2007

## **2008**

H.-P. Steinrück

*Surface Chemical Reactions: From Simple Molecules to Metallo-Porphyrins*

SFB 658 Kolloquium, FU Berlin, 17.01.2008

J. M. Gottfried

*In-situ Untersuchungen von Elektrodenprozessen mittels Photoelektronenspektroskopie*

Vortrag, DFG Rundgespräch „Grenzflächenprozesse bei Energiespeicherung und -umwandlung“ im Harnack-Haus der Max-Planck-Gesellschaft, Berlin, April 2008

J. M. Gottfried

*Surface functionalization with metalloporphyrin and metallophthalocyanine complexes*

Vortrag, CERC-3 Young Chemists' Workshop „Surface Chemistry of Nanomaterials“, Wien, Österreich, Mai 2008 (nominiert durch die Deutsche Forschungsgemeinschaft)

H.-P. Steinrück

*Eberhard Umbach - zum Sechzigsten*

Festkolloquium, Forschungszentrum Karlsruhe, 9. Mai 2008

H. Marbach

*A Close-up View of Functional Molecules: Ordering, Electronic Structure and In-situ Reactions of Porphyrin Derivates on Ag(111) Studied by STM*

Vortrag, Universität Hannover, Juni 2008

F. Bebensee

*Adsorption Microcalorimetry and its Application to the Study of Metal-Polymer-Interfaces*

Seminar, TU Clausthal, 25.06.2008

H.-P. Steinrück

*Ionic Liquid Surface Science*

Eingeladener Hauptvortrag, Symposium “Concepts and Strategies in Interphase Science”, Liscombe, Halifax, Kanada, July 2008

H.-P. Steinrück

*In-situ X-ray photoelectron spectroscopy of surface reactions*

Eingeladener Hauptvortrag, European Conference on Surface Science, ECOSS 25, Liverpool, UK, July 2008  
Book of Abstracts, Liverpool 2008, S. 558-559

J. M. Gottfried

*Coordination Compounds at Solid and Liquid Surfaces: Formation, Electronic Structure, and Reactivity*

Kolloquiumsvortrag, University of Washington, Seattle, USA

H.-P. Steinrück

*Surface Properties of Ionic Liquids*

Eingeladener Hauptvortrag, 6th Brazilian-German Workshop on Applied Surface Science, Titisee, Deutschland, September 2008

H.-P. Steinrück

*In-situ Untersuchungen komplexer Oberflächenreaktionen*

Kolloquium, Universität Osnabrück, 13.11.2008

J. M. Gottfried

*Metallkomplexe und Koordinationschemie an festen und flüssigen Oberflächen*

Kolloquiumsvortrag, Universität Bremen, 14.11.2008

H. Marbach

*Porphyrins on the Ag(111) surface: ordering aspects, electronic structure and coordination chemistry*

SFB 583 Berichtsseminar, Erlangen, 21.11.2008

J. M. Gottfried

*Surface Chemistry of Metal Complexes and Ionic Liquids*

Kolloquiumsvortrag, FU Berlin, 28.11.2008

H.-P. Steinrück

*Umgang mit Rankings und Nutzung der Ergebnisse des Forschungsratings Soziologie und Chemie - Impulsreferat aus der Praxis*

Eingeladener Hauptvortrag beim „Workshop zur Ergebnisnutzung der Pilotstudie Wissenschaftsrating“, Wissenschaftsrat, Bonn, 10.12.2008

H.-P. Steinrück

*Universitäre Standortplanung aus Sicht eines Betroffenen*

Eingeladener Hauptvortrag beim Workshop „Profilbildung und Standortplanung der österreichischen Universitäten“, Österreichische Forschungsgemeinschaft, Wien, Österreich, 12./13.12.2008

## **2009**

H. Marbach

*Direct writing of clean nanostructures with a focused electron-beam in ultra high vacuum*

Vortrag, Universität Bremen, 16.01.2009

K. Lovelock

*Surface Properties of Ionic Liquids*

Vortrag, Science Day des Clusters of Excellence „Engineering of Advanced Materials“, Erlangen, 09.02.2009

J. M. Gottfried

*Surface-confined coordination chemistry with porphyrins and phthalocyanines*

Kolloquiumsvortrag, Universität Ulm, 13.02.2009

J .M. Gottfried

*Surface-confined coordination chemistry with porphyrins and phthalocyanines*

Kolloquiumsvortrag, University of Liverpool, 18.02.2009

J. M. Gottfried

*Surface-confined coordination chemistry with porphyrins and phthalocyanines*

Kolloquiumsvortrag, University of Reading, 23.02.2009

J. M. Gottfried

*Surface Functionalisation with Porphyrins and other Planar Metal Complexes*

Kolloquiumsvortrag, University of St. Andrews, 26.02.2009

K. Lovelock und A. Fröba

*Surface Composition and Surface Tension Investigations of Ionic Liquid Systems*

Eingeladener Hauptvortrag, Annual Meeting of the DFG Priority Programm SPP 1191 „Ionic Liquids“, Bamberg, 04.-06.03.2009

H. Marbach

*Focussed electron-beam induced processing to write nanopatterns*

Hauptvortrag, Winterschule des Clusters of Excellence „Engineering of Advanced Materials“, Kirchberg, Österreich, 16.-20. März 2009

J. M. Gottfried

*Surface-confined coordination chemistry with porphyrins and phthalocyanines*

Eingeladener Hauptvortrag, DPG Frühjahrstagung, Dresden, 23.03.2009

J. M. Gottfried

*Surface Coordination Chemistry with Porphyrins*

Colloquium, University of Science and Technology of China, National Synchrotron Radiation Laboratory, Hefei, Anhui, China, 10.04.2009

J. M. Gottfried

*Surface Chemistry of Gold Catalysis and Ionic Liquids*

Colloquium, National Laboratory for Physical Sciences at the Microscale, Department of Chemical Physics, University of Science and Technology of China, Hefei, China, 24.04.2009

H. Marbach

*Electron-beam induced deposition in UHV: “nanowriting” with an electron-beam as a pen and precursor molecules as ink*

Physikalisches Kolloquium, Universität Bielefeld, 27.04.2009

J. M. Gottfried

*Adsorption and Surface Reactions of Redox-Active Planar Metal Complexes*

Colloquium, Nanchang University, Institute of Advanced Studies, Nanchang, Jiangxi, China, 27.04.2009

H.-P. Steinrück

*Eigenschaften komplexer Oberflächen: Von Porphyrinen zu Ionischen Flüssigkeiten*

Physikalisches Kolloquium, Universität Würzburg, 18.05.2009

F. Maier

*The Relationship between the Surface Composition of Ionic Liquids and their Chemical Structure*

COIL III - Japanese Pre-Symposium of Ionic Liquids, Cairns, Australien, 29.05.2009

H.-P. Steinrück

*Photoelektronenspektroskopie an komplexen Oberflächen: Von Ionischen Flüssigkeiten zu Porphyrinen*

GDCh-Kolloquium, Universität Gießen, 26.05.2009

H. Marbach

*Lithographic fabrication of clean iron nanostructures by electron-beam induced deposition in ultra-high vacuum*

Eingeladener Hauptvortrag, 2nd annual meeting of COST Action CM 0601, Istanbul, 2009

J. M. Gottfried

*Catalysis by Gold – Fundamental and Complex Model Systems*

Kolloquium, Physikalische Chemie, Universität Bremen, Juli 2009

J. M. Gottfried

*Surface Chemistry with Porphyrins*

Kolloquium, Institute of Bio- and Nanosystems, Forschungszentrum Jülich, Deutschland, Juli 2009

H.-P. Steinrück

*Photoelektronenspektroskopie an komplexen Oberflächen*

Eingeladener Hauptvortrag, 15. Tagung Festkörperanalytik (FKA-15), Chemnitz, 12.-16.07.2009

F. Bebensee

*Adsorption Calorimetry on Metal-Polymer-Interfaces*

Physical Chemistry Seminar, Harvard University, Cambridge, Massachusetts, USA, 28. August 2009

F. Bebensee

*Adsorption Microcalorimetry Investigations on Metal-Polymer-Interfaces*

Physical Chemistry Seminar, Indiana University, Bloomington, Indiana, USA, 10. September 2009

H.-P. Steinrück

*Lithographic fabrication of clean iron nanostructures by electron-beam induced deposition in ultra-high vacuum*

Kolloquium, Tongji University, Shanghai, China, September 2009

H.-P. Steinrück

*Surface Characterization of Complex Materials*

Kolloquium, Jiao Tong University, Shanghai, China, September 2009

H.-P. Steinrück

*Surface Chemical Reactions: From Simple Molecules to Porphyrins*

Kolloquium, Fudan University, Shanghai, China, September 2009

H.-P. Steinrück

*In-situ photoelectron spectroscopy of surface reactions*

Kolloquium, University of Science and Technology of China (USTC), Hefei, Anhui, China, September 2009

H.-P. Steinrück

*Ionic Liquid Surface Science*

Kolloquium, Northwest Industrial University, Xiam, China, September 2009

F. Bebensee

*Metal-Polymer-Interfaces: Energetics and Structure*

Specialized iNANO Lecture, iNANO Center, Aarhus University, Aarhus, Dänemark, 22. September 2009

E. Zillner

*Dynamics and Self-Assembly of Tetraphenylporphyrins on Cu (111) and Ag (111): A Scanning Tunneling Microscopy Study*

Seminar, Helmholtz-Zentrum Berlin für Materialien und Energie, Bereich Solarenergieforschung, Institut für Heterogene Materialsysteme

H. Marbach

*Scanning Tunneling Microscopy of Porphyrins: Towards the Engineering of Functional Molecular Architectures*

Seminar, Institut für Physik, TU Chemnitz, November 2009

J. M. Gottfried

*Surface Chemistry of Porphyrins and other Complex Adsorbate Systems*

Vorstellungsvortrag, FU Berlin, Dezember 2009

## **2010**

R. Streber

*Reaction kinetics on platinum surfaces: In-situ XPS studies*

Specialized iNANO Lecture, iNANO Center, Aarhus University, Aarhus, Dänemark, Januar 2010

C. Papp

*Angle resolved photoemission in the multi-keV regime: first experiments and theory*

Eingeladener Hauptvortrag, Hard X-ray Photo Emission Spectroscopy Workshop (HAXPES 2010), SOLEIL, Paris, Frankreich, 19.01.2010

H.-P. Steinrück

*Surface Reactions*

Eingeladener Hauptvortrag, Rundgespräch: „Principles and Applications of Catalysis“, Bad Honnef, 17.-19. Februar 2010

J. M. Gottfried

*Complex surfaces: From porphyrins to polymers and ionic liquids*

Vorstellungsvortrag, Universität Leipzig, 14.04.2010

H.-P. Steinrück

*Complex surfaces - reactions and properties*

Eingeladener Hauptvortrag, Festkolloquium anlässlich des 75. Geburtstages von Prof. Dr. Dietrich Menzel, Max-Planck-Institut für Plasmaphysik, IPP, Garching, 20.04.2010

J. M. Gottfried

*Interfacial coordination chemistry with porphyrins (announced)*

Keynote Lecture (Fortschrittsbericht), 109. Jahrestagung der Bunsen-Gesellschaft für Physikalische Chemie (Bunsen-Tagung), Bielefeld, 13.-15. Mai 2010

J. M. Gottfried

*Complex surfaces: From porphyrins to polymers and ionic liquids*

Vorstellungsvortrag, Universität Leipzig, Mai 2010

H.-P. Steinrück

*Chemistry of Complex Surfaces*

Kolloquium, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, 2. Juni 2010

F. Maier

*Ionic Liquid Surface Science*

Seminarvortrag, Lehrstuhl für Festkörperphysik, Universität Erlangen-Nürnberg, 7. Juni 2010

J. M. Gottfried

*Surface chemistry of complex model systems – Porphyrins, polymers and ionic liquids*

Vortrag, Universität Krakau, Polen, Juni 2010

J. M. Gottfried

*Chemistry at complex surfaces: From porphyrins to polymers and ionic liquids*

Vorstellungsvortrag, Universität Bochum, Juni 2010

H. Marbach

*Microscopic and Spectromicroscopic Insight and Fabrication of Nanoscaled Structures on surfaces*

Vortrag, SFB 569, Universität Ulm, 30. Juni 2010

H. Marbach

*Microscopic Insight into the Arrangement and Functionalization of Porphyrins on Surfaces*

Eingeladener Hauptvortrag, International Conference on Porphyrins and Phthalocyanines (ICPP-6), New Mexico, USA, July 2010

J. M. Gottfried

*Metalloporphyrin complexes at solid and liquid surfaces: Formation, redox chemistry and surface coordinate bond*

Eingeladener Hauptvortrag, International Conference on Porphyrins and Phthalocyanines (ICPP-6), New Mexico, USA, July 2010

F. Maier

*Insights into Surface Science of Ionic Liquids*

University of Science and Technology of China, Hefei, Anhui, China, 13.09.2010

H. Marbach

*Towards the Engineering of Functional Molecular Architectures: Dynamics and Ordering Aspects of Porphyrins on Metal Surfaces*

Eingeladener Hauptvortrag, 10th European Conference on Surface Crystallography and Dynamics (ECSCD-10), Reading, UK, September 2010

H.-P. Steinrück

*Chemistry of complex surfaces - from porphyrins to ionic liquids*

Eingeladener Hauptvortrag, Symposium „Nanomaterials - New Horizons“ at the International Forum on Nanotechnolgy „RusNANOtech“, Moskau, November 2010

H.-P. Steinrück

*Some fundamental aspects of photoelectron spectroscopy*

Introductionary lecture, University of Science and Technology of China (USTC), Hefei, Anhui, China, November 2010

H.-P. Steinrück

*Towards the engineering of nanoscale surface structures - from in situ metallation to electron beam induced deposition*

Kolloquium, University of Science and Technology of China (USTC), Hefei, Anhui, China, November 2010

H. Marbach

*How to exploit substrate-molecule interactions for the assembly and functionalization of porphyrin derivatives*

Vortrag, Workshop of graduate school “NTH school for contacts in nanosystems”, Hameln, 27.11.2010

## 2011

H. Marbach

*Electron Beams and Porphyrins: Microscopic Insight and Fabrication of Nanoscaled Structures on Surfaces*

Seminarvortrag, Physik-Department E20, TU München, 13.01.2011

H.-P. Steinrück

*Ionic Liquid Surface Science*

Eingeladener Hauptvortrag, Gordon Conference, Ventura, Kalifornien, February 2011

H. Marbach

*Electron Beams and Porphyrins: Microscopic Insight and Fabrication of Nanoscaled Structures on Surfaces*

Physical Chemistry Seminar, Chemistry Department, University College London, UK, 23.02.2011

H. Marbach

*Writing nanostructures with a focused electron beam*

Eingeladener Hauptvortrag, DPG Frühjahrstagung, Dresden, März 2011

F. Buchner

*STM Investigation of Molecular Architectures of Porphyrins on Ag(111) and Cu(111) - Supramolecular Ordering, Electronic Properties, Reactivity*  
Seminarvortrag, OSRAM, Regensburg, 22.3.2011

H.-P. Steinrück

*Surface Chemical Reactions: From Simple Molecules to Porphyrins*  
Eingeladener Hauptvortrag, 7th Brazilian-German Workshop on Applied Surface Science, Rio de Janeiro, Brasilien, April 2011

C. Papp

*In-Situ X-Ray Photoelectron Spectroscopy of Surface Chemistry*  
Physikalisch-Chemisches Kolloquium, Universität Erlangen-Nürnberg, 2. Mai 2011

H.-P. Steinrück

*Surface science of complex molecular systems*  
Eingeladener Hauptvortrag, Symposium „Frontiers in Interface Science - Theory and Experiment“, Berlin, 30.06.2011

M. Laurin et al.

*Ionic Liquid Based Model Catalysts*  
Keynote Lecture, Europacat, Glasgow, Schottland, 28.08.-02.09. 2011

H.-P. Steinrück

*Surface Chemical Reactions: From Simple Molecules to Porphyrins*  
Kolloquium, Hungarian Academy of Sciences, Budapest, Ungarn, 6. September 2011

H.-P. Steinrück

*In-situ photoelectron spectroscopy of surface reactions*  
Kolloquium, Reaction Kinetics Research Group of the Hungarian Academy of Sciences and University of Szeged, Szeged, Ungarn, 8. September 2011

H.-P. Steinrück

*Surface Science goes liquid!*  
Invited Plenary Lecture, US DOE Catalysis Sciences Meeting „Frontiers in Catalysis: Heterogeneous, Surface, Photo- and Electrochemical“, Annapolis, Maryland, USA, 02.-05.10.2011

F. Maier

*Insights into Thermodynamics at Liquid Interfaces by Means of Angle Resolved Photoelectron Spectroscopy and Surface Tension Studies*  
XVIII Russian Conference on Chemical Thermodynamics, Samara, Russland, 03.-07.10.2011

H. Marbach

*Direct observation of conformational switching of 2H-5,10,15,20-Tetrakis-(3,5-di-tert-butyl)-phenylporphyrin on Cu(111)*  
Eingeladener Vortrag, 3rd Erlangen Symposium on Redox-Active Metal Complexes–Control of Reactivity via Molecular Architecture, Erlangen, October 2011

M. Schmid

*Examining the interfacial chemistry of organic molecules with photoelectron spectroscopy*  
Physical Chemistry Seminar, Harvard University, Cambridge, Massachusetts, USA, 20. October 2011

T. Cremer

*XPS studies of ionic liquids - from IL bulk and surface properties to IL thin film investigations*  
Physical Chemistry Seminar, Harvard University, Cambridge, Massachusetts, USA, 20. October 2011

M. Schmid

*Interfacial coordination chemistry of tetrapyrroles*

UC Riverside, Kalifornien, USA, 25.10.2011

H. Marbach

*Electron Beams and Porphyrins: towards the rational design of functional nanostructures from molecular building blocks*

Kolloquium, Universität Bonn, 18.11.2011

H.-P. Steinrück

*Surface studies of complex molecular systems*

Kolloquium, TU Graz, Österreich, 22.11.2011

## **2012**

F. Buchner

*STM Investigation of Molecular Architectures of Porphyrins on Ag(111) and Cu(111) - Supramolecular Ordering, Electronic Properties, Reactivity and Diffusion*

Seminarvortrag, Physikalische Chemie, Universität Ulm, 24.01.2012

M.-M. Walz

*Fabrication of Clean Iron Nanostructures on Silicon Oxide via Focused Electron Beam Induced Deposition*

Seminar talk, Department of Physics and Astronomy, Uppsala University, Schweden, 06.02.2012

M.-M. Walz

*Fabrication of Clean Iron Nanostructures on Silicon Oxide via Focused Electron Beam Induced Deposition*

Seminar talk, Department of Engineering Sciences, Electron Microscopy and Nanoengineering, Uppsala University, Schweden, 07.02.2012

H.-P. Steinrück

*Surface chemistry of complex molecular systems*

Plenarvortrag, 45. Jahrestreffen Deutscher Katalytiker, Weimar, Deutschland, 14.-16.03.2012

C. Papp

*Chemical Modification of Graphene - Nitrogen doping of Graphene on Ni(111)*

Kolloquium, University of Science and Technology of China (USTC), Hefei, Anhui, China, March 2012

H.-P. Steinrück

*Surface and interface properties of ionic liquids*

Eingeladener Hauptvortrag, 243. ACS-Meeting San Diego, USA, 28.03.2012

H.-P. Steinrück

*Surface chemistry with porphyrins*

Seminar, University of California, Santa Barbara, USA, 04.04.2012

H.-P. Steinrück

*Surface science of complex molecular systems*

Seminar, SUNCUT at SLAC, Stanford University, USA, 06.04.2012

H.-P. Steinrück

*Surface and Interface Properties of Ionic Liquids - Insights from X-ray photoelectron spectroscopy*

Eingeladener Hauptvortrag, 2012 MRS Spring Meeting, San Francisco, USA, 11. April 2012

O. Höfert  
*Oxides & Kinetics*  
Seminarvortrag, Universität Osnabrück, 16.04.2012

H. Marbach  
*From porphyrins to electron beams; or how to mount a molecular switch?*  
Seminarvortrag, Universität Innsbruck, 17.04.2012

F.Maier  
*Ionic Liquid Surfaces Elucidated by Angle Resolved Photoelectron Spectroscopy and Surface Tension Measurements*  
Eingeladener Vortrag, Bunsenkolloquium „Molecular Thermodynamics of Complex Systems“, Universität Rostock, 25. April 2012

H.-P. Steinrück  
*Surface Chemistry of Porphyrinoids*  
Kolloquium, FHI Berlin, 14.05.2012

F. Maier  
*Monitoring liquid phase organic reactions by X-ray photoelectron spectroscopy*  
Eingeladener Fortschrittsbericht, Bunsentagung, Leipzig, 17.-19.05.2012

H.-P. Steinrück  
*Adsorption and reaction of hydrocarbons on metals – from small molecules to supported heterographene*  
Eingeladener Hauptvortrag, German-Russian Conference on Fundamentals and Applications of Nanoscience, FU Berlin, 19.-21.05.2012

H.-P. Steinrück  
*Genau hingeschaut! - In situ Studien von Oberflächenreaktionen*  
Kolloquium, TU Ilmenau, 05.06.2012

H.-P. Steinrück  
*Surface science studies of complex molecular systems*  
Kolloquium, Karlsruhe Institute of Technology (KIT), Karlsruhe, 18.06.2012

F. Maier  
*Ionic liquid interface science*  
Invited Lecture, Workshop on “Ionic Liquids and Coulomb Fluids at Interfaces” at Cumberland Lodge, Windsor Great Park, UK, 25.-27.06.2012

H.-P. Steinrück  
*In situ studies of chemical reactions on surfaces and in ionic liquids by X-ray photoelectron spectroscopy*  
Invited lecture, Workshop on „Atomic and Electronic Structures of Surfaces and Interfaces“, Diamond Light Source, Oxfordshire, UK, 09.-10.07.2012

H.-P. Steinrück  
*Interface and bulk properties of imidazolium -based ionic liquids: Detailed insight from systematic angle resolved XPS*  
Eingeladener Hauptvortrag, 244. ACS-Meeting, Symposium „Chemistry and Physics in Tribology“, Philadelphia, USA, 19.-23.08.2012

H.-P. Steinrück  
*In-situ monitoring of chemical reactions in Ionic Liquids*  
Eingeladener Hauptvortrag, 244. ACS-Meeting, Symposium „Recent advances in studies of molecular processes at liquid interfaces“, Philadelphia, USA, 19.-23.08.2012

H.-P. Steinrück

*Ionic Liquid Surface Science*

Keynote Speech, 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes (APCIL'12), Peking, China, 17.-19.09.2012

H. Marbach

*Surface Science with porphyrins: towards the rational design of functional molecular architectures*

Workshop, Universität Hamburg, 20.09.2012

H.-P. Steinrück

*In Situ Studies of Surface Chemical Reactions: From Simple Molecules to Porphyrins*

Institute of Coal Chemistry, Chinese Academy of Sciences, Taiyuan, Shanxi, China, 21.09.2012

H.-P. Steinrück

*Surface, interface and bulk properties of ionic liquids*

University of Science and Technology of China (USTC), Hefei, Anhui, China, 24.09.2012

H.-P. Steinrück

*High resolution X-ray photoelectron spectroscopy*

University of Science and Technology of China (USTC), Hefei, Anhui, China, 24.09.2012

H.-P. Steinrück

*Surface chemical reactions: detailed insights from high resolution X-ray photoelectron spectroscopy*

Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China, 27.09.2012

J. Xiao

*Adsorbate Interactions with Organic Ferroelectric Polymers*

Seminar, MaxLAB, Lund, Schweden, 02.10.2012

H. Marbach

*Towards the rational design of functional nanostructures from molecular building blocks*

Kolloquium, Hungarian Academy of Sciences, Budapest, 02.10.2012

C. Papp

*In situ Kinetics of Surface Reactions and Graphene Growth and Modification*

Kolloquium, Reaction Kinetics Research Group of the Hungarian Academy of Sciences und University of Szeged, Szeged, Ungarn, 04.10.2012

H. Marbach

*A Surface Science approach to Microscopy and Nanolithography in Erlangen*

Seminar, Reaction Kinetics Research Group of the Hungarian Academy of Sciences und University of Szeged, Szeged, Ungarn, 04.10.2012

J. Xiao

*Phthalocyanine Interactions with Metal Substrates*

Seminar, BESSY II, Berlin, 08.10.2012

H. Marbach

*Nanoscience and Surface Chemistry*

Seminar, Zeiss, Frankfurt, 12.10.2012

F. Maier

*Ultra thin ionic liquid films grown on solids – Molecular orientation and film growth studied by angle resolved*

*XPS*

Seminar, Physikalische Chemie, Universität Ulm, 06.11.2012

H.-P. Steinrück  
*Oberflächenforschung an komplexen molekularen Systemen*  
Physikalische Gesellschaft zu Berlin, Magnushaus, Berlin, 08.11.2012

H.-P. Steinrück  
*Surface and Interface Properties of Ionic Liquids*  
Stöckhardt Kolloquium, TU Chemnitz, 06.12.2012

## **2013**

H.-P. Steinrück  
*Hydrocarbon adsorption on metals: detailed insights from high-resolution X-ray photoelectron spectroscopy*  
Symposium „Nanoscience on Surfaces: Present stand and future challenges“, Schladming, Österreich, 20.-23.01.2013

H.-P. Steinrück  
*Surface Chemical Reactions: From Simple Molecules to Porphyrins*  
GDCh-Kolloquium Universität Ulm, 31.01.2013

A. Deyko  
*Surface analysis of ionic liquids/molten salts*  
Seminar, Imperial College London, UK, 06.02.2013

F. Maier  
*Ionic liquid surface science: Following organic reactions with XPS*  
Vortrag, Chemiedozententagung Berlin, 13.03.2013

H.-P. Steinrück  
*In situ studies of surface reactions in model systems - from simple molecules to liquid organic hydrogen carrier materials*  
Eingeladener Hauptvortrag, Wilhelm und Else Heraeus-Seminar zum Thema „Energy-related catalysis today and tomorrow: From fundamentals to applications“, Bad Honnef, 25.-28. März 2013

H.-P. Steinrück  
*Ionic Liquid Surface Science*  
Rutgers University, Department of Chemistry, Piscataway, USA, 04.04.2013

H.-P. Steinrück  
*Surface Science with Porphyrins*  
Rutgers University, Department of Physics and Astronomy, Piscataway, USA, 05.04.2013

H.-P. Steinrück  
*In Situ Studies of Surface Chemical Reactions: From Simple Molecules to Porphyrins*  
Eingeladener Hauptvortrag, 245. ACS-Meeting, A.W. Adamson Award-Symposium, New Orleans, USA, 07.-11.04.2013

H.-P. Steinrück  
*In situ studies of surface reactions - from small molecules to graphene and porphyrins*  
Eingeladener Hauptvortrag, Symposium Niedersächsische Technische Hochschule (NTH), Goslar, 13.-15.06.2013

H.-P. Steinrück  
*X-ray photoelectron spectroscopy of ionic liquid interfaces*  
Eingeladener Vortrag, CENEM Workshop „Neutron for Functional Materials“, Erlangen, 18.-19.06.2013

C. Papp

*In situ XPS studies of the growth and the modification of graphene*

Clausthal, 19.06.2013

H. Marbach

*On the dynamics of molecular processes on surfaces with scanning tunneling microscopy*

Universität Ulm, 02.07.2013

C. Papp

*In situ Studies of Surface Reactions*

Harvard University, Cambridge, USA, 03.07.2013

C. Bronnbauer

*Modeling catalytic reactions: Graphene supported noble metal cluster arrays studied with high resolution XPS*

Lehrstuhl für Werkstoffwissenschaften (Materialien der Elektronik und der Energietechnologie), Universität Erlangen-Nürnberg, September 2013

H.-P. Steinrück

*Ionic liquid surface science: Interface properties and chemical reactions*

Invited Talk, IVC-19 / ICN T 2013 / ICSS 15 conference in Paris, Frankreich, 09.-13.09.2013

H. Marbach

*Towards room temperature switching of individual molecules*

Invited short presentation, 8th Brazilian-German Workshop on Applied Surface Science, Bamberg, 15.-20.09.2013

C. Papp

*Growth and Doping of Graphene*

Invited short presentation, 8th Brazilian-German Workshop on Applied Surface Science, Bamberg, 15.-20.09.2013

H.-P. Steinrück

*Surface Science of Complex Molecular Systems*

Eingeladener Hauptvortrag, 49th Symposium on Theoretical Chemistry, Erlangen, 22.-27.09.2013

C. Papp

*Chemical Modification of Graphene*

Second Erlangen Symposium on Synthetic Carbon Allotropes, Erlangen, 29.09.-02.10.2013

C. Gleichweit

*Dehydrogenation of Liquid Organic Hydrogen Carriers - In-situ Spectroscopic Studies*

Institut für Festkörperphysik, TU Graz, 31.10.2013

H. Marbach

*Towards the engineering of functional molecular architectures on surfaces*

Universität Hannover, 11.11.2013

H. Marbach

*Insights into a prototype functional molecule: self-assembly, dynamics, conformational switching and reactivity of porphyrins on surfaces*

TU Clausthal, 13.11.2013

H.-P. Steinrück

*Surface chemical reactions: Detailed insights from isothermal studies*

9th International Symposium on Atomic Level Characterizations for New Materials and Devices '13 (ALC'13), Hawaii, USA, 02.-06.12.2013

H.-P. Steinrück

*Surface Science of Complex Molecular Systems*

Opening lecture, Nottingham Nanoscience and Nanotechnology Centre X-ray Photoelectron Spectroscopy  
Suite, Nottingham, UK, 17.12.2013

## **2014**

H. Marbach

*Electron Beam Induced Surface Activation: a new route for the fabrication of clean metallic nanostructures*  
TU Wien, 14.01.2014

C. Kolbeck

*Surface Characterisation of Ionic Liquid Systems by angle-resolved X-ray Photoelectron Spectroscopy (ARXPS)*  
TU Wien, 17.01.2014

H. Marbach

*On the energy to bend a molecule: extracting information from the nanoworld with a scanning tunneling microscope*  
Summerschool, Campinas University, Brasilien, 20.02.2014

H. Marbach

*Surface Science with porphyrins: adsorption behavior, reactivity, electronic structure*  
Campinas University, Brasilien, 24.02.2014

H.-P. Steinrück

*Coverage-induced Enhancement of the Self-Metalation of 2H-Tetraphenylporphyrins on Cu(111)*  
247. ACS-Meeting, Dallas, USA, 18.03.2014

H. Marbach

*Lithographic fabrication of clean nanostructures via Electron Beam Induced Surface Activation: new perspectives and challenges for precursor fabrication*  
Eingeladener Vortrag, Workshop of EU COST Action CM 1301 „Chemistry for EElectron-Induced Nanofabrication (CELINA)”, Erlangen, 20.03.2014

H.-P. Steinrück

*In situ studies of surface reactions*

Hong Kong University of Science and Technology, China, 17.04.2014

H.-P. Steinrück

*Surface chemistry of hydrocarbons*

Lu Jiaxi Lectureship, Xiamen University, Xiamen, China, 21.04.2014

H.-P. Steinrück

*Surface Science of complex adsorbate layers - from small molecules to porphyrins*

Zhejiang University, Hangzhou, China, 23.04.2014

H.-P. Steinrück

*In situ Studies of Surface Reactions*

3rd Annual Conference and EXPO of AnalytiX 2014, Dalian, China, 25.-28.04.2014

H.-P. Steinrück

*High resolution X-ray photoelectron spectroscopy*

University of Science and Technology of China (USTC), Hefei, Anhui, China, 28.04.2014

H.-P. Steinrück

*Surface chemistry with porphyrinoids*

University of Science and Technology of China (USTC), Hefei, Anhui, China, 29.04.2014

H.-P. Steinrück

*Surface Science of Complex Molecular Systems*

Physik, TU Chemnitz, 14.05.2014

H.-P. Steinrück

*A look at the physics and chemistry of complex surfaces*

Physik, TU Wien, 20.05.2014

C. Papp

*Hydrogen Storage in Liquid Organic Hydrogen Carriers*

EAM Summerschool, Kloster Banz, 17.07.2014

H.-P. Steinrück

*Surface chemistry of hydrocarbons - from small molecules to graphene and liquid organic hydrogen carriers*

Universitat de Barcelona, Spanien, 17.07.2014

H.-P. Steinrück

*Surface Chemistry of Hydrocarbons*

Eingeladener Hauptvortrag, 248. ACS-Meeting, Symposium on „Surface Science, Science Policy Making and Sustainable Development (in Honor of Prof. Sir David King)", San Francisco, USA, 11.08.2014

H.-P. Steinrück

*In situ reaction studies in ionic liquids*

Eingeladener Hauptvortrag, 248. ACS-Meeting, Symposium „Physical Chemistry of Ionic Liquids", San Francisco, USA, 13.08.2014

F. Maier

*Ultrathin ionic liquid layers - a close look at the interface*

Eingeladener Vortrag, 248. ACS-Meeting, Symposium „Physical Chemistry of Ionic Liquids", San Francisco, USA, 13.08.2014

H.-P. Steinrück

*Influence of substituents and functional groups on the surface composition of ionic liquids*

Eingeladener Hauptvortrag, 248. ACS-Meeting, Symposium on „Chemical Foundations of Tribology", San Francisco, USA, 13.08.2014

F. Maier

*Insights into Surface Science of Ionic Liquids*

Stanford University, USA, 18.08.2014

F. Maier

*Insights into Surface Science of Ionic Liquids*

University of California, Berkeley, USA, 25.08.2014

M. Röckert

*Metalation and Dehydrogenation of Tetraphenylporphyrin on Cu(111): A Coverage- and Temperature-Dependent Study*

Rutgers University, USA, 19.09.2014

O. Höfert

*Adsorption and reaction of small molecules on the NiO/Pd(100) system*

Universität Osnabrück, 26.09.2014

H.-P. Steinrück

*In situ studies of surface reactions with high-resolution XPS and STM*

Eingeladener Vortrag, Catalysis Summit 2014, Kaisertal, Österreich, 26.09.2014

H. Marbach

*Mind the entropy: on the energetics of conformational molecular switching of porphyrins on Cu(111) close to room temperature*

Eingeladener Vortrag, IGK Workshop, Schloss Lübbenau, 16.10.2014

H.-P. Steinrück

*Surface-assisted metallation of porphyrins*

Eingeladener Vortrag, SPINMOL - „Spintronics and Magnetochemistry on the Atomic and Molecular Level“, Ascona, Schweiz, 26.-30.10.2014

H. Marbach

*Electron Beams and Porphyrins: combining top-down and bottom-up approaches for the rational design of functional nanostructures from molecular building blocks*

Eingeladener Vortrag, Workshp on „Low-energy electrons: Lithography, Imaging, and Soft Matter (LEELIS)“, Amsterdam, Niederlande, 05.11.2014

H.-P. Steinrück

*Surface Chemistry of Porphyrins*

Surface and Interface Science Laboratory, RIKEN, Saitama, Japan, 11.11.2014

H.-P. Steinrück

*Ionic Liquid Surface Science*

Tokyo Institute of Technology, Tokio, Japan, 12.11.2014

H.-P. Steinrück

*Ionic Liquid Surface Science*

Department of Materials Engineering Sciene, Osaka University, Osaka, Japan, 13.11.2014

H.-P. Steinrück

*Surface and Interface Properties of Ionic Liquids*

Keynote Lecture, The 1st International Symposium on Interactive Materials Science Cadet Program (1ISMSC), Osaka, Japan, 17.11.2014

## 2015

H.-P. Steinrück

*Surface Science of Complex Molecular Systems*

Physikalisch-Chemisches Kolloquium und SFB 1083 Kolloquium, Universität Marburg, 15.01.2015

C. Papp

*Surface Chemistry on Metal Single Crystals and Graphene-supported Metal Particles*

Gordon Research Conference „Chemical Reactions on Surfaces“, Ventura, USA, 08.-13.02.2015

H.-P. Steinrück

*Chemical reactions of porphyrins on surfaces*

SFB 951, Berlin, 19./20.02.2015

H.-P. Steinrück

*Ionic Liquid Surface Science*

Universidad de Buenos Aires, Argentinien, 30.03.2015

H.-P. Steinrück

*In situ studies of surface reactions*

Atomic Center, Institute Balseiro, San Carlos de Bariloche, Argentinien, 09.04.2015

H.-P. Steinrück

*Surface chemistry of complex molecular systems*

Plenary Lecture, Biannual Argentine National Physical Chemistry Meeting (XIX Congreso Argentino de Fisicoquímica y Química Inorgánica), Buenos Aires, Argentinien, 12.-15.04.2015

F. Maier

*10 years of ionic liquid surface and interface science*

University of Szeged, Ungarn, 22.04.2015

H.-P. Steinrück

*Ionic Liquid Surface Science*

Symposium on „Present Challenges in Surface Science and Photon-Driven Phenomena at Interfaces”, München, 23./24.04.2015

C. Papp

*Surface Chemistry on Metal Single Crystals and Graphene-supported Metal Particles*

Universität Ulm, 19.06.2015

H.-P. Steinrück

*Surface Chemistry on supported graphene*

Hungarian Academy of Sciences, Budapest, 26.05.2015

H.-P. Steinrück

*Surface Chemistry with porphyrins*

University of Szeged, Szeged, Ungarn, 27.05.2015

F. Vollnhals

*Nanofabrication by Electron Beam Induced Surface Activation*

Universität Bielefeld, 09.06.2015

O. Lytken

*Structure-Dependent Reactions of Tetraphenylporphyrin with Cu(111)*

Invited talk, 227th ECS Meeting, Chicago, USA, 24.-28.05.2015

H. Marbach

*Focused electron beam induced processing: a lithographical tool for the fabrication of well-defined nanostructures and to manipulate matter on the nanoscale*

Symposium „Workshop Koordinationsnetzwerke als Bausteine für Funktionssysteme”, Reisenburg, 02.07.2015

H. Marbach

*Microscopic investigations of kinetic processes on interfaces: extracting physicochemical information from the nanoscale*

TU Freiberg, 06.07.2015

H.-P. Steinrück

*In situ studies of surface reactions by fast XPS*

International Exploratory Workshop on Photoelectrochemistry, Catalysis and X-ray Spectroscopy, EMPA, Dübendorf, Schweiz, 17.-19.08.2015

H.-P. Steinrück

*Surface Chemistry of Complex Molecular Systems*

Bilateral Symposium “Advanced Materials for Electronic Applications”, Bangkok, Thailand, 25.-27.08.2015

H. Marbach

*Focused electron beam induced processing in a surface science approach: exploiting catalytic processes and local surface activation for the controlled fabrication of clean metallic nanostructures with reduced size*  
CELINA Workshop, 41st international conference on micro- and nanofabrication and manufacturing using lithography and related techniques (MNE), den Haag, Niederlande, 21.-24.09.2015

H.-P. Steinrück

*Surface Chemistry of Supported Graphene*  
Catalysis Summit 2015, Filzmoos, Österreich, 24.-27.09.2015

C. Papp

*Hydrogenation of Graphene*  
3rd Erlangen Symposium on Synthetic Carbon Allotropes, Erlangen, 04.-07.10.2015

F. Maier

*Ten Years of Ionic Liquid Surface and Interface Science*  
2nd EuCheMS Congress on Green and Sustainable Chemistry, Lissabon, Portugal, 04.-07.10.2015

H. Marbach

*Molecules on the Move: What can We Learn from the Microscopic Observation of Molecular Dynamics*  
Functional Molecules on Surfaces, Workshop, Young Scholars' Programme of the Bavarian Academy of Sciences and Humanities, München, 09.10.2015

H.-P. Steinrück

*Interfaces of Ionic Liquids*  
Invited Talk, AVS Symposium, San Jose, Kalifornien, USA, 18.-23.10.2015

L. Zhang

*Adsorbates on metal surfaces: From graphene to porphyrin*  
Advanced Light Source special seminar, Berkeley, Kalifornien, USA, 23.10.2015

O. Lytken

*Reactions of phthalic acid on Ag(100) and MgO(100)*  
Invited talk, 1st funCOS International Workshop, Erlangen, 08.-11.11.2015

H.-P. Steinrück

*Surface and Interface Science of Complex Molecular Systems*  
Workshop on „Ambient Pressure HAXPES“, DESY, Hamburg, 27.11.2015

H. Marbach

*On the energy to switch an individual molecule: scrutinizing dynamic processes of porphyrins on surfaces close to room temperature*  
TU Ilmenau, 01.12.2015

L. Zhang

*Self-assembly and metalation of functionalized porphyrins on metal surfaces*  
University of Science and Technology of China, Hefei, China, 29.12.2015

## **2016**

L. Zhang

*Adsorbates on metal surfaces: From graphene to porphyrin*  
Chongqing University, Chongqing, China, 08.01.2016

H. Marbach

*From porphyrins to electron beams: detailed investigations and controlled fabrication of nanostructures at interfaces*

Universität Chemnitz, 12.01.2016

H. Marbach

*On the energy to bend an individual molecule: what can we learn from the microscopic investigation of molecular dynamics on surfaces?*

Universität Würzburg, 20.01.2016

H.-P. Steinrück

*X-ray photoelectron spectroscopy of complex molecular systems*

Ceremonial Lecture, Universität Oldenburg, 02.02.2016

H.-P. Steinrück

*In situ studies of surface reactions*

31st Workshop on Novel Materials and Superconductors, Obertraun, Österreich, 07.-13.02.2016

H. Marbach

*Scanning tunneling microscopy beyond imaging: extracting the energy required to switch an individual molecule*

Universität Siegen, 16.02.2016

H.-P. Steinrück

*Ionic Liquid Surface Science*

Overview talk, DPG Tagung, Regensburg, 07.-11.03.2016

C. Papp

*In-situ Studies of the Reactivity of Pt Model Catalysts: from Flat Surfaces to Nanoparticles*

Hauptvortrag, DPG Tagung, Regensburg, 07.-11.03.2016

H.-P. Steinrück

*Advances in Surface and Interface Science of Ionic Liquids*

251. ACS-Meeting, Symposium in Honor of M. B. Shiflett, Division of Industrial & Engineering Chemistry, San Diego, USA, 14.03.2016

C. Papp

*Surface chemistry of hydrocarbons - from small molecules to hydrogen and energy storage molecules*

International SFB-658 Symposium 2016, „Molecular Switches and Functional Interfaces“, Berlin, 10.-14.04.2016

H. Marbach

*Metalation and other reactions of porphyrins as prototype functional molecules at the solid-vacuum interface*

9th Brazilian-German Workshop on Applied Surface Science, São Paulo, Brasilien, 10.-15.03.2016

F. Maier

*Ionic liquids at surfaces and interfaces*

DFG-Priority Program SPP 1708 Symposium on „Materials Synthesis and Interfacial Processes in Ionic Liquids“, Goslar, 13.-15.04.2016

C. Papp

*Dehydrogenation of liquid organic hydrogen carriers on Pt(111)*

Hauptvortrag, Bunsentagung 2016, Rostock, 05.-07.05.2016

O. Lytken

*Metalation of Porphyrins on Surfaces in Liquid and Vacuum*

229th Meeting of the Electrochemical Society (ECS), San Diego, USA, 29.05.-03.06.2016

H. Marbach

*Electron beam induced surface activation and chemical selectivity: new routes for the fabrication of welldefined nanostructures*

Plenarvortrag, COST CELINA General Meeting, Krakau, Polen, 18.05.2016

H.-P. Steinrück

*In situ studies of surface reactions – from small molecules to liquid organic hydrogen carriers*

Plenary lecture, 14th European Vacuum Conference (EVC 14), Portorož, Slowenien, 06.-10.06.2016

H. Marbach

*On the energy to switch an individual molecule: scrutinizing dynamic processes of porphyrins on surfaces close to room temperature*

Institut für Angewandte Physik, TU Wien, 05.07.2016

H. Marbach

*Fabrication of Clean Metallic Nanostructures and Reduction of Proximity Effects via Focused Electron Beam Induced Processing in UHV*

FEBIP 2016, Wien, Österreich, 06.07.2016

C. Papp

*Model catalysis with liquid organic hydrogen carriers*

International Conference on Solid Films and Surfaces (ICSF 18), Chemnitz, 28.08.-02.09.2016

H.-P. Steinrück

*Surface chemistry in complex organic layers - Metalation of porphyrins on metals and oxides*

International Conference on Solid Films and Surfaces (ICSF 18), Chemnitz, 28.08.-02.09.2016

M. Lepper

*Comparing the adsorption behavior of different cyanoporphyrins via STM*

Catalysis Summit 2016, Filzmoos, Österreich, 22.-25.09.2016

H.-P. Steinrück

*Ionic liquids and their interfaces - a surface science perspective*

Catalysis Summit 2016, Filzmoos, Österreich, 22.-25.09.2016

H. Marbach

*Scanning tunneling microscopy studies of porphyrins as prototype functional molecules: from supramolecular aggregates over surface mediated reactions to the energy to switch an individual molecule*

XXV Brazilian MRS Meeting, Campinas, Brasilien, 25.-29.09.2016

M. Lepper

*Comparing the adsorption behavior of different cyanoporphyrins via STM*

Symposium „Tetrapyrroles in Materials Science“, Erlangen, 30.09.2016

H. Marbach

*Scrutinizing physicochemical processes at interfaces: microscopy beyond imaging and controlled fabrication of nanostructures*

Universität Saarbrücken, 28.10.2016

H.-P. Steinrück

*Chemistry at complex interfaces*

International Symposium „Pioneering New Fields: Forefront of RIKEN's Science and Beyond“, Tokio, Japan, 21.-22.11.2016

M. Lepper

*On the self-metalation rate of cyano-functionalized tetraphenylporphyrins on Cu(111)*

Vortrag beim „Best-Practice“ Workshop zur „Internationalization in Teaching“, Erlangen, 28.11.2016

C. Papp

*In-situ Studies of the Reactivity of Pt Model Catalysts: from Flat Surfaces to Nanoparticles*

Thomas Young Centre-Energy Workshop joint with the EPSRC-Toucan Grant International Conference on „Shaping Nanocatalysts“, Kings College, London, UK, 14.-16.12. 2016

## **2017**

C. Papp

*In-situ Studies of the Reactivity of Pt Model Catalysts: from Flat Surfaces to Nanoparticles*

Workshop of the SFB 1083 „Structure and Dynamics of Internal Interfaces“, Phillips Universität Marburg, Marburg, 17.01.2017

C. Papp

*Surface Analysis with synchrotron-based X-ray Photoelectron Spectroscopy*

Tutorial at the Workshop of SFB 1083 „Structure and Dynamics of Internal Interfaces“, Phillips Universität Marburg, Marburg, 17.01.2017

H.-P. Steinrück

*Ionic Liquids and their interfaces*

Jahrestagung der Schweizerischen Arbeitsgemeinschaft Oberflächen und Grenzflächen (SAOG), Fribourg, Schweiz, 27.01.2017

H.-P. Steinrück

*Chemical reactions at ionic liquid interfaces*

Gordon Research Conference, Lucca, Toskana, Italien, 05.-10.02.2017

C. Papp

*In-situ Studies of the Reactivity of Pt Model Catalysts: from Flat Surfaces to Nanoparticles*

Paul Scherrer Institut, Villigen, Schweiz, 07.02.2017

H.-P. Steinrück

*Analysis of Ionic Liquid Interfaces in Catalysis*

Keynote Lecture, Analytix, Fukuoka, Japan, 22.-24.03.2017

C. Papp

*From Flat Surfaces to Nanoparticles: In Situ Studies of the Reactivity of Model Catalysts*

Leopold-Pfaundler-Symposium, Universität Innsbruck, Österreich, 15.05.2017

H.-P. Steinrück

*In situ studies of surface and interface reactions*

DESY-FAU-HZB Symposium, Erlangen, 29.-30.05.2017

C. Papp

*Surface chemistry of nanoclusters*

2nd German-Chinese Young Scientist Symposium on Structures and Dynamics at Surfaces, Göttingen, 28.05.-01.06.2017

O. Lytken

*Reactions of Adsorbed Porphyrins On Oxides and Metals in Ultrahigh Vacuum and in Liquids*

231st meeting of the Electrochemical Society (ECS), New Orleans, USA, 28.05.-01.06.2017

C. Papp

*From Flat Surfaces to Nanoparticles: In Situ Studies of the Reactivity of Model Catalysts*

Physikalisch-Chemisches Kolloquium, TU München, 10.06.2017

H.-P. Steinrück

*Surface science of complex molecular systems - from supported graphene to hydrogen carrier molecules*

Keynote Lecture, Second International Conference on Applied Surface Science, Dalian, China, 12.-15.06.2017

Hans-Peter Steinrück

*In situ studies of surface reactions - from small molecules to energy storage materials*

University of Science and Technology of China (USTC), Hefei, Anhui, China, 16.06.2017

Hans-Peter Steinrück

*Surface chemistry of complex systems – from small molecules to graphene and energy storage materials*

Department of Chemistry, Rutgers University, Piscataway, USA, 30.07.2017

Hans-Peter Steinrück

*In situ metalation of porphyrins on metals and oxides*

Laboratory for Surface Modification, Rutgers University, Piscataway, USA, 01.08.2017

Hans-Peter Steinrück

*In situ studies of surface reactions - from simple to complex systems*

Harvard University, Cambridge, USA, 08.08.2017

Hans-Peter Steinrück

*Chemical Reactions in Ionic Liquids Monitored through the Gas (Vacuum)/Liquid Interface*

Hauptvortrag, ECOSS 33, Szeged, Ungarn, 28.08.-01.09.2017

H. Marbach

*Towards the controlled fabrication of well-defined nanostructures: a surface science approach to electron beam lithography*

ECOSS 33, Szeged, Hungary, 31.08.2017

Hans-Peter Steinrück

*Surface Chemistry of Complex Systems - In situ metalation of porphyrins on metals & oxides*

Catalysis Summit, Filzmoos, Österreich, 21.-24.09.2017

Hans-Peter Steinrück

*Surface Chemistry of Complex Materials*

Plenary Lecture, Österreichische Chemie Tage 2017 (Austrian Chemistry Days der GÖCh), Salzburg, 25.-28.09.2017

C. Papp

*Functionalization of 2D Materials*

Hauptvortrag, Erlangen Symposium on „Synthetic Carbon Allotropes“, Erlangen, 26.09.2017

Hans-Peter Steinrück

*Surface chemistry of complex molecular systems - from graphene to energy storage molecules*

International Symposium on Surface Science, ISSS-8, Tsukuba, Japan, 22.-26.10.2017

Hans-Peter Steinrück

*Ionic Liquid Surface Science*

Medard W. Welch Award Lecture, AVS Meeting, Tampa, Florida, USA, 29.10.-03.11.2017

Hans-Peter Steinrück

*In situ studies of surface reactions*

Workshop Surface Science RIO, WS2Rio, Brazilian Center for Research in Physics (CBPF), Rio de Janeiro, Brasilien, 06.11.2017

F. Maier

Reactions and processes at inner and outer ionic liquid surfaces

Hauptvortrag, 5. WEH-Seminar „Surfaces and Interfaces of Ionic Liquids“, Bad Honnef, Deutschland, 03.-06.12.2017

H.-P- Steinrück

*In situ studies of complex molecular systems OR What I would like to do with ionic liquids!*

Minisymposium „Hot Topics in Ionic Liquids“, Erlangen, 07.-08.12.2018

H. Marbach

*From porphyrins to electron beams: detailed investigations and controlled fabrication of nanostructures at surfaces*

*Physikalisch-Chemisches Kolloquium, Universität Marburg, 07.12.2017*

C. Papp

*Model catalysis with liquid organic hydrogen carriers - towards a hydrogen-free hydrogen society*

BESSY Usermeeting, Berlin, 14.12.2017

## 2018

H. Marbach

*Microscopy beyond imaging: on the thermodynamics and kinetics of physicochemical processes at interfaces*

TU Bergakademie Freiburg, 21.01.2018

F. Maier

*Liquids in UHV - Surface of Ionic Liquids Studied by Angle-Resolved X-Ray Photoelectron Spectroscopy*

Max-Planck-Institut für Polymerforschung, Mainz, 15.02.2018

C. Papp

*Functionalization of 2D Materials*

Hauptvortrag, 4th IMPRS-CS Workshop, Schloss Ringberg, Tegernsee, Deutschland, 20.02.2018

H.-P. Steinrück

*Following reactions in ionic liquids through the outer surface by X-ray photoelectron spectroscopy*

Hauptvortrag, 255. ACS-Meeting, Symposium „Physical Chemistry of Ionic Liquids“, New Orleans, USA, 08.-22.03.2018

F. Maier

*A close look at ionic liquid / support interfaces*

Hauptvortrag, 255. ACS-Meeting, Symposium „Physical Chemistry of Ionic Liquids“, New Orleans, USA, 08.-22.03.2018

H.-P. Steinrück

*In situ studies of surface reactions*

University of Washington, Seattle, USA, 30.04.2018

H.-P. Steinrück

*Surface Chemistry of Complex Materials*

Symposium, 80. Geburtstag von Prof. R. J. Madix, Stanford University, USA, 07.05.2018

H.-P. Steinrück

*Metalation of porphyrins on metals and oxides in vacuum and in the liquid phase*

Advanced Light Source, University of California, Berkeley, USA, 08.05.2018

H.-P. Steinrück  
*In situ metalation of porphyrins on solid surfaces*  
SFB 840 Kolloquium, Universität Bayreuth, 18.06.2018

H.-P. Steinrück  
*Metalation of porphyrins on metal and oxide surfaces*  
GDCh Kolloquium, Universität Leipzig, 12.07.2018

H.-P. Steinrück  
*Fundamental surface science studies addressing chemical energy storage systems*  
Int. Workshop of Synchrotron Radiation Spectroscopies for Energy Related Materials (IWSERM-2018),  
Hefei, China, 02.-05.09.2018

H.-P. Steinrück  
*Surface science of low-vapor-pressure liquids*  
Plenary Talk, ÖPG Tagung, Graz, Österreich, 11.-14.09.2018

H.-P. Steinrück  
*Liquid Interfaces*  
Catalysis Summit, Filzmoos, Österreich, 20.-23.09.2018

H.-P. Steinrück  
*Ionic Liquid Surface Science*  
10th Brazilian-German Workshop on Applied Surface Science, Bad Dürkheim, Deutschland, 23.-28.09.2018

H.-P. Steinrück  
*Angle resolved X-ray photoelectron spectroscopy of low-vapor-pressure liquids*  
14th International Conference on Electronic Spectroscopy and Structure (ICESS-14), Shanghai, China, 08.-12.10.2018

H.-P. Steinrück  
*In situ metalation of porphyrins on solid surfaces*  
Symposium on "Charge Transfer in Metal-Organic Systems at Surfaces", University of Warwick, UK,  
14.11.2018

H.-P. Steinrück  
*Surface chemistry with porphyrins on metal and oxide surfaces*  
10th Singapore International Chemistry Conference (SICC-10), Singapur, 16.-19.12.2018

## **2019**

H.-P. Steinrück  
*Ionic Liquid Surface Science*  
Morino Lectureship, Osaka University, Osaka, Japan, 22.03.2019

H.-P. Steinrück  
*Surface science of complex molecular systems - from supported graphene to energy storage molecules*  
Morino Lectureship, Kyoto University, Kyoto, Japan, 25.03.2019

H.-P. Steinrück  
*In situ metalation of porphyrins on metal and oxide surfaces*  
Morino Lectureship, Institute of Molecular Science, Okasaki, Japan, 26.03.2019

H.-P. Steinrück

*Surface Science of Low Vapor Pressure Liquids*

Plenary lecture, International Symposium on Molecular Science 2019, and Morino Lectureship, Tokyo Institute of Technology, Tokio, Japan, 28.03.2019

H.-P. Steinrück

*Ionic Liquid Adsorption and Ion Exchange Processes at Single Crystal Surfaces*

ACS Symposium in Honor of Hajo Freund, Orlando, USA, 01.-04.04.2019

H.-P. Steinrück

*New catalytic concepts using low-vapor-pressure liquids*

World Chemistry Forum 2019, Barcelona, Spanien, 22.-24.05.2019

H.-P. Steinrück

*Surface Science of Low Vapor Pressure Liquids*

5th Russian-German seminar on Catalysis „Bridging the Gap between Model and Real Catalysis. Synchrotron radiation in catalysis“, Nowosibirsk, Russland, 23.-26.06.2019

H.-P. Steinrück

*Surface reactions of complex molecular systems: from supported graphene to hydrogen storage molecules*

ACS, San Diego, USA, 25.-29.08.2019

H.-P. Steinrück

*Surface Science of complex molecular systems: free-base porphyrins on Cu(111)*

Catalysis Summit, Filzmoos, Österreich, 26.-29.09.2019

H.-P. Steinrück

*Surface chemistry of complex molecular systems*

Symposium „Crossroads in Physical Chemistry - Experiment meets Theory“ zu Ehren von Professor Joachim Sauer und Professor Hajo Freund, Berlin, 14./15.10.2019

H.-P. Steinrück

*Surface chemistry of complex molecular systems – from supported graphene to energy storage molecules*

Shenzhen University, Shenzhen, China, 21.10.2019

H.-P. Steinrück

*Synchrotron radiation studies of complex surface reactions*

University of Science and Technology of China (USTC), Hefei, China, 25.10.2019

H.-P. Steinrück

*Dynamic processes at the interfaces of molecular systems*

Soochow University, Suzhou, China, 28.10.2019

H.-P. Steinrück

*Surface reactions on supported 2D materials*

Valencia-Erlangen Symposium on the Chemistry and Physics of 2D Materials, Valencia, Spanien, 12.-14.11.2019

## **2020**

H.-P. Steinrück

*Ionic Liquid Adsorption and Ion Exchange Processes at Single Crystal Surfaces*

XXII. Symposium on Atomic, Cluster and Surface Physics, SASP'20, St. Moritz, Schweitz, 02.-07.02.2020

H.-P. Steinrück

*Ionic Liquid Surface Science*

“FORUM OF GREAT MINDS” Lectureship, University of Science and Technology of China (USTC), Hefei, China, 27.11.2020, online

## **2021**

H.-P. Steinrück

*Catalytic concepts with ionic liquids – a surface science perspective*

TrackAct-Seminar, SFB 1441 “Tracking the Active Site in Heterogeneous Catalysis for Emission Control”, Karlsruhe Institute of Technology (KIT), Karlsruhe, 16.7.2021, online

H.-P. Steinrück

*News from ionic liquid surface science*

Catalysis Summit, 23.-26.09.2021, Filzmoos, Österreich

H.-P. Steinrück

*Catalytic concepts with ionic liquids - a surface science perspective*

International Conference and Expo on Catalysis, Chemical Engineering and Technology, Vancouver, Kanada, 28.10.2021, online

H.-P. Steinrück

*Modern aspects of X-ray photoelectron spectroscopy*

State Key Laboratory of Advanced Technology for Material Synthesis and Processing, Wuhan University of Technology, China, 02.11.2021, online

H.-P. Steinrück

*Interfaces of ionic liquids*

GDCh-Kolloquium, Universität Stuttgart, 11.11.2021

H.-P. Steinrück

*X-ray photoelectron spectroscopy - an introductory lecture*

International Erasmus Mundus Master Programme “Surface, Electro-, Radiation, and Photo-Chemistry (SERP+)”, Paris-Saclay University (Frankreich), Adam Mickiewicz University (Polen), University of Genoa (Italien) and University of Porto (Portugal), 16.11.2021, online

H.-P. Steinrück

*Surface Science of complex molecular systems*

Topic talk at the General Assembly of the Collaborative Research Centre (CRC) 1415 “Chemistry of Synthetic Two-Dimensional Materials”, TU Dresden, 13.12.2021, online

## **2022**

H.-P. Steinrück

*Surface chemistry of complex molecular systems - from energy storage molecules to supported graphene*

State Key Laboratory of Advanced Technology for Material Synthesis and Processing, Wuhan University of Technology, China, 11.01.2022, online

H.-P. Steinrück

*In situ Metallation of Porphyrins on metal and oxide surfaces*

University of Pittsburgh, USA, 21.02.2022, online

H.-P. Steinrück

*On the interaction of ionic liquids with single crystal surfaces*

263. ACS Meeting, Symposium on "Surface Chemistry", San Diego, USA, 20.-24.03.2022, online

H.-P. Steinrück

*Ionic Liquid Surface Science*

11th Brazilian-German Brazilian Workshop, Manaos, Brasilien, 19.-24.04.2022

H.-P. Steinrück

*Insights in the liquid-solid interface of supported ionic liquids*

9th Irsee Symposium, Bad Irsee, 16.-19.06.2022

H.-P. Steinrück

*Fundamental Aspects of Ionic Liquid Interfaces*

Plenary Lecture, YOURHETCAT 2022, 1st Forum of Young Researchers on Heterogeneous Catalysis, Szeged, Ungarn, 11.-13.7.2022

*Surface Science of Complex Molecular Systems*

Keynote Lecture at the 22nd International Vacuum Congress, Sapporo, Japan, 11.-16.09.2022, online

H.-P. Steinrück

*New experimental techniques in ionic liquid surface science*

Catalysis Summit, Filzmoos, Österreich, 22.-25.9.2022

H.-P. Steinrück

*Examples for successful German-Latin America collaborations in fundamental interface science*

Humboldt-Kolleg "Expanding the Frontiers of Science: A Transdisciplinary Approach", Montevideo, Uruguay, 27.-29.10.2022

H.-P. Steinrück

*Mobility and reactivity of porphyrins on metal surfaces*

Campinas University, Brasilien, 31.10.2022

H.-P. Steinrück

*Tailoring Mobility and Reactivity of Porphyrins on Metal Surfaces*

FUNSOM International Forum, Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University, China, 15.11.2022, online

## 2023

H.-P. Steinrück

*Molecules in Energy Storage and Release – A Surface Science Perspective*

Bunsentagung, Berlin, 05.-07.06.2023

H.-P. Steinrück

*Porphyrin adsorption on metal and oxide surfaces - a surface science perspective*

State Key Laboratory of Advanced Technology for Material Synthesis and Processing, Wuhan University of Technology, 17.7.2023, online

H.-P. Steinrück

*Mobility and reactivity of porphyrins on metal surfaces*

ACS-Meeting, Symposium in Honor of Cynthia M. Friend, San Francisco, USA, 13.-17.8.2023

H.-P. Steinrück

*Energy Storage in Molecules – A Surface Science Perspective*

Forum on Green Catalysis Utilizing and Producing Renewable Energies at the 25th Annual Meeting of the Chinese Association of Science and Technology, Hefei, China, 21.-23.10.2023

H.-P. Steinrück

*Tailoring the mobility and reactivity of porphyrins on metal surfaces*

University of Science and Technology of China (USTC), Hefei, China, 26.10.2023

H.-P. Steinrück

*Energy Storage in Molecules - Fundamental Surface Science Studies*

Sochoow University, Suzhou, China, 30.10.2023

H.-P. Steinrück

*Energy Storage in Molecules - Fundamental Surface Science Studies*

Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO) of the Chinese Academy of Sciences (CAS), Suzhou, China, 30.10.2023