

ULRIKE DIEBOLD
Institute of Applied Physics
Vienna University of Technology
Wiedner Hauptstrasse 8-10/134
Vienna, Austria, Europe
<https://tuwien.at/phy/iap/surface>

PROFESSIONAL EXPERIENCE:

- July 1, 2022 – (Part time) Vice President of the Austrian Academy of Sciences
- January 2010 – current Professor, Institute of Applied Physics, Vienna University of Technology, Vienna, Austria
- January 2011 – current Deputy Head, Institute of Applied Physics, Vienna University of Technology, Vienna, Austria
- June 2008 Fellow, Research Center Dresden-Rossendorf, Dresden, Germany
- July 2015 – Adjunct Professor, Department of Physics and Engineering Physics, Tulane University, New Orleans, Louisiana
- July 2011 – June 2015 Research Professor, Department of Physics and Engineering Physics, Tulane University, New Orleans, Louisiana
- July 2006 – July 2011 Yahoo! Founder Chair of Science and Engineering, Tulane University, New Orleans, Louisiana
- July 2001 - July 2011 Professor of Physics, Department of Physics and Engineering Physics, Tulane University, New Orleans, Louisiana
- July 2002 - 2010 Associate Chair, Department of Physics and Engineering Physics, Tulane University
- Fall 2005 (displaced by Hurricane Katrina) Visiting Professor, Rutgers, The State University of New Jersey, and Visiting Research Collaborator, Princeton University
- June 2004 – August 2004: Professor, Institute of Materials Chemistry, Surface and Interface Chemistry Group, Technische Universität Wien, Vienna, Austria
- May 2002 - December 2002 Visiting Scientist, Department of Chemical Physics, Fritz-Haber Institut of the Max-Planck-Gesellschaft, Germany, and Department of Surface Chemistry and Catalysis, University of Ulm, Germany

July 1999 - June 2001: Associate Professor at the Department of Physics, Tulane University

July 1997 - October 1997: Visiting Scientist, Pacific Northwest National Laboratory, Environmental Molecular Sciences Laboratory, Richland, WA

March 1997 - June 1997: Visiting Professor, Technische Universität Wien, Vienna, Austria

July 1993 - June 1999: Tenure-track Assistant Professor at the Department of Physics and Adjunct Professor of Chemistry Tulane University

1990 - 1993: Research Associate, Rutgers, The State University of New Jersey
Adviser: Prof. Theodore E. Madey

1986 - 1990 Research Assistant, Technische Universität Wien, Vienna, Austria

EDUCATION:

June 22, 1990 Ph.D. in Engineering Physics, Technische Universität Wien, Vienna, Austria

Thesis: "Secondary Neutral and Ion Emission During Bombardment of CO/Ni(111) by Very Low Energy Ions"

Thesis Adviser: Dr. Peter Varga

June 25, 1986 Diplom Ingenieur (eq. M. S.) in Engineering Physics, Technische Universität Wien, Vienna, Austria

Thesis: "Electron Energy Loss Spectroscopy of Graphite"

PERSONAL BACKGROUND:

Born Dec 12, 1961 in Kapfenberg, Austria, Europe

Married, 2 children

Dual Citizenship, Austria/United States

RESEARCH AREAS:

Surface science, in particular of oxide materials; growth and characterization of nanostructures; chemical, physical, and electronic properties of atomic-scale defects and dopants; scanning probe microscopy and surface spectroscopy

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Physical Society (Elected Fellow),

American Vacuum Society (Elected Fellow),

American Association for the Advancement of Science (Elected Fellow),

Austrian Academy of Sciences (Elected Full Member),
German National Academy of Sciences, Leopoldina (Elected Member)
European Academy of Sciences (Elected Member),
American Academy of Arts and Sciences (Elected Member),
Royal Society of Chemistry (Elected Fellow),
Österreichische Chemisch-Physikalische Gesellschaft,
Austrian Physical Society,
German Physical Society,
American Chemical Society,
Austrian Vacuum Society,
Electrochemical Society

HONORS, AWARDS, AND DISTINCTIONS:

1992	"Charlotte Bühler Fellowship" for Habilitation from the Austrian Science Foundation" (not assumed)
1995	Oak Ridge Associated Universities, Junior Faculty Enhancement Award
1996	Pacific Northwest National Laboratory, "PNNL Affiliate Staff Scientist"
1997	NSF CAREER Award
1998	Habilitation in "Experimental Physics", Technische Universität Wien
1998	Elected as a member of the Executive Committee, Surface Science Division, American Vacuum Society
2001	Friedrich Wilhelm Bessel Research Prize from the Alexander von Humboldt Foundation, Germany
2001	Adjunct Professor of Physics, University of New Orleans
2002	Listed in "2000 Outstanding Scientists of the 21 st Century" - First Edition, International Biographical Centre of Cambridge, England
2003	National Science Foundation, "Special Creativity Award"
2004	Fellow, American Physical Society
2004	Tulane Liberal Arts and Sciences Faculty Research Award
2005	Provost's Recognition Award for Research and Scholarly Achievement
2005	Fellow, AVS – The Science and Technology Society for Materials, Interfaces, and Processing
2006	Yahoo! Founder Chair in Science and Engineering
2007	Fellow, American Association for the Advancement of Science (AAAS)
2008	Fellow, Forschungszentrum Dresden-Rossendorf, Germany
2008	Tulane School of Science and Engineering Outstanding Researcher Award
2012	European Research Council (ERC) Advanced Researcher Grant
2012	Guest Professor, Hubei University, Wuhan, China (April 2012)
2012	Elected as a Corresponding Member, Austrian Academy of Science

- 2013 Arthur W. Adamson Award for Distinguished Service in the Advancement of Surface Chemistry (awarded at the 225th American Chemical Society Meeting, New Orleans, Louisiana, April 9, 2013)
- 2013 Wittgenstein-Preis (the highest science award in Austria, <https://en.wikipedia.org/wiki/Wittgenstein-Preis>)
- 2014 Elected Full Member Austrian Academy of Science
- 2014 Eminent Visitor Award, Catalysis Society of South Africa (CATSA) <http://www.catsa.org.za/awards/eminent-visitor-award>
- 2014 Elected Member, European Academy of Sciences, <http://www.eurasc.org>
- 2015 *Brdicka Memorial Lecture*, Heyrovský Institute of Physical Chemistry, Academy of the Czech Republic, Prague <http://www.jh-inst.cas.cz/www/lecture.php?p=53>
- 2015 *Zhongshan Colloquium*, Nanjing University (1st week of Nov. 2015)
- 2015 Blaise Pascal Medal in Materials Science (Awarded by the European Academy of Arts and Sciences) http://www.eurasc.org/medals/pb_medals.asp
- 2015 Elected Member German Academy of Science, Leopoldina
- 2015 *Debye Lecture*, Utrecht University, The Netherlands
- 2015 *Erwin Schrödinger Memorial Lecture*, Trinity College Dublin, Institute of Advanced Studies in Dublin, and Austrian Embassy in Ireland <http://www.tcd.ie/Physics/news/seminars/schrodinger/>
- 2016 *Zhongshan Colloquium* Nanjing University, China
- 2018 *Fresh Lecture*, University of Leiden, Netherlands
- 2018 *Xing Da Lectureship*, Peking University, Beijing, China
- 2019 American Physical Society, Outstanding Referee
- 2019 Elected Member, Academia Europaea, <https://www.ae-info.org>
- 2019 Honorary Doctorate, Brno University of Technology, Czech Republic
- 2019 Science Prize of the City of Vienna (Preis der Stadt Wien in der Sparte Mathematik, Informatik, Naturwissenschaft und Technik, <https://www.wien.gv.at/kultur/abteilung/ehrungen/preise/preistraeger.html#nat>)
- 2020 *Gerhard Ertl Lecture Award*, Fritz-Haber-Institute of the Max-Planck-Society, Berlin <https://www.fhi-berlin.mpg.de/gela/epl> <https://youtu.be/8Q6Hqx4lAHk>
- 2020 European Research Council (ERC) Advanced Grant ‘*WatFun*’
- 2021 Elected Honorary Foreign Member, [American Academy of Arts and Sciences](#)
- 2022 Fellow, Royal Society of Chemistry, <https://www.rsc.org/membership-and-community/join/fellow/>

GRANTS:

Current:

This research was funded in whole, or part, by the Austrian Science Fund (FW) [grant doi:] For the purpose of open access, the author has

applied a for a CC BY public copyright licence to any Author
Accepted Manuscript version arising from this submission.”

FWF Center of Excellence

“Materials for Energy Conversion and Storage, MECS”

(Role: Board of Directors, and Key Researcher, PI: Günther

Rupprechter, Requesting 25M€, Oct 1, 2023 – Sept 30, 2028, ca.

780k€ to UD)

Internal Account # D134050-2005, General: # D134050-2006

Project # 2386279

„This research was funded [choose: in whole or in part] by the Austrian Science Fund (FWF) [10.55776/COE5] (Cluster of Excellence MECS). For open access purposes, the author has applied a CC BY public copyright license to any author accepted manuscript version arising from this submission.“

FWF Doc.Funds Doctoral College DOC 142-N

“TU-D: Unraveling Advanced 2D Materials”

(role: Co-PI and Faculty Member, PI: Florian Libisch, TU Wien,

2,059,172.96 € (ca. 200k€ to UD), Oct.1, 2023 – Sept. 30, 2027)

Support from the Austrian Science Fund (FWF Doc.Funds Doctoral College DOC 142-N) is gratefully acknowledged.

Internal Account: D134050-2003

COST Action

“Research and International Networking on Emerging Inorganic Chalcogenides for Photovoltaics (RENEW-PV)”

(Role: Secondary proposer, PI: Nicolae Spalatu, Talinn Inst. of Technology, 2022 - 2024)

HORIZON-WIDERA-2021-ACCESS-03

(Twinning) Project 101079142

„Scientific excellence in Nano-CATalysis at the Heyrovský Institute - NanoCAT, Project 101079142

(Role: Research Partner (administered by G.S. Parkinson), PI: Jan Husak, Heyrovský Institute, Total: 1,375,500 EUR (355 875 to TU Wien), Oct 1, 2022 – Sept 30, 2025

FFG, R&D Infrastructure Funding – Non-Economic Use,

“Electrochemical surface and interface analysis cluster”

(Role: Co-PI, PIs: Markus Valtiner and Annette Foelske, requesting 2.5M€, approved for funding)

FWF Special Research Program (SFB), F8100-N

“Tackling Complexity in Materials Modeling, TACO”

(role: Coordinator, € 9,082M total, €848k to UD, March 1, 2021 – Feb 28, 2029)

Internal Accounts: D134050-2000 (coordination) and D134050-2001 – Subproject P02)

„This research was funded [choose: in whole or in part] by the Austrian Science Fund (FWF) [Grant-DOI:10.55776/F81] (SFB Project TACO). For open access purposes, the author has applied a CC BY public copyright license to any author accepted

manuscript version arising from this submission.“

"The computational results presented have been achieved [in part] using the Vienna Scientific Cluster (VSC)."

ERC Advanced Grant, ERC-2019-ADG, Project #883395

“WatFun - Water at Oxides: A Fundamental Approach”

(role: PI, €2.5M, 1.1.2021 – 31.12.2025)

"This project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement No. [883395], Advanced Research Grant ‘WatFun’)"

Internal account # D134050-1003

FWF Richter Program, Project V773

„Chemical Reactivity of In₂O₃ Surfaces“

(Role: mentor, PI: Margareta Wagner, 240k€ to M.W. (0€ to U.D)

1/5/2020 – 30/4/2023)

Internal account #T134050-2007

Forschungsförderungsgesellschaft (FFG), Bridge Young Scientists

„Fundamentales Verständnis von Passivierung und Korrosionsbeständigkeit stark verformter und gewalzter austenitischer Stähle bei tribo-chemischem Polieren (FunPak Trio)“

Industriepartner: Berndorf Band GmbH

(Role: Co-PI, PI: Markus Valtiner, 240k€, 1/7/2019 – 30/6/2022)

Internal account # D134020-4001

H2020-WIDESPREAD-2016-2017

“Twinning - Strengthening Nanoscience and Nanotechnology Research at CEITEC (SINNCE)” Grant Agreement: 810626

(role: Research Partner, PI: Tomas Sikola, CEITEC BUT, €998k, €117k to TU Wien, September 1, 2018 – March 31, 2022)

Internal account #D134050-1001

In Nachbearbeitung: until March 31, 2023

“This project has received funding under the Horizon 2020 Research and Innovation Programme under the Grant Agreement No 810626”

Pending:

FWF Special Research Program (SFB), F8100-N

“Tackling Complexity in Materials Modeling, TACO”

(role: Coordinator, requesting €5.155k total, €1.268k to UD, target dates March 1, 2025 – Feb 28, 2029, pending)

Completed:

Horizon-MSCA-2021-PF01 – MSCA Postdoctoral Fellowship 2021
“Advanced Single-Atom Electrocatalyst Design: Exploration,
Evaluation and Evolution from Fundamental Insights”
Adv-SAEC

(Role: Mentor and Host (administered by G.S. Parkinson), PI: Hao
Yin, 183,600.96€, - 30.6.2024)

Internal Account # D134050-1004

Austrian Science Fund, Wittgenstein-Prize (Z 250-N27)

€1.5 M,

(role: Award Recipient, Feb. 1, 2014 – January 31, 2021)

Internal Account# T134050-2001

The authors acknowledge support by the Austrian Science Fund, FWF (Wittgenstein
Prize, Z250-N27)

H2020-FETPROACT-01-2016-RIA

“An Artificial Leaf (A-LEAF): A Photo-electro-catalytic Cell From
Earth-Abundant Materials for Sustainable Solar Production of CO₂-
based Chemicals and Fuels” (732840 — A-LEAF)

(role: Co-PI, PI: José Ramón Galán, total: €7.98M; €547,612 to UD,
January 2, 2017 – June 30, 2021, ‘in Nachbearbeitung until July 1,
2023))

Internal Account # D13450-1000

This work was supported by the European Union under the A-LEAF project (732840-
A-LEAF).

Vienna Science and Technology Fund (WWTF) 2016 Call

‘Mathematics and...’

“Modeling and Design of Epitaxially Strained Nanoislands”

(Role: Co-PI, PI: Paolo Piovano, University of Vienna, Requested
funding: €596,610, to UD: €255,960, July 1, 2017 – June 30, 2021, ‘in
Nachbearbeitung until July 1, 2023)

Internal account #D134050-4000

This work was supported by the Vienna Science and Technology Fund (WWTF), the
City of Vienna and Berndorf Privatstiftung through project MA 16-005.

Austrian Science Fund, Doctoral Program DK+, ‘Building Solids for
Function – Solids4Fun’ (W1243-N16)

(role: Co-PI, Speaker: U. Schubert, €3,474k, 2012 – 2016, renewed
with Speaker A. Pimenov, 2016 – 2020 €2,396,394, 2016 – 2020)

Austrian Science Fund, Special Research Programme (F4507-N16)

“Functional Oxide Surfaces and Interfaces (FOXSI)”, Subproject

“Growth and Fundamental Surface Properties of Perovskites”

(Total Funding, ca. €6.3M, €992.752 to U.D., March 1, 2012 –
December 14, 2019; Deputy Speaker; Internal Account#

T13400100202)

Doctoral College, TU Wien

“Unraveling Advanced 2D Materials, TU-D”
(Internal University Funding, Role: Co-PI (Main PI: Florian Libisch),
ca.€80k to UD, Oct 2016 - 2019)

Joint Belgian/Austrian Research Project
“Boron nitride nanomesch for actuated self-assembly”
(role: Co-PI, Austrian PI: Stijn Mertens, Project PI: Mark Van Der
Auweraer, €420k)

Austrian Science Fund, Herta-Firnberg-Stelle (T 759)
“Organic Molecules on Transparent Conductive Oxides: Fundamental
Studies”
(PI: Margareta Wagner, UD was a co-applicant of the proposal and
serves as mentor, €226,530, October 1, 2015 – September 30, 2018,
Internal Account #T1340015201)

FFG, Praktika für Schülerinnen und Schüler, Sommer 2018
“Surface Science, Application ID 18445847”
(Sponsor: Ulrike Diebold, Author: Margareta Wagner, Summer 2018,
€1000)

H2020-WIDESPREAD-2016-2017
“Teaming Phase 1 (Back4Future)”
(Role: Co-PI and WP leader, €400k, funding to develop a business
plan/full proposal)

European Research Council, Advanced Grant (ERC-2011-
ADG_20110209)
“Microscopic Processes and Phenomena at Oxide Surfaces,
OxideSurfaces”
(Single PI, €2.496k, 2/2012 – 1/2017; Internal Account#
D13408122100)

FFG, Praktika für Schülerinnen und Schüler, Sommer 2016
“Surface Science, Application ID 7424006”
(Sponsor: Ulrike Diebold, Author: Matthias Müllner, Summer 2016,
€1000)

COST-Action, “Reducible Oxide Chemistry, Structure, and Functions”
(CM1104)
(role: Vice Chair. Chair: M. Reichling, €500k total, 2/2012 – 4/2016)

Austrian Science Fund, Special Research Programme (SFB G107)
“Functional Oxide Surfaces and Interfaces (FOXSI)”, Subproject
“Growth and Fundamental Surface Properties of Perovskites”
(Total Funding, €3,331,410, €501,620 to U.D., March 1, 2011 –
February 28, 2015; Deputy Speaker)

Vienna University of Technology, Doktoratskolleg ‘Catalysis Materials and Technology, CatMat’ (Co-PI and Deputy Speaker; Speaker: Günther Rupprechter, October 1, 2011 – September 30, 2014)

Department of Energy, Energy Frontier Research Center
“Computational Catalysis and Atomic-Level Synthesis of Materials: Building Effective Catalysts From First-Principles” Award #: DE-SC0001058
(Co-PI, Lead PI: Jerry Spivey, LSU; 8/15/09 – 8/14/14, \$537,892 to Diebold)

Vienna University of Technology, ‘Innovative Project: An Apparatus for Investigating Organic Molecules on Oxide Surfaces’
(Lead PI, with M. Schmid, G. Parkinson, G. Rupprechter, Ch. Weilach, €141k, June 1, 2011 - May 31, 2013)

DoD-DEPSCoR Program
“Study of metal-insulator transitions of perovskite ruthenates for bolometric detection”
(Co-PI, with lead: Zhiqiang Mao, Tulane University, Aug 1, 2009 – July 31, 2012, \$450k, match: \$232k, 0.33 mo summer salary)

Tulane University Research Enhancement Fund Initiative – Phase I
\$26k (July 2006 – August 2012)

Department of Energy, Basic Energy Sciences, Catalysis and Chemical Transformations Program, “Towards a Molecular-Scale Understanding of Surface Chemistry and Photocatalysis on Metal Oxides: Surface Science Experiments and First-Principles Theory”
Award #: DE-FG02-05ER15702 (Lead PI, together with A. Selloni, Princeton, \$762,000, 8/15/08 – 3/15/12)

Intel Corporation,
“EUV lithography aspects of titanium dioxide surfaces”
(July 2006 – December 2011, \$700k, (\$330k to Tulane), co-PI, together with R.A. Bartynski, Rutgers, 0.34 mo summer support)

National Science Foundation, MRI Program
“MRI-R2: Acquisition of a High Resolution Field Emission Transmission Electron Microscope for Collaborative Research in Materials and Biomolecular Nanostructures”
(\$1,300,000, co-PI; PI: Vijay John)

National Science Foundation, CHE-0715576
“Atomic-scale Investigations of Metal Oxide Single Crystals, Nanostructures, and Thin Films”
(single PI, \$488,000, August 1, 2007 – July 31, 2011, 0.5 mo summer salary)

Louisiana Board of Regents, Industrial Ties Subprogram

“Preserving half-metallicity on the surface of Fe_3O_4 for spintronic applications”

(co-PI, together with Jinke Tang, UNO, and Zhiqiang Mao, Tulane; \$226,149 (\$112,500 to Tulane), June 1, 2007 – June 30, 2011)

Tulane University Research Enhancement Fund Initiative – Phase II, \$100,000 (July 2007 – December 2010)

National Science Foundation, “Support for the International Workshop on Desorption Induced by Electronic Transitions, DIET XII”, Callaway Gardens, Pine Mountain GA, USA, April 19 -24, 2009 (co-organizer together with T. Orlando, Georgia Tech, \$10,000)

Louisiana Board of Regents, Traditional Enhancement Program

“A Physical Property Measurement System for Tulane University”

(\$190,365, co-PI, PI: Zhiqiang Mao, Tulane University, 6/1/08 – 6/30/09, no summer salary)

Tulane’s Center for Public Service Learning, Grant to develop a Public Service Learning Course entitled “Introduction to Physics Pedagogy” together with Lusher Charter School (Co-PI, together with other 4 other physics faculty, \$5000, April 2007 – June 2008)

Tulane Research Enhancement – Phase II

”The Tulane DFT Fest: Celebrating the Achievements of Prof. John P. Perdew”

(\$20,000, co-PI together with John Perdew, conference organization, no summer salary)

National Synchrotron Light Source at Brookhaven National

Laboratories: "Resonant Photoemission of Metal Nanoclusters on Oxide Surfaces", (20 days of requested beamtime was allocated, and financial support for the Faculty/Student user team was granted, March 1994)

Petroleum Research Fund: "Study of Metal Nanoclusters on Surfaces of Metal Oxide Thin films" (\$20k, Sept. 1994-Aug. 1996) (Single P.I.)

Louisiana Education Quality Support Fund: "Investigation and Modification of Metal Compound Surfaces" (\$124k, July 1994 - June 1998, LEQSF (1994-97)RD A 26) (Single P.I.)

National Science Foundation, EPSCoR Program for "Establishment of a Center of Excellence on Photoinduced Processes" (\$2,100k, Sept. 1995 - Sept. 1997) (Co-P.I.)

Oak Ridge Associated University, Junior Faculty Enhancement Award "Geometric Structure of Ultrathin Metal Oxide Films" (\$10k, July 1995-June 1997) (Single P.I.)

Department of Energy, EPSCoR Program, "Inorganic Synthesis and Laser-Induced Photochemistry Relevant to the Fabrication of Electronic Materials"
(\$1,919 k, 1993-1999) (Co-P.I.)

Louisiana Education Quality Support Fund, Enhancement Subprogram
"Nano-Engineering and Atomic-Scale Characterization of Thin Films: MBE/STM Auxiliary System for Synchrotron-Based Research"
(\$170k, 1997-1999, Co-P.I.)

National Science Foundation, CAREER Program
"Structure, Defects and Chemistry of Transition Metal Oxide Surfaces"
(\$260k, July 1997 - January 2001, Single P.I.)

Visiting Professor, Technische Universität Wien, Sabbatical
(Spring 1997, \$7k)

Research Fellowship Pacific Northwest Laboratories (Sabbatical)
(Summer 1997, \$15k)

Louisiana Board of Regents Support Fund, Travel Grant for Emerging Faculty (Fall 1998, \$1k)

Louisiana Board of Regents Support Fund, Traditional Enhancement Program
"Enhancement of Research and Education in Nanoscale and Thin Film Science"
(\$269,700, July 1999-June 2001, Lead P.I.)

DoE/EPSCoR/ Building EPSCoR-State National Laboratory Partnerships
"Growth, Surface Characterization, and Reactivity of TiO₂ Anatase Films"
(\$223,759, September 2000 - August 2004, single PI., DE-FG02-00ER45834)

NASA EPSCoR
"Toward Improving the Pulsed Laser Deposition (PLD) of Hard Materials Such as SiC"
(\$1,035,000, Co P.I., Aug 1, 2001 - July 31, 2006)

National Science Foundation
"Nanoscale Surface Investigations of Semiconducting Metal Oxides"
(Single PI, August 1, 2001 - July 31, 2004, \$363,500, CHE-0109804)

Department of Energy
"Establishment of the Livingston Digital Millenium Center for Computational Sciences at Tulane and Xavier Universities"
(Co-PI, May 15, 2001 - May 14, 2003, \$1,922,000)

American Physical Society
"Travel Grants for Women Speakers Program"
(Fall 2001, \$500 for inviting speakers to the Departmental Seminar)

Louisiana Board of Regents Support Fund, Traditional Enhancement Program
"A Sample Growth/Preparation Apparatus to Enhance Research and Instruction in Nanoscale and Materials Physics"
(Lead PI, \$200,000, June 1, 2002 - May 31, 2004, LEQSF(2002-03)-ENH-TR-65)

National Science Foundation, Major Research Instrumentation (MRI) Program
"Acquisition of a Sample Growth/Preparation Apparatus for Nanoscale and Materials Physics at Tulane and Xavier Universities"
(Lead PI, \$325,000, Sept. 1, 2002 - Aug. 31, 2005, CHE-0215776)

National Science Foundation, Extension for Special Creativity Award
(Single PI, \$310,000, Aug 1, 2004 - July 31, 2006, CHE-010908)

Petroleum Research Fund, AC sub-program
"Towards a better fundamental understanding of metal-oxide gas sensing materials -- Atomic scale surface science investigations"
(Single PI, \$80,000, 6/1/2004 - 8/31/2007, PRF #40919-AC5)

Selected by the Committee for the Status of Women in Physics (CSWP) of the American Physical Society for a Travel Grant to attend a Professional Skills Development Workshop for Mid-Career Female Physics Professors, Tampa, FL, April 15, 2005

National Science Foundation, Supplement to grant CHE-010908 to allow for Recovery from Hurricane Katrina
(Single PI, \$169,000, Aug 1, 2006 - July 31, 2007)

American Physical Society
"Travel Grants for Women Speakers Program"
(Fall 2007, \$500 for inviting speakers to the Departmental Seminar/Colloquium)

Department of Energy, Basic Energy Sciences, Catalysis and Chemical Transformations Program,
"Towards a Molecular-Scale Understanding of Photocatalysis on Metal Oxides: Surface Science Experiments and First-Principles Theory"
(Lead-PI, together with A. Selloni, Princeton, \$610k, August 15, 2005 – August 14, 2008, 0.85 mo summer support, Award #: DE-FG02-05ER15702)

Louisiana Board of Regents, Traditional Enhancement Program

“An Experimental Setup for Research and Education in Nanoscale and Surface Chemistry”

(Lead PI, \$141,695 (match \$49,850), LEQSF(2005-2006)-ENH-TR-75, June 1, 2005- June 30, 2008)

Louisiana Board of Regents, Traditional Enhancement Program

"A crystal orientation system to enhance research and education in condensed matter physics at Tulane"

(co-PI with Zhiqiang Mao, \$121,033, LEQSF(2005-2006)-ENH-TR-, June 1, 2005- June 30, 2008)

REFEREED PUBLICATIONS IN JOURNALS AND BOOKS:

ISI Web of Knowledge, ResearcherID: A-3681-2010

<https://publons.com/researcher/2850300/ulrike-diebold/>

<http://orcid.org/0000-0003-0319-5256>

<https://scholar.google.com/citations?user=Q3gAZ6sAAAAJ&hl=en>

In preparation:

1. Lutz Hammer, Tilman Kißlinger, Margareta Wagner, Michael Schmid, Ulrike Diebold, and M. Alexander Schneider

“When surface dynamics fakes symmetry - Oxygen on Rh(100) revisited with ultra-high precision”

Physical Review X, in preparation

2. Markus Kubicek, Michele Riva, Giada Franceschi, Herbert Hutter, Michael Schmid, Ulrike Diebold, and Jürgen Fleig

„Controlled atomic-scale surface structure for optimized oxygen exchange in SrTiO₃”
??, in preparation

3. Zdenek Jakub, Florian Kraushofer, Matthias Meier, Luca Schelodetz, Jan Hulva, Michael Schmid, Cesare Franchini, Ulrike Diebold, Gareth S. Parkinson

“Isolated Water Trimers and Hexamers Suggest Surface Modifications of the Fe₃O₄(111) Model System”
in preparation

4. Marco Corrias, Giada Franceschi, Alberto Tampieri, Karin Föttinger, Michael Schmid, Ulrike Diebold, Thomas Pock and Cesare Franchini

„Total variation denoising for microscopy images“

This work was supported by the Austrian Science Fund (FWF) project Super (Grant No. P 32148-N36) and the SFB F81 project **TACO**.

We kindly thank Jacob Madsen and Toma Susi for the insights and technical discussions about STEM and abTEM, which contributed to enriching this work.

5. Erik Rheinfrank, Michael Brunthaler, Marie Kienzer, Giada Franceschi, Peter Matvijia, Michael Schmid, Ulrike Diebold, and Michele Riva

“Reversible Switching Between B-Site and A-Site-rich Surfaces by Ar⁺-Sputtering and MnO Deposition in La_{0.8}Sr_{0.2}MnO₃(001)“

Physical Review Materials, in preparation

Taming Complexity in Materials Modeling (TACO), ERC WatFun

6. Erik Rheinfrank, Giada Franceschi, Luca Lezuo, Michael Schmid, Ulrike Diebold, and Michele Riva

„Atomically-resolved 4-fold aperiodic surface structure of La_{0.8}Sr_{0.2}MnO₃(001)“

Physical Review Letters, in preparation

Taming Complexity in Materials Modeling (TACO)

7. Michele Riva, , Florian Dörr, Giada Franceschi, Lutz Hammer, Alexander M. Imre, Florian Kraushofer, Erik Rheinfrank, Michael Schmid and Ulrike Diebold,

“Perspective – ViPerLEED: Unleashing the power of LEED I (V) for surface structure determination”

Physical Review Research, in preparation,

This research was funded by the Austrian Science Fund (FWF) under doi:10.55776/F81, Taming Complexity in Materials Modeling (TACO), and by the European Research Council (ERC) under the European Union’s Horizon 2020 research and innovation programme (grant agreement No. 883395, Advanced Research Grant ‘WatFun’). For the purpose of open access, the authors have applied a CC BY public copyright license to any Author Accepted Manuscript version arising from this submission. Part of the LEED-I(V) calculations were performed on the Vienna Scientific Cluster (VSC).

8. Alexander M. Imre, Paul Haidegger, Florian Kraushofer, Ralf Wanzenböck, Tobias Hable, Sarah Tobisch, Florian Buchner, Jesus Carrete, Georg K. H. Madsen, Lutz Hammer, Michael Schmid, Ulrike Diebold, and Michele Riva

“Structural Optimization in Tensor-LEED Using a Tree-based Algorithm”

This research was funded in part by the Austrian Science Fund (FWF) under doi:10.55776/F81, Taming Complexity in Materials Modeling (TACO), and by the European Research Council (ERC) under the European Union’s Horizon 2020 research and innovation programme (grant agreement No. 883395, Advanced Research Grant ‘WatFun’). For the purpose of open access, the authors have applied a CC BY public copyright license to any Author Accepted Manuscript version arising from this submission. The computational results presented have been achieved in part using the Vienna Scientific Cluster (VSC).

9. Moritz Eder*, Faith J. Lewis, Johanna I. Hütner, Panukorn Sombut, Maosheng Hao, David Rath, Jan Balajka, Margareta Wagner, Cesare Franchini, Ulrike Diebold, Michael Schmid, Jiri Pavelec, Florian Libisch, Jiri Pavelec*, and Gareth S. Parkinson

“Multi-Technique Characterization of Rhodium Gem-Dicarbonyls on TiO₂(110)”

ACS Sustainable Chemistry & Engineering, in preparation

Funding from the European Research Council (ERC) under the European Union’s Horizon 2020 research and innovation program (grant agreement no. 864628, Consolidator Research Grant “E-SAC”) is acknowledged. This work was supported by the European Research Council under the European Union’s Horizon 2020 research and innovation program (grant agreement No. 883395, Advanced Research Grant “WatFun”). This research was funded in part by the Austrian Science Fund (FWF) 10.55776/F81 and the Cluster of Excellence MECS (10.55776/COE5). For open access purposes, the authors have applied a CC BY public copyright license to any author accepted manuscript version arising from this submission. Moritz Eder acknowledges funding by the Marie Skłodowska-Curie Actions (Project 101103731, SCI-PHI). The computational results have been achieved using the Vienna Scientific Cluster (VSC). The authors acknowledge TU Wien Bibliothek for the financial support through its Open Access Funding Programme.

10. Matthias Blatnik, Fabio Calcinelli, Andreas Jeindl, Michael Schmid, Jan Cechal, Ulrike Diebold, Peter Jacobson, Oliver T. Hofmann and Margareta Wagner
“Highly ordered Cu-phthalocyanine layers on the transparent conductive oxide $\text{In}_2\text{O}_3(111)$ ”

Journal of Materials Chemistry C, in preparation

This research was funded or in part by the Austrian Science Fund (FWF) [10.55776/V773, 10.55776/Y1157, 10.55776/COE5]. For the purpose of open access, the author has applied a CC BY public copyright license to any Author Accepted Manuscript version arising from this submission. MB acknowledges financial support through the ERC and MEYS CR co-founded IMPROVE V project CZ.02.01.01/00/22_010/0002552; UD through the ERC-2019-ADG, Project #883395 “WatFun”; OTH through the FWF-START-project Y1157 “MAP-DESIGN”.

11. Johanna I. Hütner, Andrea Conti, David Kugler, Franziska Sabath, Kim Noelle Dreier, Georg Stammmler, Florian Mittendorfer, Angelika Kühnle, Michael Schmid, Ulrike Diebold, and Jan Balajka*

„Surface reconstructions govern ice nucleation on silver iodide“

Nature, in preparation

The authors thank Ralf Bechstein for assistance with XRD measurements. Georg Kresse and Angela Rittsteuer are thanked for discussions. The work was supported by European Research Council grant 883395 “WatFun” and by Austrian Science Fund (FWF) grant SFB-F81, doi: 10.55776/F81. A.K. gratefully acknowledges financial support from the German Research Foundation (DFG) through grant KU 1980/18-1 “Hydration Structure on Ice Nucleating Mineral Surfaces”. The computational results presented have been achieved using the Vienna Scientific Cluster (VSC).

Pending invitations:

J Chem Phys Festschrift Annabella Selloni, -> submission deadline Aug 31, 2025

<https://aip-info.org/p/1ZJX-1DEM/invitation-response-form?opportunityid=>

Small Science (Invite, see email Feb 9, 2025)

We are excited to announce that *ACS Energy Letters* is celebrating its tenth anniversary in 2025 and we are planning a series of initiatives (<https://pubs.acs.org/doi/10.1021/acseenergylett.4c03409>). One of them will be a special issue, titled “The Evolving Landscape of Energy Research: Views from the Editorial Team” featuring past and present Editorial Board members of *ACS Energy Letters* during its ten years of publication, and we would be honored to have your contribution to this commemorative issue as a part of this effort.

We will be formally inviting you to submit a manuscript (letter, review, or perspective) for the Special Issue, and our Editorial Office will send you an invitation message with a submission link soon. The deadline for submission will be September 30, 2025, with the Special Issue tentatively scheduled to begin publishing in late 2025.

Submitted:

1. Panukorn Sombut, Matthias Meier, Thomas Angerler, Moritz Eder, Oscar Gamba, Michael Schmid, Ulrike Diebold, Cesare Franchini and Gareth S. Parkinson
„The Surface Phase Diagram of $\text{Fe}_3\text{O}_4(001)$ Revisited“

RSC Applied Interfaces, revised version resubmitted (March 2025)

The authors acknowledge funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation program (grant agreement No. [864628], Consolidator Research Grant 'E-SAC'). This research was funded in part by the Austrian Science Fund (FWF) under doi 10.55776/F81, Taming Complexity in Materials Modeling (**TACO**) the Cluster of Excellence **MECS**, under doi 10.55776/COE5. ME acknowledges funding from the **EU Marie Skłodowska-Curie Actions** of Horizon-MSCA-2022-PF-01 (Project 101103731 - **SCI-PHI**). The computational results have been achieved using the Vienna Scientific Cluster (VSC). For the purpose of open access, the authors have applied a CC BY public copyright license to any Author Accepted Manuscript version arising from this submission.

Published:

2025

306. Igor Sokolovic, Michael Schmid, Ulrike Diebold, and Martin Setvin
„How to cleave cubic perovskite oxides“

Review of Scientific Instruments, in press (February 2024)

<https://doi.org/10.1063/5.0233747>

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305. Igor Sokolovic, Eduardo B. Guedes, Thomas P. van Waas, Fei Guo, Samuel Ponce, Craig Polley, Michael Schmid, Ulrike Diebold, Milan Radovic, Martin Setvin, and J. Hugo Dil

„Duality and degeneracy lifting in two-dimensional electron liquids on SrTiO₃(001)“

Nature Communications, in revision (December 2024)

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<https://arxiv.org/abs/2405.18946>

304. Paul T. Ryan, Jan Balajka, , Margareta Wagner, Martin Setvin, Bernd Meyer, Tjisse Hiemstra and Ulrike Diebold

“Acidity of Individual Surface Sites: The Surface-Science Approach”,

Contribution to Special Issue of “**Reviews in Mineralogy and Geochemistry**”

Editors: Piotr Zarzycki, Johannes Lützenkirchen, Benjamin Gilbert

in press (January 2025)

This work was supported by the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (Grant Agreement No. 883395, Advanced Research Grant "WatFun")

303. Michael Schmid, Florian Kraushofer, Alexander M. Imre, Tilman Kißlinger, Lutz Hammer, Ulrike Diebold, and Michele Riva
„ViPerLEED package II: Spot tracking, extraction and processing of I (V) curves“
Physical Review Research, 7 (2025) 013005

The authors would like to thank Maximilian Buchta for providing test data for the "azimuth blur" mode. This research was funded in part by the Austrian Science Fund (FWF) under doi 10.55776/F81, Taming Complexity in Materials Modeling (TACO). For the purpose of open access, the author has applied a CC BY public copyright licence to any Author Accepted Manuscript version arising from this submission.

SI: DOI: 10.48436/0xjws-z6z56

doi: 10.1103/PhysRevResearch.7.013005

302. Florian Kraushofer, Alexander M. Imre, Tilman Kißlinger, Michael Schmid, Ulrike Diebold, Lutz Hammer, Michele Riva
“ViPerLEED package I: Calculation of I(V) curves and structural optimization”
Phys. Rev. Research, 7 (2025) 013006

This research was funded in part by the Austrian Science Fund (FWF) under doi:10.55776/F81, Taming Complexity in Materials Modeling (TACO), and by the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (Grant Agreement No. 883395, Advanced Research Grant "WatFun"). For the purpose of open access, the authors have applied a CC BY public copyright licence to any Author Accepted Manuscript version arising from this submission. Part of the LEED-I(V) calculations were performed on the Vienna Scientific Cluster (VSC).

10.1103/PhysRevResearch.7.013006

2024

301. Jesus Redondo, Michele Reticioli, Vit Gabriel, Dominik Wrana, Florian Ellinger, Michele Riva, Giada Franceschi, Erik Rheinfrank, Igor Sokolovic, Zdenek Jakub, Florian Kraushofer, Aji Alexander, Eduard Belas, Laerte L. Patera, Jascha Repp, Michael Schmid, Ulrike Diebold, Gareth S. Parkinson, Cesare Franchini*, Pavel Kocan, Martin Setvin*

“Real-space investigation of polarons in hematite Fe₂O₃”

Science Advances, 10 (2024) eadp7833

<https://doi.org/10.1126/sciadv.adp7833>

The work was funded by projects GACR20-21727X, GAUK Primus/20/SCI/009 (JRed, DW, AA and MSe) and by the Austrian Science Fund FWF (Special Research Program, F8100-N, TACO). Support from the joint Austrian (BMBWF CZ15/2021) and Czech (MSMT8J21AT004) project (by MR, MSe and FE) is acknowledged. DW acknowledges the Bekker NAWA stipend PPN/BEK/2020/1/00415. GSP and FK acknowledge funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement No. [864628], Consolidator Research Grant 'E-SAC').

<https://arxiv.org/abs/2303.17945>

300. Ralf Wanzenböck, Esther Heid, Michele Riva, Giada Franceschi, Alexander M. Imre, Jesus Carrete, Ulrike Diebold, and Georg K. H. Madsen
„Exploring inhomogeneous surfaces: Ti-rich SrTiO₃(110) reconstructions via active learning“

Digital Discovery, 23 (2024) 2137-2145

<https://doi.org/10.1039/D4DD00231H>

Taming Complexity in Materials Modeling (TACO)

<https://doi.org/10.26434/chemrxiv-2024-9l6jc>

299. Paul T. P. Ryan, Panukorn Sombut, Ali Rafsanjani Abbasi, Chunlei Wang, Fulden Eratam, Francesco Goto, Ulrike Diebold, Matthias Meier, David A. Duncan, and Gareth S. Parkinson

“Quantitative measurement of cooperative binding in partially-dissociated water dimers at hematite “R-cut” interface”

Journal of Physical Chemistry Letters, 128 (40) (2024) 16977–16985

<https://pubs.acs.org/doi/10.1021/acs.jpcc.4c04537>

(ERC) under the European Union’s Horizon 2020 research and innovation program (grant agreement No. [864628], Consolidator Research Grant ‘E-SAC’). This work was also supported by the Austrian Science Fund (FWF) under project number F81, Taming Complexity in Materials Modeling (TACO) (MM, CW, GSP, UD, MS, MM, CF). ERC WatFun The computational results presented have been achieved [in part] using the Vienna Scientific Cluster (VSC). We also thank Diamond Light Source for the award of beam time (SI31726-1)

298. Ali Rafsanjani-Abbasi, Florian Buchner, Faith J. Lewis, Lena Puntischer, Florian Kraushofer, Panukorn Sombut, Moritz Eder, Jiri Pavelec, Erik Rheinfrank, Giada Franceschi, Viktor C. Birschtzky, Michele Riva, Cesare Franchini, Michael Schmid, Ulrike Diebold, Matthias Meier, Georg K. H. Madsen, Gareth S. Parkinson

„Digging its Own Site: Linear Coordination Stabilizes a Pt₁/Fe₂O₃ Single-Atom Catalyst“

ACS Nano, 39 (18) (2024), 26920–26927

<https://pubs.acs.org/doi/10.1021/acsnano.4c08781>

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297. Chunlei Wang, Panukorn Sombut, Lena Puntischer, Manuel Ulreich, Jiri Pavelec, David Rath, Jan Balajka, Matthias Meier, Michael Schmid, Ulrike Diebold, Cesare Franchini, and Gareth S. Parkinson

“A multi-technique study of C₂H₄ adsorption on a model single-atom Rh₁ catalyst”

Journal of Physical Chemistry C, in press (August 2024)

(Special Issue honoring Gianfranco Pacchioni and Francesc Illas)

LH, GSP, JP, PS, ARA and MM acknowledge funding from the European Research Council (ERC) under the European Union’s Horizon 2020 research and innovation programme (grant agreement No. [864628], Consolidator Research Grant ‘E-SAC’). This work was also supported by the Austrian Science Fund (FWF) under project number F81, Taming Complexity in Materials Modeling (TACO) (MM, CW, MU, GSP, UD, MS, CF) and the START prize Y847-N20)

296. Johanna I. Hütner, Andrea Conti, David Kugler, Florian Mittendorfer, Georg Kresse, Michael Schmid, Ulrike Diebold, and Jan Balajka,

„Stoichiometric reconstruction of the Al₂O₃(0001) surface“

Science, 385 (2024) 1241-1244

<https://doi.org/10.1126/science.adq4744>

<https://doi.org/10.48550/arXiv.2405.19263>

ERC WatFun, TACO

(Featured in Perspectives Article by J.A. Weymouth and F.J. Giessibl, “Decoding the surface of a complex oxide”, *Science* 385 (2024) 1166, DOI: [10.1126/science.ads0942](https://doi.org/10.1126/science.ads0942))

295. David Rath, V. Mikerásek, Chunlei Wang, Moritz Eder, Michael Schmid, Ulrike Diebold, Gareth S. Parkinson and Jiří Pavelec

„Infrared reflection absorption spectroscopy setup with incidence angle selection for surfaces of non-metals“

Review of Scientific Instruments **95** (2024) 065106,

[doi: 10.1063/5.0210860](https://doi.org/10.1063/5.0210860)

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<https://arxiv.org/abs/2403.19263>

294. Viktor C. Birschtzky, Igor Sokolovic, Michael Prezzi, Krisztian Palotas Ulrike Diebold, Martin Setvin, Michele Reticcioli, and Cesare Franchini

„Machine Learning Based Prediction of Polaron-Vacancy Patterns on the TiO₂(110) Surface“

npj Computational Materials, **10** (2024) 89

[doi:10.1038/s41524-024-01289-4](https://doi.org/10.1038/s41524-024-01289-4)

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<https://arxiv.org/abs/2401.12042>

293. Giada Franceschi, Andrea Conti, Luca Lezuo, Rainer Abart, Florian Mittendorfer, Michael Schmid, Ulrike Diebold¹

“NH₃ adsorption and competition with H₂O on a hydroxylated aluminosilicate surface”

Journal of Chemical Physics, **160** (2024) 164312

<https://doi.org/10.1063/5.0202573>

<http://arxiv.org/abs/2404.17436>

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Chosen as ‘Editor’s Pick’

292. Aljoscha Söll, Edoardo Lopriore, Asmund Ottesen, Jan Luxa, Gabriele Pasquale, Jiri Sturala, František Hájek, Vitezslav Jary, David Sedmidubský, Kseniia Mosina, Igor Sokolović, Saeed Rasouli, Tibor Grasser, Ulrike Diebold, Andras Kis, Zdeněk Sofer

“A High-κ Wide-Gap Layered Dielectric for Two-Dimensional van der Waals Heterostructures“

ACS Nano **18** (2024) 10397 – 10406

<https://doi.org/10.1021/acsnano.3c10411>

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291. Chunlei Wang, Panukorn Sombut, Lena Puntischer, Matthias Meier, Zdenek Jakub, Michael Schmid, Ulrike Diebold, Cesare Franchini, Gareth S. Parkinson
“CO-Induced Dimer Decay Responsible for Gem-Dicarbonyl Formation on a Model Single-Atom Catalyst”

Angewandte Chemie, International Edition, 63 (16) (2024) e202317347

<https://doi.org/10.1002/anie.202317347>

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2023

290. Giada Franceschi, Andrea Conti, Luca Lezuo, Rainer Abart, Florian Mittendorfer, Michael Schmid, and Ulrike Diebold

“How the feldspar microcline (001) surface anchors H-bonded water layers”

Journal of Physical Chemistry Letters 15 (2023) 15 -22

<https://doi.org/10.1021/acs.jpclett.3c03235>

<http://arxiv.org/abs/2311.15629>

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ACS Editor’s Choice

Highlighted in Physics Today Physics Today 77 (3), 15–16 (2024);

<https://doi.org/10.1063/pt.okra.wsde>

289. Oscar Gamba, Moritz Eder, Matthias Poglitsch, Panukorn Sombut, Matthias Meier, Ulrike Diebold, Michael Schmid, Gareth S. Parkinson

“Formation and Stability of Fe-Rich Terminations of Fe₃O₄(001)”

Materials Research Express, 10 (11) (2023) 116517

<https://iopscience.iop.org/article/10.1088/2053-1591/ad0ac5>

This work was supported by the Austrian Science Fund (FWF) under project number F81, Taming Complexity in Materials Modeling (TACO) (GSP, ME, PS, MM, UD, MS).

288. Giada Franceschi, Rene Heller, Michael Schmid, Ulrike Diebold, and Michele Riva

“Evolution of the surface atomic structures of multielement oxide films: curse or blessing?”

Nanoscale Advances, 5 (2023) 7009-7017

<https://doi.org/10.1039/D3NA00847A>

The authors were supported by the Austrian Science Fund (FWF) through project SFB-F81 “Taming Complexity in materials modeling” (TACO) and by the European Research Council (ERC) under the European Union’s Horizon 2020 research and innovation programme (grant agreement No. 883395, Advanced Research Grant ‘WatFun’).

287. Lena Puntischer, Panukorn Sombut, Chunlei Wang, Manuel Ulreich, Jiri Pavelec, Ali Rafsanjani-Abassi, Matthias Meier, Adam Lagin, Martin Setvin, Ulrike Diebold, Cesare Franchini, Michael Schmid and Gareth S. Parkinson

“A Multi-Technique Study of C₂H₄ Adsorption on Fe₃O₄(001)”

Journal of Physical Chemistry C, 127, 37 (2023), 18378–18388

<https://pubs.acs.org/doi/10.1021/acs.jpcc.3c03684>

[arXiv:2308.11344v1](https://arxiv.org/abs/2308.11344v1)

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286. Sabrina M. Gericke, Minttu M. Kauppinen, Margareta Wagner, Michele Riva, Giada Franceschi, Alvaro Posada-Borbon, Lisa Rämisch, Sebastian Pfaff, Alexander M. Imre, Alexei B. Preobrajenski, Stephan Appelfeller, Sara Blomberg, Lindsay R. Merte, Johan Zetterberg, Ulrike Diebold, Henrik Grönbeck, and Edvin Lundgren
“Effect of different In₂O₃(111) surface terminations on CO₂ adsorption“

ACS Applied Materials Interfaces, 15 (38) (August 2023) 45367 - 45377

<https://doi.org/10.1021/acsami.3c07166>

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<http://arxiv.org/abs/2308.12657>

285. Jesús Redondo, Jan Michalička, Giada Franceschi, Břetislav Šmid, Nishant Kumar, Ondrej Man, Matthias Blatnik, Dominik Wrana, Florian Kraushofer, Benjamin Mallada, Martin Švec, Gareth Parkinson, Martin Setvin, Michele Riva, Ulrike Diebold, and Jan Čechal
„Hematite α-Fe₂O₃(0001) in top and side view: Resolving long-standing controversies about its surface structure“

Advanced Materials Interfaces, 10 (32) (2023) 230062.

<https://doi.org/10.1002/admi.202300602>

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<https://arxiv.org/abs/2303.06023>

284. Giada Franceschi, Sebastian Brandstetter, Jan Balajka, Igor Sokolović, Jiri Pavelec, Martin Setvín, Michael Schmid, and Ulrike Diebold
“Interaction of surface cations of cleaved mica with water in vapor and liquid forms”
Faraday Discussions, in press, May 2023

<https://doi.org/10.1039/D3FD00093A>

This work was supported by the European Research Council (ERC) under the European Union’s Horizon 2020 research and innovation programme (grant agreement No. 883395, Advanced Research Grant ‘WatFun’). S.B. acknowledges support from the FFG Project No. 23017619 ‘FunPakTrio’. M. Setvín was supported through the FWF project “Super” and the Czech Science Foundation, project GACR 20-21727X.

<http://arxiv.org/abs/2308.14571>

283. Giada Franceschi and Ulrike Diebold
“Oxide Surfaces”

Encyclopedia of Materials: Electronic, Section: Complex Oxides, 2023, Elsevier

[doi:10.1016/B978-0-12-819728-8.00059-0](https://doi.org/10.1016/B978-0-12-819728-8.00059-0)

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282. Florian Kraushofer, Matthias Meier, Zdeněk Jakub, Johanna Hütner, Jan Balajka, Jan Hulva, Michael Schmid, Cesare Franchini, Ulrike Diebold, Gareth S. Parkinson,
“Oxygen-Terminated (1×1) Reconstruction of Reduced Magnetite Fe₃O₄(111)”
Journal of Physical Chemistry C Letters, 14 (2023) 3258 - 3265

<https://doi.org/10.1021/acs.jpclett.3c00281>

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[DOI: 10.1039/c9cp03322j](https://doi.org/10.1039/c9cp03322j)

FWF FOXSI

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Martin Setvin, Michael Schmid, Ulrike Diebold, Cesare Franchini, Gareth S.

Parkinson

“Local Structure and Coordination Effects Define Adsorption in a Model Ir₁/Fe₃O₄ Single-Atom Catalyst”

Angewandte Chemie International Edition, 7 (2019) 2559

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<https://doi.org/10.1002/anie.201907536>

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Stoeger, Flora Poelzleitner, Cesare Franchini, Michael Schmid, Ulrike Diebold and

Martin Setvin

“Defect chemistry of Eu dopants in NaI scintillators studied by atomically resolved force microscopy”

Physical Review Materials, 3 (2019) 075004

<https://doi.org/10.1103/PhysRevMaterials.3.075004>

FWF Project Wittgenstein Prize Z 250 and Solids4Fun W1243

[arXiv:1809.01347](https://arxiv.org/abs/1809.01347)

239. Zdenek Jakub, Jan Hulva, Francesca Mirabella, Florian Kraushofer, Matthias Meier, Roland Bliem, Ulrike Diebold, Gareth S. Parkinson*

“Nickel doping enhances the reactivity of Fe₃O₄(001) to water”

Journal of Physical Chemistry C, 123 (24) (2019) 15038 – 15045

DOI: [10.1021/acs.jpcc.9b02993](https://doi.org/10.1021/acs.jpcc.9b02993)

FWF START, FWF Wittgenstein, TU-D

Green OA

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“Pushing the Detection of Cation Deficiency to the Limit”

Physical Review Materials, 3, 043802 (2019)

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FOXSI, WWTF, NSF

Selected as ‘Editor’s Suggestion’

Green OA

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‘Incipient ferroelectricity: A route towards bulk-terminated SrTiO₃ (001)’

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DOI: [10.1103/PhysRevMaterials.3.034407](https://doi.org/10.1103/PhysRevMaterials.3.034407)

<https://arxiv.org/abs/1807.09379>

FWF Wittgenstein, Solids4Fun, SFB FOXSI

Green OA

236. Zdenek Jakub, Florian Kraushofer, Magdalena Bichler, Jan Balajka, Jan Hulva, Jiri Pavelec, Igor Sokolović, Matthias Müllner, Martin Setvin, Michael Schmid, Ulrike Diebold, Peter Blaha, Gareth S. Parkinson*

“Partially Dissociated Water Dimers at the Water-Hematite Interface”

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DOI: [10.1021/acsenergylett.8b02324](https://doi.org/10.1021/acsenergylett.8b02324)

FWF START, FWF Wittgenstein, ViCOM, Solids4Fun, TU-D

Golden OA

235. Michele Reticcioli, Igor Sokolovic, Michael Schmid, Ulrike Diebold, Martin Setvin, and Cesare Franchini

“Interplay between adsorbates and polarons: CO on rutile TiO₂(110)”

Physical Review Letters, 122 (2019) 016805

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Solids4Fun, ERC OxideSurface, FWF Wittgenstein

Selected as ‘Editor’s Choice’ by PRL

Green OA

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Surface Science, 679 (2019) 180 - 187

<https://doi.org/10.1016/j.susc.2018.09.004>
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“Adsorption of CO on the $\text{Ca}_3\text{Ru}_2\text{O}_7(001)$ surface”
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<https://doi.org/10.1016/j.susc.2018.10.004>
FWF FOXSI (F4505)
<http://arxiv.org/abs/1810.01186>

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“Stability and catalytic performance of reconstructed $\text{Fe}_3\text{O}_4(001)$ and $\text{Fe}_3\text{O}_4(110)$ surfaces during oxygen evolution reaction”
Journal of Physical Chemistry C*, 123 (2018) 8304-8311
**(Festschrift dedicated to Hans-Joachim Freund and Joachim Sauer)*
DOI: [10.1021/acs.jpcc.8b08733](https://doi.org/10.1021/acs.jpcc.8b08733)
A-LEAF
Golden OA

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DOI: [10.1039/C8TA04137G](https://doi.org/10.1039/C8TA04137G)
FWF FOXSI (F4505), START Y847-N20

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Physical Review B, B **98**, 045306 (2018)
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FWF Vicom, FWF Polox, FWF Wittgenstein, ERC OxideSurfaces

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FOXSI, ERC OxideSurfaces, Wittgensteinpreis

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FOXSI, ERC OxideSurfaces, TU-D, other sources

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Part of the 2018 collection ‘Celebrating Excellence in Research: 100 Women of Chemistry’

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FWF ‘Functional Surfaces 40 and Interfaces’, FOXSI F45, the European Research Council (ERC-2011-ADG_20110209 Advanced Grant ‘OxideSurfaces’), the Doctoral Colleges TU-D and Solids4fun (FWF-W1243).

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DOI: [10.1021/acs.jpcc.7b10515](https://doi.org/10.1021/acs.jpcc.7b10515)

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DOI: [10.1021/acsnano.7b06387](https://doi.org/10.1021/acsnano.7b06387)

FWF (T759-N27, Solids4Fun), ERC OxideSurfaces, other sources

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A.S.: DoE-BES, Division of Chemical Sciences, Geosciences and Biosciences under Award DE-SC0007347.

C.D.V.: Cariplo Foundation for the Grant no. 2013-0615.

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DOI: [10.1103/PhysRevX.7.031053](https://doi.org/10.1103/PhysRevX.7.031053)

FWF VICOM, FWF POLOX, ERC Advanced Research Grant ‘OxideSurfaces’, FWF Wittgenstein-prize (Z250-N16), National Natural Science Foundation of China

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ERC Grant OxideSurfaces, Solids4Fun, FWF Wittgenstein

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FWF: FOXSI & Wittgenstein, ERC Grant OxideSurfaces

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ERC Grant OxideSurfaces, FWF Wittgenstein, Gareth START Prize, Others (AS: DoE, CDV: Cariplo Foundation, HW: Chinese sources)
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Nature Communication, 8 (2017) 23

FWF FOXSI, ERC Grant OxideSurfaces

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ERC Grant OxideSurfaces, Gareth START Prize, FWF Wittgenstein

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ERC Advanced Grant 'OxideSurfaces', FWF Project F45 (FOXSI)

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ERC Advanced Grant 'OxideSurfaces', FWF Project F45 (FOXSI), Solids4Fun, other sources

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ERC Advanced Grant “OxideSurfaces”, other sources

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(DE-FG02-05ER15702, CHE-0715576)

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(Special Issue Honoring the Memory of Prof. T.E. Madey)

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7. U. Diebold and P. Varga
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OTHER PUBLICATIONS:

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17. Xavier R. Advincula, Katarina E. Blow, Mischa Bonn, Anna Bui, Yafang Cheng, Stephen J. Cox, Flaviano Della Pia, Ulrike Diebold, Laura Fumagalli, Gaurav Goel, John A. Hayton, Ying Jiang, Venkat Kapil, Nikita Kavokine, Kenichiro Koga, Damien Laage, Meir Lahav, Shurui Miao, Angelos Michaelides, Pablo Montero de Higes, Karina Morgenstern, Taritra Mukherjee, Niamh O'Neill, Ding Pan, Pablo M. Piaggi, Susan L. B. Rempe, Matteo Salvalaglio, Christoph G. Salzmann, Thomas Sayer, Margarita Shepelenko, Gabriele C. Sosso, Shaoheng Wang, Beau Webber, Adam P. Willard and Yang Yao

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„Electrified/charged aqueous interfaces: general discussion“
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14. Giada Francheschi, Martin Setvin, and Ulrike Diebold
“Imaging the surface ions of pristine muscovite mica”
Imaging & Microscopy, 2 (May 10, 2023)
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13. Giada Franceschi and Ulrike Diebold
„Atomar aufgelöste Bilder von Glimmeroberflächen“
Physik in unserer Zeit, 5(3) (May 2023) 114-115
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12. Ulrike Diebold
„Where Physics Meets Chemistry: Surfaces at the Atomic Scale”
Extended Abstract, Joint Annual Meeting of the Austrian and Swiss Physical Societies, SPG Mitteilungen Nr. 65, November 2021

11. Ulrike Diebold
"Surface Science of Metal Oxides: Examining What Happens at the Atomic Scale"
Proceedings NanoFis 2020
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10. L. Robert Baker, Ulrike Diebold, Jeong Young Park, and Annabella Seloni
“Oxide Chemistry and Catalysis (Editorial)”
Journal of Chemical Physics 135 (2020) 050401
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9. Ulrike Diebold, Michele Riva, Giada Franceschi, Igor Sokolovic, Martin Setvin, and Michael Schmid
“Surface Science of Metal Oxides: Looking What Happens at the Atomic Scale”
Proceedings of nanoFIS - Functional Integrated nanoSystems Conference, Graz, Austria, 28 – 30 April 2020.

8. Wolf-Dieter Schneider, Friedrich Aumayr, and Ulrike Diebold
“Highlights of the Science and Life of Peter Varga (1946 - 2018)”
e-JSSNT 18 (2020) 8-11
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7. Giada Franceschi, Michele Riva, Michael Schmid, and Ulrike Diebold
“Scanning Probe Microscopy for Characterization of Thin Film Growth Processes”
Book Chapter in: Molecular Beam Epitaxy -- Characterization
Edited by Scott A. Chambers and Alex Demkov,
World Scientific Publishing, in press (2019)
6. Michele Reticcioli, Ulrike Diebold, Georg Kresse and Cesare Franchini
“Small polarons in transition metal oxides”
Book Chapter in: Handbook of Materials Modeling, Volume 2
edited by Sindey Yip and Wanda Andreoni, Springer 2018
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<http://arxiv.org/abs/1902.04183>
5. U. Diebold and T. M. Orlando (Guest Editors)
Special Issue Journal of Physics: Condensed Matter, vol 22 no 8, 2010
“Non-Thermal Processes on Surfaces. Dedicated to the Memory of Prof. Theodore E. Madey”
Foreword: J. Phys.: Condens. Matter 22 (2010) 080301 (1pp)
4. (Invited) U. Diebold
In memoriam “Theodore Eugene Madey, October 24, 1937 – July 27, 2008”
Surface Science Reports 64 (2009) FM3-FM4
3. C. Di Valentin, U. Diebold, A. Selloni, (Guest Editors)
Special Issue in Chemical Physics
“Doping and Functionalization of Photoactive Semiconducting Metal Oxides”,
Chemical Physics 339 (2007)
2. (Invited) U. Diebold
“Electron Microscopy”
Contribution to the “Macmillan Encyclopedia of Physics” (1996)
1. (Invited) U. Diebold
Book review of, “The Surface Science of Metal Oxides” by V.E. Henrich and P.A. Cox
Physics Today, February 1995, p. 58,

PATENTS:

- “Vorrichtung zur schwingungs isolierten Aufhängung einer Last”
Michael Schmid (contribution 75%), Martin Setvin (20%), Ulrike Diebold (5%),
Austrian Patent, Number AT 518871 B1 2018-02-15, February 2018
“Device for suspending a load in a vibration-insulated manner”
<https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2018037102>

INVITED TALKS AT CONFERENCES:

225. *Invited talk*, Wilhelm und Else Heraeus (WEH) Seminar, „Current and future trends in scanning probe microscopy“. November 16th to 20th of 2025 at the Physikzentrum in Bad Honnef (Germany), organizers: Shadi Fatayer, Susanne Baumann and Hermmann Osterhage (upcoming)

224. *Invited talk*, Cluster Meeting 2025, June 22-27, 2025, Clarion Conference Center, Prague, Czechia,
“Atomically-resolved surface structure —the prerequisite for understanding surface chemistry”
<https://www.clustermeeting2025.eu/welcome-cluster-meeting-2025>
(upcoming)

Invited talk, Gordon Research Conference, Ventura, CA, USA (Tue 11 February 2025)
“Atomically-resolved surface structure —the prerequisite for understanding surface chemistry”
<https://www.grc.org/chemical-reactions-at-surfaces-conference/2025/>
(cancelled due to illness)

223. Ernst Haage Prize for Chemistry 2024, Prize Ceremony, Mühlheim/Ruhr, Nov 15, 2024
“Laudatio for National Award Winner Prof. Dr. Barbara J. Lechner”

222. *Invited talk*, 30 years of IPE, VUT Brno, Czechia, Oct. 22, 2024
“The Brno-Vienna Connection: A Success Story”

221. *Invited talk*, Catalysis in a changing environment – linking fundamental aspects to engineering (July 21 – 23, 2024, TUM Catalysis Center, Garching, my talk: July 22, 2024)
“Surface Science & Catalysis”

220. *Plenary Talk*, 8th International Congress on Catalysis (ICC18) July 14-19, 2024, Lyon, France, my talk: July 19, 2024
„Oxide Surface Science: Chemistry at the Atomic Scale“
<https://www.icc-lyon2024.fr/en/scientific-program/plenary-lecturers/23>

219. *Plenary Talk*, Condensed Matter and Quantum Materials (CMQM) Conference, 2-5 July 2024, St Andrews, Scotland, my talk: 2-5 July 2024,
„Surface Science of Functional Oxides”
<https://iop.eventsair.com/cmqm2024/>
<https://airdrive.eventsair.com/eventsairwesteuprod/production-iop-public/2578ab1585884d4f8dbbc09c729ac4b0>

218. *Invited Talk*, ACS National Meeting, New Orleans, LA, 17-21.3.2024 (my talk on 18.3.2024)
„Surface science of metal oxides: Probing surface structure, defects, and adsorption

with atomic resolution“

217. *Invited Keynote Talk*, ACS National Meeting, New Orleans, LA, 17-21.3.2024 (my talk on 18.3.2024)

„Mechanistic insights into surface chemistry from atomistic surface science studies“

216. *Keynote talk* 5th FemChem Scientific Workshop, TU Wien, Vienna, Austria, February 27, 2024

“Surface Science: Where Physics and Chemistry Meet”

<https://femchem.chemie.tuwien.ac.at/index.php/5th-scientific-workshop/>

215. *Invited Talk*, “40 Years of Surface Science and Nanotechnology (40nano)“, Congressi Stefano Franscini at Monte Verità, Ascona, Switzerland, October 15 - 20, 2023, (my talk: Oct 15) <https://40nano.empa.ch>

„Oxide Surface Science – 30 Years of SPM with Atomic Resolution”

214. *Headline invited talk* „Water at Interfaces“, Faraday Discussion conference organised by the Royal Society of Chemistry, 20-22 September 2023, London (my talk on 20 Sept 2023)

<https://www.rsc.org/events/detail/73539/water-at-interfaces-faraday-discussion>

„Interaction of surface cations of cleaved mica with water in vapor and liquid forms”

213. *Plenary Talk*, XLIX Congress of the Italian Physical Chemistry Division, Motto: Physical Chemistry: a fresh glimpse into the microscopic world Torino (Italy), 4 -7th of September 2023 (My talk on September 5, 2023)

<https://www.cdcf49.unito.it>

„Seeing is believing: A direct view of surface chemistry”

212. *Invited Keynote Talk*, Workshop on metal-oxide ultrathin films and nanostructures, Zaragoza Scientific Center for Advanced Modeling (ZCAM), Zaragoza, Spain, July 3 – 7, 2023 (My talk on July 3 – 7, 2023)

‘Surface Science of Functional Oxides: Perovskites’

<https://zcam.bifi.es/2023/03/29/iuvsta-zcam-metal-oxide-ultrathin-films-and-nanostructures/>

211. *Invited Talk*, Cluster Meeting 2023, June 18-23, 2023 (my talk on Tue, June 20, 2023)

<https://www.clustermeeting2023.eu/>

„Surface structure, defects, and adsorption on a model (photo-)catalyst material: In₂O₃(111)’

210. *Plenary Talk*, Autumn Meeting 2023 - Brazilian Physical Society" (EOSBF 2023) May 21-25, 2023, Ouro Preto, Minas Gerais, Brazil (my talk on Tue, May 22, 2023)

<http://www1.fisica.org.br/~eosbf/2023/index.php/en/>

“Surface Science: Where Physics Meets Chemistry”

209. *Invited Talk*, DPG Spring Meeting, Dresden 30.-31.3.22, Focus Session „qPlus-Sensors in Scanning Force Microscopy”

„AFM with the qPlus sensor: An ideal tool for oxide surface science“

<https://www.dpg-verhandlungen.de/year/2023/conference/skm/part/o/session/54/contribution/5?lang=en>

208. *Invited Tutorial*, 36th Workshop on Novel Materials and Superconductors, JUFA Schladming, Feb 05 – 10, 2023 (presentation on Feb 6, 2023)

“Introduction into Surface Science and Catalysis”

207. *Opening Keynote Talk*, “Surface Science Discussions”, organized by Mikolaj Lewandowski, Poznan, Poland (online), January 17-18, 2023 (my talk on Jan 17)

“Surface Science of Complex Oxides: Where do the Atoms Sit?”

206. *Plenary Talk*, DPG Spring Meeting, Regensburg, Germany, September 2022

“Insights from Atomic-Scale Studies on Surfaces”

205. *Invited talk*, SurfCat Summer School, “The Science of Sustainable Fuels and Chemicals”, August 7. - 12. 202, Kysthusene, Denmark

“Surface Physics”

(my talk on August 10, 2022)

204. *Plenary Talk*, Solid State Ionics SSI-23, Boston, MA, USA, 17-22, 2022

“Perovskite Oxide Surfaces at the Atomic Scale”

(my talk on July 20, 2022)

202. *Keynote Talk*, CEST Center, Wiener Neustadt, May 16, 2022

“Bridging Ultrahigh Vacuum Surface Science and Electrochemistry: Interaction of Water with Oxides

201. *Keynote Talk*, Catalysis Conference, organized by [crc network catalysis](https://www.crc-network-catalysis.de/), Kassel, Germany, May 3-5, 2022 (my talk on: May 5, 2023)

“Establishing the fundamentals: atomically-resolved chemistry with surface science techniques”

200. 91st IUVSTA Workshop “Surface Chemistry of Catalytic Systems”, Weizmann Institute, Israel, March 1-3, 2022 (online, my talk on: March 1, 2022)

“Water and Hydroxyls at In₂O₃(111)”

199. International Workshop on Oxide Surfaces IWOX-XIII, South Korea, January 10-14, 2022 (Talk: January 11, 2022)

“Water and Hydroxyls at In₂O₃(111)”

198. *Keynote Talk*: Wilhelm und Else-Heraeus-Seminar mit dem Thema “From Wind and Solar Energy to Chemical Energy Storage: Understanding and Engineering Catalysis under Dynamic Conditions”, January 10 – 14, 2022 (my talk: Jan 10, 2022)

“Fundamental studies using surface science techniques”

197. Materials Research Meeting MRM2021, Symposium D-5 Yokohama, Japan, Dec 13-17th 2021 (my talk: 14.12.2021)

“Atomic-scale properties of oxides: Influence on chemistry and growth”

196. *Plenary Talk*, International Conference on Advanced Materials and Devices 2021 (ICAMD2021), Jeju, Korea December 6 - 10, 2021, (talk online on Dec. 8, 2021)
“Atomic-Scale Surface Properties of Oxide Materials”

195. *Keynote Talk*, Belgium Physics Society, Hasselt University, Belgium, December 2, 2021
“Surface Science: Research at the Interface between Physics, Chemistry, and Materials”

194. *Plenary Talk*, Joint Meeting of the Austrian and Swiss Physical Societies, August 31 – Sept. 3, 2021, Innsbruck, Austria
“Where Physics Meets Chemistry: Surfaces at the Atomic Scale”

193. Cluster Conference 2021, Prague, July 18 - 23, 2021
“Direct assessment of the acidity of individual hydroxyls on oxides”

192. *Keynote Talk*, 4th International Applied Surface Science Conference (online), June 28-29, 2021
“Probing Surfaces at the Atomic Scale”

191. *Plenary Talk*, European Materials Research Society (EMRS) Spring Meeting Strasbourg, May 31- June 4, 2021 (online, talk June 4)
“Surfaces at the atomic scale”

190. *Plenary Talk*, NEVAC Dag 2020, Netherlands Vacuum Society, Amsterdam, May 18, 2021(online)
“Oxide Surfaces at the Atomic Scale”

188. Interdisciplinary Surface Science Conference (Goeff Thornon Birthday Bash), April 19 – 22, 2021 (online)
London, UK
“Oxide Surface Science: TiO₂ and Beyond”

187. ACS National Spring Meeting, Symposium “Elucidation of Mechanisms and Kinetics at Surfaces”, April 4 – 16, 2021, online talk on April 7
“Assessing the acidity of individual hydroxyls on oxide surfaces using nc-AFM”

186. *Plenary Talk*, Ambient Pressure X-ray Photoelectron Spectroscopy (APXPS), December 15-17, 2020, Pohang, Korea (online)
“Well-controlled oxide surface systems for APXPS”

185. Quantum Oxide Research Online Meeting (Quorom-2) Online Conference November 12, 2020
(organizers: Nicola Spaldin, Chiara Gattinoni, Manuel Bibes)
“The (even more) complex surfaces of complex perovskite oxides: curse and opportunity”

184. *Keynote Plenary Talk*, NanoFIS, Graz, Austria, November 2 – 4, 2020. Online.
“Surface Science of Metal Oxides: Looking What Happens at the Atomic Scale”
183. *Keynote talk*, 71st Annual Meeting of the International Society of Electrochemistry. 30 August to 4 September 2020, online.
“Electrocatalysis on Well-Defined Metal Oxides: Combining Ultrahigh Vacuum Surface Science and Electrochemistry”
182. *Invited Talk*, “Microscopy and Spectroscopy of Nanostructures” organized by ; Weizmann Institute of Science, online, September 3, 2020
“Surface Investigations of Metal Oxides with Atomically-Resolved Scanning Probe Microscopy”
181. *Research Seminar*, École Physique des Houches, “Emergent electronic states confined at interfaces, Session CXV”, online, July 14, 2020
“The solid-vacuum interface: a look at the atomic scale”
180. Discussion Leader, International Workshop on Oxide Surfaces, IWOX-XII, Jan 5 – 10, 2020, Lake Placid, NY, USA
178. *Keynote talk*, Heraeus seminar “Operando surface science - Atomistic insights into electrified solid/liquid interfaces” 8-13 Dec 2019, Bad Honnef, Germany
“Bridging Ultrahigh Vacuum Surface Science and Liquid Water: First Steps and Future Opportunities”
177. *Keynote talk*, 2nd funCOS International Workshop, Erlangen, Germany, November 17-19, 2019
“SPM studies of molecules adsorbed on metal oxide surfaces”
176. *Invited Video Message*, ALC '19 Oct 20 – 25, 2019, Miyako Messe, Kyoto Japan
“In memoriam Peter Varga: His legacy in the world of surface science, viewed from his home town Vienna in Austria”
175. Symposium honoring the Achievements of Profs H.-J. Freund and J. Sauer, Oct 14-15, 2019, Harnack Haus, Berlin, Germany
“Scanning Probe Microscopy of Oxides: Beyond ‘Blobology’ ”
174. *Distinguished Lecture*, 4th Functional Oxide Thin Films for Advanced Energy and Information Technology Conference, Dolce CampoReal Lisboa, Torres Vedras, Portugal, 17th – 20th July 2019
“Scanning Probe Microscopy of Perovskite Oxides: A Direct View of Atomic-Scale Properties”
173. *Keynote Lecture*, 47th IUPAC World Chemistry Congress (WCC), Catalysis, Symposium on “Sorption and Separation for a Cleaner Environment,” Paris, France, July 7-12, 2019
“Surface Chemistry Viewed at the Atomic Scale”

172. Second International Workshop, SFB 986 M3, Tailor-made multiscale materials systems, 19-21 June 2019, Hotel Hafen Hamburg, Germany
“Oxide Surfaces at the Atomic Scale”

171. *Opening Keynote Talk*, 9th bilateral Czech-Austrian scientific workshop: New trends in photo and electro catalysis", May 20 – 23, 2019, Hnanice, Czechia
“Bridging ultrahigh vacuum surface science and electrochemistry: A first step”

170. *Keynote Talk*, World Chemistry Forum, WCF 2019, Barcelona, Spain, May 24 – 24, 2019
“Oxide Surface Chemistry Viewed at the Atomic Scale”

169. American Physical Society, Boston, MA, March 4-8, 2019
“Transition-metal-oxide/liquid interfaces”

168. 34th Workshop on Superconductivity and Novel Materials – HiTc, Schladming, Austria, Feb. 11, 2019
“Surface Science Investigations of Metal Oxides”

167. Symposium “40 Years of Surface Science” Friedrich-Alexander University, February 2, 2019
“Surface science of oxides - from binary oxides to multi-component materials, from UHV to the aqueous environment”

166. Symposium on Surface and Nano Science 2019 (SSNS'19), Japan, January 14 – 18, 2018
“The (1x1) Surface Structure of Perovskite Oxides”

165. *Plenary talk*, ECOSS, Aarhus, Denmark, August 26 – 31, 2018
“Atomically-Resolved Oxide Surfaces: Lessons Learned, Surprises Encountered, Challenges Posed”

164. *Plenary talk*, ICN+T 2018, Brno, Czech Republic, July 22 – 27, 2018
“Oxide Surfaces at the Atomic Scale”

163. *Invited Keynote* 17th International Meeting on Chemical Sensors - IMCS2018, University of Vienna, Vienna, Austria, July 15 – 19, 2018
“Surface Chemistry of Semiconducting Metal Oxides, Viewed at the Atomic Scale”

162. *Plenary Keynote*, VI San Luis Conference on Surfaces, Interfaces and Catalysis (VI SLC), Santa Fe, Argentina, June 6 – 8, 2018
The Interaction of water with well-characterized oxide surfaces

161. School on Surfaces, Interfaces and Catalysis, Santa Fe, Argentina, June 2 – 5, 2018
‘Surface Science of Metal Oxides: Experimental Modeling of Surface Chemistry and Catalysis’

160. Fischer Symposium, Kloster Seeon, Chiemsee, Germany, May 27 – 31, 2018
“Surface Science Studies of (Semi-)Conducting Metal Oxides”

159. *Overview Talk*, DPG Spring Meeting, Berlin, March 12, 2018
“Surface chemistry of Ruthenates”

158. 34th Annual Meeting of the Swiss Working Group for Surface and Interface Science SAOG, February 1, 2018 Fribourg, Switzerland
“Surface Science Investigations of Metal Oxides”

157. *Opening Keynote Talk* International Workshop on Oxide Surfaces, IWOX-XI, Sierra Nevada/Granada, January 22 – 26, 2018
“A Whole Series of Polarity Compensations on KTaO₃(001)”
(The talk was presented by Michele Reticcioli due to laryngitis.)

156. 5th Ito International Research Center (IIRC) Conference “Forefront of Molecular Dynamics at Surfaces and Interfaces: from a single molecule to catalytic reaction”, November 20 – 23, 2017, Tokyo, Japan
“Following single-molecule reactions on oxide surfaces with SPM”

155. Workshop Surface Science Rio WS2IO, November 6, 2017, Rio de Janeiro, Brazil
“Scanning Probe Microscopy Studies of Metal Oxides”

154. AVS Meeting, Session “Oxides in Nanotechnology”, Tampa, Florida, October 30, 2017
“Oxide Surfaces: Structure, Adsorption, Growth”

153. Bonner Humboldt-Preisträger-Forum “Fundamental Concepts and Principles of Chemical Energy Conversion” Bonn, October 11 – 14, 2017
“Energy Conversion at the Atomic Scale: ‘Watching’ Chemical Reactions, Molecule-by-Molecule”

152. Europacat 2017, Florence, Italy, 27 - 31 August 2017
“Model Systems for Catalysis: Single Crystal Oxide Surfaces”

151. DIPC School on "Photoelectrocatalysis at the atomic scale" (PECAS), Donostia-San Sebastián (Spain), June 27th- 30th, 2017
“Atomic-scale surface properties of a prototypical photocatalyst: TiO₂”

150. *Keynote Talk*, Solid State Ionics 21, Symposium IV-3 "Interfacial Processes and Nanoionics", Padua, Italy, June 18 – 23, 2017
“Atomic-Scale Surface Science Investigations of Fundamental Processes in Solid State Ionics”

149. *Plenary Opening Talk*, Conference on Applied Surface Science June 12-15, 2017, Dalian, China
“Surface Science of Oxides: Fundamental Insights Relevant for Applications”

148. 231st ECS Meeting, Symposium on Solid-Gas Electrochemical Interfaces 2, May 28 - June 2, 2017, in New Orleans, LA, USA.
“Atomic-Scale Surface Science Investigations for Understanding and Producing

Electrochemical Interfaces”

147. LEIS User Meeting CEITEC, Brno, Czech Republic, May 15-17, 2017

“Using Ion Spectroscopies for Unraveling Atomic-Scale Processes Relevant for Catalysis and Solid Oxide Fuel Cells”

146. American Physical Society March Meeting, New Orleans, Louisiana, March 12 - 17, 2017

“Surface Investigations of Selected Perovskite Oxides”

145. Novel Material , Obertraun, February 12 – 18, 2017

“Surface Science Investigations of Oxides”

144. Symposium on Surface and Nanoscience (SSNS’17), Furano, Japan, January 11 – 17, 2017

“Surface Structure and Adsorption on $\text{In}_2\text{O}_3(111)$ ”

143. International Conference Nanocon 2016, Brno, Czech Republic 19 – 21 October 2016

“Surfaces of Metal Oxides, Viewed at the Nanoscale”

142. COST Action TO-BE (Towards Oxide-Based Electronics), Fall Meeting, 28 – 30 September 2016, Ljubljana, Slovenia

“Surface Structures and Epitaxial Growth of $\text{SrTiO}_3(110)$ ”

141. *Keynote Speaker*, 6th EuCheMS Chemistry Congress, 11 – 15 September 2016, Seville, Spain

“An Atomic-Scale View of Metal Oxide Surface Chemistry with Surface Science Techniques”

140. International Conference on Nanoscience and Technology (ICNT 2016) joint with 20th International Vacuum Congress (IVC-20), Busan, Korea, August 22 to 26, 2016

“Surface Structure, Growth, and Reactivity of Selected Perovskite Oxides”

139. *Plenary Speaker*, 18th International Symposium on Small Particles and Inorganic Clusters (ISSPIC-18), Jyväskylä, Finland, August 14 – 19, 2016

“Atom-by-Atom: How Nanoclusters Form on a Surface”

138. 2016 Summer School/Workshop: “Reactivity of nanoparticles for efficient and sustainable energy production -IV”, 7-12 August 2016 at the Conference Center Kysthusene, Gilleleje, Denmark

“Fundamental insight into surfaces and their reactions”

137. *Keynote Speaker*, 49th Heyrovski Discussions, Electrochemical Interfaces at the Nanoscale, May 29th – June 2nd, 2016, Třešt’, Bohemia, Czech Republic

“Water on Single-Crystal Metal Oxide Surfaces, Studied at the Atomic Scale”

136. German-Brasilian Workshop on Applied Surface Science, Maresias, Brazil, April 10-15, 2016

“Atomic-Scale Investigations of Oxide Surfaces”

135. Jahressymposium Leopoldina, Halle, Germany, 24. März 2016,
“Surface Science: From Single Atoms to Applications”

134. Physikakademie Erlangen, 16 – 18. März 2016
“Scanning Tunneling Microscopy at Oxide Surfaces: ‘Watching’ Atoms and Molecules, one-by-one”

133. *Overview Talk*, DPG Frühjahrstagung, Regensburg, March 10, 2016
“Surface Structure and Reactivity of Selected Perovskite Oxides”

132. Symposium on Surface and Nano Science 2016, January 13 – 17, 2016, Furano, Japan
“Surface Structure and Reactivity of Selected Perovskite Oxides”

131. International Workshop on Oxide Surfaces, IWOX-X, Dalian, China, January 10 - 15, 2016
“The Fe₃O₄(001) Surface as a Model for Single-Atom Catalysis”

130. African Materials Research Society Meeting, Accra, Ghana, December 6-11, 2015
“Surface Studies of Metal Oxides” and “Homoepitaxial PLD Growth of SrTiO₃(110)-4x1: A Surface Science Perspective”

129. *Award Lecture, Blaise Pascal Medal in Materials Science*, EURASC 2015, "Climate change: impacts on ocean, food production, health and the economy" 27-28 October 2015, Le Quartz, Centre de congrès, Brest, France
“Surfaces of Metal Oxides, Studied at the Atomic Scale

128. COST Action ‘Reducible Metal Oxides’, Salzburg, October 22-23, 2015
“Epitaxial Growth and Surface Structures of SrTiO₃(110)”

127. Lecture at the Edith Flanigen Award Ceremony, Collaborative Research Center 1109, Understanding of Metal Oxide /Water Systems at the Molecular Scale: Structural Evolution, Interfaces, and Dissolution” Oct 10, 2015, Berlin, Germany
“Adsorption of Water on Single-Crystal Metal Oxide Surfaces”
(Award to Céline Chizallet)

126. *Plenary Lecture* XIII Brazilian Material Research Society Meeting, XIV SBPMat Conference, Rio de Janeiro (Brazil), Sept. 27 –Oct. 1, 2015
“Surfaces of Metal Oxides”

125. Gordon Research Conference on Crystal Growth & Assembly, June 28 – July 3, 2015, University of New England in Biddeford, ME
“Watching Nanocluster Formation, Atom-by-Atom”

124. 7th International Workshop on Surface Physics (IWSP-2015), 22-25 June 2015, Wroclaw, Poland

“Atomic-scale Studies of Metal Oxide Surfaces”

123. *Full Lecture* at the Annual Meeting of the German Physical Chemistry Society (Deutsche Bunsen-Gesellschaft), May 14 - 16, 2015, Bochum, Germany
“Water on Oxides - Structure, Dynamics, Reactions”

122. International FOXSI Symposium, May 11 – 13, 2015
“Surface Science of Perovskites”

121. 30th Workshop on Novel Materials and Superconductors, February 8-14, 2015, Obertraun, Austria
“Surface Studies of Metal Oxides”

120. *Keynote* 583rd WE-Heraeus-Seminar on “Electrochemical Surface Science”, 18 - 22 January, 2015, Physikzentrum Bad Honnef
“Water Adsorption at Oxide Surfaces”

119. *Plenary Talk*, CATSA 2014 – Catalysis Society Meeting of South Africa, November 9 – 12, 2014
(In connection with the CATSA Eminent Visitor Award)
“Surface Science Studies of Titanium Dioxide”

118. Nanoscience for Clean Energy" Discussion Meeting, October 19th to 21st, 2014, Ringberg Castle, Bavaria
“The Surface of TiO₂ Anatase, Studied with STM and DFT”

117. Alexander-von-Humboldt Lecture, FHI Workshop, September 14th to 19th, 2014, Ringberg Castle, Bavaria
“Surface Structure and Reactivity of Selected Perovskite Oxides”

116. Summer School “Reactivity of nanoparticles for more efficient and sustainable energy production -III”, 10-15 August 2014 at the Conference Center Kobæk Strand, Denmark
“Atomic-Scale Studies for a Fundamental Understanding of Photocatalysis and Nanoparticle Formation”

115. *Keynote* - International Conference on the Structure of Surfaces, ICSOS-11, July 21 – 25, 2014, Warwick, UK
“Surface Structure and Reactivity of Selected Perovskite Oxides”

114. Summerschool, Graduiertenkolleg des Sonderforschungsbereiches Maßgeschneiderte Multiskalige Materialsysteme (SFB 986) June 30 – July 4, 2014, Drochtersen-Hüll, Germany
“Oxide Surfaces – Defects, Structure, and Reactivity”

113. *Keynote*, 15th Joint Vacuum Conference, Vienna, June 15 – 20, 2014
“Atomic-Scale Processes at Metal Oxide Surfaces”

112. International Summer School Physics at Nanoscale, Devět Skal, Sněžné – Milov, Czech Republic, June 9 – 13, 2014

“Oxide Surfaces at the Atomic Scale ”

111. DPG Frühjahrstagung, March 31 – April 4, 2014, Dresden, Germany
‘Surface Properties of In_2O_3 and Other Semiconducting Metal Oxides’

110. ViCOM Conference, February 26 – 28, 2014, Vienna, Austria
“Back to Reality: Surfaces Investigated with STM and Spectroscopic Techniques”

109. *Keynote Talk* -- International Workshop on Oxide Surfaces, IWOX-IX, January 2014, Granlibakken Conference Center, Tahoe City, USA
“News from TiO_2 : subsurface vacancies, oxygen adsorption, and polarons at TiO_2 anatase (101)”

108. *Plenary talk* -- 7th International Conference of the Africa Materials Research Society, Addis Ababa, Ethiopia, December 8-13, 2013 (Dec. 11.)
“Atomic-Scale Processes at Metal Oxide Surfaces”

107. 6th Czech-Austrian workshop:^[SEP] New trends in photo and electro catalysis, Hnanice, Czech Republic, Dec, 2 – 4, 2013
“Surface Science Model Studies of Photocatalytic Materials”

106. Symposium Forschergruppe “funCOS”, November 26, 2013, Erlangen
“Adsorption at Oxide Surfaces, Probed in Real Space”

105. *Keynote talk* - CECAM Workshop, Functional oxides for emerging technologies, Bremen, Germany, October 14 – 18, 2013
“Scanning Tunneling Microscopy of Metal Oxide Surfaces with Atomic Resolution”

104. International Vacuum Congress IVC-19, Paris, September 8 – 13, 2013
“Single-atom Processes on Metal Oxide Surfaces”

103. SUNCAT Summer School on Catalysis for Energy Transformations, SLAC National Accelerator Laboratory, Menlo Park, August 24 – 31, 2013 (Talk at August 26, 10 am)
“Surface Science of Oxides”

102. Hayashi Conference: Next decades of Surface Science, July 16 - 20, 2013, Shonan Village Center, Hayama (near Tokyo)
“Investigating Metal Oxide Surfaces at the Atomic Scale”

101. Gordon Research Conference on Chemical Reactions at Surfaces, Les Diablerets, Switzerland, April 28 - May 3, 2013
‘Oxide Surfaces at the Atomic Scale ’

100. *Keynote talk*, Gordon Research Seminar, Les Diablerets, Switzerland, April 26 - 27, 2013
“Surface Chemistry: Progress, Challenges, Opportunities”

99. *Adamson Award Lecture*, 225th American Chemical Society Meeting, New Orleans, Louisiana, April 9, 2013,

“The surface science of titania, and other metal oxides”

98. Symposium Nanoscience on Surfaces: Present stand and future challenges, Schladming, Austria, January 20, 2013 – January 23, 2013

“From Binary to Ternary Oxides: A Brave New World?”

97. SpinGraph Meeting, Vienna, November 21-22, 2012

“STM studies of Graphene on Ni(111)”

96. American Ceramic Society 2012, Sosman Award Symposium honoring Prof. Dawn Bonnell, Pittsburgh, PA, October 10, 2012

‘Scanning Tunneling Microscopy of Metal Oxides’

95. American Chemical Society, Philadelphia, August 2012

‘Surface electronic structure and chemistry of a metal oxide: $\text{Fe}_3\text{O}_4(001)$ ’

94. 2012 Brazilian Meeting in Condensed Matter Physics, Aguas de Lindoia, SP Brazil, May 14 – 18

‘Defects, Molecules, and Nanostructures at Metal Oxide Surfaces’

93. Conference on the Frontiers in Simulations of Materials and Catalysis
Shanghai, April 5, 2012

“Surface Studies of TiO_2 ”

92. *Plenary Keynote Talk*, German Physics Society Meeting, Berlin, Germany, March 25 – 29, 2012

‘Scanning Tunneling Microscopy of Defects, Adsorbates, and Nanostructures at Oxide Surfaces’

91. Workshop on Novel Materials and Superconductivity, Planneralp, February 11 – 18, 2012

‘Surface Science Investigations of Metal Oxides: Looking with STM and Understanding with DFT’

90. International Workshop on Oxide Surfaces, Baqueira-Beret, Spain, January 15 – 20, 2012

“STM investigations of pure and Sn-doped In_2O_3 surfaces”

89. Bunsen Discussions Meeting, ‘Photocatalysis’, Heidelberg, October 12 – 14, 2011

“The Surfaces of a Prototypical Photocatalyst: TiO_2 ”

88. *Plenary Talk*, 28th European Conference on Surface Science, Wroclaw, Poland, 28 Aug – 2 Sep 2011,

“The Surface Science of Metal Oxides - Recent Progress, Current Challenges, and Future Directions”

87. Gordon Research Conference, New England University, Maine, July 27 – 22, 2011

‘Structure/Function Relationships on Catalytic Crystal Surfaces’, Discussion Leader, Catalysis

86. CECAM Workshop on Understanding Structure and Functions of Reducible Oxide Systems-a Challenge for ^[T]_{SEP} Theory and Experiment, Zaragoza (Spain), June 20-23, 2011

“Structural, Electronic, and Adsorption Properties of the $\text{Fe}_3\text{O}_4(001)$ Surface”

85. *Keynote speaker*, Joint Annual Meeting of Swiss and Austrian Physics Society, Lausanne, Switzerland, June 15 – 17, 2011
‘Surface Structure and Adsorption at the Magnetite $\text{Fe}_3\text{O}_4(001)$ Surface’
84. Workshop on Gas Sensors, Tübingen, June 6-7, 2011
“The surface structure and reactivity of transparent conducting oxides”
83. Materials Research Society Meeting, San Francisco, April 22 – 29, 2011
‘Organic Molecules on TiO_2 ’
82. *Plenary talk*, Finnish Physics Society’s Physics Days, Helsinki, Finland, March 29 – 31, 2011
“Surfaces and the Nanoworld: Watching with the Scanning Tunneling Microscope, and Understanding with Density Functional Theory”
81. DoE-EFRC Director’s Meeting, Baton Rouge, LA, November 2-3, 2010
‘Designing Nanocatalysts via Atomically Controlled Metal Clusters and their Supports’
and: Shortcourse on Scanning Tunneling Microscopy
80. EMRS Meeting 13th-17th September 2010: Warsaw: Symposium on Semiconducting Oxides
“The Surface Structure of Epitaxial $\text{ITO}(111)$ and (100) Thin Films”
79. TiO_2 CECAM Meeting, Bremen, Germany, Sept 6 – 10, 2010
“Adsorption and Reactions at the Anatase (101) Surface”
78. ECOS-27, Groningen, August 29 – Sept 3, 2010
“Organic Molecules on TiO_2 surfaces”
77. NSOS Workshop, Matrei St. Michael, Tirol, Austria, June 20 – 22, 2010
“Surface Science Investigations of Metal Oxides: An Overview”
76. Telluride Workshop, Telluride, CO, July 26 -30, 2010
A. Surface Studies of TiO_2 Anatase”
B. Adsorbate-driven Metallization of the $\text{Fe}_3\text{O}_4(100)$ Surface”
75. 56th International AVS Meeting, San Jose, Ca, Nov 8 – 13, 2009
“Metal Oxide Surfaces: Defects, Dopants, and Reactivity”
74. Summer school: Reactivity of nanoparticles for more efficient and sustainable energy production”, 23-28 August 2009 Sandbjerg Gods, Denmark
“The surfaces of Semiconducting Metal Oxides”
73. “LASPM-V” Latin American Conference on Scanning Probe Microscopy’, Vina del Mar, Chile, May 27 – 29, 2009
“STM Studies of Metal Oxide Surfaces: Structure, Defects and Water Adsorption on Titania”

72. Workshop on “Desorption Induced by Electronic Transitions – DIET XII”, Callaway Gardens, Pine Mountain GA, USA, April 19 -24, 2009
“Radiation-induced Defects and Surface Chemistry on TiO₂”
71. Workshop on Functional Oxides for Renewable Energy Sciences and Technologies (FOREST), Harvard University Center for Environment (HUCE), March 5-6, 2009
“The Surfaces of TiO₂: (Defect) Structure, Electronic Structure, and Adsorption”
70. 55th International AVS Meeting, Boston, MA, Oct 23, 2008
“Defects on TiO₂ Anatase (101) are located Subsurface” (Post-deadline talk)
69. Ted Madey Memorial Symposium, 55th International AVS Meeting, Boston, MA, Oct 23, 2008
“The surface science of oxides: starting with, and going beyond, rutile TiO₂(110)”
68. Department of Energy Frontiers of Atomic-Scale Functionality Imaging Workshop, Annapolis, MD, September 28 – 29, 2008
“Imaging of Metal Oxide Surfaces – Structure, Defects, Adsorbates, and Functionality”
67. XXIX CBRAVIC (Brazilian Congress of Vacuum Applications in Industry and Science), 2008, Joinville, SC - Brazil, September, 23 to 26, 2008
“Surface Science of Metal Oxides: From Atoms to Applications”
66. NSF-EPSCoR Workshop on Ferroelectric and Multiferroic Materials and Nanostructures, U. Arkansas Fayetteville, August 18 – 19, 2008
“Surface Science of Metal Oxides”
65. GOSPEL Workshop on Surface/Adsorbed Oxygen on Metal Oxide Surfaces – Role in Gas Sensing and Catalysis, Tübingen, Germany, May 12 – 13, 2008
“STM imaging of clean and adsorbate-covered metal oxide surfaces”
63. Summer School, “Modern Concepts for Creating and Analyzing Surfaces and Nanoscale Materials”, May 12-16, 2008 at the Hotel Eden Roc, 17220 Sant Feliu de Guixols, Girona, Spain
a. “Scanning Tunneling Microscopy of Metal Oxides: What one can (and cannot) see with STM
b. “The Surfaces of Transparent Conducting Oxides”
62. Institute of Science and Technology, Vienna, Austria, Symposium: Frontiers in Materials Science, April 25/26, 2008
“Semiconducting Metal Oxides: Surfaces, Interfaces, and Nanostructures”
61. Tulane School of Science and Engineering Research Day, April 10, 2008
Outstanding Researcher Award Presentation
“Surface Science: From Atoms to Applications”
60. American Physical Society March Meeting, New Orleans, LA, March 10 – 14, 2008

“Tailoring Surface Reactivity of Metal Oxides”

59. Spring Meeting of the German Physical Society, Berlin, February 25 – 29, 2008
“The surfaces of bulk semiconducting metal oxides”

58. Annual Laboratory for Surface Modification Symposium, Rutgers University, Piscataway, NJ, February 15, 2008
Highlight Speaker, in Honor of Prof. Theodore E. Madey’s 70th Birthday
“The surfaces of titanium dioxide: following the trail blazed by Prof. T.E. Madey”

57. 17th International Vacuum Congress (IVC-17), 13th International Conference on Surface Science (ICSS-13), International Conference on Nanoscience and Technology 2007 (ICN+T 2007), 6th Nordic Conference on Surface Science (NCSS-6), 22nd Nordic Semiconductor Meeting (NSM-22) and 4th Swedish Vacuum and Materials Science Meeting (SVM-4), July 1-6, 2007, Stockholm, Sweden
“Surface Investigations of Oxide Surfaces: One-dimensional Growth of Pd Nanoclusters on SnO₂(101)”

56. 1st GOSPEL Workshop “Low dimensional and nanostructured oxides: bridging surface science and sensor science”, June 15-17, 2007, Tübingen, Germany
“Surface Science Investigations of (Semi-)Conducting Metal Oxides”

55. ACS National Spring Meeting, Symposium honoring Profs. Freund, Koel, Yates, and Campbell, Chicago, March 25-29, 2007
“Surface Investigations of Semiconducting Metal Oxides”

54. Gordon Research Conference ‘Chemical Reactions at Surfaces’, Ventura, Ca, Feb 11 – 16, 2007
Session chair and discussion leader – ‘Imaging at the nanoscale’

53. ACS National Fall Meeting, Division of Physical Chemistry, Fundamentals of Metal Oxide Catalysis Symposium, San Francisco, September 10 - 14, 2006
“The face-dependent structure and reactivity of TiO₂ surfaces”

52. ACS National Fall Meeting, Colloid and Surface Science Division, Symposium on Dynamics and Reactivity of Individual Molecules/Clusters, San Francisco, September 10 – 14, 2006
“Structure, dynamics, and clusters on metal oxide surfaces”

51. European Conference on Surface Science (ECOSS-24), Paris, France, Sept 4 – 8, 2006
“Metal oxide surfaces: Geometric structure, defects, and molecular adsorption viewed with atomic-scale resolution”

50. Water Festival IV, Delaware Biotechnology Institute, University of Delaware, Newark, DE, Nov. 22, 2005
“Water Adsorption on Metal Oxide Surfaces”
(Speaker: Olga Dulub)

49. 52nd Symposium of the American Vacuum Society, Boston, MA, Oct 5 – Nov 30, 2005

“Structure, defects, and adsorption on metal oxide surfaces”

48. Workshop on Opportunities in Nanocatalysis, Brookhaven National Laboratory, October 19 – 21, 2005

“Surface Structure and Reactivity of Titanium Dioxide”

47. European Conference on Surface Science, ECOSS-23, Berlin, Germany, Sept. 4 – 9, 2005

“Surface Structure and Chemistry of TiO₂”

(Speaker: Matthias Batzill)

46. ASEVA Summer School, WS-17, on Characterization and Properties of Titanium Dioxide, Avila, Spain, July 25-27, 2005

“Orientation-dependent surface properties of TiO₂: the rutile (011) face”

45. 8th International Conference on the Structure of Surfaces, ICSOS-8, Munich, Germany, 18-22 July 2005.

“Structure and Stoichiometry at Metal Oxide Surfaces”

44. 89th International Bunsen Discussion Meeting, "Chemical processes at oxide surfaces: from experiment to theory", Hennesee, Germany, June 15-17, 2005

“The Adsorption of Water on Single-crystalline Metal Oxide Surfaces”

43. DoE/BES Catalysis Program Contractor’s Meeting, Rockville Maryland, May 18 – 21, 2005

“Surface Science Investigations of Titanium Dioxide: Relevant for Photocatalysis?”

42. Austrian Scientists and Scholars in North America, ACSINA 2005, Vienna, Austria, April 27 – 29, 2005

“Nanoscience and Surfaces: Watching Atoms with Scanning Tunneling Microscopy”

41. Third meeting of the Study of Matter at Extreme Conditions (SMEC), Miami Beach, April 17-21, 2005

“Surface electronic structure and interface properties of the compositional variants of SnO₂(101)”

(Presenter: Dr. Matthias Batzill)

40. American Chemical Society Meeting, San Diego, March 22, 2005

“Growth and Properties of Oxide-supported Nanoclusters”

39. Jahrestagung der Österreichischen Physikalische Gesellschaft, Linz, Austria, September 28 –30, 2004 “The surface structure of TiO₂(110)-(2x1)”

38. XI Latin American Congress of Surface Science and its Applications (XI CLACSA), Pucón, Chile, December 7 - 12, 2003

"Atomic-scale Studies of Metal Oxide Surfaces"

37. 7th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-7), Nara, Japan, 16-20 November, 2003
"Atomic-scale properties of oxide surfaces"
36. Gordon Conference on Chemical Reactions at Surfaces, Ventura, California, February 16 - 21, 2003
"Scanning Tunneling Microscopy Studies of Semiconducting Metal Oxides"
35. International Workshop on Oxide Surfaces (IWOX-III), Sapporo, Japan, January 27 - 31, 2003
"STM Studies of Tin Oxide Surfaces"
(Speaker: Matthias Batzill)
34. Chemical Physics of Nanostructured Surfaces, Workshop Schloß Ringberg/Tegernsee, Germany, Sept. 29 - Oct. 05, 2002
"Nanostructures and Surface Reactivities of TiO₂"
33. Universität Bonn, Festkörpertag, 19. Juli 2002
"Polare Zinkoxidoberflächen: Rätsel gelöst?"
32. EURESCO Conference on Fundamental Aspects of Surface Science -- Structure and Reactivity of Oxide Surfaces, Acquafredda di Maratea, Italy, 1-6 June 2002
"STM Studies of Clean and Cu-Covered ZnO Surfaces"
31. Louisiana Board of Regents, Sponsored Program Committee Meeting, Baton Rouge, LA, March 20, 2002
"Enhancing Research and Education in Nanoscale Science"
30. Frühjahrstagung der Deutschen Physikalischen Gesellschaft (Spring Meeting of the German Physical Society), Regensburg, Germany, March 11 - 15, 2002
"Struktur und Eigenschaften von TiO₂ Oberflächen"
29. EURESCO Conference Computer Simulation of Complex Interfaces: Out of the Vacuum into the Real World", Giens, France, Sept 7 - 12, 2001
"The Interplay between Bulk Defect Structure and Surface Reactions on Reducible Metal Oxides"
28. STM'01, Vancouver, July 16-20, 2001
"Defects and Adsorbates on Metal Oxide Surfaces"
27. American Physical Society, March Meeting, March 12 - 16, 2001, Seattle, Washington
"Growth and Fate of Ultrathin Metal Film Overlayers on TiO₂(110)"
26. International Workshop on Oxide Surfaces (IWOX-2), Taos, New Mexico, January 15 - 19, 2001
"Adsorption Mechanisms and Structure on TiO₂ surfaces"
25. Materials Research Society Fall Meeting, Boston, December 2000
"Understanding Metal Oxide Surfaces at the Atomic Scale"

24. Louisiana Materials Science Conference, University of New Orleans, New Orleans, LA, Aug. 17-18, 2000
"Surface Science Investigations of Oxide Materials"
23. User's Meeting, Center for Advanced Microstructure and Devices, CAMD, Louisiana State University, Baton Rouge, Louisiana, April 8, 2000
"Atomic and Electronic Structure of Adsorbates of TiO₂"
(Presenter: Wilhelm Hebenstreit)
22. US-Japan Seminar on Mesoscopic Processes on Surfaces, Park City, Utah, April 2-8, 2000.
"The Relationship between Bulk and Surface Properties of TiO₂(110)"
21. Faraday Discussions 114, Surface Science of Metal Oxides, University College of St. Martin, Ambleside, UK, Sept. 1-3, 1999
"Oxygen-Induced Restructuring of Rutile TiO₂(110): Formation Mechanism, Atomic Models, and Influence on Surface Chemistry"
20. Annual EMSL User Meeting, Pacific Northwest National Laboratory, June 21 - 24, 1999
"Surface Preparation of Metal Oxides -- Who Would've Thought Life is THAT Complicated?"
19. International Symposium on Oxide Surfaces, Elmau, Germany, January 1999
"Surface Structure and Reactivity of TiO₂(110)"
18. Southeastern Section of the American Physical Society, Miami, Nov. 13-17, 1998
"The Surface Science of Metal Oxides: A Step Towards More 'Realistic' Model Systems"
17. American Vacuum Society Meeting, Baltimore, November 1998
"Strong-metal Support Interaction: The Ultimate Experiment"
Speaker: Wilhelm Hebenstreit
Post-deadline paper
16. American Vacuum Society Meeting, Baltimore, November 1998
Coadsorption Studies with Water: a Small Step Toward Understanding the Surface Chemical and Photochemical Properties of TiO₂
(M. A. Henderson (presenter), W.S. Epling, C.H.F. Peden, U. Diebold)
15. 33rd Midwest Regional Meeting of the American Chemical Society, Wichita, Kansas, November 4 - 7, 1998
"Lessons from Atomic-Scale Investigations of Oxide Surfaces: Surface Defects, Adsorption Models, and Surface Restructuring"
14. 1997 Pacific Northwest AVS Symposium
September 15-19, 1997, Troutdale, Oregon

"Scanning Tunneling Microscopy of TiO₂(110): Surface Defects and Adsorption of Chlorine"

13. German Physical Society, Fachtagung Festkörperphysik, Münster, Germany, March 17-21, 1997 "Atomic-Scale Pattern formed through Cr-induced Strain Relaxation of Pt(111)"
Post-deadline Paper

12. Symposium on Metal-Ceramic Interfaces, TMS Fall Meeting, Cincinnati, Oct 7-10, 1996
"What can we learn from Surface Science? An atomistic view on metal-oxide surfaces and interfaces"

11. Muddy Quantum Fest, April 1996 Baton Rouge, LA
"An atomic-scale view on surfaces: What can we learn"
(Speaker: J.F. Anderson)

10. Southeastern Section Meeting of the American Physical Society, November 1995, Tallahassee,
"Atomic-Scale Investigations and Modifications of Metal Oxide Surfaces"

9. Society of Engineering Science, 32nd Annual Technical Meeting, Oct. 1995, New Orleans, LA
"Investigating the First Few Atomic Layers of A Solid: Surfaces, Interfaces and Technology"

8. Materials Research Society, Fall Meeting, November 1994, Boston, MA
"Growth and Characterization of Metal Films on Metal Oxide Surfaces"

7. European Conference on Surface Science, Sept. 1994, Leipzig, Germany
"Ultrathin Metal Films on Metal Oxides"

6. Symposium on Surface Science, March 1994, Les Arcs, Savoie, France
"Growth of Ultrathin Transition Metal Films on a Reducible Metal Oxide Surface",

5. AVS Symposium on "The Physics and Chemistry of Metal/Oxide Interfaces", September 23, 1992, Rutgers, New Jersey, USA
"Ultrathin Metal Overlayers on TiO₂(110)"

4. International Conference on Sputtering, Sput '92
August 30 - September 4, 1992, Copenhagen, Denmark
"The Influence of Sputter-Created Defects on the Reactivity of TiO₂(110)"

3. 5th International Workshop on Desorption Induced By Electronic Transitions, April 1 - 4, 1992, Taos, New Mexico, USA
"Electron Stimulated Desorption of Ammonia on TiO₂(110): The Influence of Substrate Defect Structure on ESD"

2. Symposium on Surface Science,
Feb. 11 -15, 1991, Obertraun, Austria

"Electronic Effects During Sputtering of Metals and Insulators"

1. 8th International Workshop on Inelastic Ion Surface Collisions, Sept. 17 - 21, 1990, Wiener Neustadt, Austria "Interaction of Very Low Energy Rare Gas Ions with Surfaces: Sputtering and Secondary Ion Production from Insulators and Metals"

LECTURES, SEMINARS, AND COLLOQUIA AT UNIVERSITIES AND RESEARCH INSTITUTIONS:

151. International Forum, Functional Nano & Soft Materials (FUNSOM), Soochow University, China (online)
'TBA'

152. Inorganic Seminar Series, Department of Chemistry, ETHZ, Zurich, Switzerland (Host: Mate Bezdek), May 6, 2025
"Surface Chemistry at the Atomic Scale"
(upcoming)

151. Colloquium, University of Bologna, Bologna, Italy (Host: Cesare Franchini), March 25, 2025
"TBD"
(upcoming)

150. Webinar 'ChemistryWorld 'Investigating the behaviour of water at material interfaces', Royal Society of Chemistry, London, UK, April 25, 2024, online,"Observing the first few water molecules at surfaces"
<https://www.chemistryworld.com/webinars/investigating-the-behaviour-of-water-at-material-interfaces/4018882.article>

149. Special Physics and Engineering Physics Colloquium, Tulane University, New Orleans, LA, USA, March 20, 2024
"Atomically-resolved imaging of oxide surfaces: A personal (hi)story"

148. Colloquium, Müncher Chemische Gesellschaft, TUM, Garching, Germany (Host: Roland Fischer) <https://www.mchg.de/lectures/>
Dec 19, 2023
„Surface chemistry of oxides: An atomistic view"

147. Seminar, Groupement de Recherche CNRS (host: Clemens Barth, Marseille) May 24, 2022 (online)
"Atomically-resolved surface studies on In₂O₃(111): clean, hydroxylated, and with water"

146. Electrochemical Online Colloquium <https://www.electrochemicalcolloquium.com>

May 12, 2022

“Oxide surfaces: From isolated hydroxyls to the interaction with liquid water”

145. Fakultätskolloquium, TU Clausthal, (Host: Oliver Höfft), April 27, 2022 (online)
“Surface Science: Fundamental Insights Relevant for Applications”

144. ARCNL Colloquium, Amsterdam, June 30, 2021
“Combining Surface Science and Pulsed Laser Deposition: Challenges and Opportunities”

143. SINNCE Courses on Advanced Topics, CEITEC, Brno University of Technology, June 22 & 23, 2021 (online)
“Surface Science of Metal Oxides – Concepts, Methods, and Latest Results”
<https://www.youtube.com/playlist?list=PLIat2izgxdiletOboflvZAbwj-fwIfkst>

142. Seminar, Dept of Condensed Matter Physics, Masaryk University, Brno, Czech Republic, March 24, 2021 (online, host: Jiri Novak)
“The (even more) complex surfaces of complex perovskite oxides: curse and opportunity”

141. Webinar, Distinguished Lecture Series Catalysis Series, University of Central Florida (online, host: William Kaden), Feb 9, 2021
“Oxide Surface Science: Chemistry at the Atomic Scale”

140. Gerhard Ertl Lecture, Berlin, Germany. December 10, 2020
“Oxide Surface Chemistry at the Atomic Scale” (online)
<https://www.youtube.com/watch?v=8Q6Hqx4lAHk&t=2972s>

139. Colloquium - Chemical Society of Bern, Bern, Switzerland, November 11, 2020
“The interaction between water and oxide surfaces – from ultrahigh vacuum to the liquid phase” (online)

138. Stuttgart Physics Colloquium (Andreas Schnyder) November 29, 2019
“An Atomic-Scale View at Oxide Surfaces”

137. Seminar, Max-Planck-Institut für Polymerforschung (Mischa Bonn) 16.9.2019
„Bridging Ultrahigh Vacuum Surface Science and Liquid Water: First steps and Future Opportunities“

136. Grafox Seminar, Leibniz Institut für Kristallzüchtung, Berlin, (Oliver Bierwagen) 15.5.2019
“Probing the Surface Structure and Chemistry of Oxides at the Atomic Scale: Focus on In_2O_3 ”

135. Colloquium, Bilkent University, Ankara, Turkey, (Oguz Gülseren), 8.5.2019
“An Atomic-Scale View on Oxide Surfaces”

134. Seminar, TU München, Fakultät für Chemie, Lehrstuhl Technische Chemie, (Johannes Lercher) 25.2.2019
“Oxide Surface Chemistry at the Atomic Scale”

133. Colloquium, Graduiertenkolleg „Chemical Bond Activation”, University of Oldenburg, (PhD students of Graduiertenkolleg) Germany, December 17, 2018
“Oxide Surface Chemistry at the Atomic Scale”

132. Seminar, International Center for Quantum Materials (ICQM), School of Physics, Peking University, Beijing, China, October 29, 2018
“An atomic-scale view on oxide surfaces”

131. *Xing Da Lecture*, Peking University, Beijing, China, October 26, 2018
“Surface Chemistry at the Atomic Scale”

130. Advanced School of Science & Physics Colloquium, University of Graz and TU Graz, September 23, 2018
“Oxide Surfaces at the Atomic Scale”

130. Colloquium, Ludwig-Maximilian University Munich, July 11, 2018
“Interaction of Water with Well-Characterized Oxide Surfaces”

131. Lecture as part of the series “Deposition of thin films, growth of nanostructures”, TU Brno, Brno, Czech Republic, April 17, 2018
“Pulsed Laser Deposition: Fundamentals and Technical Aspects”
(together with Michele Riva)

130. *FRESH Lecture*, Leiden University, Leiden, Netherlands, March 29, 2018
“Surface Science of Oxides: Atomic-Scale Insights Relevant for Energy Research”

129. Seminar, Montanuniversität Leoben, December 12, 2017
“Surface Science of Oxides: Fundamental Insights Relevant for Applications”

128. Colloquium, Peter-Grünberg-Institute, Forschungszentrum Jülich, Germany, December 16, 2016
“Oxide Surfaces at the Atomic Scale: Defects, Adsorption, Reactivity”

127. Seminar, TU Brno and CEITEC, Brno, December 7, 2016
“Surface Physics Research at the Institute of Applied Physics at TU Wien”

126. Colloquium, Würzburg Faculty of Physics
“Surface Structure, Growth, and Reactivity of Selected Perovskite Oxides”

125. Colloquium, University of Science and Technology China, Hefei, China, January 7, 2016
“Surface Investigations of an Iron Oxide Metal Catalyst”

124. Colloquium, Hubei University, Wuhan, China, January 5, 2016
“Surface Structure and Reactivity of Selected Perovskite Oxides”

123. *Zhongshan Colloquium* Nanjing University, January 3, 2016
“Surface Structure and Reactivity of Selected Perovskite Oxides”

122. *21st Annual Schrödinger Lecture*, Trinity College Dublin (sponsored by the Austrian Embassy and Austrian National Bank), November 24, 2015

<http://www.tcd.ie/Physics/news/seminars/schrodinger/>

“An Atomic-Scale View of Oxide Surfaces”

121. *Debye Lecture*, Utrecht University, November 19, 2015

“Surface Science Studies of an Iron Oxide Model Catalyst”

120. Colloquium, Centro Brasileiro de Pesquisas Físicas, October 1, 2015

“Surface Science Studies of Selected Perovskite Oxides”

119. Colloquium, TU Hamburg Harburg, June 24, 2015

“Surface Science Studies of Magnetite Fe_3O_4 ”

118. *25th Brdička Memorial Lecture*, J. Heyrovský Institute of Physical Chemistry, Prague, Czech Republic, June 4, 2014

“Surface Science of Metal Oxides”

117. Seminar, EMPA, Dübendorf, Switzerland, April 23rd, 2015

“Oxide Surfaces at the Atomic Scale”

116. Seminar, ETH Zürich, April 22nd, 2015

“Oxide Surfaces at the Atomic Scale”

115. Seminar, Politecnico Milano, February 25, 2015,

“Oxide Surfaces at the Atomic Scale”

114. Kolloquium, Universität Regensburg, December 16, 2014

“Oxide Surfaces at the Atomic Scale”

113. Seminar University of Witwatersrand, Johannesburg, South Africa, 19. November 2014 (Part of Eminent Scholar Lecture Series, Catalysis Society of South Africa, CATSA)

“Surface Science Studies of an Iron Oxide Model Catalyst”

112. Seminar University of KwaZulu-Natal, Durban, South Africa, 18. November 2014 (Part of Eminent Scholar Lecture Series, Catalysis Society of South Africa, CATSA)

“Surface Science Studies of an Iron Oxide Model Catalyst”

111. Seminar University of Cape Town, South Africa, 17 November 2014 (Part of Eminent Scholar Lecture Series, Catalysis Society of South Africa, CATSA)

“Surface Science Studies of an Iron Oxide Model Catalyst”

110. Seminar University Free State, Bloemfontein, South Africa, 14 November 2014 Eminent Scholar Lecture Series, Catalysis Society of South Africa, CATSA)

“Surface Science Studies of an Iron Oxide Model Catalyst”

109. Seminar Sasol, Sasolburg, South Africa, 13 November 2014 (Part of Eminent Scholar Lecture Series, Catalysis Society of South Africa, CATSA)

“Surface Science Studies of an Iron Oxide Model Catalyst”

108. Kolloquium, Universität Innsbruck, June 26, 2014
'Surfaces of Metal Oxides Viewed with Atomic Resolution'
107. Colloquium, Lund University, Lund, Sweden, March 27, 2014
"Oxide Surfaces at the Atomic Scale"
106. Seminar, Max-Planck-Institut für Festkörperforschung, Stuttgart, February 12, 2014
"Surfaces of TiO_2 and perovskites, viewed with atomically-resolved STM"
105. Seminar Peter Grünberg Institut- Forschungszentrum Jülich, February 10, 2014
"Surfaces of TiO_2 and perovskites, viewed with atomically-resolved STM"
104. Seminar "Science with Photons" at the Helmholtz-Zentrum Berlin für Materialien und Energie, Institut für Methoden und Instrumentierung der Synchrotronstrahlung, Berlin, July 2, 2013
"The Surface of a Prototypical Strongly Correlated Electron System: $\text{Fe}_3\text{O}_4(001)$ "
103. Colloquium SFB 762 'Functional Oxide Interfaces', Halle, June 20, 2013
'Physics and Chemistry at the Magnetite $\text{Fe}_3\text{O}_4(001)$ Surface'
102. Physikalisches Kolloquium, Universität Konstanz, Konstanz, Germany, May 28, 2013
'Oxide Surfaces at the Atomic Scale'
101. Seminar 'Chemie und Technologie der Materialien', University of Vienna, Vienna May 17, 2013
"Defects, Adsorbates, and Nanostructures at Oxide Surfaces"
100. Colloquium, Nanoscience Institute, University of Modena, Modena, Italy, November 6, 2012
'Surface (defect) structure and chemistry of metal oxides'
99. Colloquium, Karlsruhe Institute of Technology, Karlsruhe Germany, October 22, 2012
'Metal Oxide Surfaces Viewed at the Atomic Scale'
98. Colloquium, Hubei University, Wuhan, China, April 12, 2012
"Surface Studies of Metal Oxides"
97. Shouheng Lecture, Zhejiang University of Technology, Hangzhou, China, April 7, 2012
"Surface Studies of Fe_3O_4 Magnetite"
96. Physics Colloquium, U. of Groningen, Netherlands, March 1, 2012
'Nanostructure, Defects, and Molecules at Oxide Surfaces'
- Round Table Discussion with Physics Students, 24. January 2012
"Oberflächenphysik: das Tor zur weiten Welt (und der Weg zurück nach Wien)"
95. KFU/TU Physics Colloquium, Graz, November 29, 2011
'Metal Oxide Surfaces Viewed at the Atomic Scale'

94. Seminar, U. Erlangen, May 5, 2011
'An Atomic-Scale View of Metal Oxide Surfaces'
93. Kolloquium, CPG Society, Universität Wien, February 22, 2011
'Organic Molecules At Oxide Surfaces'
92. Kolloquium, Gesellschaft Österreichischer Chemiker, University of Innsbruck, Austria, January 10, 2011
"Surface Science Investigations of Metal Oxides"
91. Seminar, Charles University in Prague, Czech Republic, December 14, 2010
'The surfaces of Sn-doped In_2O_3 (111) and (100)'
90. Physics Colloquium, University of Linz, Austria, December 9, 2010
'Organic Molecules on Oxide surfaces'
89. University of Leoben, Austria, December 7, 2010
'Organic Molecules on Oxide surfaces'
88. Max-Planck Institut für Festkörperforschung, Dept Prof. J. Maier, Stuttgart, May 11, 2010
"Surface Processes at Oxides, Resolved with STM, and Explained with DFT"
87. Institute of Solid State Physics, TU Vienna, Austria, April 20, 2010
"Surface Science Investigations of Metal Oxides: Applications, Fundamentals, and Insights"
86. Seminar, University of Darmstadt, Germany, March 18, 2010
"The Surfaces of Epitaxial ITO(100) and (111) Films"
85. Seminar, University of Tübingen, Tübingen, Germany, March 16, 2010
"The Surfaces of Epitaxial ITO(100) and (111) Films"
84. University of Florida, Gainesville, Fl, October 7, 2009
"Atomic-Scale Investigations of Metal Oxide Surfaces"
83. Loyola University of New Orleans, New Orleans, LA, February 2, 2009
"Investigating Surfaces with Scanning Tunneling Microscopy – Atom by Atom and Molecule by Molecule"
- Project Report, Intel Corp., Hillsboro, Oregon, November 27, 2008
"Adsorption of strongly adsorbing organics on TiO_2 and Al_2O_3 surfaces"
82. Seminar, IFW Dresden, Dresden, Germany, June 17, 2008
"Surfaces of Metal Oxides"
81. Colloquium, Forschungszentrum Rossendorf, Dresden, Germany, June 16, 2008
"Surfaces of Oxide Materials: Linking Atomic-Scale Science with Applications"
80. Seminar, Institut für Allgemeine Physik, TU Wien, Vienna, Austria, May 15, 2008
"Oberflächeneigenschaften oxidischer Materialien"

Project Report, Intel Corp., Hillsboro, Oregon, November 27, 2007

“Adsorption and radiation effects on TiO₂ surfaces”

79. Seminar, Sandia National Laboratories, Albuquerque, New Mexico, August 15, 2007

“Nanostructures on TiO₂ Surfaces”

78. Seminar, Max-Planck Insitut für Metallphysik, Stuttgart, Germany, June 15, 2007

“Surface Science Investigations of Semiconducting Metal Oxides”

77. Colloquium, Department of Physics, Louisiana State University, Baton Rouge, LA, Nov 9, 2006

“Surface Investigations of Metal Oxides”

76. Seminar, Department of Physics, University of New Orleans, New Orleans, LA, Nov 8, 2006

“Surface Investigations of Metal Oxides”

75. Colloquium, Department of Physics, University of South Alabama, Mobile, AL, Nov 2, 2006

“Surface Investigations of Metal Oxides”

74. Seminar, Department of Applied Science, UC Davis, Davis, CA, March 21, 2006

“An Atomic-Scale View of Transition Metal Oxide Surfaces”

73. Seminar, Michigan State University, Lansing, Michigan, March 3, 2006

“An Atomic-Scale View of Transition Metal Oxides”

72. Colloquium, Department of Physics and Astronomy, Rutgers, The State University of New Jersey, December 2005

“Atomic Structure and Dynamics at Oxide Surfaces”

71. Department of Chemistry, University of Illinois at Chicago, December 12, 2005

“Oxides, Defects, and Surface Reactivity: What Can We Learn from Atomic-Scale Studies?”

70. Seminar, Center for Functional Nanomaterials, Brookhaven National Laboratory, December 7, 2005

“An Atomic-Scale View of Transition Metal Oxides”

69. Department of Materials Science and Engineering, Rutgers, The State University of New Jersey, November 29, 2005

“An Atomic-Scale View of Transition Metal Oxide Surfaces”

68. Seminar, Department of Applied Physics, Columbia University, New York, November 18, 2005

“An Atomic-Scale View of Transition Metal Oxide Surfaces”

67. Condensed Matter Seminar, Department of Physics, University of Maryland, November 17, 2005

“Surface Investigations of Pure and Doped Transition Metal Oxides”

66. Seminar, Department of Chemistry, Princeton University, Princeton, NJ, November 8, 2005
"An Atomic-Scale View of Transition Metal Oxide Surfaces"
65. Department of Physics, Loyola University, New Orleans, LA, February 24, 2005
"Scanning Tunneling Microscopy on Metal Oxide Surfaces"
64. Medtronic Corp. Minnesota, MN, October 5, 2004
"Oxide films (semiconducting/dielectrics) from surface science perspective"
63. Florida International University, Miami, FL, February 13, 2004
"Scanning Tunneling Microscopy on Metal Oxide Surfaces"
62. University of Tokyo, Tokyo, Japan, November 21, 2003
"Atomic-Scale Investigations of Semiconducting Metal Oxides"
61. Xavier University of Louisiana, October 16, 2003
"How About Seeing Atoms? Scanning Tunneling Microscopy on Metal Oxide Surfaces"
60. Iowa State University, Physical Chemistry Seminar Series, September 26, 2003
"Metal Oxide Surfaces Studied at the Atomic Scale"
59. Technische Universität München, Fakultät für Chemie, Garching, Germany, June 30, 2003
"Oberflächenuntersuchungen an Oxiden und geträgerten Clustern"
58. Technische Universität Wien, Institut für Materialchemie, Vienna, Austria, June 13, 2003
"Rastertunnelmikroskopie an halbleitenden oxidischen Oberflächen"
57. Technische Universität Wien, Institut für Festkörperphysik, Vienna, Austria, May 27, 2003
"Charakterisierung und Wachstum von neuen elektronischen Materialien"
56. Southeastern University of Louisiana, Hammond, LA, March 14, 2003
"What is a polar surface, why should it not be there, and how come it's there anyway?"
55. University of California, Santa Barbara, February 21, 2003
"Nanostructures and Surfaces of TiO_2 "
54. Seminar, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, February 7, 2003
"Polar ZnO surfaces -- Puzzle Solved, Halfway!"
53. Colloquium, Karl-Franzens Universität and Technische Universität Graz, December 10, 2002
"Nanostrukturen und Oberflächen auf Titandioxid"
52. Humboldt Universität zu Berlin, December 2, 2002
"Oberflächenstruktur und Wachstum auf ZnO"
51. Aarhus University, November 26, 2002
"Surface Structures and Growth on ZnO"

50. Insitut für Physikalische Chemie, Universität Bochum, Germany, Nov. 18, 2002
"TiO₂ -- Struktur(en) und Reaktivität"
49. Institute of Ion Beam Physics and Materials Research, Forschungszentrum
Rossendorf, Germany, Nov.13, 2002
"Oberflächen von oxidischen Materialien"
48. Freie Universität Berlin, November 12, 2002
"STM Untersuchungen niedrigindizierter ZnO - Oberflächen"
47. University of Ulm, Germany, July 23, 2002
"Titanium Dioxide -- Surface Structure, Chemistry, and Modifications"
46. Fritz-Haber-Institut der Max Planck Gesellschaft, Berlin, June 2002
"Polar ZnO Surfaces: Morphology, Stabilization Mechanisms, and Cluster Growth"
45. Institut für Materialphysik, Universität Wien, May 29, 2002
"Polare ZnO Oberflächen: Oberflächenmorphologie und
Stabilisierungsmechanismen"
44. Universität Osnabrück, April 29, 2002
"Rastertunnelmikroskopie an oxidischen Oberflächen"
43. Universität Konstanz, Germany, May 2, 2002
"Oberflächen und Grenzflächen oxidischer Materialien"
42. University of Louisiana at Lafayette, Feburary 27, 2002
"Surface Science Investigations of Metal Oxides"
41. University of South Carolina, Columbia, South Carolina, Feburary 1, 2002
"Surface Investigations of Single Crystalline Oxide Materials"
40. Universite Fribourg, Fribourg, Switzerland, November 21, 2001
"Struktur und Reaktivität von Oxidischen Oberflächen"
39. Technische Universität München, October 22, 2001
"Oberflächenphysik an oxidischen Materialien"
38. Loyola University, New Orleans
"Looking at Atoms at Surfaces"
October 8, 2001
37. Universiteit Leiden
"Electronegative Adsorbates on TiO₂(110): Adsorption Mechanisms and Structures"
May 2001
36. Universiteit Amsterdam
"Surface and Interface Processes on Metal Oxides: The Known, the New, and the Unexpected"
May 2001

35. Florida State University, Tallahassee, FL, March 2, 2001
"Adsorption of molecules on surfaces: Why oxides are different"
34. University of Houston, Texas, December 2000
"Gas adsorption on an Oxide Surface"
33. Solid State Seminar at Yale University, New Haven, CT, Dec. 1, 2000
"Gas adsorption on a reducible metal oxide surface: Why the bulk matters"
32. Seminar at Technische Universiteit Eindhoven, Netherlands, May 17, 2000
"The adsorption of chlorine and sulfur on TiO₂(110)"
31. Colloquium at Technische Universiteit Eindhoven, Netherlands, May 18, 2000
"Growth and Characterization of Nanostructures"
30. Colloquium at Ludwigs-Maximilians University, Munich, May 24, 2000
"Struktur und Oberflächeneigenschaften von Titandioxid"
29. Colloquium at the University of Ulm, Ulm, Germany, June 8, 1999
"Oberflächenstrukturen und Adsorptionsvorgänge auf Titandioxid"
28. Seminar the University of Houston, April 2, 1999
"Surface Structure(s) and Reactivity of the TiO₂(110) Surface"
27. Seminar at Rice University, Houston, April 1, 1999
"Surface Structure(s) and Reactivity of the TiO₂(110) Surface"
26. Colloquium at the Technische Universität Graz, Austria, March 25, 1999
"Wachstum und Charakterisierung von Nanostrukturen"
25. Seminar at Dept. of Physics, Tulane University, New Orleans, LA, Nov. 1998
"The Surface Science of Metal Oxides"
24. Seminar at the University of New Orleans, New Orleans, La, October 1998
"Looking at the Atomic Structure of Oxide Surfaces"
23. Seminar at Fritz-Haber Institut, Berlin, Germany, June 11, 1998
"Scanning Tunneling Microscopy Studies of TiO₂(110)"
22. Seminar at Universität Clausthal, Germany, June 10, 1998
"The TiO₂(110) Surface"
21. Seminar at Max-Planck Institut für Strömungsforschung, Göttingen, Germany, June 9, 1998
"Ultrathin Chromium and Chromium Oxide Films on Pt(111)"
20. Colloquium at Universität Würzburg, June 8, 1998
"Growth of Ultrathin Chromium and Chromium Oxide Films"

19. Colloquium at Institut für Allgemeine Physik, Technische Universität Wien, Vienna, Austria, June 4, 1998

"Interface Phenomena on Oxide Surfaces"

18. Seminar at University of Osnabrück, May 27, 1998

"Ultrathin Film Growth on Pt(111): Interface Phases and Self-Organized Structures"

17. Colloquium at Universität Bremen, Germany, May 26, 1998

"Reconstructions, Adsorption and Film Growth on TiO₂(110) surfaces"

16. Seminar at Rutgers, The State University of New Jersey

Dec. 8, 1997

"Scanning Tunneling Microscopy of TiO₂(110): Point defects, Reconstructions, and the Adsorption of Chlorine"

15. Seminar at the Pacific Northwest Laboratory, Richland, WA

Sept 23, 1997

"Surface Defects and Chemistry on TiO₂(110) Probed with Scanning Tunneling Microscopy"

14. Seminar at the University of Washington, Seattle, WA

Sept 12, 1997

"Scanning Tunneling Microscopy of Oxides: Challenges, Puzzles, and Insights"

13. Seminar at Institut für Allgemeine Physik, Technische Universität Wien

May 27, 1997

"Oberflächenphysikalische Untersuchung von oxidischen Oberflächen"

12. Seminar at the Karl-Franzens Universität Graz

May 14, 1997

"Growth of ultrathin metal and metal oxide films: a comparison"

11. Seminar at the University of New Orleans, New Orleans, La

November 6, 1996

"Ultrathin Film Growth Studies"

10. Seminar at Pacific Northwest Laboratories, Richland, WA

January 8, 1996

"Atomic Scale Investigation and Modification of Metal Oxide Surfaces"

9. Seminar at the University of Washington, Seattle, WA

Janury 5, 1996

"The Electronic Structure of Metal Oxide Surfaces Probed by Resonant Photoemission and Scanning Tunneling Microscopy"

8. Seminar at the Department of Chemical Engineering, Tulane University, New Orleans, Louisiana, Sept. 19, 1994

"Metal Films on Metal Oxide Surfaces"

7. Seminar at the Department of Physics and Astronomy, Tulane University, New Orleans, Louisiana, March 11, 1993

"Ultrathin Metal Overlayers on Oxide Surfaces: Growth, Structure and Interface Formation"

6. Seminar at the National Institute of Standards, Gaithersburg, Maryland
Feb. 3, 1993

"Ultrathin Metal Films on TiO₂(110): Growth, Structure and Surface Reactivity"

5. Seminar at the University of Odense,
Oct. 20, 1992, Odense, Denmark

"Interaction of molecules with stoichiometric and non-stoichiometric TiO₂ surfaces"

4. Seminar at the University of Osnabrück
Oct. 19, 1992, Osnabrück, Germany

"Adsorption und elektronenstimulierte Desorption von Molekülen auf Titandioxidoberflächen"

3. Seminar at Institut für Allgemeine Physik, Technische Universität Wien,
Feb. 4, 1992

"Metallische und Molekulare Adsorbate auf einer Oxidoberfläche"

2. Seminar in Rutgers, The State University of New Jersey, Piscataway, N. J., U.S.A.
June 15, 1990,

"Interaction of Very Low Energy Rare Gas Ions with CO/Ni(111)"

1. Seminar at the Institut für Allgemeine Physik, Technische Universität Wien, Vienna, Austria
May 6, 1990

"Ioneninduzierte Desorption von niederenergetischen Edelgasionen mit CO/Ni(111)"

CONTRIBUTED PAPERS AT CONFERENCES:

(Presentations marked with an *asterisk were given by students)

297. 3S'25, Symposium on Surface Science, Baqueira-Beret, Spain, "Surfaces of silicate minerals at the atomic scale",

<https://dipc.ehu.eus/en/scientific-activities/workshops/3s201925-symposium-on-surface-science>

(upcoming)

296. TACO Retreat, Steinschaler Dörfel, Frankenfels, Austria, 23-25. Sept, 2024
„Subproject P02: Quantitative surface structure of multi-component oxides, progress & plans"

295. *Poster*, Symposium on Surface Science 2024, St. Christoph/Arlberg, Austria,
3S'24, 10. – 15.3.2024 (presentation on Wed, 13.3.2024)

"The reconstructed Al₂O₃(0001)-($\sqrt{31} \times \sqrt{31}$) $\pm R9^\circ$ Surface: An ideal case for non-contact AFM"

294. IWOX-14, Schladming, 14. – 19.1.2024 (my talk on 15.1.2024)

Obtaining a true SrTiO₃(001)-(1 $\times$ 1) surface by cleaving

<https://oxide-surfaces-2024.uni-graz.at/en/>

293. 3S Courmayeur

“LEED-IV made easy with ViPErLEED”

Michele Riva, Florian Kraushofer, Alexander M. Imre, Michael Schmid, Tillmann Kißlinger, Lutz Hammer, and Ulrike Diebold

292. 3S Courmayeur

“Cleaved SrTiO₃(001): How the top surface influences everything”

291. Poster 36th Workshop on Novel Materials and Superconductors, JUFA

Schladming, Feb 05 – 10, 2023 (presentation on Feb 8, 2023)

Ulrike Diebold, Giada Franceschi, Luca Lezuo, Andrea Conti, Johanna Hütner, Jan Balajka

“Atomically-resolved UHV ncAFM of mineral surfaces”

290. TACO Retreat

„Subproject P02 - Surface Structure and Reactivity at the Atomic Scale: Progress, Plans, Ideas“

289. Symposium on Surface Science 3S’22, St. Christoph/Arlberg, Austria, March 13 – 19, 2022

“Water and Hydroxyls at In₂O₃(111)”

288. Symposium on Surface Science 3S’20, St. Christoph/Arlberg, Austria, March 1 – 6, 2020

“Assessing the proton affinity of individual surface OH groups with nc- AFM”

287. International Workshop on Oxide Surfaces, IWOX-XII, Lake Placid, NY, USA, January 5-10, 2020

“The pristine (1x1) surfaces of SrTiO₃(001)”

286. FOXSI International Meeting, December 4 – 6, 2019

“FOXSI: 9 Years of surface science on perovskite oxides. What we have learned, and where it could lead.”

285. Symposium on Surface Science, ‘3S, Baqueira-Beret, Spain, March 10 – March 16, 2019

“Atomic-scale surface structure of selected metal oxides after exposure to pure liquid water”

284. Symposium on Surface Science, ‘3S, St. Christoph/Arberg, February 25 – March 3, 2018

“Surface Chemistry of Ruthenates”

283. Hi-Tc, 33rd Workshop on Novel Materials and Superconductivity, Obertraun, February 12 – 17, 2018

“Atomic-Scale Investigations of Oxide Surfaces”

281. Symposium on Surface Science 3S’17, St. Moritz, Switzerland, March 5-11, 2017

“Surface Structure and Adsorption on In₂O₃(111)”

Presenter: Ulrike Diebold

280. ECOSS 2016, Grenoble, France

“Adsorption of Water on $\text{Ca}_3\text{Ru}_2\text{O}_7(001)$ ”

Presenter: Daniel Halwidl

279. 2nd FOXSI International Workshop, TU Wien, Austria, May 23 – 25, 2016

“Homoepitaxial Growth and Surface Reactivity of $\text{SrTiO}_3(110)$ ”

278. 4th General COST Meeting, Osnabrück, Germany, April 6 – 8, 2016

“Surface Chemistry and Homo-epitaxial Growth of Selected Perovskite Oxides”

277. PhD Workshop, SFB FOXSI, Haus/Ennstal, March 31 – April 2, 2016

Homoepitaxial Growth of $\text{SrTiO}_3(110)$

(Poster)

*276. Symposium on Surface Science, ‘3S 2016, St. Christoph/Arlberg, February 21 – 27, 2016

“Adsorption of Water and Oxygen on $\text{Ca}_3\text{Ru}_2\text{O}_7(001)$ ”

Presenter: Daniel Halwidl

275. Symposium on Surface Science, ‘3S 2016, St. Christoph/Arlberg, February 21 – 27, 2016

“In-situ atomic-scale control of the growth of a polar perovskite oxide: $\text{SrTiO}_3(110)$ homoepitaxy by pulsed laser deposition”

Presenter: Michele Riva

*274. Symposium on Surface Science, ‘3S 2016, St. Christoph/Arlberg, February 21 – 27, 2016

“Temperature programmed desorption studies of metal oxide surfaces”

Presenter: Jan Hulva

273. DPG Frühjahrsmeeing Regensburg, March 6 - 11, 2016

“ CO_2 and water adsorption on the $\text{Fe}_3\text{O}_4(001)$ surface”

Presenter: Jiri Pavelec

272. DPG Frühjahrsmeeing Regensburg, March 6 - 11, 2016

“SMSI effect of a non-reducible oxide: ZrO_2 /metal inverse model catalysts”

Presenter: Michael Schmid

271. DPG Frühjahrsmeeing Regensburg, March 6 - 11, 2016

Adsorption of water on the (001) surface of Fe_3O_4 studied by surface x-ray diffraction

Presenter: Björn Arndt (Stierle Group, Hamburg)

270. DPG Frühjahrsmeeing Regensburg, March 6 - 11, 2016

“Dissociated but not separated: Adsorption of water at the SrO surface of ruthenates”

Presenter: Florian Mittendorfer

269. DPG Frühjahrsmeeing Regensburg, March 6 - 11, 2016

“Investigation of few-monolayer-thick ZrO_2 films created by sputter deposition”

Presenter: Peter Lackner

268. DPG Frühjahrsmeeting Regensburg, March 6 - 11, 2016

“Single molecules of Sexiphenyl on $\text{In}_2\text{O}_3(111)$ ”

Presenter: Margareta Wagner

267. Symposium on Surface Science, 3S, Les Arcs, France, March 15 - 22, 2015

Water Adsorption on the SrO-terminated Surface of Strontium Ruthenates

Presenter: Ulrike Diebold

266. Symposium on Surface Science, 3S, Les Arcs, France, March 15 - 22, 2015

Electron- and Hole-Induced Reactions on Anatase $\text{TiO}_2(101)$

Presenter: Martin Setvin

265. DPG Spring Meeting, Berlin, Germany, March 10 – 15, 2015

“Adsorption of H_2O at Cleaved $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ and $\text{Ca}_3\text{Ru}_2\text{O}_7$ (001) Surfaces”

Presenter: Daniel Halwidl

264. DPG Spring Meeting, Berlin, Germany, March 10 – 15, 2015

“Ordered Indium and Iron Adatoms on the Reduced $\text{In}_2\text{O}_3(111)$ Surface”

Presenter: Margareta Wagner

*263. DPG Spring Meeting, Berlin, Germany, March 10 – 15, 2015

Surface chemistry of magnetite (001) surface: Adsorption of Formic Acid and Methanol.

Presenter: Oscar Gamba

262. (*Invited*) MRS Spring Meeting, San Francisco 2015

“Excess Electrons in TiO_2 Anatase and Rutile: Delocalized Solutions and Localized Small Polarons”

Presenter: Martin Setvin

*261. ACS Spring Meeting Denver, 2015

“CO Oxidation over a $\text{Pt}/\text{Fe}_3\text{O}_4(001)$ Model Catalyst: Watching Mars-van Krevelen at Work”

Presenter: Roland Bliem

260. COST Meeting, Barcelona, November 2014

“ TiO_2 anatase (101) - Single crystal growth and surface preparation in UHV”

Poster: Martin Setvin

259. COST Meeting, Barcelona, November 2014

“Excess electrons in TiO_2 – delocalized solutions in anatase vs. localized polarons in rutile”

Martin Setvin

258. Training School on Advanced Experimental Methods for Energy Materials

Characterization, Sept. 8 – 12, 2014 in Delmenhorst, Germany

“Adsorption of CO and H_2O on Cleaved $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ (001) Surfaces”

Poster: Daniel Halwidl

*257. Austrian Physics Society Meeting, Pöllau, Austria, Sept. 24 – 26, 2014
Adsorption of Formic Acid and Methanol on the Magnetite (001) Surface
Oscar Gamba

*256. Austrian Physics Society Meeting, Pöllau, Austria, Sept. 24 – 26, 2014
“Development of a Molecular Beam for Surface Reactivity Studies”
Daniel Halwidl

*255. Austrian Physics Society Meeting, Pöllau, Austria, Sept. 24 – 26, 2014
“Enhancing the Reactivity of a Perovskite Surface: Deposition of Sr-adatoms and NiO-clusters onto SrTiO₃(110)-(4×1) Surface”
Stefan Gerhold

*254. Austrian Physics Society Meeting, Pöllau, Austria, Sept. 24 – 26, 2014
“Setup of the Machine for Reactivity studies”
Jiri Pavelec

*253. Austrian Physics Society Meeting, Pöllau, Austria, Sept. 24 – 26, 2014
“The Structure of the Fe₃O₄(001) Surface”
Roland Bliem

252. Austrian Physics Society Meeting, Pöllau, Austria, Sept. 24 – 26, 2014
Ordered Indium Adatoms on the Reduced In₂O₃(111) Surface
Margareta Wagner

251. European Materials Research Society Meeting, Warsaw, Poland, Sept. 15 -19, 2014
“A direct view of polarons on TiO₂ anatase and rutile”
(invited talk Martin Setvin)

250. European Materials Research Society Meeting, Warsaw, Poland, Sept. 15 -19, 2014
“Ordered Indium Adatoms on the Reduced In₂O₃(111) Surface”
(invited talk Margareta Wagner)

249. Invited seminar at Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China, 10th April 2014
Title: Single Sr Adatoms Activating Water Dissociation on SrTiO₃(110) Surface
(Invited Zhiming Wang)

248. International Conference on Water Sciences, Beijing, China, 15th April 2014
Title: Single Sr Adatoms Activating Water Dissociation on SrTiO₃(110) Surface
(Invited Conference Talk, Zhiming Wang)

247. Seminar at University of Science and Technology of China, Hefei, China, 8th May 2014
Title: Atomic-scale study of the SrTiO₃(110) Surface
(Invited Zhiming Wang)

*246. 30th European Conference on Surface Science, ECOSS, Antalya, Turkey, August 31 - September 5, 2014

“A direct view at polarons in TiO₂ Rutile and Anatase”

Presenter: Martin Setvin

245. 30th European Conference on Surface Science, ECOSS, Antalya, Turkey, August 31 - September 5, 2014

“A direct view at polarons in TiO₂ Rutile and Anatase”

Presenter: Gareth Parkinson

244. 30th European Conference on Surface Science, ECOSS, Antalya, Turkey, August 31 - September 5, 2014

“Ordered arrays of stable metal adatoms at the Fe₃O₄(001) surface”

 Gareth Parkinson

243. ICSOS-11, International Conference on the Structure of Surfaces, Warwick, UK, July 21 - 26, 2014

“The Structure of the Fe₃O₄(001) Surface

Presenter: Gareth Parkinson

242. 15th Joint Vacuum Conference, Vienna, June 15 - 20, 2014

“High chemical activity of Sr₃Ru₂O₇: Adsorption of CO, CO₂ and H₂O”

Presenter: Bernhard Stöger

241. 15th Joint Vacuum Conference, Vienna, June 15 - 20, 2014

“Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO₃(110) – (4x1): An STM and Photoemission Study”

Presenter: Stefan Gerhold

*240. COST Meeting, Zaragoza, April 28-30, 2014

“Growth and morphological analysis of Ag nanoclusters on ultrathin ZrO₂ films”

Presenter: Ilaria Valenti

*239. COST Meeting, Zaragoza, April

“Water Adsorption at the Tetrahedral Titania Surface Layer of SrTiO₃(110)-(4x1): An STM and Photoemission Study”

Presenter: Stefan Gerhold

*238. FOXSKI Workshop, Hochkar, April 7 – 10, 2014

“High chemical activity of Sr₃Ru₂O₇: Adsorption of CO, CO₂ and H₂O”

Presenter: Bernhard Stöger

*237. FOXSKI Workshop, Hochkar, April 7 – 10, 2014

“Adsorption of Formic Acid on Fe₃O₄ (001) Surface”

Presenter: Oscar Gamba

*236. FOXSKI Workshop, Hochkar, April 7 – 10, 2014

“Different ultrathin zirconia films as substrates for metal clusters”

Presenter: Jake Choi

*235. FOXSKI Workshop, Hochkar, April 7 – 10, 2014

“Water Adsorption at the Tetrahedral Titania Surface Layer of $\text{SrTiO}_3(110)-(4\times 1)$: An STM and Photoemission Study”

Presenter: Stefan Gerhold

234. ViCOM Conference, February 26 – 28, 2014, Vienna, Austria

“Polaron Behavior in Bulk SrTiO_3 ”

Presenter: Xianfeng Hao

*233. Symposium on Surface Science, ‘3S, St. Christoph/Arlberg, March 9 – 15, 2014

“Cluster Nucleation and Growth from a Highly Supersaturated 2D Phase:

$\text{Ag}/\text{Fe}_3\text{O}_4(001)$ ”

Presenter: Roland Bliem

*232. Symposium on Surface Science, ‘3S, St. Christoph/Arlberg, March 9 – 15, 2014

“Water Adsorption at the Tetrahedral Titania Surface Layer of $\text{SrTiO}_3(110)-(4\times 1)$: An STM and Photoemission Study”

Presenter: Stefan Gerhold

*231. DPG Frühjahrstagung, March 31 – April 4, 2014, Dresden, Germany

“Cluster Nucleation and Growth from a Highly Supersaturated 2D Phase:

$\text{Ag}/\text{Fe}_3\text{O}_4(001)$ ”

Presenter: Roland Bliem

230. DPG Frühjahrstagung, March 31 – April 4, 2014, Dresden, Germany

“Small and Large Polarons in TiO_2 Rutile and Anatase”

Presenter: Martin Setvin

229. DPG Frühjahrstagung, March 31 – April 4, 2014, Dresden, Germany

“Anisotropic two-dimensional electron gas at $\text{SrTiO}_3(110)$ protected by its native overlayer”

Presenter: Zhiming Wang

*228. DPG Frühjahrstagung, March 31 – April 4, 2014, Dresden, Germany

“High chemical activity of a perovskite surface: Reaction of CO with $\text{Sr}_3\text{Ru}_2\text{O}_7$ ”

Presenter: Bernhard Stöger

*227. DPG Frühjahrstagung, March 31 – April 4, 2014, Dresden, Germany

“Water Adsorption at the Tetrahedral Titania Surface Layer of $\text{SrTiO}_3(110) (4\times 1)$: An STM and Photoemission Study”

Presenter: Stefan Gerhold

226. 6th Czech-Austrian workshop:^[SEP] New trends in photo and electro catalysis

“Metal clusters as super-redox species”

Presenter: Stijn Mertens

225. 6th Czech-Austrian workshop:^[SEP] New trends in photo and electro catalysis

“Electron localization in TiO₂ rutile and anatase - small and large polarons”

Presenter: Martin Setvin

223 & 224. 2013 Technical Conference for Atomic-level Catalyst Design, Oct. 21 – 23, 2013, Baton Rouge, Louisiana

‘Control of structures on complex catalyst supports’ (Oct.22)

‘Atomically-Precise Model Catalysts: Synthesis, Activity, and Deactivation’ (Oct. 23)

*222. SFB Meeting ‘Functional Oxide Surfaces – FOXSI’ Burg Schlaining, September 18 – 20, 2013

“Highly stable metal adatoms at the Fe₃O₄(001) surface”

Presenter: Gareth Parkinson

*221. SFB Meeting ‘Functional Oxide Surfaces – FOXSI’ Burg Schlaining, September 18 – 20, 2013

“Investigation of Single Ni Adatoms on the Fe₃O₄(001) Surface”

Poster, presenter: Roland Bliem

*220. SFB Meeting ‘Functional Oxide Surfaces – FOXSI’ Burg Schlaining, September 18 – 20, 2013

“Study of SrTiO₃(110): (4x1) and (5x1) Surfaces and Adsorption of H₂O”

Poster, presenter: Stefan Gerhold

219. SFB Meeting ‘Functional Oxide Surfaces – FOXSI’ Burg Schlaining, September 18 – 20, 2013

“Progress in the surface investigations of perovskite (and other) oxides”

*218. Summerschool Solids4Fun, Schloss Hernstein, July 8 – 11, 2013

“Ag Deposition on Fe₃O₄(001)”

Presenter: Roland Bliem

*217. Summerschool Solids4Fun, Schloss Hernstein, July 8 – 11, 2013

“Adsorption of Methanol and Formic Acid on the Fe₃O₄(001) Surface” (Poster)

Presenter: Oscar Gamba

*216. Summerschool Solids4Fun, Schloss Hernstein, July 8 – 11, 2013

“2D Electron Gas at the SrTiO₃(110)-(4x1) Surface Studied by ARPES and UPS” (Poster)

Presenter: Stefan Gerhold

215. Workshop on Oxide Electronics, University Town, National University Singapore, 22 – 25 September

“Emergent Quantum Confinement of an Anisotropic Two-dimensional Electron Gas at the SrTiO₃(110) Surface”

Presenter: Zhiming Wang

214. Joint Annual Meeting of the Austrian and Swiss Physics Societies, 3 – 6 September 2013, Linz, Austria

“Single Metal Adatoms on Fe₃O₄(001)-($\sqrt{2} \times \sqrt{2}$)R45°”

Presenter: Gareth Parkinson (invited)

*213. Joint Annual Meeting of the Austrian and Swiss Physics Societies, 3 – 6 September 2013, Linz, Austria

“Investigation of Single Ni Adatoms on the Magnetite (001) Surface”

Presenter: Roland Bliem

*212. Joint Annual Meeting of the Austrian and Swiss Physics Societies, 3 – 6 September 2013, Linz, Austria

“Water Gas Shift Chemistry at the $\text{Fe}_3\text{O}_4(001)$ Surface”

Presenter: Oscar Gamba

*211. Joint Annual Meeting of the Austrian and Swiss Physics Societies, 3 – 6 September 2013, Linz, Austria

“Spin resolved photoemission spectroscopy of Fe_3O_4 : The effect of surface structure”

Presenter: Jiri Pavelec

*210. Joint Annual Meeting of the Austrian and Swiss Physics Societies, 3 – 6 September 2013, Linz, Austria

“STM and photoemission study of vacancies and hydroxyls at the $\text{SrTiO}_3(110)-(4\times 1)$ surface”

Presenter: Stefan Gerhold

*209. Joint Annual Meeting of the Austrian and Swiss Physics Societies, 3 – 6 September 2013, Linz, Austria

“Hydrogen adsorption on TiO_2 anatase(101)”

Benjamin Daniel

208. Joint Annual Meeting of the Austrian and Swiss Physics Societies, 3 – 6 September 2013, Linz, Austria

“Field-induced migration of oxygen vacancies towards the surface of TiO_2 anatase(101)”

Martin Setvin

207. 246th ACS Meeting Indianapolis, September 8 - 12, 2013

“ TiO_2 anatase(101) – (sub)surface oxygen vacancies and O_2 adsorption”

Martin Setvin (invited talk)

206. International Vacuum Congress (IVC) 91, Paris, France, September 9-13, 2013
STM and photoemission study of vacancies and hydroxyls at the $\text{SrTiO}_3(110)-(4\times 1)$ surface

Zhiming Wang

*205. International Vacuum Congress (IVC) 91, Paris, France, September 9-13, 2013
Spin resolved photo emission of Fe_3O_4 : The effect of surface structure

Jiri Pavelec

*204. International Vacuum Congress (IVC) 91, Paris, France, September 9-13, 2013
Adsorption of isolated Au adatoms on the $\text{Fe}_3\text{O}_4(001)$

Zbynek Novotny

203. International Vacuum Congress (IVC) 91, Paris, France, September 9-13, 2013
Ultrathin Zirconia Films: Growth, Structure and Adsorption Experiments
Michael Schmid

202. Gordon Research Conference on Chemical Reactions at Surfaces, Les Diablerets, Switzerland, April 28 - May 3, 2013
Moving Oxygen Vacancies on TiO_2 Anatase and Rutile
Martin Setvin

201. SFB FOXSKI PhD Meeting, Hochkar, March 11 – 14, 2013
STM and photoemission study of vacancies and hydroxyls at the $\text{SrTiO}_3(110)-(4\times 1)$ surface.
Zhiming Wang

200*. SFB FOXSKI PhD Meeting, Hochkar, March 11 – 14, 2013
Water and atomic hydrogen adsorption studies on $\text{ZrO}_2/\text{Pt}_3\text{Zr}(0001)$
Jake Choi

199*. SFB FOXSKI PhD Meeting, Hochkar, March 11 – 14, 2013
High Precision Molecular Beam for Surface Reactivity Studies (Poster)
Jiri Pavelec & Daniel Halwidl

198. SFB FOXSKI PhD Meeting, Hochkar, March 11 – 14, 2013
Water gas shift chemistry at the $\text{Fe}_3\text{O}_4(001)$ surface
Oscar Gamba & Benjamin Daniel

197. SFB FOXSKI PhD Meeting, Hochkar, March 11 – 14, 2013
Scanning Tunneling Microscopy study of single-crystalline $\text{Sr}_3\text{Ru}_2\text{O}_7$ (Poster)
Bernhard Stöger

196. SFB FOXSKI PhD Meeting, Hochkar, March 11 – 14, 2013
Surface Studies of $\text{SrTiO}_3(100)$
Zhiming Wang

195. SFB FOXSKI PhD Meeting, Hochkar, March 11 – 14, 2013
Surface Studies of $\text{Fe}_3\text{O}_4(001)$
Ulrike Diebold

*194. DPG Frühjahrstagung Regensburg, March 10 – 15, 2013
Water Adsorption on Ultrathin $\text{ZrO}_2/\text{Pt}_3\text{Zr}$
Jake Choi

*193. DPG Frühjahrstagung Regensburg, March 10 – 15, 2013
CO Induced Adatom Sintering in a Model Catalyst: $\text{Pd}/\text{Fe}_3\text{O}_4$
Zbynek Novotny

*192. DPG Frühjahrstagung Regensburg, March 10 – 15, 2013
Reversible transitions between surface reconstructions on SrTiO_3
Stefan Gerhold

- *191. DPG Frühjahrstagung Regensburg, March 10 – 15, 2013
Scanning Tunneling Microscopy Study of Single-Crystalline $\text{Sr}_3\text{Ru}_2\text{O}_7$
Bernhard Stöger
190. Symposium on Surface Science, S'13, March 3 – 9, 2013, Åre, Sweden
The Reconstructed $\text{Fe}_3\text{O}_4(001)-(\sqrt{2}\times\sqrt{2})\text{R}45^\circ$ Surface as an Adsorption Template
Ulrike Diebold, Poster
189. Symposium on Surface Science, S'13, March 3 – 9, 2013, Åre, Sweden
(Sub)surface oxygen vacancies on TiO_2 anatase(101) and O_2 adsorption
Martin Setvin
- *188. ECOSS-29, Edinburgh, September 3-7, 2012
Scanning Tunneling Microscopy Study of Single-Crystalline $\text{Sr}_3\text{Ru}_2\text{O}_7$
Bernhard Stöger
187. ECOSS-29, Edinburgh, September 3-7, 2012
Vacancy induced surface band bending at the $\text{SrTiO}_3(110)$ surface
Zhiming Wang
186. ECOSS-29, Edinburgh, September 3-7, 2012
Influence of (sub)surface O vacancies on the reactivity of TiO_2 anatase (101)
Martin Setvin
- *185. ECOSS-29, Edinburgh, September 3-7, 2012
Ordered Array of Single Au Adatoms on $\text{Fe}_3\text{O}_4(001)$ with Remarkable Thermal Stability
Zbynek Novotny
- *184. COST Meeting, Prague, September 26 – 28, 2012
Ordered Array of Single Au Adatoms on $\text{Fe}_3\text{O}_4(001)$ with Remarkable Thermal Stability
Zbynek Novotny
- *184. SFB Meeting Burg Schlaining, Sept 26 – 28, 2012
“Reversible transitions between surface reconstructions on SrTiO_3 ”
Poster - Stefan Gerhold
- *183. SFB Meeting Burg Schlaining, Sept. 26 – 28, 2012
Scanning Tunneling Microscopy Study of Single-crystalline $\text{Sr}_3\text{Ru}_2\text{O}_7$
Bernhard Stöger
182. SFB Meeting Burg Schlaining, Sept. 26 – 28, 2012
Tuning Surface Band Bending by Controlling Domain Boundary on $\text{SrTiO}_3(110)$ surface
Zhiming Wang
- *181. 62. Jahrestagung der Österreichischen Physikalischen Gesellschaft, 18.-21. September 2012, Graz

Poster: Surface Chemistry Chamber for Analysis of Oxides
Jiri Pavelec

*180. 62. Jahrestagung der Österreichischen Physikalischen Gesellschaft, 18.-21.
September 2012, Graz
Scanning Tunneling Microscopy Study of Single-Crystalline $\text{Sr}_3\text{Ru}_2\text{O}_7$
Bernhard Stöger

179. 62. Jahrestagung der Österreichischen Physikalischen Gesellschaft, 18.-21.
September 2012, Graz
Poster: "Reversible transitions between surface reconstructions on SrTiO_3 "
Stefan Gerhold

*178. 62. Jahrestagung der Österreichischen Physikalischen Gesellschaft, 18.-21.
September 2012, Graz
"ZrO₂ ultra-thin films on $\text{Pd}_3\text{Zr}(0001)$: Structure and growth of metal clusters"
Jake Choi

*177. SFB Meeting May 11, 2012
"Zirconia on $\text{Pd}_3\text{Zr}(0001)$ "
Jake Choi

176. SFB Meeting May 11, 2012
'Strain Mediated Long-range Quasi-ordered Domain Structures at the $\text{SrTiO}_3(110)$
Surface'
Zhiming Wang

175. SFB Meeting May 2012
'Scanning Tunneling Microscopy Study of single-crystalline $\text{Sr}_3\text{Ru}_2\text{O}_7$ '
Bernhard Stöger

174. ECOSS-29, CMD-24, ECSCD-11, CMMP-12 Edinburgh, September 3 - 12,
2012
"Influence of (sub)surface O vacancies on the reactivity of TiO_2 anatase (101)"
Presenter: Martin Setvin

*173. ECOSS-29, CMD-24, ECSCD-11, CMMP-12 Edinburgh, September 3 - 12,
2012
"Scanning Tunneling Microscopy Study of Single-Crystalline $\text{Sr}_3\text{Ru}_2\text{O}_7$ "
Presenter: Bernhard Stöger

172. ECOSS-29, CMD-24, ECSCD-11, CMMP-12 Edinburgh, September 3 - 12,
2012
"Vacancy induced surface band bending at the $\text{SrTiO}_3(110)$ surface"
Presenter: Zhiming Wang

*171. ECOSS-29, CMD-24, ECSCD-11, CMMP-12 Edinburgh, September 3 - 12,
2012
'Ordered Array of Single Au Adatoms on $\text{Fe}_3\text{O}_4(001)$ with Remarkable Thermal
Stability'

Presenter: Zbynek Novotny

170. Nature Conference, Frontiers in Electronic Materials, June 12 – 17, 2012 Aachen
Strain-mediated long range quasi-ordered domain structures on SrTiO₃(110) surface
Poster Presenter: Zhiming Wang

*169 Nature Conference, Frontiers in Electronic Materials, June 12 – 17, Aachen
Scanning Tunneling Microscopy Study of Single-Crystalline Sr₂RuO₇
Poster Presenter: Bernhard Stöger

*168. Symposium on Surface Science, St. Christoph/Arlberg, March 12 – 15, 2012
Poster Presenter (March 14): Zbynek Novotny

*167. German Physics Society Meeting, Berlin, Germany, March 25 – 29, 2012
Fe Rich Terminations and the Role of Subsurface Charge Order at the Fe₃O₄(001) Surface
Presenter: Zbynek Novotny

166. German Physics Society Meeting, Berlin, Germany, March 25 – 29, 2012
Ultrathin zirconia films on Pt₃Zr
Presenter: Michael Schmid

165. German Physics Society Meeting, Berlin, Germany, March 25 – 29, 2012
Bulk and Surface Characterization of In₂O₃(001) Single Crystals
Presenter: Michael Schmid
(upcoming)

*164. German Physics Society Meeting, Berlin, Germany, March 25 – 29, 2012
Scanning Tunneling Microscopy study of single-crystalline Sr₃Ru₂O₇
Presenter: Bernhard Stöger

163. German Physics Society Meeting, Berlin, Germany, March 25 – 29, 2012
Atomic-scale optimization of homoepitaxial growth of SrTiO₃(110) thin films
Presenter: Zhiming Zhang

162. DK+ Hearing, November 8, 2011, FWF, Vienna, Austria
'Probing Solid Surfaces at the Atomic Scale'

161. Functional Oxide Surfaces and Interfaces - Special Research Program (SFB)
Meeting, September 23, 2011, Vienna, Austria
'Surface reactivity of Iron Oxide'
Poster Presentation: Zbynek Novotny

*160. 28th European Conference on Surface Science, ECOSS-28, Wroclaw, Poland,
28 Aug – 2 Sep 2011, "Defect Structures on Graphene", Presenter: Peter Jacobson

159. 28th European Conference on Surface Science, ECOSS-28, Wroclaw, Poland, 28
Aug – 2 Sep 2011, "Detection and Destruction of Oxygen Molecules on TiO₂(110)",
Presenter: Michael Schmid

*158. 28th European Conference on Surface Science, ECOSS-28, Wroclaw, Poland,

28 Aug – 2 Sep 2011,

“Surface defects and their migration on a TiO_2 Anatase (101) surface”

Presenter: Philipp Scheiber

*157. 28th European Conference on Surface Science, ECOSS-28, Wroclaw, Poland,

28 Aug – 2 Sep 2011,

“A Metastable Fe Termination of the $\text{Fe}_3\text{O}_4(001)$ Surface”

Presenter: Zbynek Novotny

156. 28th European Conference on Surface Science, ECOSS-28, Wroclaw, Poland, 28

Aug – 2 Sep 2011,

“Room Temperature Water Splitting at the Surface of Magnetite”

Speaker: Gareth Parkinson

*155. Festkörperanalytik, Vienna, Austria, July 2011

“MoleküladSORPTION bei tiefen Temperaturen: O_2 Adsorption auf einer reinen TiO_2 Rutil (110) Oberfläche“

Presenter: Philipp Scheiber

*154. Joint Annual Meeting of Swiss and Austrian Physics Society, Lausanne, Switzerland,

June 15 – 17, 2011

‘Influence of Nickel Carbide on the epitaxy of graphene on $\text{Ni}(111)$ ’

Speaker: Peter Jacobson

*153. Joint Annual Meeting of Swiss and Austrian Physics Society, Lausanne, Switzerland,
June 15 – 17, 2011

‘New findings for the surface properties of indium oxide single crystals’

(Speaker: Daniel Hagleitner)

*152. 18th Interdisciplinary Surface Science Conference (ISSC-18), Warwick 4-7th April 2011

‘Influence of Nickel Carbide on the epitaxy of graphene on $\text{Ni}(111)$ ’

Poster Presenter: Peter Jacobson

151. 18th Interdisciplinary Surface Science Conference (ISSC-18) Warwick 4-7th April 2011

‘Manipulation of the termination of the $\text{Fe}_3\text{O}_4(001)$ surface’

Speaker: Gareth Parkinson

150. Symposium on Surface Science (3S), Spain, Baqueira Beret, March 6th - 12th 2011

‘STM investigations of pure and Sn-doped In_2O_3 surfaces’

Speaker: Ulrike Diebold

149. APS March Meeting in Dallas, Texas, March 20 – 25, 2011

‘Reactivity of TiO_2 rutile and anatase surfaces toward nitroaromatics’

Speaker: Shaochun Li

148. APS March Meeting in Dallas, Texas, March 20 – 25, 2011

‘Hydrogen bonding controls the dynamics of catechol adsorbed on a $\text{TiO}_2(110)$ surface’

Speaker: Shaochun Li

147. APS March Meeting in Dallas, Texas, March 20 – 25, 2011

‘X-ray Induced Reorganization/Polymerization of Resorcinol on the TiO₂ Rutile (110) Surface’

Speaker: Vinod Paliwal

146. University of Munich, November 5, 2011

‘Surface Science Studies of Fe₃O₄(001)’

(Speaker: Gareth Parkinson)

145. ECSD-10, Reading, September 19 – 26, 2010

‘Adsorbate-Induced Half-Metallicity at the Fe₃O₄(001) Surface’

(Speaker: Gareth Parkinson)

144. COST Meeting, April 21, 2010

“Adsorbate Induced Half-Metallicity at the Magnetite (001) Surface

Poster Presenter: Gareth Parkinson

142. 57th AVS Meeting, Albuquerque, NM, October 17 – 22, 2010

“Hydrogen Bonding Controls the Dynamics of Catechol Adsorbed on a TiO₂(110) Surface”

Speaker: Shaochun Li

*141. 56th International AVS Meeting, San Jose, Ca, Nov 8 – 13, 2009

“STM and XPS Studies of ITO(100) Surfaces”

Speaker: Erie Morales

140. DoE-BES Catalysis Contractors Meeting: Frontiers in Catalysis: Advanced Synthesis, Characterization, and Modeling, Annapolis, MD, May 31 – June 3, 2009

“Towards a Molecular Scale Understanding of Surface Chemistry and Photocatalysis on Metal Oxides: Surface Science Experiments and First Principles Theory”

139. Physical Electronics Meeting, Rutgers, New Jersey, June 16 – 19, 2009

“Local Ordering of Water on Anatase TiO₂(101)”

138. German Physical Society, Dresden, March 22 – 27, 2009

“Correlation between bonding geometry and band gap states at organic-inorganic interfaces: catechol on rutile TiO₂(110)”

Presenter: Annabella Selloni

*137. APS March Meeting, Pittsburgh, PA, March 16 -20, 2009

“Adsorption and UV-induced removal of catechol on TiO₂(110) and Al₂O₃ surfaces”

Presenter: Chuandao Wang

136. APS March Meeting, Pittsburgh, PA, March 16 -20, 2009

“Scanning Tunneling Microscopy Study of a Vicinal Anatase TiO₂ Surface

Presenter: Shao-Chun Li

135. 6th International Workshop on Oxide Surfaces, IWOX-VI, Schladming, Austria, January 18 – 23, 2008

“The surfaces of TiO₂ anatase: Any major differences to rutile?”

Presenter: Ulrike Diebold

*134. 6th International Workshop on Oxide Surfaces, IWOX-VI, Schladming, Austria, January 18 – 23, 2008

“The structure of the TiO_2 (011) surface”

Presenter: Navid Khorshidi

*133. CAMD User’s Meeting, CAMD Baton Rouge, April 3, 2008

“Bonding configurations of catechol on rutile TiO_2 (110)”

Speaker: Peter Jacobson

132. International Conference on Electronic Materials, UMRS-ICEM 2008, Sydney, Australia, July 28th – August 1st, 2008

“Half-metallicity of Fe_3O_4 and amplification of its magnetoresistance in a MOSFET structure”
(invited, presenter Jinke Tang)

*131. 52nd International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication, Portland, Oregon, May 27 – 30, 2008

“Model studies of the photocatalytic removal of carbon from titanium dioxide”

(Presenter: Peter Jacobson)

*130. DPG Frühjahrstagung, Berlin 2008

“Structure of the rutile TiO_2 (011)-2x1 surface”

Speaker: Navid Khorshidi

*129. APS March Meeting, New Orleans, LA, March 10 – 14, 2008

“Structure of the rutile TiO_2 (011)-2x1 surface”

Speaker: Navid Khorshidi

*128. APS March Meeting, New Orleans, LA, March 10 – 14, 2008

“Photocatalytic Reaction of catechol on rutile titanium dioxide”

Speaker: Peter Jacobson

127. APS March Meeting, New Orleans, LA, March 10 – 14, 2008

“STM study of MOCVD-grown a-plane ZnO thin films: film thickness, growth temperature, and substrate miscut effects”

Speaker: Erie Morales

126. APS March Meeting, New Orleans, LA, March 10 – 14, 2008

“STM study of MOCVD-grown a-plane ZnO thin films: film thickness, growth temperature, and substrate miscut effects”

Speaker: Olga Dulub

125. APS March Meeting, New Orleans, LA, March 10 – 14, 2008

Characterization of individual SnO_2 nanowires with surface science techniques

Speaker: Bulat Katsiev

124. APS March Meeting, New Orleans, LA, March 10 – 14, 2008

“Scanning tunneling microscopy study of water adsorption on anatase $\text{TiO}_2(101)$ ”

Speaker: Yunbin He

123. APS March Meeting, New Orleans, La, March 10 – 14, 2008
“Chemical Deposition and Photoactivity of Anatase and Rutile TiO₂ Films on Si(111)”
Speaker: John Anderson
122. American Chemical Society Meeting, New Orleans, La, April 6 - 10, 2008
“Scanning tunneling microscopy study of water adsorption on anatase TiO₂(101)”
Presenter: Yunbin He
121. American Chemical Society Meeting, New Orleans, La, April 6 - 10, 2008
“Bonding configurations of catechol on rutile and anatase TiO₂”
Presenter: Peter Jacobson
120. AVS 54th International Symposium, Seattle, Washington, October 14 – 19, 2007
“Thermal and Photoreactions of Catechol on TiO₂”
Presenter: Peter Jacobson
119. AVS 54th International Symposium, Seattle, Washington, October 14 – 19, 2007
“Surface Study of In₂O₃ and Sn-doped In₂O₃ thin films with (100) and (111) orientations”
Presenter: Erie Morales
118. AVS 54th International Symposium, Seattle, Washington, October 14 – 19, 2007
“STM, LEED and ARXPS study of MOCVD grown a-plane ZnO and Mg_xZn_{1-x}O ($0 \leq x \leq 0.3$) thin films”
Speaker: Olga Dulub
117. 2007 International EUVL Symposium, Sapporo, Japan, 28-31 October 2007
“Resonances in secondary electron yields from capped multilayer mirrors”
Presenter: T.E. Madey (upcoming)
116. 2007 International EUVL Symposium, Sapporo, Japan, 28-31 October 2007
“Radiation Damage of an EUV Mirror Cap Layer Modeled by Electron Irradiation of TiO₂(011)-2x1”
(upcoming)
115. Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Regensburg, Germany, March 26 – 30, 2007
“Growth of One-dimensional Pd Nanowires on the Reduced SnO₂ (101) Surface”
Presenter: Bernd Meyer
114. LSU Chemistry Department Undergraduate Research Symposium, March 2, 2007, Baton Rouge, LA
‘Gas sensing metal oxide’
(presenter: Laura Linhardt)
113. Gordon Research Conference ‘Chemical Reactions at Surfaces’, Feb 10 – 14, 2007, Ventura, Ca
“Reactive Metals on a SnO₂(101) surface”
(presenter: Ulrike Diebold)

112. International Workshop on Oxide Surfaces, IWOX-5, Granlibakken Conference Center, Lake Tahoe, CA, January 7 – 12, 2007

“A Comparative Study of In_2O_3 and Sn-doped In_2O_3 Thin Films in (100), (110) and (111) Orientations”

Presenter: Erie Morales

111. International Workshop on Oxide Surfaces, IWOX-5, Granlibakken Conference Center, Lake Tahoe, CA, January 7 – 12, 2007

“Reactive Metals on the $\text{SnO}_2(101)$ surface”

Presenter: Bulat Katsiev (upcoming)

110. International Workshop on Oxide Surfaces, IWOX-5, Granlibakken Conference Center, Lake Tahoe, CA, January 7 – 12, 2007

“Adsorption of catechol on TiO_2 surfaces”

Presenter: Peter Jacobson

109. International Workshop on Oxide Surfaces, IWOX-5, Granlibakken Conference Center, Lake Tahoe, CA, January 7 – 12, 2007

“The effect of electron bombardment on the defect structure of the $\text{TiO}_2(011)\text{-}2\times 1$ surface.”

Presenter: Olga Dulub

108. AVS 53rd International Symposium, November 12 -17, 2006, San Francisco, CA “STM characterization of $\text{TiO}_2(011)\text{-}2\times 1$ surface morphology”

Presenter: Olga Dulub

107. AVS 53rd International Symposium, November 12 -17, 2006, San Francisco, CA

“Nitrogen doping of TiO_2 single crystals”

Presenter: Ulrike Diebold

106. AVS 53rd International Symposium, November 12 -17, 2006, San Francisco, CA

“Pd cluster growth on the $\text{SnO}_2(101)$ surface”

Presenter: Bulat Katsiev

105. 66th Annual Physical Electronics Conference, Princeton, NJ, June 17 – 21, 2006

“Preparation, Surface Structure, and Defects on $\text{TiO}_2(011)\text{-}2\times 1$ ”

Presenter: Olga Dulub (upcoming)

104. 66th Annual Physical Electronics Conference, Princeton, NJ, June 17 – 21, 2006

“One-dimensional Pd Nanowires on a Reduced $\text{SnO}_2(101)$ Surface”

Presenter: Bulat Katsiev

103. Twentieth Annual Symposium of the Laboratory for Surface Modification, Rutgers, The State University of New Jersey, Piscataway, New Jersey, March 2, 2006

“Surface and Interface study of $(11\text{-}20) \text{Mg}_x\text{Zn}_{1-x}\text{O}$ ($0 \leq x \leq 0.3$) Films”

Presenter: Gaurav Saraf

102. CAMD User’s meeting, Baton Rouge, LA, April 21, 2006

Pd cluster growth on the reduced and oxidized $\text{SnO}_2(101)$ surface

Presenter: Bulat Katsiev

101. CAMD User's meeting, Baton Rouge, LA, April 21, 2006

"The Geometric and Electronic Structure of Clean and Cu-covered Polar Oxide Surfaces: ZnO(0001)-Zn and ZnO(000-1)-O"

Presenter: Olga Dulub

100. March Meeting of the American Physical Society, March 13-17, 2006 Baltimore, MD

"Electron-stimulated desorption ion angular distribution (ESDIAD) investigations of the rutile TiO₂(011)-(2x1) surface"

Presenter: Sergei Solovev

99. March Meeting of the American Physical Society, March 13-17, 2006 Baltimore, MD

"Structure and energetics of step edges on anatase TiO₂(101)"

Presenter: Xue-Qing Gong

98. March Meeting of the American Physical Society, March 13-17, 2006 Baltimore, MD

"Dopant induced surface reconstruction in N-doped rutile TiO₂(110)"

Presenter: Matthias Batzill

97. American Vacuum Society, Boston, November 2005

"Tuning surface reactivity of SnO₂(101): dissociative and molecular water adsorption"

Presenter: Matthias Batzill

96. American Vacuum Society, Boston, November 2005

"Bimodal Pd cluster growth on the reduced SnO₂ (101) surface"

Presenter: Bulat Katsiev

95. Department of Energy/Basic Energy Sciences, Catalysis and Chemical Transformations Contractors' Meeting, May 18-21, 2005 – Doubletree Hotel, Rockville, MD

"The influence of oxygen composition on the surface functionality of SnO₂(101)"

Presenter: Ulrike Diebold

94. CAMD Annual Users' Meeting, April 2005, Baton Rouge, LA

"Bimodal Pd cluster growth on the reduced SnO₂ (101) surface"

Presenter: Bulat Katsiev

93. CAMD Annual Users' Meeting, April 2005, Baton Rouge, LA

"Surface electronic structure and interface properties of the compositional variants of SnO₂(101)"

Presenter: Matthias Batzill

92. March Meeting of the American Physical Society, March 2005, Los Angeles, CA

"Properties of a ferromagnetic semiconductor: epitaxial Co-doped SnO₂ films"

Presenter: Jimi Burst

91. March Meeting of the American Physical Society, March 2005, Los Angeles, CA

"Surface Electronic Structure of the Compositional Variants of SnO₂(101)"

Presenter: Matthias Batzill

90. March Meeting of the American Physical Society, March 2005, Los Angeles, CA

“Adsorption and dissociation of water at the rutile $\text{TiO}_2(011)\text{-}2\times 1$ surface”

Presenter: T.J. Beck

89. March Meeting of the American Physical Society, March 2005, Los Angeles, CA

“The structure of water on the surface of ZnO ”

Presenter: Olga Dulub

88. Gordon Research Conference, Chemical Reactions at Surfaces, Ventura, CA, February 2005,

“Water adsorption on the rutile $\text{TiO}_2(011)\text{-(}2\times 1\text{)}$ surface”

Presenter: Andreas Klust

87. International Workshop on Oxide Surfaces, IWOX-4, Torino University (Italy) and Centre Paul Langevin, Aussois (France), Jan. 04 - January 08, 2005

“Water adsorption on the ZnO surface: an experimental and theoretical investigation of the overlayer structure”

Presenter: Ulrike Diebold

86. Österreichische Physikalische Gesellschaft, Linz, Austria, Sept. 28 - 30, 2004

“The gas-dependent surface properties of Tin Oxide”

Presenter: Ulrike Diebold

85. American Vacuum Society Meeting, Anaheim, Fall 2004

“Water adsorption on the rutile $\text{TiO}_2(011)\text{-(}2\times 1\text{)}$ surface”

Speaker: Ulrike Diebold

84. Symposium of Surface Science, 3S'04, St. Anton/Arlberg, Austria, Feb 29 - Mar 06, 2004

“Geometric and Electronic Structure of SnO_2 Surfaces”

83. American Physical Society Meeting, Montreal, Canada, March 22 - 26, 2004

“The 2×1 reconstruction of the $\text{TiO}_2(011)$ surface: A theoretical study”

(Presenter: Cristiana DiValentin)

82. American Physical Society Meeting, Montreal, Canada, March 22 - 26, 2004

“The 2×1 reconstruction of the $\text{TiO}_2(011)$ surface: An Experimental study”

(Presenter: T.J. Beck)

81. “SOXESS European Network on ZnO ” at AUTRANS, Fall 2003

“Surface Characterization of Surface characterization of ZnO single crystals by LEED Low Energy Electron Diffraction: $\text{ZnO}(000\text{-}1)$ Oxygen face”

(Presenter: Catherine Moisson, Novasic Company, France)

80. American Vacuum Society Meeting, Baltimore, MD, Fall 2003

“STM Study of Copper Growth on $\text{ZnO}(0001)\text{-Zn}$ and $\text{ZnO}(000\text{bar}1)\text{-O}$ surfaces”

(Presenter: Olga Dulub)

79. American Vacuum Society Meeting, Baltimore, MD, Fall 2003

“Gas sensing mechanism of SnO_2 ”

(Presenter: Matthias Batzill)

78. 225 National Meeting of the American Chemical Society, New Orleans, March 23 - 28, 2003

"Scanning Tunneling Microscopy Study of the Anatase (100) Surface"

(Presenter: Nancy Ruzycki)

77. 225 National Meeting of the American Chemical Society American Chemical Society, New Orleans, March 23 - 28, 2003

"Characterization and Chemistry of Subsurface Impurities in TiO₂"

(Presenter: Bulat Katsiev)

76. 225 National Meeting of the American Chemical Society, New Orleans, March 23 - 28, 2003

"Surface Structure of SnO₂ (110)"

(Presenter: T.J. Beck)

75. 225 National Meeting of the American Chemical Society, New Orleans, March 23 - 28, 2003

"Investigation of single-crystalline ZnO surfaces on the atomic level"

(Presenter: Olga Dulub)

74. Second International Workshop on ZnO, Dayton, Ohio, Oct 23 - 25, 2002

"Structure and Morphology of Low-index Single-crystalline ZnO Surfaces"

(Presenter: Ulrike Diebold)

73. American Vacuum Society Meeting, Denver, Co, Fall 2002

"The Influence of Subsurface, Charged Defects on the Adsorption of Chlorine on TiO₂(110) "

(Presenter: Matthias Batzill)

72. American Vacuum Society Meeting, Denver, Co, Fall 2002

Measurement of the Dependence of Bulk Defects on the Reactivity of the TiO₂(110) Surface

(Presenter: S.N. Thornburg)

71. American Vacuum Society Meeting, Denver, Co, Fall 2002

"Polar ZnO(0001)-Zn and ZnO(000-1)-O surfaces: geometric and electronic structure, stabilization mechanisms"

(Presenter: Olga Dulub, selected as a Morton Traum Award Finalist)

70 American Physical Society Meeting, Indianapolis, March 2002

" Surface Phenomena for alloy formation -- submonolayer Ag and Ge on Pt(100)"

(Presenter: Matthias Batzill)

69. EURESCO Conference, Fundamentals on Surface Science, Mareata, Italy, June 2002

"The influence of subsurface vanadium dopants on the chemical and electronic surface properties of TiO₂"

(Speaker: Matthias Batzill)

68. American Physical Society Meeting, Indianapolis, March 2002
"Axis Orientation Dependent Polarization of TiO₂ Polymorphs Anatase (001) and Rutile (001)"
(Presenter: Nancy Ruzyski)
67. American Physical Society Meeting, Indianapolis, March 2002
" Surface Morphology Study of Co-doped Anatase Films
Grown on Various Substrates by OPE-MBE"
(Presenter: Nancy Ruzyski)
66. American Physical Society Meeting, Indianapolis, March 2002
"Geometric and Electronic Structure of ZnO surfaces"
(Presenter: Olga Dulub, Post-deadline poster)
65. Tulane Engineering Forum, Sept. 21, 2001, New Orleans, LA
"Correlation of Electrochemical Modeling and Surface Analysis of Titanium-based Biomaterials"
Presenter: Mohammad Mehmoud
64. Tulane Engineering Forum, Sept. 21, 2001, New Orleans, LA
"Epitaxial Growth and Morphology of Ferromagnetic Co-doped TiO₂ Anatase"
Presenter: Nancy Ruzyski
63. IVC-15/ AVS-48/ ICSS-11, San Francisco, CA, USA, Oct. 28 - Nov. 2, 2001
"STM study of metal growth on ZnO surfaces"
Presenter: Olga Dulub
62. IVC-15/ AVS-48/ ICSS-11, San Francisco, CA, USA, Oct. 28 - Nov. 2, 2001
"Surface Investigations of TiO₂ Anatase (101)"
Presenter: Nancy Ruzyski
61. IVC-15/ AVS-48/ ICSS-11, San Francisco, CA, USA, Oct. 28 - Nov. 2, 2001
"Electronegative Adsorbates on TiO₂: Reducing Effects of S and Cl"
Presenter: E.L.D. Hebenstreit
(This paper has been accepted as a finalist paper for the AVS 'Mort Trau Student Award.)
60. International Workshop on Oxide Surfaces, IWOX-2, Taos, New Mexico, January 2001
"Soft X-ray Spectroscopy Study of Single Crystalline Rutile and Anatase Films"
Presenter: Nancy Ruzyski
59. International Workshop on Oxide Surfaces IWOX-2, Taos, New Mexico, January 2001
"STM investigation of the polar surfaces of ZnO crystals"
Presenter: Olga Dulub
58. American Vacuum Society Meeting of the Pacific Northwest Chapter

"Measurement of the Surface Bandgaps of TiO₂ Polymorphs using Electron Energy Loss Spectroscopy,"

Presenter: Michael A. Henderson

57. Louisiana Materials Science Conference, University of New Orleans, New Orleans, LA, August 17 - 18, 2000

"The SMSI State of Pt/TiO₂(110)"

Presenter: Olga Dulub

56. Louisiana Materials Science Conference, University of New Orleans, New Orleans, LA, August 17 - 18, 2000

"Morphology Dependence of the TiO₂(110) Valence Band: An STM and Synchrotron Study of S, Cl and O Adsorption

Speaker: Wilhelm Hebenstreit

Speaker: Carl A. Ventrice, Jr.

55. Louisiana Materials Science Conference, University of New Orleans, New Orleans, LA, August 17 - 18, 2000

"Sulfur on TiO₂(110): Study of adsorption behaviour with STM and XPS"

Presenter: E.L.D. Hebenstreit

54. American Vacuum Society, 47th International Symposium: Vacuum, Thin Films, Surfaces/Interfaces, Processing & NANO-6, Boston, Ma, October 2-6, 2000

"Adsorption of S and Cl on TiO₂(110) studied by Ultra-violet Photoelectron Spectroscopy"

Speaker: Carl A. Ventrice, Jr.

53. American Vacuum Society, 47th International Symposium: Vacuum, Thin Films, Surfaces/Interfaces, Processing & NANO-6, Boston, Ma, October 2-6, 2000

"Temperature Dependent Adsorption of Oxygen on TiO₂(110): A Photoemission Study"

Speaker: Heike Geisler

52. 60th Annual Conference on Physical Electronics, Baton Rouge, La, June 21 - 23, 2000

"Crystal Color Governs the Surface Structure and Morphology of Rutile TiO₂(110) Surfaces"

Speaker: Min Li

(With this paper, M. Li competed as a Nottingham Award Finalist.)

51. 60th Annual Conference on Physical Electronics, Baton Rouge, La, June 21 - 23, 2000

"Adsorption of S on TiO₂(110): S-O Exchange in Dependence of Temperature and Bulk Properties"

Speaker: Eleonore L.D. Hebenstreit

(With this paper, E.L.D. Hebenstreit competed as a Nottingham Award Finalist.)

50. 60th Annual Conference on Physical Electronics, Baton Rouge, La, June 21 - 23, 2000

"Morphology Dependence of the TiO₂(110) Valence Band: An STM and Synchrotron Study of S, Cl and O Adsorption
Speaker: Wilhelm Hebenstreit

49. American Vacuum Society, Seattle, U.S.A., October 1999
"Surface Reconstructions of Fe₃O₄(001)"

48. American Vacuum Society, Seattle, U.S.A., October 1999
"Matrix-dependent He⁺ neutralization by adsorbates: An ISS study of S and Cl on TiO₂(110)"
Speaker: Wilhelm Hebenstreit

47. American Vacuum Society, Seattle, U.S.A., October 1999
"S on TiO₂(110): Study of adsorption behavior with STM and XPS"
Speaker: Nora Hebenstreit

46. American Chemical Society, New Orleans, U.S.A., August 1999
Oxygen Induced Restructuring of the TiO₂(110) Surface: A STM and LEIS Study
Speaker: Min Li

45. American Chemical Society, New Orleans, U.S.A., August 1999
"S on TiO₂(110): Study of adsorption behavior with STM and XPS"
Speaker: Nora Hebenstreit

44. American Chemical Society, New Orleans, U.S.A., August 1999
"Treatment-dependent Surface Reconstruction of Fe₃O₄(001)"
Speaker: Barbara Stanka

43. European Conference on Surface Science, Vienna, Austria, October 1999
STM study of surface reconstructions of Fe₃O₄(001)
Speaker: Barbara Stanka

42. Centennial Meeting of the American Physical Society, Atlanta, GA, March 1999
"Scanning Tunneling Microscopy Studies of Fe₃O₄(001) Surfaces"
Speaker: Barbara Stanka

41. Centennial Meeting of the American Physical Society, Atlanta, GA, March 1999
STM and Low-Energy Ion Scattering Study of Pt/TiO₂(110)"
Speaker: Olga Dulub

40. Centennial Meeting of the American Physical Society, Atlanta, GA, March 1999
"Adsorption and Electron Stimulated Desorption of Cl/TiO₂(110)"
Speaker: Wilhelm Hebenstreit

39. International Workshop on Oxide Surfaces, Elmau, Germany, January 1999)
"Activation of Molecular Oxygen on TiO₂(110) By Reaction with Bridging Hydroxyls"
(Michael A. Henderson, William S. Epling, Charles H.F. Peden, and Ulrike Diebold)

38. American Vacuum Society Meeting, Baltimore, November 1998
"Dissociative adsorption and electron stimulated desorption of Cl on TiO₂(110) studied by STM, AES and ISS"
Speaker: Wilhelm Hebenstreit
37. American Vacuum Society Meeting, Baltimore, November 1998
"STM and LEIS Study of Oxygen-Induced Restructuring of Rutile TiO₂(110)(1x1) Surface"
Speaker: Min Li
(This paper has been accepted as a finalist paper for the AVS 'Mort Traum Student Award. Min Li has been granted a travel fellowship of \$500.)
36. US-Japan Symposium on Surface Science, Park City, UT
March 28 - April 4, 1998
"Adsorption of Chlorine on TiO₂(110)"
35. March Meeting of the American Physical Society, Los Angeles, March 1998
"STM Study of Dissociative Chlorine Adsorption on TiO₂(110)"
Speaker: Wilhelm Hebenstreit
34. March Meeting of the American Physical Society, Los Angeles, March 1998
"Annealing a Sputtered TiO₂(110) Surface in Oxygen Induces a Novel Reconstruction"
Speaker: Min Li
33. Materials Research Society Meeting, 1997 Fall Meeting
December 1-5, 1997, Boston, MA
"Strain-related Reconstruction at the Cr/Pt(111) Interface"
32. Materials Research Society Meeting, 1997 Fall Meeting
December 1-5, Boston, MA
"Direct-Space Investigation of Oxygen Point Defects and Chlorine Adsorption on a Rutile TiO₂(110) Surface"
31. 44th Annual Symposium of the American Vacuum Society,
October 20-24, 1997, San Jose, CA
"Oxygen-Induced Reconstruction of a TiO₂(110) Surface: A Scanning Tunneling Microscopy Study"
30. 44th Annual Symposium of the American Vacuum Society,
October 20-24, 1997, San Jose, CA
"Cr-induced Self Organization of Nanostructure on Pt(111) Surface"
Speaker: Lanping Zhang
(This paper has been accepted as a finalist paper for the AVS 'Mort Traum Student Award. Lanping Zhang has been granted a travel fellowship of \$500.)
29. 44th Annual Symposium of the American Vacuum Society,
October 20-24, 1997, San Jose, CA
"Novel Electronic and Magnetic Properties of Ultrathin Chromium Oxide Films Grown on Pt(111)"

Speaker: P.A. Robberts

28. Materials Research Society, 1997 Spring Meeting

March 31- April 4, 1997, San Francisco, CA

"Thermal Segregation of Mg through a 1 μ m Thick Fe₃O₄(001) Film Epitaxially Grown on MgO(001)"

Speaker: John F. Anderson

27. Materials Research Society, 1997 Spring Meeting

March 31 - April 4, 1997, San Francisco, CA

"The Characterization and Reactivity of a Defective TiO₂(110) Surface: An Atomic-Scale STM Study"

Speaker: John F. Anderson

26. Muddy Physics Fest, Southern University,

February 8, 1997, Baton Rouge, LA

"Atomic-scale Pattern Formed through a Cr-induced Strain Relaxation of a Pt(111) Surface"

25. 43rd Annual Symposium of the American Vacuum Society

October 11 - 17, 1996, Philadelphia

"Growth, Structure, and Thermal Stability of Ultrathin Chromium Oxide Films on Pt(111)"

(Speaker: L.P. Zhang)

24. 43rd Annual Symposium of the American Vacuum Society

October 11 - 17, 1996, Philadelphia, PA

"Thermal Stability of Metal Oxide Surfaces: An STM Investigation"

(Speaker: M. Kuhn)

23. American Chemical Society,

March 24 - 27, 1996, New Orleans, LA

"Growth and Alloy Formation of Ultrathin Chromium Films on Pt(111)"

21. American Physical Society, March Meeting

March 18-March 22, 1996, St. Louis,

"Structure and Thermal Stability of Ultrathin Chromium Films on Pt(111)"

(Speaker: LP. Zhang)

20. Materials Research Society, 1995 Fall Meeting

November 27-December 1, 1995, Boston, Massachus

"Platinum Silicide Formation through Si Segregation on Pt(111)"

19. American Vacuum Society, 42nd Annual Symposium

October 16-20, 1995, Minneapolis

"Surface Segregation of Si and Silicide Formation on a Pt(111) Surface"

18. 55th Annual Conference on Physical Electronics

June 3 12-14, 1995, Flagstaff, Arizona

"Structure and Reactivity of an Ultrathin Film of Platinum Silicide on Pt(111)"

17. March Meeting of the American Physical Society,
March 21-25, 1995, San José, California
"Growth and Thermal Stability of Ultrathin Mn Overlayers on a TiO₂(110) Surface Probed with Soft X-rays"
16. 40th Meeting of the American Vacuum Society in Orlando, Florida,
November 15 - 19, 1993
"Growth of Hf Overlayers on TiO₂(110): Formation of a Reduced Interface"
15. March Meeting of the American Physical Society,
Seattle, Washington, March 22 - 26, 1993
"Electronic Structure of Ultrathin Iron Films on TiO₂(110)"
14. 12th International Vacuum Congress
October 12 - 16, 1992, The Hague, Netherlands
"Ultrathin Cu Films on TiO₂(110): Metal Overlayer Spreading and Surface Reactivity"
13. March Meeting of the American Physical Society,
March 16 - 20, Indianapolis, Indiana, U.S.A.
"The Growth Mode of Ultrathin Copper Overlayers on TiO₂(110)"
12. 38th National Meeting of the American Vacuum Society,
Nov. 11 - 15, 1991, Seattle, Washington, USA
"Adsorption and Electron Stimulated Desorption of NH₃/TiO₂(110)"
11. Annual Meeting of the American Chemical Society,
Aug. 26 - 30, 1991, New York, N.Y., USA
"Ultrathin Copper Overlayers on TiO₂(110)"
10. March Meeting of the American Physical Society,
March 12 - 16, 1991, Cincinnati, Ohio, U.S.A.
"Very Low Energy Ion Impact Desorption Cross Sections of CO from Ni(111)"
9. Symposium on Surface Science,
Feb. 11 -15, 1991, Obertraun, Austria
"Sputtering of LiF(100) with Low Energetic Ne⁺ and Ne⁺⁺ Ions"
8. 8th International Workshop on Inelastic Ion Surface Collisions,
Sept. 17 - 21, 1990, Wiener Neustadt, Austria
"Electronic Effects in Sputtering of LiF with Slow Multiply Charged Ions"
7. Symposium on Surface Science,
March 11 - 17, 1990, La Plagne/Savioie, France
"Sputtering with Low Energy Rare Gas Ions (10 - 500 eV)"
6. 4th International Workshop on Desorption Induced By Electronic Transitions,
Oct. 2 - 4, 1989, Gloggnitz, Austria

"Desorption of CO from Ni(111) by low energy ions: influence of mass, angle and charge state"

5. 11th International Vacuum Congress,

Sept. 25 - 29, 1989, Köln, Germany

"Determination of cross sections for desorption induced by ions at very low impact energy"

4. Annual Meeting of the Austrian Physical Society,

Sept. 25 - 29, 1989, Linz, Austria

"Desorption von gasbedeckten Oberflaechen mit Ionen niedriger Energie"

3. Annual Meeting of the German Physical Society,

March 14 - 18, 1988, Karlsruhe, Germany

"Elektronenenergieverlustspektrometrie an Graphit"

2. 10th International Vacuum Congress,

Oct. 27 - 31, 1986, Baltimore, Maryland, U.S.A.

"Angle resolved electron energy loss spectroscopy on graphite"

1. Annual Meeting of the Austrian Physical Society,

Sept. 24 -26, 1986, Innsbruck, Austria

"Winkelaufgelöste Elektronenenergieverlustspektrometrie an Graphit"

COURSES TAUGHT:

At Tulane University:

General Physics I, 131-05 and 131-06 Fall 1993 (120 Students)	PHYS 131
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Graduate Course "Research" Fall 1993 (3 Graduate Students)	PHYS 791
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Graduate Course "Research" Spring 1994 (2 Graduate Students)	PHYS 792
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Independent Study for Undergraduate Physics Majors (Spring 1994, 1 student)	PHYS 491
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General Physics I, 131-05 and 131-06 Fall 1994 (120 Students)	PHYS 131
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Graduate Course "Research"	PHYS 792
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Fall 1994 (4 Graduate Students)

Graduate Course "Surface Science". PHYS 608
Spring 1995 (12 Graduate Students, 6 Auditing Students)

Graduate Course "Research" PHYS 792
Spring 1995 (3 Graduate Students)

General Physics I, 131-03,-04,-05 PHYS 131
Fall 1995 (ca. 60 Students)

Graduate Course "Research" PHYS 791
Fall 1995 (1 Graduate Student)

General Physics II, 132-03, -04, -05 PHYS 143
Spring 1996 (ca. 60 Students)

Graduate Course "Research" PHYS 792
Fall 1995 (1 Graduate Student)

Independent Study for Undergraduate Physics Majors
(Spring 1996, 1 student) PHYS 491

Graduate Course "Research" PHYS 792
Fall 1995 (2 Graduate Students)

Vorlesung "Physik und Chemie von Oxidoberflächen"
Spring 1997, Technische Universität Wien
(15 Students) 135.053

General Physics II, 132-03,-04,-05 PHYS 132
Spring 1998, 57 students

Surface Science PHYS 608
Spring 1998 (16 undergraduate and graduate students)

Graduate Course "Research" PHYS 792
Spring 1998 (1 Graduate Student)

General Physics I, 132-03,-04,-05 PHYS 132
Fall 1998, 60 students

Seminar PHYS 380 PHYS 380
Fall 1998, 10 students

Graduate Course "Research" PHYS 793
Fall 1998 (1 Graduate Student)

General Physics II, 132-03,-04,-05 PHYS 131
Spring 1999, 60 students

Graduate Course "Research" Spring 1999 (1 Graduate Student)	PHYS 794
Solid State Physics Spring 1999 (9 graduate students)	PHYS 713
General Physics I, 131-03 Fall 1999, 60 students	PHYS 131
Seminar PHYS 380 Fall 1999, 8 students	PHYS 380
Graduate Course "Research" Fall 1999 (2 Graduate Students)	PHYS 793
Graduate Course "Research" Spring 2000 (2 graduate students)	PHYS 792
Graduate Course "Research" Fall 2000 (2 graduate students)	PHYS 793
Graduate Course "Research" Spring 2001 (2 graduate students)	PHYS 792
General Physics Spring 2001 (49 student)	PHYS 132-03
Surface Science Spring 2001 (5 students)	PHYS 608
Seminar Spring 2001 (11 students)	PHYS 380
General Physics I, 131-03 Fall 2001 (47 students)	PHYS 131
Graduate Course "Research" Fall 2001 (2 graduate students)	PHYS 791
General Physics II, 132-03 Spring 2002 (47 students)	PHYS 132
Graduate Course "Research" Spring 2002 (2 graduate students)	PHYS 792
Seminar PHYS 380 Spring 2002, 7 students	PHYS 380
Graduate Course "Research"	PHYS 793

Fall 2002 (2 graduate students)	
Graduate Course "Research" Spring 2003 (2 graduate students)	PHYS 794
General Physics II, 132-03 Spring 2003 (47 students)	PHYS 132
Surface Science Spring 2003 (19 students)	PHYS 608
Solid State Physics Fall 2003 (15 graduate students)	PHYS 713
General Physics I, 131-03 Fall 2003 (students)	PHYS 131
Graduate Course "Research" Fall 2003 (1 graduate student)	PHYS 791
Independent Study Fall 2003 (1 undergraduate student)	PHY491-05
General Physics II Spring 2004 (40 undergraduate students)	PHYS 132-03
Seminar PHYS 380 Spring 2004 (8 undergraduate students)	PHYS 380
Graduate Course "Research" Spring 2004 (1 graduate student)	PHYS 792
Graduate Course "Research" Fall 2004 (3 graduate students)	PHYS 791, PHYS 793
Graduate Course "Research" Spring 2005 (3 graduate students)	PHYS 792, PHYS 794
Surface Science Spring 2005 (12 graduated and undergraduate students)	PHYS 608
Introductory Physics I (54 students) Spring 2006	PHYS 121
Seminar (12 students) Spring 2006	PHYS 380
Graduate Course 'Research' (3 students) Spring 2006	PHYS 791, PHYS 793

Seminar (1 student) Fall 2006	PHYS 380
Graduate Course 'Research' (2 students) Fall 2007	PHYS 791, PHYS 793
Surface Science (3 students) Spring 2007	PHYS 608
Seminar (12 students) Fall 2007	PHYS 380

POST-DOCTORAL RESEARCH ASSOCIATES SUPERVISED:

At Tulane: (18 total, 6 → faculty positions)

Pawel Mrozek (Tulane/LEQSF support, now Surface Science Lab, Micron Technologies)
 Markus Kuhn (DoE/NSF support, now Intel)
 Wilhelm Hebenstreit (DoE/NSF support, now OCLI)
 Eleonore L.D. Hebenstreit (DoE support, now U. California, Berkeley)
 John Anderson (LEQSF support, → Faculty at the University of Louisiana at Monroe)
 Matthias Batzill (NSF/NASA support, → Faculty at the University of South Florida, Tampa)
 Igor Kuyanov (DoE support, Center for Nanotechnology, St. Petersburg Academic University)
 Olga Dulub (NSF support, now on maternity leave)
 Lynn Koplitz Vogel (Visiting Professor from Loyola University, NSF support)
 Andreas Klust (NASA support, → Harvard University → private sector)
 Alim Alchagirov (NSF support, → post-graduate education at Berkeley Business School → Wallstreet)
 Yu Wang (Intel support, → Pilkington (Toledo, Ohio))
 Robert Combs (Intel support, → Occidental Petroleum Corporation)
 Yunbin He (DoE → faculty at Hubei University)
 Jianguo Wang (Tulane/DoE support → faculty at Hangzhou University, China)
 Shao-Chun Li (DoE Support, → faculty at Nanjing University, China)
 Gareth Parkinson (NSF Support → Assistant Professor, TU Wien)
 Jasim Uddin (Tulane Research Enhancement Grant, → faculty at The University of Texas Rio Grande Valley, USA)
 Michael Johnson (Intel support → senior scientist, Tulane University)

At TU Wien: (20 total, 8 → faculty positions, → 2 academic positions)

Former:

Zhiming Wang (FWF support, 2012 – 2014, → post-doc with Felix Baumberger, PSI and U. Geneva, → Ningbo University, Zhejiang province, China)

Xianfeng Hao (ERC support, 2013 – 2014, → at Yanshan University, Qinhuangdao, Hebei, China)
 Alexander Riss (2013 – 2014, FWF Schrödinger Rückkehrstipendium, → post-doc, TU München)
 Gareth Parkinson (TU Vienna support → Full Professor, TU Wien)
 Stijn Mertens (TU Vienna support → Reader, U. of Lancaster)
 Zhiyu Zou (FWF FOXSI Support → Post-doc, U. Florida)
 Michele Reticioli (FOXSI → Assistant Professor, University of Vienna)
 Michele Riva (WWTF → Senior Scientist, TU Wien)
 Zhichang Wang (FWF Wittgenstein → Assistant Professor, Xianmen U. China)
 Hao Chen (FWF Wittgenstein → post-doc, UC Berkeley, USA)
 Martin Setvin (ERC Support → Associate Professor, Charles U.)
 Mathias Blatnik (WWTF → post-doc, CEITEC Brno)
 Francesca Mirabella (A-LEAF → post-doc, Bundesanstalt für Materialforschung, Berlin → SPECS)
 Jiri Pavelec (FWF Wittgenstein, → Senior Scientist, TU Wien)
 Christoph Schattauer (FWF; with Florian Libisch, June 2023 – Oct 2023 → A&R Tech, Floridsdorf)
 Margareta Wagner (FWF Richter Grant 2020 – 2023 → Assistant Professor, TU Wien)
 Igor Sokolovic (FWF Support – Martin Setvin, October 2021 – 2022 → Project Assistant, MU Leoben)
 Hao Yin (Marie Skłodowska-Curie Postdoctoral Fellowship – Gareth Parkinson, October 2022-June 2024)

Current:

Matthias Meier (FWF START – Gareth Parkinson)
 Paul Ryan (ERC Support, October 2020 -)
 Giada Francesci (ERC Support, September 2021 -)
 Stefan Uttenthaler (FWF Support, May 2021 -)
 Florian Kraushofer (ERC Support – Gareth Parkinson, November 2021 -)
 Chunlei Wang (FWF Support – Gareth Parkinson, November 2021 -)
 Moritz Eder (Marie Skłodowska-Curie Postdoctoral Fellowship – Gareth Parkinson, February 2022 -)

VISITORS HOSTED:

At Tulane:

Prof. Particio Häberle, Universidad Técnica Federico Santa María, Valparaíso, Chile, March 2004
 Ms. Paola Lascano, Universidad Técnica Federico Santa María, Valparaíso, Chile, May – June, 2004
 Mr. Navid Khorshidi, Max-Planck Institut für Metallphysik, March/April 2007
 Ms. Sara Chamberlin, U. Wisconsin-Milwaukee, March 2007
 Mr. Antoni Tekiel, U. Krakow, Poland, September 2007

At TU Vienna:

Mr. Zoltán Édes (TU Brno, Erasmus, March 2011 – August 2011)
Mr. Giacomo Argentero (U. Torino, January 2012 – July 2012)
Mr. Jan Hulva (TU Brno, Erasmus, February 2013 – August 2013)
Mr. Petr Mareš (TU Brno, Erasmus, February 2013 – July 2013)
Mr. Jonas Gloss (TU Brno, Erasmus, February 2013 – August 2013)
Ms. Ilaria Valeri (Jan 2013 – March 2013, COST STSM)
Ms. Vera Mansfeldova (Charles University, Prague, October 2013 – December 2013, COST STSM)
Prof. Dr. Klaus Wandelt (Univ. Bonn/D, 25.6. – 9.7.2013)
Prof. Dr. Patricio Häberle (Univ. Técnica Federico Santa María/Chile, 8.11. – 7.12.2013)
Dr. Willem Vanderlinden (KU Leuven/Belgien, 25. – 28.11.2013)
Prof. Dr. Jiang-Li Cao (Institute of Advanced Materials and Technology, University of Science and Technology Beijing, November 2013 – February 2014)
MSc. Zhi Li (KU Leuven/Belgien, 11.11.2013 – 28.2.2014)
MSc. Michele Riva (Politecnico Milano, March 3, 2014 – September 29, 2014)
Ms. Jessi van der Hoeven (March 6, 2014 - August 29, 2014)
Mr. Jakub Piastek (TU Brno, Erasmus, February 2014 – August 2014)
Dr. Luis Alejandro Miccio (Materials Physics Center CSIC-UPV/EHU, San Sebastian, Spain, September 2014)
Mr. Michal Horký (TU Brno, Erasmus, February 2015 – July 2015)
Mr. Adam Závodný (TU Brno, Erasmus, February 2015 – July 2015)
Mr. Zdeněk Jakub (TU Brno, Erasmus, February 2015 – July 2015)
Prof. Dr. Patricio Häberle (Univ. Técnica Federico Santa María/Chile, 13.7. – 18.7.2015)
Prof. Bilge Yildiz (MIT, 1.7. 2015 – 31.6. 2016)
Mr. Martin Čalkovský (TU Brno, Erasmus, February 2016 – July 2016)
Ms. Giada Franceschi (Politecnico di Milano, March 2016 – August 2016)
Mr. Oleg Feya, Moscow Institute of Physics and Technology, supported by Scholarship Foundation of the Republic of Austria, Feb – March 2016,
Mr. Mojmír Komora (TU Brno, Erasmus 7.2.2017 – 31.7.2017)
Mr. Michal Andryšek (TU Brno, Erasmus 7.2.2017 – 31.7.2017)
Mr. Tomáš Axman (TU Brno, Erasmus 7.2.2017 – 31.7.2017)
Mr. Michal Horký (TU Brno, Internship Training Program PLD, June 1, 2017 – August 31, 2017)
Dr. Peter Jacobson (Uni Graz, April 2017)
Ms. Corinna Stumm (U. Erlangen, May-June 2017)
Mr. Akash Gadekar Ramesh (U. Singapore, October 2017)
Prof. Melissa Hines (Cornell University, October 19 – December 1, 2017)
Prof. Jian Xu (Chongqing University, Feb 2018-Feb 2019)
Prof. Suwat Nanan (Khon Kaen University, Thailand, June 1 – 30, 2018, Ernst Mach Fellowship)
Mr. David Pokorný (TU Brno, Erasmus 5.2.2018 – 31.7.2018)
Mr. Juraj Bobek (TU Brno, Erasmus 5.2.2018 – 31.7.2018)
Mr. Jakub Urbiš (TU Brno, Erasmus 5.2.2018 – 31.7.2018)Mr.
Mr. Martin Mikula (TU Brno, Erasmus 5.2.2018 – 31.7.2018)
Mr. Tomáš Krajňák (TU Brno, Erasmus 5.2.2018 – 30.6.2018)

Ms. Tjaša Parkelj Advanced Materials Department K9, Jožef Stefan Institut, Slovenia, April 3 – 18, 2018 Dr. Dominik Farka, JKU Linz, 18.-28.9.2018
Mr. Paul Ryan (Diamond beamsource, UK, July 1 – September 30, 2018)
Mr. Chen Hao (Dalian, October 2018 – September 2019)
Ms. Amy Brandt (U. South Carolina, January 2019 – March 2019)
Mr. Radek Caesar (TU Brno, Erasmus, 7.2.2019 – 31.7.2019)
Mr. Martin Štubian (TU Brno, Erasmus, 7.2.2019 – 31.7.2019)
Mr. Jakub Holobrádek (TU Brno, Erasmus, 7.2.2019 – 31.7.2019)
Prof. Jian Xu (U. Chongqing, China, February 2018 – February 2019)
Prof. Edvin Lundgren and Dr. Lindsay Merten (Lund U., April 23– 28, 2019)
Prof. Lutz Hammer (Friedrich-Alexander University, Erlangen/Nürnberg, Mai 2019)
Prof. Bernd Meyer (Friedrich-Alexander University, Erlangen/Nürnberg, Mai 2019)
Mr. Jesús Rubén López Redondo (Czech Academy of Sciences, Nov – Dec 2019)
Prof. Peter Jacobson (U. Queensland, Brisbane, December 2019)
Mr. Jesús Rubén López Redondo (Czech Academy of Sciences, August 1 – 15, 2020)
Prof. Bernd Meyer (Friedrich-Alexander University, Erlangen/Nürnberg, September 17 – 23, 2020)
Mr. Moritz Eder (Technical University Munich, Oct. 1, 2020 – Dec 31, 2020)
Prof. Patricio Häberle (Univ. Técnica Federico Santa María/Chile, 1.1. – 1.1.2021)
Mr. Jakub Jakub Češka (CEITEC Brno, Erasmus, February 1, 2021 – July 30, 2021)
Ms. Lucie Dočkalová (CEITEC Brno, Erasmus, February 1, 2021 – July 30, 2021)
Dr. Dominik Wrana (Charles University, Prague, May 16 – 29, 2021)
Andrea Conti, Erasmus, Uni Milano, Jan – June 2022
Vojtěch Mikerásek, CEITEC and VUT Brno Erasmus student, Feb – July 2022
David Kugler, CEITEC and VUT Brno Erasmus student, Feb – July 2022
Dominik Hrůza, CEITEC and Brno Erasmus student, Feb – July 2022
Jakub Holobrádek, PhD student, CEITEC Brno, Mar 8 – April 14, 2022
Dr. Petr Matvija, Visiting Professor, Charles U., Prague, March 21 – October 1, 2022
Dr. Dominik Wrana, Charles U. Prague, Dec 15, 2022
Llorenc Albons, Charles U., Prague, Dec. 13 – 15, 2022

STUDENT EXCHANGE

Erasmus coordinator, TU Wien - Brno University of Technology (BUT),
2014 –

THESES DIRECTED:

At Tulane: (8 PhD total, 5 → faculty positions, 5 M.Sc. total)

Lanping Zhang, (→ Post-doc, University of Delaware, → entrepreneur)

"Growth, Structure and Properties of Metal and Metal Oxide Films"
(Graduated: May 1998)

Min Li, (→ Research Professor, Yale University)
"Surface Structure and Morphology of $\text{TiO}_2(110)$ Surfaces"
(Graduated July 2000)

Eleonore L.D. Hebenstreit (→ Post-doc, U. Berkeley)
"The Adsorption of Sulfur and Chlorine on the $\text{TiO}_2(110)$ Surface"
(co-advisor with Peter Varga, U. of Technology, Vienna, Austria, Graduated
December 2000)

Barbara Stanka (→ Integrated Logistics Support)
"Investigation of $\text{Fe}_3\text{O}_4(001)$ Oxide Surfaces",
(co-advisor with Peter Varga, U. of Technology, Vienna, Austria, Masters Thesis,
Graduated in March 2000)

Olga Dulub (→ Research Professor, Tulane University)
"Scanning Tunneling Microscopy Study of Clean and Cu-covered Zinc Oxide
Surfaces"
(Graduated in December 2002)

Nancy J. Ruzycki, (→ Post-doc, Colorado State University & U. of Washington,
Seattle, → Senior Lecturer, U Florida, Gainesville)
"Structure and Properties of the Anatase Polymorph of Titanium Dioxide"
(Graduated in December 2003)

T.J. Beck (M. Sc., May 2004, → engineer at Georgia Tech)

Peter Vaughan (M. Sc. May 2006, → graduate student at Georgia Tech)

Khabibuolakh (Bulat) Katsiev (PhD October 2008, → post-doc MIT, → staff member
SABIC)
"Study of SnO_2 : surface properties and Pd adsorption"

Chuandao Wang (M. Sc. January 2010, → graduate student at Northwestern U.)

Yuyan Lin (M. Sc. January 2010, → graduate student at Northwestern U.)

Erie Morales (Ph.D., graduated April 2010, → Stetson University, New Jersey)
"Growth and Surface Characterization of Tin-Doped Indium Oxide Thin Films"

Peter Jacobson (Ph.D. graduated April 2012, → post-doc at MPI Stuttgart, → Assistant
Professor, University of Graz → Assistant Professor, University of Queensland, Australia)
"Defect Structures in Graphene Grown by Chemical Vapor Deposition on $\text{Ni}(111)$ "

At TU Wien:

Diploma/Masters Thesis: (21 total graduated)

1. Bernhard Stöger, 'Growth and Characterization of Graphene Layers on Ni(111)', 2010 – 2011 (→ PhD student, TU Vienna)
2. Daniel Hagleitner, 'Bulk characterization and surface properties of In₂O₃(001) single crystals', 2010 – 2011 (→ Bosch Project Manager R&D, ZKW Group, Wieselburg)
3. Martin Fidler, 'Electron-induced defects on anatase (101)', 2010 – 2011(→ Bosch)
4. Manfred Menhard, 'Surface Investigations of In₂O₃', 2011- 2012, graduated April 18, 2012
5. Stefan Gerhold, 'Investigation of SrTiO₃(001) and (110) Surfaces' 2012 – 2013 (graduated April 17, 2013, → PhD student, TU Wien)
6. Daniel Halwidl, 'Development of an effusive molecular beam apparatus' 2012 – 2014 (graduated June 4, 2014, → PhD student, TU Wien)
7. Benjamin Daniel, 'Surface Studies of TiO₂ Anatase' 2013 – 2014 (graduated November 25, 2014 → PhD student, TU Brno)
8. Peter Lackner 'Studies of Adsorption on In₂O₃(111) Surfaces', 2014 – 2015 (graduated June 10, 2015 → PhD student, TU Wien)
9. Thomas Simschitz, 'Surface studies of photocatalytic reactions of methanol on TiO₂ anatase' (graduated November 23, 2015 → IMS Vienna)
10. Iris Dorner, 'Electrochemical Surface Investigations of TiO₂ Rutile (110)' (graduated in January 2017 → PhD student, TU Wien)
11. Flora Pölzleitner, 'Polarity compensation on KTaO₃(001) surfaces' (graduated November 27, 2017 → IMS Vienna)
12. Jakob Hofinger, 'Pulsed-Laser Deposition of In₂O₃ Thin Films on YSZ(111)' (graduated March 19, 2018 → PhD student, University of Linz)
13. Sebastian Moser, 'Homoepitaxial Growth Experiments of SrTiO₃(110)' (graduated March 19, 2018 → Infineon)
14. Michael Brunthaler, "Pulsed-laser growth of La_{0.8}Sr_{0.2}MnO₃ on SrTiO₃(001)" (graduated June 21, 2022 → Thomastik-Infeld)
15. Sebastian Brandstetter, „Surface Investigation of a FeCr₁₇Ni₁₂(111) Single Crystal as a Model System for Austenitic Stainless Steel“ (graduated October 18, 2022 → Vector Austria)
16. Christian Flasch,“ Kelvin probe force microscopy analysis of microfabricated ion traps“ (graduated August 23, 2023 → Infineon)
17. Matthias Preidl, „ Integrating Transparent Conductors and Optics in Microfabricated Ion Traps to Enable Next-Generation Quantum Computing“ (graduated August 23, 2023 → Start-up company, USA)
18. Florian Dörr „Data Acquisition System for quantitative Low-Energy Electron Diffraction, 12.12.2023 → PhD student, Diebold group)
19. Marie Kienzer “Surfaces of Transition Metal Oxides”, 23.10.2024 → PhD student, Diebold group)
20. Paul Schönggrundner, „Search for crystalline SiO₂ on the wet chemically treated 6H-SiC(0001) surface” 23.10.2024 → PhD student Uni Graz
21. Alexander Hoheneder “Surface Investigations of Wollastonite at the Atomic Scale” 20.1.2025 → ?

PhD Theses (12 total graduated → 3 academic positions):

1. Philipp Scheiber (2010 - 2012), “Defects and Adsorption at Titanium Dioxide Surfaces”, graduated November 29, 2012 (→ AMS Graz)
2. Zbynek Novotny (2010 - 2013) “The Reconstructed $\text{Fe}_3\text{O}_4(001)$ Surface as an Adsorption Template”, graduated September 3, 2012 (→ Scientist, Pacific Northwest National Lab, U.S.A.)
3. Bernhard Stöger (2011 – 2014) “Surface Defects and Adsorption on Strontium Ruthenates”, graduated December 12, 2014 (→ ZKW Group, Wieselburg)
- Jong-Il “Jake” Choi (2012- 2016), Coadvisor, main advisor: Michael Schmid “Studies of Zirconia Surfaces on the Atomic Scale”, graduated April 22, 2016 (→ Post-doc, KAIST, S. Korea)
4. Stefan Gerhold (2013 - 2016) “Surface Reactivity and Homoepitaxial Growth of Strontium Titanate (110)”, graduated June 10, 2016 (→ IMS Vienna)
5. Roland Bliem (2013 - 2016) “Single Metal Adatoms at the Reconstructed $\text{Fe}_3\text{O}_4(001)$ Surface”, graduated ‘sub auspices presidentis’ July 29, 2016 (→ Post-doc, MIT, U.S.A. → Assistant Professor, ARNCL and University of Amsterdam)
6. Oscar Alberto Gamba Vasquez (2012 - 2016) “Surface Chemistry of the $\text{Fe}_3\text{O}_4(001)$ Surface”, graduated October 21, 2016 (→ Lecturer, Universidad de Antioquia, Medellin, Colombia)
7. Daniel Halwidl graduated June 15, 2018 (2014 – 2018, “Surface science investigations of single-crystalline ruthenates” → FTI Consulting)
8. Jan Balajka graduated August 31, 2018 (2013 – 2018, “Interaction of Titanium Dioxide Surfaces with Liquid Water” → Asst. Prof. TU Wien)
9. Jiri Pavelec graduated April 29, 2019 (2011 - 2019 “Surface Chemistry Setup and Adsorption of CO_2 on $\text{Fe}_3\text{O}_4(001)$ ” → Post-doc TU Wien, <http://hdl.handle.net/20.500.12708/8517>)
- Peter Lackner graduated April 29, 2019 (2015 - 2019) „Surface Science Studies on Zirconia Thin Film Model Systems“ (Michael Schmid, co-advisor) → Lieberherr
- Jonas Gloss graduated April 29, 2019 (2015 - 2019) “Metastable Iron-Nickel Thin Films”(Peter Varga, Michael Schmid) → IMS
- Jan Hulva graduated May 29, 2019 (2014 - 2019) “Studies of Adsorption on Magnetite (001) Using Molecular Beams” (Gareth Parkinson) <https://doi.org/10.34726/hss.2019.64000> → ASML
- Zdenek Jakub graduated June 17, 2020 (2016 – 2019) (Gareth Parkinson) “Surface Science studies of Iron Oxides as Model Catalyst Supports” → Marie-Curie Fellow CEITEC Brno. Czech)
10. Giada Franceschi 24.09.2020 (2016 – 2020, “Pulsed Laser Deposition of Functional Oxides with Atomic Scale Control” <https://doi.org/10.34726/hss.2020.78421> → Post-doc Freie Universität Berlin, Germany)
11. Matthias Müllner 17.02.2020 (“Oxides in Aqueous Solution: Stability and Acitivity at the Atomic Scale”, <https://doi.org/10.34726/hss.2021.86622>, 2015 – 2021 → Founder of start-up company ‘Hydrofy’)
- Igor Sokolović September 15, 2021 (2017 -2021, “Complex oxide surfaces studied at the atomic scale with AFM/STM and DFT“, <https://doi.org/10.34726/hss.2021.93124> main advisor: Martin Setvin, → post-doc MU Leoben)
- Florian Kraushofer, 24. September 2021 (2016 -2021, “Iron Oxide Surfaces as Support Materials for Single Atom Catalysis” <https://doi.org/10.34726/hss.2021.87704> advisor: Gareth Parkinson → post-doc TU Munich)
- Saeed Rasoul (2023 – 2024, continued thesis project with Prof. Walter)
- Jakub Planer (2016 - 2021) (graduated Florian Mittendorfer and Josef Redinger)
- Viktor Birschtzky (2020 - 2021) (Cesare Franchini)

12. Erik Rheinfrank, (2020 – 2024, 20.19.2024 (Jürgen Fleig, Bilge Yildiz)“Surface Structures of $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3(001)$ Thin Films“, <https://repositum.tuwien.at/handle/20.500.12708/135732>)
- David Rath – Gareth Parkinson (2019 – 2024, 2. 10. 2024 (Greg Kimmel, Martin Sterrer) “Infrared Reflection Absorption Spectroscopy with Angle Selection”, 10.1063/5.0210860)
- Lena Haager – Gareth Parkinson (2020 – 20.2.2025 (with maternity leave), “Metal-oxide surfaces as a support for model single atom catalysis “Barbara Lechner, Alexei Cherevan)

Panukorn Sombut (2020 –) (Gareth Parkinson)
Ali Rafsanjani (2020 -) (Gareth Parkinson)
Johanna Hütner (2021 -)
Luca Lezuo (2021 -)
Alexander Imre (2021 -)
Andrea Conti (2022 -)
Adam Lagin (2022 -) (Gareth Parkinson)
Faith Lewis (2023 -) (Gareth Parkinson)
David Kugler (2023 -)
Nail Barama (2024 -) (Gareth Parkinson)
Florian Dörr (2024 -)
Sarah Tobisch (2024 -)
Marie Kienzer (2024 -)

UNDERGRADUATE RESEARCH DIRECTED:

At Tulane:

Andrew Poynot
"A Program for Spectroscopic Data Analysis" (Fall 1994)

Leo Gross
“Scanning Tunneling Microscopy Investigations”, Summer 1996

William Sargent
"Construction of an Fe Evaporator", Independent Study, Spring 1997

Jeremiah Lehman, Senior Honor's Thesis
"Investigations of TiO_2 Surfaces Relevant for Remediation Processes", Spring 1998

Talib Mahmoud, Summer LAMP Program, now Grad student at University of Alabama
"Surface Point Defects on $\text{TiO}_2(110)$ ", Summer 1996

Daymond E. Lavine, Summer LAMP Program
"Surface Science and the Construction of a Sulfur Source", Summer 1998

Salah Jadid, Summer LAMP Program
Surface Science and the Construction of a Bromium Source“, Summer 1999

Nathan Webb, 1998 - 2000
"Construction of Surface Science Equipment"

Muhammad Mahmoud, 2001
"Surface Modifications of Titanium Dioxide Materials for Improved Biocompatibility"

Keith Ekstein, 2002, now at L-3 Unidyne
"Sample mounting and temperature calibration of a high pressure sample heater at various background pressures "

Keith Ekstein, 2003
"Surface Studies I"

Laura Linhardt, 2005
"Surface Studies I"

Peter Vaughan, 2005
"Surface Studies I"

Laura Linhardt, 2006
"Surface Studies II"

Laura Linhardt. 2007
"Surface Studies III"

Reader, Honor's thesis, Hunter Sims (Spring 2007)

At TU Vienna:

Bernhard Stöger, Projektarbeit – Untersuchung von Anatas (101) mittels Rastertunnelmikroskopie; Spring 2010
Hannah Moser, Bachelor thesis– Manual SPECS Lab, Fall 2010 (with Gareth Parkinson and Zbynek Novotny)
Sounya Balti-Kmail, Bachelor thesis - Analysis of Ni(111) with STM, Fall 2010
Matthias Schafhauser, Projektarbeit – Design of a current amplifier, Fall 2010 (with Michael Schmid and Paul Berlinger)
Paul Vetschera, Bachelor thesis – Fe evaporated on Fe₃O₄(001) Spring 2011 (with Zbynek Novotny and Gareth Parkinson)
Daniel Hagleitner, Projektarbeit – Surface Properties of Indium Oxide (100) Single Crystals, Spring 2011
Manfred Menhard, Projektarbeit - Analysis of Ca₃Ru₂O₇ with Scanning Tunneling Microscopy, Spring 2011
Benjamin Daniel, Projektarbeit, winter 2013, Fe on TiO₂ anatase (101) (with Martin Setvin)
David Handl, Bachelor thesis, Summer 2013 - Implementation and optimization of an electrospray deposition system (with Jiri Pavelec)

- Iris Dorner, Bachelor thesis, Summer 2013 - STM Untersuchungen der $\text{Fe}_3\text{O}_4(001)$ Oberfläche nach Beschichtung mit Palladium (with Gareth Parkinson)
- Lukas Pernezcky, STM study of Ag on Fe_3O_4 (with Roland Bliem and Gareth Parkinson)
- Matthias Müllner, Projektarbeit, Summer 2013 - Preparation of tips for electrochemical scanning tunnelling microscopy (with Stijn Mertens)
- Sebastian Mair, Bachelor thesis, Summer/Fall 2013 – Setup and Validation of a Rotating (Ring) Disc Electrode (R(R)DE) System (with Stijn Mertens)
- Alexander Stangl, Projektarbeit, Jänner/Februar 2014 - STM Surface Measurements on $\text{In}_2\text{O}_3(111)$ (with Margareta Wagner)
- Peter Lackner, Projektarbeit – Finding a surface model for $\text{Fe}_3\text{O}_4(110)$ (with Gareth Parkinson)
- Florian Brunbauer, Projektarbeit, April 2014 - Molecular Beam Monitor Testing and Operation (with Jiri Pavelec, Gareth Parkinson, and Daniel Halwidl)
- Thomas Simschitz, Projektarbeit, Februar 2014 – Photodissociation of Methanol on Anatase $\text{TiO}_2(101)$ (with Martin Setvin)
- Florian Schmid, Projektarbeit, March 2015, Konstruktion einer Prozesskammer zur Oberflächenbehandlung elektrischen Vermessung von Nanostrukturen (extern, Alois Lugstein, Inst. Festkörperelektronik, Fak. f. Elektrotechnik)
- Monika Budnovski, Bachelor Thesis, 2015 – Adsorption Dynamics of Water on $\text{Sr}_3\text{Ru}_2\text{O}_7$ (with Bernhard Stöger)
- Duc Phan, Bachelor Thesis, January 2016 – TPD Automation on the Mrs, with Gareth Parkinson, Jiri Pavelec
- Sebastian Maaß, Projektarbeit, March 2016 – Water on Magnetite ($\text{Fe}_3\text{O}_4(001)$), with Gareth Parkinson, Jan Hulva
- Florian Kraushofer, Projektarbeit, May 2016 – Atomic-Scale Studies of the Hematite R-cut Surface, with Gareth Parkinson, Roland Bliem
- Jakob Hofinger, Summer 2016 – Para-sexiphenyl on $\text{In}_2\text{O}_3(111)$ with Margareta Wagner
- Katharina Mayer, Winter 2016 – Wet chemical Preparation of $\text{TiO}_2(110)$, with Jan Balajka and Matthias Müllner
- Sebastian Moser, Projektarbeit, Winter 2016/17 – Growth of anatase $\text{TiO}_2(001)$ on $\text{SrTiO}_3(001)$ using pulsed laser deposition, with Michele Riva
- Flora Pölzleitner, Projektarbeit, Winter 2016/17 - VO_2 surface structure and analysis, with Margareta Wagner
- Manuel Ulreich, Bachelorarbeit, Winter 2016/17 - Europium Distribution and the Crystal Structure of NaI:Eu^{2+} , with Martin Setvin
- David Rath, Projektarbeit, Winter 2016/17 - Surface charakterisation of Rutile $\text{TiO}_2(011)$ and development of a photo-electrochemical cell, with Matthias Müllner
- Stephan Steinhauer, Projektarbeit, Winter 2017/18, In-situ TEM of Pd/PdO nanoparticles supported on CuO nanowires (extern)
- Christopher Kearny, Bachelor Thesis, Summer 2018, Preparation of TiO_2 Rutile (110) for EC Measurement
- Rosmarie Schöffbeck, Bachelor Thesis, Summer 2019, Preparation of Yttrium Titanate (111) Substrates for Indium Oxide Growth
- Nora Hackstock, Bachelor Thesis, Summer 2020, Growth of Gamma-Alumina on SrTiO_3 Substrates
- Alexander Hoheneder, Bachelor Thesis, Fall 2021, Effects of cleaving conditions on bulk-terminated $\text{SrTiO}_3(001)$ surfaces, (Igor Sokolovic)

Paul Schönggrundner, Summer 2023, Effects of Surface Treatments on Two Polymorphs of SiC, (Igor Sokolovic)

HONORS AND AWARDS TO DIEBOLD'S STUDENTS AND CO-WORKERS:

- June 2000* Nora Hebenstreit and Min Li compete as Nottingham Award Finalists at the 60th Annual Conference on Physical Electronics, Baton Rouge, La
- June 2001* Nancy Ruzyski is selected by the Department Energy, Basic Energy Sciences, to attend the meeting of Nobel Laureates in Lindau, Germany
- Nov. 2001* Nora Hebenstreit is selected as a Mort Traum Award Finalist at 48th American Vacuum Society Meeting, San Francisco, CA
- Nov. 2002* Olga Dulub is selected as a Mort Traum Award Finalist at the 49th American Vacuum Society Meeting in Denver, Colorado
- Fall 2003* Jimi Burst receives a Graduate Alliance for Education in Louisiana (GAELA) fellowship
- June 2005* Jimi Burst is selected by the National Science Foundation Mathematical and Physical Sciences Directorate (NSF MPS) to attend the meeting of Nobel Laureates in Lindau, Germany, in June 2005
- Spring 2006* Fellowship for Undergraduate Research from Newcomb College to Laura Linhardt
- April 2006* WAESO Conference Award Scholarship to Laura Linhardt
- May 2007* Laura Linhardt is named a 'Newcomb Scholar'
- March 2008* Peter Jacobson is awarded a Travel Award to attend the Summer School, "Modern Concepts for Creating and Analyzing Surfaces and Nanoscale Materials" in Barcelona, Spain
- April 2008* Peter Jacobson is awarded the Best Student Presentation Award at the Annual User's Meeting of the Center for Advanced Microstructures and Devices (CAMD) in Baton Rouge, Louisiana
- June 2009* Peter Jacobson is selected to attend the Annual Meeting of Nobel Laureate Meeting in Lindau, Germany
- July 2012* Zbynek Novotny is selected to attend the Annual Meeting of Nobel Laureate Meeting in Lindau, Germany
- September 2012* Zbynek Novotny is selected as a finalist for the ECOSS Student Prize Session, ECOSS-29, Edinburgh 2012

- June 2015* Dr. Gareth Parkinson wins the START Prize of the Austrian Science Fund (Eight of these awards are given out each year in all areas of fundamental research, connected with an unrestricted research grant of 1.2 M € over 6 years)
- June 2015* Dr. Margareta Wagner wins the Herta-Firnberg Fellowship of the Austrian Science Fund (3-year grant to funds research towards habilitation for women)
- August 2015* Roland Bliem wins the ‘Best Poster Award’ at the Suncat Summer School at Stanford, U.S.A.
- January 2016* Dr. Zbynek Novonty wins the Loschmid Prize of the Austrian Physical Chemical Society (1-2 per year for the best dissertation in physics or chemistry).
http://www.tuwien.ac.at/aktuelles/news_detail/article/9899/
- March 2016* Dr. Martin Setvin is a runner-up for the ‘Gerhard Ertl Prize’ at the German Physical Society Spring Meeting in Regensburg
- June 2016* Roland Bliem receives the ‘Christian Doppler Prize of Land Salzburg’
http://service.salzburg.gv.at/lkorj/Index?cmd=detail_ind&nachrid=56686
- May 2017* Roland Bliem graduates ‘sub auspices presidente’ with highest honors
- September 2017* Jan Hulva is selected to participate in the Mort M. Traum competition at the AVS Meeting in Tampa, Florida
- November 2017* Assoc. Professor Gareth Parkinson receives the ‘Kardinal Innitzer Förderpreis’ for his habilitation
https://www.tuwien.ac.at/aktuelles/news_detail/article/125429/
- March 2018* Assoc. Professor receives the Gaede Preis of the German Vacuum Society
- January 2020* Jan Balajka wins the Loschmid Prize of the Austrian Physical Chemical Society (1-2 per year for the best dissertation in physics or chemistry).
- November 2019* Asst. Prof. Martin Setvine receives the ‘Kardinal Innitzer Förderpreis’ for his habilitation
- December 2019* Assoc. Prof. Gareth Parkinson receives an ERC Consolidator Grant
- January 2020* Giada Franceschi receives Best Poster Prize at IWOX-12
- March 2020* Margareta Wagner receives a Elise-Richter Award from the FWF
- December 2020* Peter Lackner wins the Loschmid Prize of the Austrian Physical Chemical Society (1-2 per year for the best dissertation in physics or chemistry).
- February 2021* Jakub Zdenek wins a Marie Curie Grant
- February 2021* Manuel Ulreich wins ÖPG Student Prize

- July 2021* Lena Haager wins Poster Prize at the Clustermeeting in Prague
- October 2021* Lena Haager wins AVS Student Prize
- December 2021* Lena Haager wins Franz Viehböck Young Investigator Award
- September 2021* Lena Haager wins Best Presentation Prize at IVC in Sapporo
- September 2021* Igor Sokolovic wins ‘Best Oral Presentation Prize’ at ECOSS-35
- September 2021* Florian Kraushofer wins ‘Best Dissertation Award’ at ÖPG Meeting in Leoben, Austria
- March 2023* Giada Franceschi wins ‘Peter Varga Poster Prize’ at 3S’23
- Mai 2023* Michael Schmid wins the ICSOS Structure Prize
- June 2023* Moritz Eder wins the ‘Vacom Sustainability Award’
- September 2023* Igor Sokolovic wins ‘Best Dissertation Award’ at ÖPG/SPG Meeting in Basel, Switzerland
- September 2023* Erik Rheinfrank wins ‘Best Poster Prize’ at the ncAFM Conference in Singapore
- November 2023* Alex Imre is a runner-up for the Morton M. Traum Award at the 69th AVS Meeting in Portland, Oregon
- November 2023* Panukorn Sombut wins “Fundamental Discoveries in Heterogeneous Catalysis Graduate Student Award” the 69th AVS Meeting in Portland, Oregon
- December 2023* Alexander Syböck wins the ‘Franz Viehböck Young Investigator Award’
- February 2023* Former Masters student Sebastian Moser graduates ‘*sub auspices presidentae republicae*’ from Montanuniversität Leoben
- July 2024* Giada Franceschi is awarded an ‘Elise Richter’ Fellowship from FWF
- November 2024* Johanna Hütner wins the Morton M. Traum Award at the 70th AVS Meeting in Portland, Oregon

ADVISING SERVICE:

Newcomb College Freshmen and Sophomore Advisor
1993, 1994, 1995, 1996, 1998, 1999

THESIS COMMITTEES:

Snehashish Gosh, Tulane Physics	1994	
Shane Stadler, Tulane Physics	1998	
Fernando Fondeur, Tulane Chemical Engineering	1998	
Robert Winarski, Tulane Physics	1999	
Yan Zidan, Tulane Physics	2000	
Albert Davis, Tulane Physics	2000	
Rachel L. Marcus, Tulane Chemical Engineering	2001	
Alim Alchagirov, Tulane Physics	2002	
Gina Sorci, Tulane Physics	2002	
James Burst, U. of New Orleans, Physics	2003	
Alina Alb, Tulane Physics	2004	
A. Kazghery, Tulane Physics	2004	
Joseph Hooper, Tulane Physics	2006	
Aaron Peterson, Tulane ChemE, Master's Thesis	2007	
Hunter Sims, Tulane Honor's Thesis	2007	
Lucinda Pringle, Tulane Physics and Chemistry	2008	
Jianwei Sun, Tulane Physics	2010	
David Fobes, Tulane Physics	2010	
External Examiner, Ph.D. Thesis of Rasmus Westerström, Lund University	2010	
External Examiner, Ph.D. Thesis of Praveen Kumar, Indian Institute of Science and Technology, New Delhi, India	2011	
External Examiner, Hongliang Zhang, Oxford University		2011
Diploma Thesis, Gilbert Hangel, TU Vienna Physics		2011
Dissertation, Stefan Krivec, Second Examiner, TU Vienna Chemistry		2011
Dissertation, Andreas Haghofer, Second Examiner, TU Vienna, Materials Chemistry	2012	
Dissertation Margareta Wagner, Second Examiner, Karl-Franzens-Universität Graz Physics	2012	
Dissertation Simon Bonnani, Thesis Committee, EPFL, Switzerland	2012	
Opponent, Natalia Martin, Lund University, Sweden	2014	
Dissertation Giulia Serrano, Univerita di Roma 'Tor Vergata'	2015	
Dissertation Michele Riva, Politecnica di Milano	2015	
Larisa Chizhova (DK+ Thesis Committee)	2016	
Eamon McDermott (DK+ Thesis Committee)	2016	
Ghislain Rupp (DK+ Thesis Committee)	2016	
Liang Si (DK+ Thesis Committee)	(2016)	
Dilek Demir (TU Wien Chemistry)	2018	
Matteo Rozaz (TU Wien, Chemistry)	2018	
Verena Pramhas (TU Wien, Chemistry)	2019	
Nevzad Yigit (TU Wien, Chemistry)	2019	
Andreas Nagl (TU Wien, Chemistry)	2019	
Kishor Upadhyaya (Visvevsaraya Technology University)	2020	
Kraen Adamsen (Arhus University, Denmark, Opponent)	2020	
Tjaša Parkelj Potočnik (Jožef Stefan International Postgraduate School, Ljubliana, Slovenia)	2021	
Maximilian Morgenbesser (TU Wien, Chemistry)	2021	

Yorick Birkhölzer (University of Twente)	2022
Thomas Haunold (TU Wien, Chemistry)	2022
Maximilian Raab (TU Wien, Chemistry)	2023

DEPARTMENTAL SERVICE (TULANE):

Laboratory Supervisor Search Committee	1994
Faculty Search Committee	1997
Faculty Search Committee	1998
Ad-hoc Building Committee	1996
Graduate Committee	1998 -
Improvement of the Undergraduate Laboratories	1998 -
Organizer and Chair, Departmental Seminar	1998 -
Course Coordinator, Calculus-based Introductory Physics Course, and Algebra-based Introductory Physics Course	2001-
Executive Committee	2002 -
Associate Chair	2003-
Head, Search Committee	2005, 2006, 2007

SERVICE TO THE UNIVERSITY (TULANE)

Committee on Tulane College (nominated, but not elected, 1994)	
Steering Committee, Claire Booth Luce Professorship, 1999	
Committee on Committees (nominated, but not elected, 2001)	
University Senate's Committee on Computing,	2001 - 2010
Search Committee, Dean of Tulane's Graduate School, 2001	
Liaison Committee, Tulane Engineering College	2001-
Liberal Arts and Sciences Grievance Committee	2003 – 2006
Graduate School Honor Board	2004 - 2010
Graduate School Honor Board Investigative Committee, 2005 - 2010	
Liberal Arts and Sciences Tenure and Promotions Committee	
	2005-2006
Advisory committee to the Associate Senior Vice President of Research (Project Related Housing and Travel Expenses) January 2006	
Faculty Advisory Committee, Newcomb College Institute	
	July 2006 – 2010
Nomination Committee, School of Science and Engineering, 2006 – 2008	
University Senate	2006 – 2009
Presidential Early Career Award Selection Committee 2007 - 2009	
Senate Committee on Educational Policy	
	2007 – 2009
School of Science and Engineering Promotion and Tenure Committee, 2009 - 2010	

COMMITTEE SERVICE TU Wien (Intern):

Senatsmitglied	WS 2010, SS 2011, WS 2011, SS 2012, WS 2012, SS 2013, WS 2013, SS 2014, WS 2014, SS 2015, WS 2015, SS 2016, WS 2016, WS 2017, SS 2017, WS 2018, SS 2019
Fakultätsrat	SS 2010, WS 2011, SS 2011, SS 2012, WS 2012, SS 2013, WS 2013, SS 2014, WS 2014, SS 2015, WS 2015, SS 2016, WS 2016, SS 2017, WS 2017, SS 2018, WS 2019, SS 2019
Studienkommission Doktorat	SS 2010, WS 2010, SS 2011, WS 2011, SS 2012, WS 2012, SS 2013, WS 2016, SS 2017, WS 2018
Studienkommission Technische Physik	SS 2010, WS 2010, SS 2011, WS 2011, SS 2012, WS 2012, SS 2013, WS 2013, SS 2014, WS 2014, SS 2015, WS 2015, SS 2016, WS 2016, SS 2016, WS 2017, SS 2017, WS 2018, SS 2018
Berufungskommission Professur Biophysik (Vorsitz)	SS 2010
Berufungskommission Professur Theoretische Festkörperphysik	WS 2015
Berufungskommission Professur Nfg. Schubert	WS 2014, SS 2015
Berufungskommission Professur Applied Interface Physics (Vorsitz)	SS 2015, WS 2016
Berufungskommission Professur Topologische Materialien	
Berufungskommission Professur Quanten	
Auswahlkommission Laufbahnstelle Festkörperphysik	SS 2012
Auswahlkommission Laufbahnstelle Theoretische Quantenoptik (Ersatzmitglied)	
Auswahlkommission Laufbahnstelle Oberflächenphysik (Vorsitz)	
Habilitationskommission Neouze	WS 2011, SS 2012
Habilitationskommission Toschi	SS 2012
Habilitationskommission Stöger-Pöllach	WS 2011, SS 2012
Habilitationskommission Mittendorfer (Vorsitz)	WS 2012, SS 2013
Habilitationskommission Föttinger	SS 2013, WS 2013
Habilitationskommission Khmelevskyi	WS 2014, SS 2015
Habilitationskommission Stöger	SS 2016, WS 2016
Habilitationskommission Parkinson (Vorsitz)	SS 2016, WS 2016
Habilitationskommission Mertens (Vorsitz)	SS 2017
Habilitationskommission	
Core Team TU Vision 2025+	WS 2013, SS 2014, WS2014, SS2015, WS2015, SS 2016, WS 2016, SS 2016, WS 2017, SS 2017, WS 2018, SS 2019,

COMMITTEE SERVICE TU Wien (Extern):

Berufungskommission Oberflächenphysik, Karl-Franzens Universität Graz
WS 2012, SS 2013

Delegiertenversammlung FWF (Ersatzmitglied) WS 2012, SS 2013, WS
2014, SS 2014, WS 2015, SS 2016, WS 2016
Berufungskommission Experimentelle Quantenphysik, Universität Innsbruck
SS 2017
Habitationskommission Thomas Berger, Universität Salzburg
SS 2017
Berufungskommission Low-dimensional Transport and Technology, Universität Wien
SS 2017, WS 2017/18
Berufungskommission Nanooptics, Universität Graz SS 2019, WS 2019/20
Habitationskommission Gerhard Sinn, Universität für Bodenkultur, SS 2020

PROFESSIONAL SERVICE / COMMISSIONS OF TRUST:

Membership in juries, senates, and advisory councils

Kuratorium, Jubiläumsfonds der Stadt Wien für die Österreichische Akademie
der Wissenschaften (2021 – 2025)
International Referee, Division 2, SNSF Research Council, Switzerland,
1.10.2020 – 31.3.2021
Member, Expert Panel – Physics and Engineering Discipline, Academic
Research Fund (AcRF) Tier 2, Ministry of Education, Singapore,
2020 – 2024
Member, Scientific Advisory Board, Advanced Research Center for
Nanolithography (ARCNL), Amsterdam, The Netherlands, 2020
– 2023
Member, Scientific Board, CEITEC Brno, 2019 -
Member, Advisory Board, J. Heyrovsky Institute of Physical Chemistry, Prague,
Czechia, 2018 –
Member, Juryteam of the “Staatspreis Consulting - Ingenieursconsulting” 2017,
2019
Member, Advisory Board of Partnergroup of the Max-Planck-Society (Fernando
Stavale, 2017-)
Member, Scientific Advisory Board, Kardinal Innitzer Studienfonds (2016 -)
Member, Scientific Advisory Council, Helmholtz Zentrum Berlin, 2014 - 2017
Mitglied Vergabekomitee, L’Oreal Österreich Forschungstipendien, 2014
Senate, Christian Doppler Forschungsgesellschaft, 2014 – 2022

Leadership roles in professional societies

Vice President, Austrian Academy of Sciences (2022 – 2027)
American Academy of Arts and Sciences Class I, Section 3 (Chemistry)
Membership Panel (2023-)
Election Committee, Chemistry Section, Academia Europaea, member 2022 - ,
chair 2023 -
Member, ACS National Award Selection Committee (2023-2025 award cycle)
Member Selection Committee, Stern-Gerlach Prize of the German Physics
Society (DPG), 2021 - 2023
Member, Vorstandsrat Deutsche Vakuumgesellschaft (2019 – 2022)
Representative of Germany, Surface Science Section of the International
Vacuum Society IUVESTA (2019 – 2022)

Member, Commission on Structure and Dynamics of Condensed Matter (C.10) of the International Union of Pure and Applied Physics (IUPAP) (1st Jan 2018 - 31st of Dec 2020)

Officer, European Academy of Sciences, Materials Science Division (2017 – 2020)

Deputy Member, “Akademierat”, Austrian Academy of Sciences (2016 – 23.9.2021)

Member, “Kommission für die Vergabe des Erwin-Schrödinger-Preises und des Elisabeth-Lutz-Preises”; Austrian Academy of Sciences (2017 – 2021)

Member, Search Committee, President of the Austrian Academy of Sciences (2016)

German Physical Society (DPG), Section Surface Physics, Vice Chair (2016 – 2018, Chair 2018 - 2020)

Mitglied im Vorstand, Chemisch Physikalische Gesellschaft, 2014 - 2016

Head, Surface, Interface, and Thin Film Division of the Austrian Physical Society, 2014 – 2016

Member, Theodore E Madey Memorial Award, American Vacuum Society AVS, 2015 –

Executive Committee, Surface Science Division, American Vacuum Society, 1998 – 2001

American Physical Society, Selection Committee for the David Adler Lectureship Award (2006, 2007)

American Physical Society, Nominating Committee for the Division of Material Physics (2006 - 2007)

Editorial Activities

Member, Editorial Advisory Board, *Applied Surface Science* (2021 -)

Member, Editorial Advisory Board, *Materials Horizons* (2021 -)

Member, Editorial Advisory Board, *Small Science* (2020 -)

Member, Board of Reviewing Editors, *Science* (2020 -)

Member, Editorial Board, *Physical Review Research* (2019 – 2021)

Member, International Advisory Board, *njp Quantum Materials* (2016 –)

Member, Editorial Advisory Board, *ACS Energy Letters* (Jan. 2017 – Dec. 2019)

Member International Advisory Board, *Advanced Materials Interfaces* (2013 – 2018)

Divisional Associate Editor (Materials Physics), *Physical Review Letters* (2012 – 2014, 2015 – 2017)

Member Editorial Board, *Surface Science* (2010 – 2015)

Member Editorial Board, *Surface Science Reports* (2004 -)

Member Editorial Board, *Journal of Physics: Condensed Matter* (2006 – 2010)

Member Editorial Board, *The Open Physical Chemistry Journal* (2007 – 2010)

Member of Advisory Reader Panel, *Nature* (2008 -2010)

Guest Editor (together with G. Rupprechter), “*Functional Oxide Surfaces and Interfaces*”, Special Issue in *Surface Science*, 2018-19

Guest Editor (together with A. Selloni and C. Di Valentin), “*Doping and Functionalization of Semiconducting Metal Oxides*”, Special Issue in *Chemical Physics*, 2006 – 2007

Guest Editor (together with T. Orlando, “*Non-Thermal Processes on Surfaces. Dedicated to the Memory of Prof. Theodore E. Madey*” Special Issue in *J. Phys.: Cond. Matter*, 2009)

Conference Organization

- Organizer, together with Martin Sterrer and Paolo Luches, International Workshop on Oxide Surfaces, IWOX-14, Schladming, Austria, January 14 – 19, 2024, <https://oxide-surfaces-2024.uni-graz.at/en/>
- Organizer, together with Karsten Reuter, [SurfaceScience21](#), online conference of the Surface Science Division of the German Physics Society (DPG), March 1 – 4, 2021 (>800 participants)
- Organizer (responsible for the Surface Science Division, > 900 abstracts), German Physical Society (DPG) Spring Meeting, Dresden, Germany, March 15 – 20, 2020, cancelled last minute due to pandemic
- Organizer (together with Fritz Aumayr) of the 33rd Symposium on Surface Science, 3S '20, March 1 - 7, 2020, St. Christoph/Arlberg, Austria)
- Organizer ESI Workshop (together with Irene Fonseca and Paolo Piovano) “Modeling of Crystalline Interfaces and Thin Film Structures: a Joint Mathematics-Physics Symposium”, Erwin-Schrödinger-Institute, Vienna, Austria, November 11 – 15, 2019
- Organizer (responsible for the Surface Science Division, > 800 abstracts), German Physical Society (DPG) Spring Meeting, Regensburg, Germany, March 31 – April 5, 2019
- Organizer (together with Fritz Aumayr and Peter Varga) of the 31st Symposium on Surface Science, 3S '18, February 25 – March 3, 2018, St. Christoph/Arlberg, Austria)
- Organizer (together with Fritz Aumayr and Peter Varga) of the 29th Symposium on Surface Science, 3S'16, February 21 - 27, 2016, St. Christoph/Arlberg, Austria)
- Organizer (together with Gottfried Strasser and Gareth Parkinson), Joint Austrian/Swiss Physics Society Meeting, September 2 – 4, 2015, TU Wien, Vienna, Austria
- Organizer (together with Fritz Aumayr and Peter Varga) of the 27th Symposium on Surface Science, 3S '14, March 10 – 15, 2014, St. Christoph/Arlberg, Austria)
- Organizer (together with Fritz Aumayr and Peter Varga) of the 25th Symposium on Surface Science, 3S '12, March 11 – 16, 2012, St. Christoph/Arlberg, Austria)
- Organizer (together with Art Baddorf, Dietrich Hesse, Andrew Rappe, Nayoe Shibata) Symposium for the 2010 MRS Spring Meeting on “Structure-Function Relations at Perovskite Surfaces and Interfaces”
- Organizer (together with Thom Orlando), International Workshop on Desorption Induced by Electronic Transitions, DIET XII, Spring 2009
- Organizer (together with Kieron Burke) of the “Tulane DFT Fest: celebrating the achievements of Prof. John Perdew (New Orleans, March 2008)

Organizer (together with A. Selloni and M. Batzill), Focus Session entitled
“Materials for photovoltaic and photocatalysis”, March Meeting
of the American Physical Society, March 2008, New Orleans
Organizer (together with D.W. Goodman and D. Jennison), 2nd International
Workshop on Oxide Surfaces IWOX-2, Taos, New Mexico,
January 2001
Local Organizing Committee, 60th Physical Electronic Conference, Baton
Rouge, LA, Spring 2000

Conference Organization – Advisory Boards

Programme Committee 17th European Vacuum Conference (EVC-17) and
European Conference on Surface Science (ECOSS-37) 24-28
June 2024, Manchester, UK.
Advisory/Scientific committee ECOSS-36 which will be organized 28/08 –
01/09/2023 in Lodz, Poland.
Scientific Committee Member for E-MRS Symposium ‘O’, Poland - Warsaw -
September 13-17, 2020
Advisory Board, San Luis Conference and School on Surfaces, Interfaces, and
Catalysis, August 2021 in San Luis, Argentina
International Advisory Board, European Conference on Surface Science,
ECOSS 2020, Luxembourg
International Advisory Board, International Workshop on Surface Physics
(IWSP-2019), Trzebnica, Poland
International Advisory Board, Summer School 9 Skal, 2019-
Scientific Committee, Symposium „Advanced Oxide Materials – Growth,
Characterization and Applications” European Materials Research
Society (E-MRS) Fall Meeting, Warsaw, Poland, 18-21
September 2017
International Advisory Board (IAC) of the 32nd European Conference on Surface
Science (ECOSS-33), Szeged, Hungary, August 27 – September
1, 2017
International Advisory Board, International Workshop on Surface Physics
(IWSP-2017), Wroclaw, Poland
International Program Committee, ICES15, the International Conference on
Electron Spectroscopy and Structure, Stony Brook University,
USA Sept 28th - Oct 2nd, 2015.
International Advisory Committee (IAC) of the 31th European Conference on
Surface Science (ECOSS-31), Barcelona (Spain), August 31th --
September 4th, 2015.
International Advisory Committee, Symposium ‘Computational Photocatalysis
II’ at the National ACS Meeting in Indianapolis, IN, USA, Sept 8
– 12, 2013
International Advisory Board, 13th CIMTEC, Montecatini Terme, Tuscany, Italy,
June 2014
International Advisory Committee, European Conference on Structure
Determination (ECSCD), 2011 - 2017
International Advisory Committee, International Conference on the Structure of
Surfaces (ICSOS), 2012 - 2017

International Scientific Advisory Board, Symposium on Surface Science, 3S, 2011 -
International Scientific Board, International Workshop on Oxide Surfaces IWOX-3, Japan, 2003; IWOX-4, France/Italy 2005; IWOX-5, Lake Tahoe, U.S.A, IWOX-8, Baqueira-Beret, Spain 2012
International Scientific Board, WS-17, Avila, Spain, 2005
International Advisory Board for 24th European Conference on Surface Science (ECOSS), September 4-8, 2006, Paris, France.
International Advisory Board for the ‘International Conference on Nanophotonics, ICON-Russia 2009’, St. Petersburg, Russia, June 21 – 28, 2009
International Program Committee, Conference on Surfaces and Interfaces of Materials (SIM’2009 & SIM’2010), Shenzhen, China, Nov. 15 - 18, 2009 & Nov 5 – 8, 2010)
International Scientific Committee, SGS2010 workshop Krakow, Poland, Sept 12 – 16, 2010
International Advisory Committee, TiO₂-15 & AOT’s-16, Town & Country Resort, San Diego, California, USA November 15-18, 2010
International Program Committee, ICSFS-15, Beijing, China, Oct. 5 – 10, 2010
International Advisory Committee (IAC) for the International Conference on the Structure of Surfaces, ICSOS-10, Hong Kong, 2011
International Advisory Committee, 242nd ACS Meeting, Denver, CO, Aug 28 – Sept 1, 2011, COMP Division, Symposium ‘Computational Modeling of Photocatalysis and Photo-induced Charge Transfer Dynamics on Surfaces’
International Advisory Board, DIET XIII, July 2 – 6, 2012, Stratford, England
International Advisory Board, Symposium on Surface Science, 3S (annual conference), 2011 –
International Advisory Committee, ACS National Meeting, Indianapolis, 2013, COMP Division, Symposium on “Photocatalysis and titania nano-materials” (organizer Dmitri Kilin)
General Committee of the Physical Electronics Conference (2006 – 2009)

User committees at large experimental facilities

Elected member, CAMD (Center for Advanced Microstructures and Devices) User’s Committee (2005 – 2007)
Proposal Review Committee (PRC) for the Molecular Foundry (MF) at U.C. Berkeley

Evaluation committees - academic and research institutions

Member, Evaluation Committee, Debye Institute, Utrecht University, Netherlands, 2022
Member, Evaluation Committee, Paul-Drude-Institute, Berlin, Germany, 2021
Elector, 1920 Professorship of Physical Chemistry, Cambridge University, 2021
Member, Appointment Committee, Directorship of Fritz-Haber Institute of Max-Planck Society, 2019
Member, Advisory Board, Max-Planck-Gesellschaft Partner Group, Centro Brasileiro de Pesquisas Físicas (CBPF), Rio de Janeiro, November 2017

Member, Appointment Committee, Directorship of Fritz-Haber Institute of Max-Planck Society, 2015
Vice-Chair, International Evaluation Committee, Physics Department, TU Munich, October 2016
Member, International Evaluation Committee, Materials Science Department, ETH Zürich, November 2016
Reviewer, Center for Individual Nanoparticle Functionality, Technical University of Denmark, Fall 2014
Member, Evaluation Committee of FB 'Materials Science', Technische Universität Darmstadt, Germany (December 9 – 11, 2014)
Reviewer of the Physics Department at the University of Texas, San Antonio, August 17 – 18, 2006

Evaluation committees – funding agencies

Czech Ministry for Higher Education, Youth and Sports, Assessment Panel Large Infrastructure Initiative (2021)
Niedersachsen Excellence Initiative, 2020
Ministry of Education, Singapore, Academic Research Funding Tier 2 Expert Panel (2020)
Swiss National Science Foundation (SNSF), Division 2 SNSF Research Council, International Referee (1.1.2020 – 31.3.2021)
European Research Council (ERC), Synergy Grant Initiative 2018
European Research Council (ERC), Advanced Investigator Grant Initiative, Panelist, Panel PE 4 (Physical and Analytical Chemical Sciences), 2008, 2010, 2012, 2015
Committee of Visitors for the Materials Sciences and Engineering Division in the Department of Energy Office of Basic Energy Sciences, March 31 – April 2, 2009, Germantown, MD
NSF Review Panel (CEMRI and IRG, November 2010)
Advisory Board, U. Nebraska-Lincoln/U. Puerto Rico-Humacao PREM Proposal (contact: Luis G. Rosa)

Evaluations of promotion, tenure, and hiring cases:

Reviewer of tenure package for the University of New Orleans, 2002
Reviewer of tenure package for the University of New Orleans, 2006
Reviewer of promotion package for the University of New Orleans, 2007
Reviewer of promotion package for Rutgers University, 2004
Reviewer of tenure package for the University of Central Florida, 2007
Reviewer, Associate Professor Applications for Search Committee, Lund University, Sweden, May 2008
Reviewer, Full Professor Promotion Packet, Princeton University, May 2008
Reviewer, Full Professor Promotion Packet, Yale University, October 2008
Reviewer, Full Professor Promotion Packet, Louisiana State University, October 2008
Reviewer, Volkswagenstiftung (contact: Ms. Anja Fließ), Lichtenberg Professorship, Jascha Repp, Uni Regensburg, 2011
Reviewer, City University of Hongkong (contact: Johnny Chan) application package for Associate Professorship, April 2011

Reviewer, Stanford University (contact: Johnny Chan) application package for Full Professorship, June 2011

Reviewer, Promotion package Tufts University (contact: Mary Jane Shultz), Summer 2012

Reviewer, Application packages, Full Professorship, Bochum University, Fall 2012

Reviewer, Promotion package, Rutgers University, Fall 2012

Reviewer, Tenure Package, MIT, Winter 2013

Reviewer, Tenure Package, Brookhaven National Laboratory, Spring 2015

Reviewer, Appointment Committee, Max-Planck-Gesellschaft, Spring 2015

Reviewer, Habilitationspreis des Deutschen Verbandes der Chemischen Industrie, Spring 2015

Reviewer, Promotion to Full Professor, MIT, Summer 2017

Reviewer, Promotion to Full Professor, Imperial College London, Spring 2020

Reviewer, Promotion to Full Professor, Baylor University, Summer 2021

Reviewer, Promotion to Associate Professor, Jozef Stefan institute, Ljubljana, Fall 2021

Hiring Committee, Full Professor, Technical University of Denmark (DTU), Spring 2022

Hiring Committee, Professorship of Physical Chemistry, Cambridge University (2022)

NSF Panel Review, University of Maryland, February 2003; MRI/IMR panel May 2005; Margin Panel Analytical and Surface Chemistry, May 2006, CEMRI/IRG Panel Division of Materials Research, November 2010

Reviewer, User's Proposals - Center for Advanced Microstructures and Devices, CAMD, Baton Rouge

Reviewer, User Proposals – SSRL

Chaired sessions at the March Meeting of the American Physical Society, 1993, American Vacuum Society, 1997, American Vacuum Society, 1998, American Vacuum Society 1999, IVC-15/ AVS-48/ ICSS-11 2001, IWOX-2, AVS-52 2003, ACSIN-7 2003, AVS-53 2004, IVC-17 2007, etc.

Session Moderator, Gordon Conference ‘Chemical Reactions at Surfaces’, Ventura, CA, February 2007

Consultant to Duke Energy Technologies, Inc., U.S.A.

Consultant to NovaSic Corporation, France

Consultant to Goodrich Co, U.S.A.

Consultant to Medtronic Inc., Mn, U.S.A.

Consultant to Stanford’s Global Climate and Energy Project (GCEP) (proposal review)

Consultant to the University of San Antonio, Texas (Review of Physics Department)

Consultant to European Research Council (Pre-proposal Review; Proposal Stage I Review)

Scientific Advisory Board of TheoPaste, a start-up company

Scientific Advisory Board, MRSEC University of Wisconsin/Madison

Consultant to Navarro Research and Engineering, Inc. for Solar Energy Technologies Program, U.S. Department of Energy (Proposal Review, DUNS number 80-821-4493)

SERVICE TO THE COMMUNITY:

Meeting of the Louisiana Board of Regents' Committee of Sponsored Programs, Baton Rouge, Louisiana, March 20, 2002, Report on the Traditional Enhancement Project "Enhancing Research and Education in Nanoscale and Thin-Film Science"

Hosted visit in my research lab by students from a local elementary school (Lusher), (January 2004 and January 2007); Outreach session at Lusher Elementary School – optical instruments (May 2005);

Panelist, Faculty Science Panel, organized by Women in Science, Newcomb College, March 25, 2004

Advisory Board, Newcomb Children's Center (2003- 2005)

Nominator, Heinz Foundation, 14th Annual Heinz Awards

Presentation to and Discussion with Tulane's Women in Science General Body Meeting, January 24, 2008

Organisation of the 'Lise Meitner Lecture':
2013 Jocelyn Bell-Burnel,
2015 Cornelia Denz
2017 Niola Spaldin
2020 Claudia Draxl (cancelled due to Covid-19)
2023 Donna Strickland (upcoming)

Mentorship:

TU Mentorship program (Mentees Anna Kauch, 2021- 23, Theresia Knobloch 2023)
Hao Yin (MSCF Fellowship)
Roland Bliem (Schrödinger Fellowship)
Margareta Wagner (Firnberg and Richter Fellowships)
Alex Riss (Schrödinger Fellowship)
Scientific Advisory Board Hydrofy (Start-up company by former PhD student Matthias Müllner)

OUTREACH AND MEDIA:

'Science Talk', ORF III, 4. 10. 2013

Kunstverein Wien (Alte Schmide): Podiumsdiskussion "Macht und Selbstbewusstsein", Wien, 16. 11. 2013

Vortrag, HTL Mödling – Rastertunnelmikroskopische Untersuchungen von Oberflächen oder: Kann man Atome den sehen?, Mödling, 17. 12. 2013

Vortrag, BRG Waidhofen/Ybbs – April 26, 2014:

„Oberflächen- und Nanowissenschaften oder: Kann man Atome denn sehen?“

Wittgenstein Akademie, Wien, June 23, 2014:

„Oberflächen- und Nanowissenschaften oder: Kann man Atome denn sehen?“

Salzburger Frauensalon, St. Virgil, Salzburg, June 25, 2014

„Verliebt ins Atom: wenn Physik zur Leidenschaft wird“

https://www.stadt-salzburg.at/internet/leben_in_salzburg/frauen/frauensalon.htm

Vortrag, Klub Logischer Denker, Café Benno, 7. 10. 2015, Wien,

„Oberflächenphysik: Kann man ein einzelnes Atom sehen?“

<http://www.k-l-d.at/kld/>

FFG –ERC AdG Training Session, Haus der Wissenschaft, 20 April 2016-04-20,

„ERC AdG from different angles: reviewer, panelist, applicant, grantee“

Fachschaft Physik, TU Wien, HS5, 16. June 2016

„Was Physiker nach dem Studium so machen“

„Wissensdurst“, Wien, May 17, 2017

„Oberflächenphysik - wie man einzelne Atome anschauen kann“

<http://www.wissensdurst-festival.at>

GENERA Gender in Physics Day, Panel discussion, May 24, 2017-01-20

TU Wien, TUtheSky

<https://genera-project.com/index.php/gender-in-physics-days>

Rotary Club Mödling, Maria Enzersdorf, 17. Oktober 2017

„Oberflächenphysik - wie man einzelne Atome anschauen kann“

Frauenfest TU Wien, November 28, 2017

Podium Discussion „Role Models“

2018-04-09 You-Tube Video

Vibration isolation: cheap, simple, and effective up to highest standards

<https://www.youtube.com/watch?v=bSVFqAQ-r74>

Infotag Physik, TU Wien, 7.11.2018

„Atome auf Oberflächen: Anschauen, Bewegen, Analysieren“

https://www.physik.tuwien.ac.at/outreach/infotag_technische_physik/

Curator, Research Area Materials Science, Be OPEN Science & Society

Festival, FWF, Sept 5-212, 2018

<https://www.fwf.ac.at/de/ueber-den-fwf/be-open-science-society-festival/>

Evaluator, Österreichische Studienstiftung (December 2019)

<https://www.oeaw.ac.at/studienstiftung/>

Interview, ORF, Oe1, Punkt Eins: EU Wissenschaftsförderung, 27.7.2020

<https://oe1.orf.at/programm/20200727/605259/Frugal-forschen>

Presentation and discussion within „Stunde der Philantropie“ (28.9.2020)

Organizers: WWTF – Verband für gemeinnütziges Stiften - Bank Austria

<https://www.stiftungsevent.at>

Gerhard-Ertl Lecture (10.12.2020), awarded by the Fritz-Haber-Institute of the Max-Planck Society, the Universities in Berlin, BASF, and Syncat, Video hosted by the Fritz-Haber-Institute

<https://youtu.be/8Q6Hqx4lAHk>

Festvortrag, Preisverleihung Physikolympiade, 1.3.2023, BRG Glasergasse Wien

„Was die Welt zusammenhält“, FWF-Oe1 Gespräch (Partner: Marc Elsberg, Moderator: Günter Kaindlstorfer), March 2, 2022, Abendgespräch vor Publikum und Radioübertragung

<https://radiokulturhaus.orf.at/artikel/691492/NEU-Was-die-Welt-zusammenhaelt>

http://redir.fwf.ac.at/lnk/AUkAAE34BNAAAAAAAAAAAAAI3n1m0AAAAAti0AAAAAAAz8yABiF19a5q31Lc28R_2uW8VQmd3xZQAM9mo/3/29hceS7o0kKM6yA3s3SgrQ/aHR0cHM6Ly93d3cuZndmLmFjLmF0L2RlL25ld3MtcHJlc3NlL25ld3MvbmFjaHJpY2h0L25pZC8yMDIyMDIyMw

<https://oe1.orf.at/programm/20220502/678111/Was-die-Welt-zusammenhaelt>

Videodreh ,Vienna Scientific Cluster – VSC5’, Arsenal, September 1, 2022

Podiumsdiskussion

„Karriereplanung: Hindernisse und Förderung“

At the DPG SKM Tagung, Regensburg, September 9, 2022

Mein Bezirk.at

Wie funktionieren eigentlich Windräder?

https://www.meinbezirk.at/c-politik/wie-aus-windraedern-strom-in-die-steckdose-kommt_a5776144

December 2022

FWF Women’s Circle, Podiumsdiskussion, Frauenkarrieren in Wissenschaft und Wirtschaft, 30.11.2023

<https://www.fwf.ac.at/aktuelles/detail/frauen-und-karriere-das-war-der-1-womens-circle-des-fwf>

FemChem Scientific Workshop, TUtheSky, TU Wien, 27.2.2024

Surface Science Investigations: An Atomic-Scale View of Oxide Surfaces

<https://femchem.chemie.tuwien.ac.at/index.php/5th-scientific-workshop/>

PRESS RELEASES, NEWSPAPER ARTICLES, SOCIAL MEDIA:

2024-09-13 (Sarah Link)

Das Rätsel der Aluminiumoxid-Oberfläche

<https://www.tuwien.at/tu-wien/aktuelles/news/news/das-raetsel-der-aluminiumoxid-oberflaeche>

The insulator unraveled

<https://www.tuwien.at/en/tu-wien/news/news-articles/news/das-raetsel-der-aluminiumoxid-oberflaeche>

2024-01-9 (Florian Aigner)

Der Stein, der Wolken macht

<https://www.tuwien.at/tu-wien/aktuelles/news/news/der-stein-der-wolken-macht>

The rock that creates clouds

<https://www.tuwien.at/en/tu-wien/news/news-articles/news/der-stein-der-wolken-macht>

2023-01-25 (Florian Aigner)

Die letzten Geheimnisse des Glimmers

<https://www.tuwien.at/tu-wien/aktuelles/news/news/die-letzten-geheimnisse-des-glimmers>

The Last Mysteries of Mica

<https://www.tuwien.at/en/tu-wien/news/news-articles/news/die-letzten-geheimnisse-des-glimmers>

2022-08-12 (Stefan Uttenthaler)

“Vielfältige Elektronenzustände”

<https://www.tuwien.at/tu-wien/aktuelles/news/news/vielfaeltige-elektronenzustaende>

2022-04-04 (Florian Aigner)

“Das Platin Rätsel”

<https://www.tuwien.at/tu-wien/aktuelles/news/news/das-platin-raetsel>

“The Platinum Riddle”

<https://www.tuwien.at/en/tu-wien/news/news-articles/news/das-platin-raetsel>

2021-03

US Embassy in Austria, social media campaign celebrating Women's History Month, Testimonial “Women of Courage”

<https://twitter.com/usembvienna/status/1373939024646320129>

<https://www.instagram.com/p/CMrgzKrhHix/>

<https://twitter.com/usembvienna/status/1377297399027220486>

<https://www.instagram.com/p/CNFqCBihkle/>

<https://www.facebook.com/USEmbVienna/posts/10158042644005994>

2020-12-06, TU Wien (Florian Aigner)

Ulrike Diebold gewinnt den Gerhard Ertl Lecture Award

<https://www.tuwien.at/tu-wien/aktuelles/news/news/ulrike-diebold-gewinnt-den-gerhard-ertl-lecture-award/>

2020-10-12, TU Wien (Florian Aigner)

Wenn Mensch und Maschine dieselbe Idee haben

<https://www.tuwien.at/tu-wien/aktuelles/news/news/wenn-mensch-und-maschine-dieselbe-idee-haben>

When Humans and Machine Agree

<https://www.tuwien.at/en/tu-wien/news/press-releases/news/when-human-and-machine-agree/>

2020-06-09, TU Wien (Florian Aigner)

Atome Streicheln für Fortgeschrittene

<https://www.tuwien.at/tu-wien/aktuelles/news/news/atome-streicheln-fuer-fortgeschrittene/>

How go gently caress atoms

https://www.eurekalert.org/pub_releases/2020-06/vuot-htg060420.php

2020-03-31, TU Wien (Florian Aigner)

ERC Grant für Ulrike Diebold

<https://www.tuwien.at/tu-wien/aktuelles/news/news/erc-grant-fuer-ulrike-diebold/>

2019-12-09, TU Wien (Florian Aigner)

Wissenschaftspreis für Ulrike Diebold

<https://www.tuwien.at/tu-wien/aktuelles/news/news/wissenschaftspreis-fuer-ulrike-diebold/>

2018-08-23, TU Wien (Florian Aigner)

Der sauberste Wassertropfen der Welt

https://www.tuwien.ac.at/aktuelles/news_detail/article/126147/

The world's cleanest water droplet

https://www.tuwien.ac.at/en/news/news_detail/article/126147/

2018-06-27, TU Wien (Florian Aigner)

Brücken bauen mit Wassermolekülen

https://www.tuwien.ac.at/aktuelles/news_detail/article/126038/

Building bridges with water molecules

https://www.tuwien.ac.at/en/news/news_detail/article/126038/

2018-04-09, TU Wien (Florian Aigner)

Das Hochleistungsmikroskop am Bungee-Seil

https://www.tuwien.ac.at/aktuelles/news_detail/article/125759/

A High-Performance Microscope Dangling from Bungee Cords

https://www.tuwien.ac.at/en/news/news_detail/article/125759/

2018-02-06, Welt der Physik, Interview

<https://www.weltderphysik.de/gebiet/materie/news/2018/ein-wunderschoenes-selbstorganisiertes-labyrinth/>

2018-02-02, TU Wien (Florian Aigner)

Was macht der Kristall, wenn man ihn spaltet?

https://www.tuwien.ac.at/aktuelles/news_detail/article/125584/

Strange Things Happen when a Crystal is Split in Two

https://www.tuwien.ac.at/en/news/news_detail/article/125584/

2017-06-09, Expert Statement for Science Media Center

Titanoxid als Karzinogen eingestuft – keine Panik!

<https://www.sciencemediacenter.de/alle-angebote/rapid-reaction/details/news/titandioxid-als-moeglicherweise-krebserregend-ingestuft/>

2017-03-14, TU Wien (Florian Aigner)

Sauerstoff zum Ein- und Ausschalten

http://www.tuwien.ac.at/aktuelles/news_detail/article/124821/

2016-10-26, Neue Kronenzeitung p.57 (Interview mit Tobias Micke)

“Das Oberflächliche zählt”

2016-10-05, Falter (Interview mit Eva Konzett)

Ermächtigt euch der Welt durch eure Intelligenz

https://www.falter.at/archiv/FALTER_201610057639B95CF5/ermachtigt-euch-der-welt-durch-eure-intelligenz

2016-07-27, TU Wien (Florian Aigner)

Einsame Atome glücklich vereint

http://www.tuwien.ac.at/aktuelles/news_detail/article/10221/

2016-03-15, Neue Kronenzeitung (Ulrike Diebold), Dienstag, 15. März 2015, p. 40 Krone der Wissenschaft ‘Atome unter dem Mikroskop’

2015-11, Falter 42b/15, Heureka (Ulrike Diebold)

Gastkommentar: Vorbild Schweiz

<https://www.falter.at/heureka/20151014/vorbild-schweiz/f3aadb0131>

2015-12-21, TU Wien (Florian Aigner)

Oberflächenphysik: Wie das Wasser tanzen lernt

http://www.tuwien.ac.at/aktuelles/news_detail/article/9859/

2015-09-16, TU Wien (Florian Aigner)

Platinum allein macht nicht glücklich

http://www.tuwien.ac.at/aktuelles/news_detail/article/9663/

2014-12-05 TU Wien (Florian Aigner)

The Finer Details of Rust

http://www.tuwien.ac.at/en/news/news_detail/article/9207/

2014-04-09, TU Wien (Florian Aigner)

Sauerstoff mag Metalloxid-Kanten

https://www.tuwien.ac.at/aktuelles/news_detail/article/8732/

2014-03-04, TU Wien (Florian Aigner)

Electronics Based on a Two Dimensional Electron Gas

http://www.tuwien.ac.at/en/news/news_detail/article/8663/

2013-08-30, TU Wien (Klaus Wassermann)

A completely new atomic crystal dynamic of the white pigment titanium dioxide discovered

http://www.tuwien.ac.at/en/news/news_detail/article/8348/

2013-07-04, TU Wien (Florian Aigner)

Wissenschafts- und Forschungsminister zu Gast bei Wittgenstein-Preisträgerin Ulrike Diebold

http://tuwien.ac.at/aktuelles/news_detail/article/8294/

2013-06-17, TU Wien (Florian Aigner)

Wittgenstein-Preis für Ulrike Diebold

http://www.tuwien.ac.at/aktuelles/news_detail/article/8252/

2013-06-07, TU Wien (Florian Aigner)

The Dance of the Atoms

http://www.tuwien.ac.at/en/news/news_detail/article/8236/

2013-04-05, TU Wien (Florian Aigner)

Adamson-Award für Ulrike Diebold

http://www.tuwien.ac.at/aktuelles/news_detail/article/8128/

2012-05-10, TU Wien (Florian Aigner)

Ulrike Diebold und Günther Rupprechter in die ÖAW gewählt

http://www.tuwien.ac.at/aktuelles/news_detail/article/7541/

2012-05-30, TU Wien (Florian Aigner)

Der feinste Goldstaub der Welt

http://www.tuwien.ac.at/aktuelles/news_detail/article/7558/

2012-01-31 TU Wien (Florian Aigner)

Bis an die Oberfläche und noch viel, viel weiter

http://www.tuwien.ac.at/aktuelles/news_detail/article/7380/

2011-03-15, TU Wien (Florian Aigner)

Oberflächenforschung mit Tiefgang

http://www.tuwien.ac.at/aktuelles/news_detail/article/6883/

SCIENTIFIC COLLABORATIONS DURING THE LAST 5 YEARS:

(not up-to-date)

Lynn A. Boatner, Oak Ridge

Annabella Selloni, Princeton University

Cristiana DiValentin, Milano, Italy

Christof Wöll, U. Bochum, Germany, now Karlsruhe Institute of Technology

Richard D. Gonzalez, Tulane University Chemical Engineering

Zhiqiang Mao, Tulane University Physics Department

Patricio Häberle, Universidad Técnica Federico Santa María, Valparaíso, Chile

Andreas Stierle, Max-Planck Institut für Metallphysik, Stuttgart, Germany

Xueqing Gong, East China University of Science & Technology, Shanghai,

David Sholl, Georgia Tech

Antonio Tilocca, University College London

Janarthanan Jayawickramarajah, Tulane University Chemistry

Bernd Meyer, U. Erlangen/Nürnberg

Jerry Spivey, Phil Sprunger, Rich Kurtz, Ward Plummer, Louisiana State
University Baton Rouge

Günther Rupprechter, TU Vienna Materials Chemistry

Ulrich Schubert, TU Vienna Materials Chemistry

Jürgen Fleig, TU Vienna Materials Chemistry

Peter Blaha, TU Vienna Materials Chemistry

Michael Schmid, TU Vienna Applied Physics

Peter Varga, TU Vienna Applied Physics

Josef Redinger, TU Vienna Applied Physics

Raimund Podlucky, University of Vienna

Cesare Franchini, University of Vienna

Georg Kresse, University of Vienna

Andreas Schmid, Lawrence Berkely National Lab

Juan de la Figuera, Instituto de Quimica-Fisica Rocasolano, Madrid, Spain

Paola Luches, University of Modena, Italy

Rossitza Pentcheva, University of Munich

Ladislav Kavan, Heyrovski Institute, Prague

Klaus Wandelt, University Bonn

Claudio Goletti, Università di Roma Tor Vergata

Klaus Kern, MPI Stuttgart

Michael Reichling, Universität Osnabrück

Enrique Ortega, Universidad del País Vasco, Spain

Joost Vandevondele, ETH Zürich

Lutz Hammer, Universität Erlangen

Ulrich Aschauer, ETH Zürich

Roman Caudillo, Intel

Edvin Lundgren, Lund University

Dawn Bonnel, U Penn

Ward Plummer, Louisiana State University