

INVITED TALKS

A) Invited, Keynote, and Plenary Talks at Conferences:

138. 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"
(upcoming)
137. 5th Ito International Research Center (IIRC) Conference "Forefront of Molecular Dynamics at Surfaces and Interfaces: from a single molecule to catalytic reaction", Tokyo, Nov. 20 – 23, 2017
"TBA"
(upcoming)
136. AVS Meeting, Session "Oxides in Nanotechnology", Tampa, Florida, October 30, 2017
"Oxide Surfaces: Structure, Adsorption, Growth"
(upcoming)
135. 5th Ito International Research Center (IIRC) Conference "Forefront of Molecular Dynamics at Surfaces and Interfaces: from a single molecule to catalytic reaction", Tokyo, Nov. 20 – 23, 2017
"TBA"
(upcoming)
134. Bonner Humboldt-Preisträger-Forum "Fundamental Concepts and Principles of Chemical Energy Conversion" Bonn, October 11 – 14, 2017
(upcoming)
133. Keynote Talk, Europacat 2017, Florence, Italy, 27 - 31 August 2017
"Model Systems for Catalysis: Single Crystal Oxide Surfaces"
(upcoming)
132. 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"
(upcoming)
131. 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"
(upcoming)
130. Plenary Opening Talk, Conference on Applied Surface Science June 12-15, 2017, Dalian, China
"Surface Science of Oxides: Fundamental Insights Relevant for Applications"
(upcoming)
129. 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"
128. LEIS User Meeting CEITEC, Brno, Czech Republic, May 15-17, 2017
"Using Ion Spectroscopies for Unraveling Atomic-Scale Processes Relevant for Solid Oxide Fuel Cells"

127. American Physical Society March Meeting, New Orleans, Louisiana, March 12 -17, 2017
"Surface Investigations of Selected Perovskite Oxides"
126. Workshop on Superconductors and Novel Materials , Obertraun, February 12 – 18, 2017
"Surface Science Investigations of Oxides"
125. Symposium on Surface and Nanoscience (SSNS'17), Furano, Japan, January 11 – 17, 2017
"Surface Structure and Adsorption on $In_2O_3(111)$ "
124. International Conference Nanocon 2016, Brno, Czech Republic 19 – 21 October 2016
"Surfaces of Metal Oxides, Viewed at the Nanoscale"
123. 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"
122. 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"
121. 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"
120. 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"
119. Keynote Speaker, 49th Heyrovsky 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"
118. German-Brazilian Workshop on Applied Surface Science, Maresias, Brazil, April 10-15, 2016
"Atomic-Scale Investigations of Oxide Surfaces"
117. Physikakademie Erlangen, 16 – 18. März 2016
"Scanning Tunneling Microscopy at Oxide Surfaces: 'Watching' Atoms and Molecules, one-by-one"
116. Overview Talk, DPG Frühjahrstagung, Regensburg, February 2016
"Surface Structure and Reactivity of Selected Perovskite Oxides"
115. Symposium on Surface and Nano Science 2016, January 13 – 17, 2016, Furano, Japan
"Surface Structure and Reactivity of Selected Perovskite Oxides"
114. International Workshop on Oxide Surfaces, IWOX-X, Dalian, China, January 10 - 15, 2016
"The $Fe_3O_4(001)$ Surface as a Model for Single-Atom Catalysis"
113. African Materials Research Society Meeting, Accra, Ghana, December 6-11, 2015
"Surface Studies of Metal Oxides" and "Homoepitaxial PLD Growth of $SrTiO_3(110)$ -4x1: A Surface Science Perspective"
112. 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"

111. COST Action 'Reducible Metal Oxides', Salzburg, October 22-23, 2015
"Epitaxial Growth and Surface Structures of SrTiO₃(110)"
110. 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. 15, 2015 Berlin, Germany
"Adsorption of Water on Single-Crystal Metal Oxide Surfaces"
109. Plenary Lecture XIII Brazilian Material Research Society Meeting, XIV SBPMAT Conference, Rio de Janeiro (Brazil), Sept. 27 –Oct. 1, 2015
"Surfaces of Metal Oxides"
108. 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"
107. 7th International Workshop on Surface Physics (IWSP-2015), 22-25 June 2015, Wroclaw, Poland
"Atomic-scale Studies of Metal Oxide Surfaces"
106. 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"
105. International FOXSI Symposium, May 11 – 13, 2015
"Surface Science of Perovskites"
104. 30th Workshop on Novel Materials and Superconductors, February 8-14, 2015, Obertraun, Austria
"Oxide Surfaces at the Atomic Scale"
103. Keynote 583rd WE-Heraeus-Seminar on "Electrochemical Surface Science", 18 - 22 January, 2015, Physikzentrum Bad Honnef
"Water Adsorption at Oxide Surfaces"
102. 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"
101. Keynote - International Conference on the Structure of Surfaces, ICSOS-11, July 21 – 25, 2014 Warwick, UK
"Structure and Adsorption at Oxide Surfaces"
100. Keynote, 15th Joint Vacuum Conference, Vienna, June 15 – 20, 2014
"The Many Faces of Titanium Dioxide"
99. ViCOM Conference, February 26 – 28, 2014, Vienna, Austria
"Back to Reality: Surfaces Investigated with STM and Spectroscopic Techniques"
98. Keynote, International Workshop on Oxide Surfaces, IWOX-IX, January 2014, Granlibakken Conference Center, Tahoe City, USA
"News from TiO₂: subsurface vacancies, oxygen adsorption, and polarons at TiO₂ anatase (101)"
97. Plenary Talk 7th International Conference of the Africa Materials Research Society, Addis Ababa, Ethiopia, December 8-13, 2013
"Atomic-Scale Processes at Metal Oxide Surfaces"

96. 6th Czech-Austrian workshop: New trends in photo and electro catalysis
"Surface Science Model Studies of Photocatalytic Materials"
95. Symposium Forschergruppe "funCOS", November 26, 2013, Erlangen
"Adsorption at Oxide Surfaces, Probed in Real Space"
94. Keynote, CECAM Workshop, Functional Oxides for Emerging Technologies, Bremen, Germany, October 14 – 18, 2013
"Scanning Tunneling Microscopy of Metal Oxide Surfaces with Atomic Resolution"
93. International Vacuum Congress IVC-19, Paris, September 8 – 13, 2013
"Single-atom Processes on Metal Oxide Surfaces"
92. SUNCAT Summer School on Catalysis for Energy Transformations, SLAC National Accelerator Laboratory, Menlo Park, August 24 – 31, 2013
"Surface Science of Oxides"
91. Hayashi Conference: Next decades of Surface Science, July 16 - 20, 2013, Shonan Village Center, Hayama (near Tokyo)
"The Surface Science of Metal Oxides: Progress, Challenges, Opportunities"
90. Gordon Research Conference on Chemical Reactions at Surfaces, Les Diablerets, Switzerland, April 28 - May 3, 2013
"Surface Science: At the Interface between Physics and Chemistry"
89. Keynote talk, Gordon Research Seminar, Les Diablerets, Switzerland, April 26 - 27, 2013
"Surface Chemistry: Progress, Challenges, Opportunities"
88. Adamson Award Lecture, 225th American Chemical Society Meeting, New Orleans, Louisiana, April 9, 2013,
"The surface science of titania, and other metal oxides"
87. 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?"
86. SpinGraph Meeting, Vienna, November 21-22, 2012
"STM studies of Graphene on Ni(111)"
85. American Ceramic Society 2012, Sosman Award Symposium honoring Prof. Dawn Bonnell, Pittsburgh, PA, October 10, 2012
"Scanning Tunneling Microscopy of Metal Oxides"
84. American Chemical Society, Philadelphia, August 2012
"Surface electronic structure and chemistry of a metal oxide: Fe₃O₄(001)"
83. 2012 Brazilian Meeting in Condensed Matter Physics, Aguas de Lindoia, SP Brazil, May 14 – 18, 2012
"Defects, Molecules, and Nanostructures at Metal Oxide Surfaces"
82. Conference on the Frontiers in Simulations of Materials and Catalysis, Shanghai, April 5, 2012
"Surface Studies of TiO₂"

81. Plenary Keynote Talk, German Physics Society Meeting, Berlin, Germany, March 25 – 29, 2012
“Scanning Tunneling Microscopy of Defects, Adsorbates, and Nanostructures at Oxide Surfaces”
80. Workshop on Novel Materials and Superconductivity, Planneralp, February 11 – 18, 2012
“Surface Science Investigations of Metal Oxides: Looking with STM and Understanding with DFT”
79. International Workshop on Oxide Surfaces, Baqueira-Beret, Spain, January 15 – 20, 2012
“STM investigations of pure and Sn-doped In_2O_3 surfaces”
68. Bunsen Discussions Meeting, ‘Photocatalysis’, Heidelberg, October 12 – 14, 2011
“The Surfaces of a Prototypical Photocatalyst: TiO_2 ”
67. 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”
76. CECAM Workshop on Understanding Structure and Functions of Reducible Oxide Systems-a Challenge for Theory and Experiment, Zaragoza (Spain), June 20-23, 2011
“Structural, Electronic, and Adsorption Properties of the $\text{Fe}_3\text{O}_4(001)$ Surface”
75. 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”
74. Workshop on Gas Sensors, Tübingen, June 6-7, 2011
“The surface structure and reactivity of transparent conducting oxides”
73. Materials Research Society Meeting, San Francisco, April 22 – 29, 2011
‘Organic Molecules on TiO_2 ’
72. 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”
71. 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
70. EMRS Meeting September 13 -17, 2010, Warsaw: Symposium on Semiconducting Oxides
“The Surface Structure of Epitaxial $\text{ITO}(111)$ and (100) Thin Films”
69. TiO_2 CECAM Meeting, Bremen, Germany, Sept 6 – 10, 2010
“Adsorption and Reactions at the Anatase (101) Surface”
68. ECOSS-27, Groningen, August 29 – Sept 3, 2010
“Organic Molecules on TiO_2 surfaces”
67. NSOS Workshop, Matrei St. Michael, Tirol, Austria, June 20 – 22, 2010
“Surface Science Investigations of Metal Oxides: An Overview”

66. Telluride Workshop, Telluride, CO, July 26 -30, 2010
A. Surface Studies of TiO₂ Anatase”
B. Adsorbate-driven Metallization of the Fe₃O₄(100) Surface”
65. 56th International AVS Meeting, San Jose, Ca, Nov 8 – 13, 2009
“Metal Oxide Surfaces: Defects, Dopants, and Reactivity”
64. 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”
63. “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”
62. 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”
61. 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”
60. 55th International AVS Meeting, Boston, MA, Oct 23, 2008
“Defects on TiO₂ Anatase (101) are located Subsurface”
 (Post-deadline talk)
59. 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)”
58. 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”
57. 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”
56. NSF-EPSCoR Workshop on Ferroelectric and Multiferroic Materials and Nanostructures, U.
 Arkansas Fayetteville, August 18 – 19, 2008
“Surface Science of Metal Oxides”
55. 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”
54. 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”
53. Institute of Science and Technology, Vienna, Austria, Symposium: Frontiers in Materials Science,
 April 25/26, 2008
“Semiconducting Metal Oxides: Surfaces, Interfaces, and Nanostructures”

52. Tulane School of Science and Engineering Research Day, April 10, 2008
Outstanding Researcher Award Presentation
"Surface Science: From Atoms to Applications"
51. American Physical Society March Meeting, New Orleans, LA, March 10 – 14, 2008
"Tailoring Surface Reactivity of Metal Oxides"
50. Spring Meeting of the German Physical Society, Berlin, February 25 – 29, 2008
"The surfaces of bulk semiconducting metal oxides"
49. 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"
48. 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)"
47. 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"
46. ACS National Spring Meeting, Symposium honoring Profs. Freund, Koel, Yates, and Campbell, Chicago, March 25-29, 2007
"Surface Investigations of Semiconducting Metal Oxides"
45. 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"
44. 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"
43. 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"
42. 52nd Symposium of the American Vacuum Society, Boston, MA, Oct 5 – Nov 30, 2005
"Structure, defects, and adsorption on metal oxide surfaces"
40. Workshop on Opportunities in Nanocatalysis, Brookhaven National Laboratory, October 19 – 21, 2005
"Surface Structure and Reactivity of Titanium Dioxide"
39. 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"

36. 8th International Conference on the Structure of Surfaces, ICSOS-8, Munich, Germany, 18-22 July 2005.
"Structure and Stoichiometry at Metal Oxide Surfaces"
35. 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"
34. DoE/BES Catalysis Program Contractor's Meeting, Rockville Maryland, May 18 – 21, 2005
"Surface Science Investigations of Titanium Dioxide: Relevant for Photocatalysis?"
33. Austrian Scientists and Scholars in North America, ACSINA 2005, Vienna, Austria, April 27 – 29, 2005
"Nanoscience and Surfaces: Watching Atoms with Scanning Tunneling Microscopy"
32. American Chemical Society Meeting, San Diego, March 22, 2005
"Growth and Properties of Oxide-supported Nanoclusters"
31. Jahrestagung der Österreichischen Physikalische Gesellschaft, Linz, Austria, September 28 –30, 2004
"The surface structure of TiO₂(110)-(2x1)"
30. 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"
29. 7th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-7), Nara, Japan, 16-20 November, 2003
"Atomic-scale properties of oxide surfaces"
28. Gordon Conference on Chemical Reactions at Surfaces, Ventura, California, February 16 - 21, 2003
"Scanning Tunneling Microscopy Studies of Semiconducting Metal Oxides"
27. Chemical Physics of Nanostructured Surfaces, Workshop Schloß Ringberg/Tegernsee, Germany, Sept. 29 - Oct. 05, 2002
"Nanostructures and Surface Reactivities of TiO₂"
26. Universität Bonn, Festkörpertag, 19. Juli 2002
"Polare Zinkoxidoberflaechen: Rätsel gelöst?"
25. 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"
24. Louisiana Board of Regents, Sponsored Program Committee Meeting, Baton Rouge, LA, March 20, 2002
"Enhancing Research and Education in Nanoscale Science"
23. Frühjahrstagung der Deutschen Physikalischen Gesellschaft (Spring Meeting of the German Physical Society), Regensburg, Germany, March 11 - 15, 2002
"Struktur und Eigenschaften von TiO₂ Oberflächen"
22. 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"

23. STM'01, Vancouver, July 16-20, 2001
"Defects and Adsorbates on Metal Oxide Surfaces"
22. American Physical Society, March Meeting, March 12 - 16, 2001, Seattle, Washington
"Growth and Fate of Ultrathin Metal Film Overlayers on TiO₂(110)"
21. International Workshop on Oxide Surfaces (IWOX-2), Taos, New Mexico, January 15 - 19, 2001
"Adsorption Mechanisms and Structure on TiO₂ surfaces"
20. Materials Research Society Fall Meeting, Boston, December 2000
"Understanding Metal Oxide Surfaces at the Atomic Scale"
19. Louisiana Materials Science Conference, University of New Orleans, New Orleans, LA, Aug. 17-18, 2000
"Surface Science Investigations of Oxide Materials"
18. 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)"
17. 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"
16. 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?"
15. International Symposium on Oxide Surfaces, Elmau, Germany, January 1999
"Surface Structure and Reactivity of TiO₂(110)"
14. 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"
13. 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"
12. 1997 Pacific Northwest AVS Symposium, September 15-19, 1997, Troutdale, Oregon
"Scanning Tunneling Microscopy of TiO₂(110): Surface Defects and Adsorption of Chlorine"
11. 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)
10. 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"
9. Southeastern Section Meeting of the American Physical Society, November 1995, Tallahassee,
"Atomic-Scale Investigations and Modifications of Metal Oxide Surfaces"
8. 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"

7. Materials Research Society, Fall Meeting, November 1994, Boston, MA
"Growth and Characterization of Metal Films on Metal Oxide Surfaces"
6. European Conference on Surface Science, Sept. 1994, Leipzig, Germany
"Ultrathin Metal Films on Metal Oxides"
5. AVS Symposium on "The Physics and Chemistry of Metal/Oxide Interfaces", September 23, 1992, Rutgers, New Jersey, USA
"Ultrathin Metal Overlayers on $TiO_2(110)$ "
4. International Conference on Sputtering, Sput '92 August 30 - September 4, 1992, Copenhagen, Denmark
"The Influence of Sputter-Created Defects on the Reactivity of $TiO_2(110)$ "
3. 5th International Workshop on Desorption Induced By Electronic Transitions, April 1 - 4, 1992, Taos, New Mexico, USA
"Electron Stimulated Desorption of Ammonia on $TiO_2(110)$: 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"

B) Lectures, Seminars, and Colloquia at Universities and Research Institutions:

127. Colloquium, Peter-Grünberg-Institute, Forschungszentrum Jülich, Germany, December 16, 2016
"Oxide Surfaces at the Atomic Scale: Defects, Adsorption, Reactivity"
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"
122. Zhongshan Colloquium Nanjing University, January 6, 2016
"Surface Structure and Reactivity of Selected Perovskite Oxides"
121. 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"
120. Debye Lecture, Utrecht University, November 19, 2015
"Surface Science Studies of an Iron Oxide Model Catalyst"

119. Colloquium, Centro Brasileiro de Pesquisas Físicas, October 1, 2015
"Surface Science Studies of Selected Perovskite Oxides"
118. Colloquium, TU Hamburg Harburg, June 24, 2015
"Surface Science Studies of Magnetite Fe₃O₄"
117. 25th Brdička Memorial Lecture, J. Heyrovský Institute of Physical Chemistry, Prague, Czech Republic, June 4, 2014
"Surface Science of Metal Oxides"
116. Seminar, EMPA, Dübendorf, Switzerland, April 23rd, 2015
"Oxide Surfaces at the Atomic Scale"
115. Seminar, ETH Zürich, April 22nd, 2015
"Oxide Surfaces at the Atomic Scale"
114. Seminar, Politecnico Milano, February 25, 2015,
"Oxide Surfaces at the Atomic Scale"
113. Kolloquium, Universität Regensburg, December 16, 2014
"Oxide Surfaces at the Atomic Scale"
112. 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"
111. 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"
110. 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"
109. 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"
108. 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"
107. Kolloquium, Universität Innsbruck, June 26, 2014
"Surfaces of Metal Oxides Viewed with Atomic Resolution"
106. Colloquium, Lund University, Lund, Sweden, March 27, 2014
"Oxide Surfaces at the Atomic Scale"
105. Seminar, Max-Planck-Institut für Festkörperforschung, Stuttgart, February 12, 2014
"Surfaces of TiO₂ and perovskites, viewed with atomically-resolved STM"
104. Seminar Peter Grünberg Institut- Forschungszentrum Jülich, February 10, 2014
"Surfaces of TiO₂ and perovskites, viewed with atomically-resolved STM"

103. 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: Fe₃O₄(001)"
102. Colloquium SFB 762 'Functional Oxide Interfaces', Halle, June 20, 2013
"Physics and Chemistry at the Magnetite Fe₃O₄(001) Surface"
101. Physikalisches Kolloquium, Universität Konstanz, Konstanz, Germany, May 28, 2012
"Oxide Surfaces at the Atomic Scale"
100. Seminar 'Chemie und Technologie der Materialien', University of Vienna, Vienna May 17, 2013
"Defects, Adsorbates, and Nanostructures at Oxide Surfaces"
99. Colloquium, Nanoscience Institute, University of Modena, Modena, Italy, November 6, 2012
"Surface (defect) structure and chemistry of metal oxides"
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 Fe₃O₄ Magnetite"
96. Physics Colloquium, U. of Groningen, Netherlands, March 1, 2012
"Nanostructure, Defects, and Molecules at Oxide Surfaces"
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 In₂O₃ (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"
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"
79. Seminar, Sandia National Laboratories, Albuquerque, New Mexico, August 15, 2007
"Nanostructures on TiO₂ Surfaces"
78. Seminar, Max-Planck Institut 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 TiO₂"
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, February 27, 2002
"Surface Science Investigations of Metal Oxides"
41. University of South Carolina, Columbia, South Carolina, February 1, 2002
"Surface Investigations of Single Crystalline Oxide Materials"
40. Université 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, May 2001
"Looking at Atoms at Surfaces"
37. Universiteit Leiden, May 2001
"Electronegative Adsorbates on TiO₂(110): Adsorption Mechanisms and Structures"
36. Universiteit Amsterdam, May 2001
"Surface and Interface Processes on Metal Oxides: The Known, the New, and the Unexpected"
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 at 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
January 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 Edelgasen mit CO/Ni(111)"

