

CURRICULUM VITAE

PD Dr. Gerhard Mestl

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SCIENTIFIC EDUCATION

2008 Habilitation, Technische Universität Berlin
7/1990 - 7/1994 Ph.D. Thesis "Raman spectroscopic Characterization of Oxide Catalysts."
(summa cum laude), (advisor Prof. H. Knözinger).
1989 - 1990 Diploma Thesis "In situ investigation of the (NH₄)₂Mo₃S₁₃ and (NH₄)₂Mo₂S₁₂ Cluster by
Raman Spectroscopy." (advisor Prof. H. Knözinger).
1983/1989 Study of Chemistry at the Ludwig-Maximilians-University, Munich, Germany.

SCIENTIFIC EXPERIENCE

08/2001 – 11/2001 Visiting Associate Professor at the ECPM of the CNRS at Strasbourg, France (Director Prof. M. Ledoux), 2001. "Multiwalled Carbon Nanotubes for Partial Oxidation Reactions."
6/1997-6/2002 Head of Research Group „Heterogeneous Catalysis“, Department of Inorganic Chemistry, Fritz-Haber-Institut der Max-Planck Gesellschaft (Director Prof. R. Schlögl), Berlin, Germany. "Mixed Metal Molybdates, Heteropoly Acids, Ag- and Cu- Catalysts, and Multiwalled Carbon Nanotubes for Partial Oxidation Reactions."
1/1996 - 6/1997 Feodor-Lynen Research Fellowship of the Alexander-von-Humboldt Foundation, Department of Chemistry, Texas A&M, College Station, TX., USA, (Prof. J. H. Lunsford). "In Situ Raman Spectroscopic Characterization of NO-Decomposition over Ba-Catalysts."
9/1994 - 12/1995 Head of Research Group „Catalysis“, Department Surface Chemistry and Catalysis, (Prof. R. J. Behm), University of Ulm, Germany. "Pd on Atomically Flat Quartz, Sapphire, Rutile and HOPG as Models for VAM-Catalysts."

PROFESSIONAL EXPERIENCE

Since 7/2006 Head of Department Oxidation Catalysis, Clariant AG, Heufeld, Germany.
03/2011 – 07/2012 Member of the Advisory Board of Süd-Chemie AG
2/2005-6/2006 Project Manager, PA-Catalysts, Süd-Chemie AG, Heufeld, Germany.
2/2002-2/2005 Chief Technology Officer and co-founder of NanoScape AG, Munich, Germany.

SERVICE IN PROFESSIONAL ORGANISATIONS

Since 2016 Member of the Steering Committee of the German Catalysis Society

TEACHING EXPERIENCE

1994 – 1996 Teaching Assistant, Abt. Oberflächenchemie und Katalyse, Universität Ulm; Introduction into Surface Chemistry.
1999 Lecturer, Freie Universität Berlin; Spektroskopie/Spectroscopy (Physical Chemistry IIIa).
1999 – 2000 Lecturer, Freie Universität Berlin; 21 405* V/Ü - Solids and Surfaces - lecture/exercises (Physikalische Chemie IVa, Teil 2, in engl. Sprache).

	21 406 S - Solids and Surfaces - seminar (Seminar zu "Festkörper und Grenzflächen" in engl. Sprache)
2000	Lecturer, Freie Universität Berlin; 21 407a V/Ü - Solids and Surfaces (Physical Chemistry VIII, Lecture/exercises in Engl.) 21 408a S - Solids and Surfaces Tutorial (in Engl.)
2000	Lecturer, Freie Universität Berlin; Physicochemical Characterization of Heterogeneous Catalysts.
2001	Lecturer, Freie Universität Berlin; 21407 V/Ü - Solids and Surfaces (Physical Chemistry VIII: Lectures/exercises in Engl.)
2001	Lecturer, Freie Universität Berlin; 21408 S - Solids and Surfaces Turitorial (in Engl.)
2001	Lecturer, Freie Universität Berlin; 21431 V - Introduction to Surface Chemistry and Catalysis (in Engl.);
2009 – 2015	18075 Industrial Catalysis; Ludwig-Maximilians-University Munich;
2016	Catalyst Formulation, FHI-Lecture Series "Modern Methods in Heterogeneous Catalysis Research";

AWARDS

EFCATS Applied Catalysis Award, presented at the EuropaCat XIII conference in Florence, Italy, 27. – 31. 8. 17.
Kokes Award, presented by BASF at the North American Catalysis Society Meeting, Louisville, KY, 2.6. – 7.6.2013.
Best Lecture Award „In Situ Raman Spectroscopy – A Valuable Tool to Understand Operating Catalysts.” Plenary Lecture, “ Intern. Memorial K.I. Zamaraev Conference, Physical Methods for Catalytic Research at the Molecular Level, 28. 6. – 2. 7. 1999 Novosibirsk”.

CO-ORGANIZER OF CONFERENCES:

„Metal Oxide Catalysts: Active Sites, Intermediates and Reaction Mechanisms.” ACS-Symposium, ACS-Fall Meeting, Washington DC, 20.-24. August 2000, scientific organisation.
 „4th World Congress on Oxidation Catalysis.” Potsdam, 16.-21. September 2001, local organization committee.
 “International Congress on Operando Spectroscopy: fundamental and technical aspects of spectroscopy under working conditions.” Lunteren, The Netherlands, 2.-6. 3. 2003, scientific organisation.
 “Innovative Selective Oxidations: Nanoscale and Dynamics Aspects”, ISO2003, EuropaCat VI, Innsbruck, 31.8.- .9. 2003, Member of the Organizing Committee.
 “Catalysis by Metal Oxides: Comparison Between Bulk Mixed Oxides, Supported Oxides, Oxide Clusters, Organometallic Oxides and Oxide Single Crystals.” Division of Colloid and Surface Chemistry, ACS Meeting, Philadelphia, 22.-26. 8. 2004, scientific organisation.
 “Understanding the dynamic and transient behaviour of oxide catalysts in working conditions and the relationships with their catalytic performances.” 1st Conferences of the European Union Coordination Action “CONCORDE”, Louvain-la-Neuve, Belgium, 26.-28. 1. 2005, scientific organisation.
 „Towards 100% Selectivity in Catalytic Oxidation over Nanostructured Metal Oxides.” ISO2007 EuropaCat VIII, Turku, 26-31. 8. 2007, Member of the Organizing Committee.
 6th World Congress on Oxidation Catalysis Lille, France, from July 5th to July 10th, 2009, referee board member of “Topic 1: Fundamentals and analysis” and “Sub-topic 1B: Catalysts preparation. Novel catalysts. New advanced methods. Nanosized and nanostructured catalysts.”
 X European Workshop on Selective Oxidation (ISO 2011), EUROPACAT X CONFERENCE, 28 August – 2 September 2011, Glasgow, U.K. Member of the Organizing Committee.
 XI European Workshop on Selective Oxidation (ISO 2015), EUROPACAT XI CONFERENCE, 30 August – 4 September 2015, Kazan, Russia. Member of the Organizing Committee.
 14th European Congress on Catalysis - EuropaCat 2019, Aachen/Germany from August 18 - 23, 2019. Member of the Program Committee.
 International Symposium on the Scientific Bases for the Preparation of Heterogeneous Catalysts, Louvain-la-Neuve on 8-12 July 2018. Member of the Scientific Committee.
 Member of the symposium organizing committee of 50th General Assembly and 47th IUPAC World Chemistry Congress, Paris, France, 7. - 11. 7. 2019.
 Member of the scientific committee of 2nd Global Conference on Catalysis, Chemical Engineering & Technology (CAT 2018), September 13-15, 2018, Rome, Italy.

Member of the Advisory Board the International Congress on Operando Spectroscopy. Operando VI, Estepona, Spain, 15 - 19th, April, 2018.

MEMBERSHIP IN PROFESSIONAL ORGANISATIONS

Deutsche Bunsengesellschaft

Deutsche Physikalische Gesellschaft

Deutsche Gesellschaft der Humboldtianer

DECHEMA Gesellschaft für Chemische Technik und Biotechnologie

German Catalysis Society

American Chemical Society

German Chemical Society

German Association of Gas, Coal and Petroleum