

Curriculum Vitae

Robert SCHLÖGL

Personal Data:

Name: Robert Schlögl
Place and Date of Birth: Munich, February 23, 1954
Nationality: German
Position and affiliation : Director at Fritz-Haber-Institut der Max-Planck-Gesellschaft
Faradayweg 4 – 6
D14195 Berlin
and
Founding Director Max Planck Institut for Chemical Energy Conversion
Stiftstr. 34 – 36, 45470 Mülheim a.d.Ruhr

Robert Schlögl (in the following "RS") started his basic education in chemistry in 1973; in the later stages of his studies, he concentrated on inorganic chemistry. In his doctoral studies, which he concluded in 1982, he worked on the preparation and functional characterisation of solid materials, such as graphite intercalation compounds and of metallic glasses. During his postdoctoral stay with Sir John Meurig Thomas at Cambridge University, UK, from 1982-1983, he extended his experience to heterogeneous catalysis. He continued his catalytic work in his advanced scientific studies (Habilitation) targeting on "understanding the structure of industrial ammonia-synthesis catalysts" at the Fritz-Haber-Institute in Berlin, where RS was associated with Professor Gerhard Ertl, now a Nobel Laureate. After his successful Habilitation in 1989, RS was awarded the Chair of Inorganic Chemistry at the University of Frankfurt before he was appointed Director of the Department of Inorganic Chemistry at the Fritz-Haber-Institute of Max-Planck Society in Berlin Germany

Professional Education

Chemistry 1973-1978, Germany
Diploma Thesis, 1979
PhD. Chemistry, 1982 Ludwig Maximilians Universität in Munich, "Marginalien in Schwarz, Beiträge zur Interkalationschemie in Graphit"
Post-Doctorate, 1982-83 Sir. J. M. THOMAS, Dept. of Physical Chemistry, Cambridge, U.K.
1984-85 Prof. H. J. GÜNTHERODT, Institut für Physik, Basle, Switzerland
Habilitation, 1986-89 Prof. G. ERTL, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin
1989 Qualification as a University Lecturer, Habilitation Title: Understanding the Structure of the Industrial Ammonia-Synthesis Catalysts

Work experience :

Academic:

Since 2015- Honorary Professor at Ruhr-Universität Bochum
Since 2012 Honorary Professor at Universität Duisburg-Essen
Since 2011 Founding Director Max Planck Institute for Chemical Energy Conversion, Mülheim a.d.Ruhr
1994 to present - Director at the Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin
1998 to present - Honorary Professorship at Humboldt-Universität zu Berlin
1995 to present - Member of the Berlin-Brandenburgischen Akademie der Wissenschaften
1994 to present - Honorary Professorship at the Technische Universität (TU) Berlin, Department of Chemistry
1989 -1994, Full Professor of Inorganic Chemistry, J.W. Goethe-Universität, Frankfurt

Industrial:

1986 Hoffmann La Roche, Basle, Switzerland

Sabbaticals and Fellowships

2001 Guest Professorship: L.M.S.P.C., Laboratoire des Matériaux, Surfaces et Procédés pour la Catalyse, UMR 7515 du C.N.R.S. / ULP, Université Louis Pasteur
2004 Tetelman Fellow, Yale University, USA
2005 Fellow of the Royal Society of Chemistry, Cambridge, UK

Honors and Awards:

Schunck Award for Innovative Materials, 1989
Otto Bayer Prize, 1994
Dechema Medal, 2010
Max Planck Communitas Award, 2013
Alwin Mittasch Award, 2015
Innovation Prize State North-Rhine Westphalia, 2016

Positions, professional activities

Political

- * Chairman of the Steering Committee of the project of the German academies "Energy Systems of The Future" - advising board to the Federal Government of Germany
- * President of the German Catalysis Society for 6 years.
- * Initiation of National Industry-Academia Coordinated Research Initiative operating since 2000
- * Co-initiator of a National Priority Funding Program on model catalysis (DFG-SPP) with 15 teams nationwide
- * Co-initiator of a German Research Center of Excellence (DFG-SFB) on metal oxide model catalysis
- * Chair of panel 4 (Chemistry and Material Sciences) of the European Research Council (ERC)

scientific

- * Core Participant in European Network IDECAT "Catalysis for Sustainable Energy Production"
- * Max Planck Project MAXNET Energy (8 Max Planck Institutes, University of Virginia and Cardiff University doing research cooperation that aims at obtaining a deeper understanding of basic processes in chemical energy conversion and the rational design of novel catalysts, materials and techniques)
- * Participation in various EU projects, i.e. CANAPE, ELCAT, Athena,
- * Contract based cooperation with COMBICAT, Malaysia, Boreskov Institute, Novosibirsk, University of Zagreb, University of California, Berkeley, Stanford University, University of Messina, University of Cambridge, DTU Lyngby, ETH Zurich
- * Industry-Academia project "**Carbon2Chem**"
- * Numerous bilateral and multi-lateral Academia-Industry cooperations: e.g. with industrial partners such as BASF SE, Bayer AG, Volkswagen AG, thyssenkrupp AG, DOW Chemicals, Degussa, Clariant AG, Bosch
- * Max Planck Partner Group with State Key Laboratory on Catalysis in Dalian, China
- * Participation in International Partnership for Research and Education. **PIRE**: Molecular Engineering for Conversion of Biomass-derived Reactants for Fuels, Chemicals and Materials

teaching

- * Participation in International Max Planck Research Schools and initiation of the Berlin inter-university-graduate teaching lecture series on modern aspects in Catalysis

Commissions and Boards:

- BBAW (Berlin Brandenburg Academy of Sciences), Board Member
- Member of the Convent for Technical Sciences of the Union of German Academies of Sciences (acatech)
- BESSY Beamtime Committee, Berlin (Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung m.b.H.)
- BESSY Scientific Advisory Board
- Dechema e.V. Fachsektion Katalyse, Chair 1996-2002
- EFCATS – European Federation of Catalysis Societies - Board (Europäischer Katalytiker-Verbund)
- Hahn-Meitner-Institut (HMI), Berlin, Scientific Advisory Board (1995-2001)
- IACS - International Association of Catalysis Societies
- Max-Planck-Gesellschaft, Advisory Board for Scientific Information, Chair (until 2005)
- GDCh (Society of German Chemists), Literatur-Kommission
- PCCP (Physical Chemistry – Chemical Physics) Advisory Board
- Advisory Board Archiv zur Geschichte der Max-Planck-Gesellschaft (2008-2012)
- Leopoldina
- Advisory Board RWE
- MCEC Scientific Advisory Board

Editorial Boards:

Since 2003	Catalysis Letters
Since 2003	Journal of Catalysis
1999- 2003	PCCP (Physical Chemistry – Chemical Physics)
1998- 2002	Applied Catalysis A
Since 2009	ChemCatChem

Memberships

- AAAS (American Association for the Advancement of Science)
- ACS (American Chemical Society)
- American Carbon Society
- DECHEMA (Gesellschaft für chemische Technik und Biotechnologie m.b.H.)
- Deutsche Bunsengesellschaft
- DGE (Deutsche Gesellschaft für Elektronenmikroskopie)
- DGMK (Deutsche Gesellschaft für Erdöl, Erdgas und Kohle e. V.)
- DPG e. V. (Deutsche Physikalische Gesellschaft e. V.)
- Freunde der Hebräischen Universität Jerusalem in Berlin e. V.
- GDCh (Gesellschaft deutscher Chemiker)
- ICHIME Working Party on Chemical Reaction Engineering in the European Federation of Chemical Engineering
- The Electrochemical Society

Conferences/Conventions

More than 1000 publications, more than 500 presentations and invited talks, such as

- March 2015, Invited lecture given at the 150 Year Celebration of BASF, Ludwigshafen, Germany: *Future prospects of catalysis and the importance for sustainable chemistry*
- October 2015, Invited lecture at the Siemens Council, New York, USA: *Chemical Energy Conversion*
- February 2016, Invited lecture at E-world energy & water, Essen, Germany: *Elemente und Akteure der Systemtransformation (Elements and actors of system transformation)*
- May 2016, DOE Basic Research Needs workshop on critical instrumentation for energy sciences, Washington, USA: *Opportunities and Challenges for Catalysis Research: Instrumental (?) Infrastructure*
- August 2016, Copenhagen, Denmark, Inauguration of VILLUM Center for the Science of Sustainable Fuels and Chemicals, Keynote Lecture: *Chemical Energy Conversion*
- September 2016, Berlin, Germany, Wöhler-Vereinigung für Anorganische Chemie der Gesellschaft Deutscher Chemiker e.V.: *Inorganic Materials for Sustainable Energy*

Patents:

registered inventor for more than 20 families of patents and/or patent applications
(for details see separate list)