

Rudolf BRDIČKA (1906-1970)

Professor of physical chemistry at Charles University, founding member of the Czechoslovak Academy of Sciences, founder and the first director of the Institute of Physical Chemistry of the Czechoslovak Academy of Sciences.

An outstanding electrochemist renowned in particular by his pioneering work on kinetic polarographic current and on applications of polarography in medicine. A brilliant university teacher, author of an internationally recognized textbook of physical chemistry. He has crucial merits for development of modern physical chemistry in this country.

To commemorate his work and personality, the Institute of Physical Chemistry of the Academy of Sciences of the Czech Republic has organized since 1991 annually a festive R. Brdička Lecture. Invited speakers have been eminent scientists active in some field relating to the research currently pursued in the Institute.

R. BRDIČKA MEMORIAL LECTURES 1991-2019

1.	(1991)	Edgar HEILBRONNER (Eidgenossische Technische Hochschule, Zürich)
		"The old Hűckel formalism"
2.	(1992)	Kamil KLIER (Lehigh University, Bethlehem, Pennsylvania)
		"Physical chemistry in two dimensions"
З.	(1993)	Joshua JORTNER (Tel Aviv University, Tel Aviv)
		"Clusters – a bridge between molecular and condensed matter chemical
		physics"
4.	(1994)	David J. SCHIFFRIN (The University of Liverpool)
		"Electrochemistry in two-dimensional systems"
5.	(1995)	Josef MICHL (University of Colorado, Boulder, Colorado)
		"Molecular kit for new materials"
6.	(1996)	Gerhard ERTL (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin)
		"Self-organization in surface reactions"
7.	(1997)	Roger PARSONS (University of Southampton)
		"Electrochemistry in the last 50 years: from Tafel plotting to scanning
		tunnelling"
8.	(1998)	G. Barney ELLISON (JILA and University of Colorado, Boulder, Colorado)
		"The chemical physics of organic reactive intermediates in combustion
		and atmospheric processes"
9.	(1999)	Henry F. SCHAEFER III (University of Georgia, Athens, Georgia)
		"The third age of quantum chemistry"
10.	(2000)	Alexis T. BELL (University of California and Lawrence Berkeley Laboratory,
		Berkeley, California)
		"Progress towards the molecular design of catalysts –lessons learned
		from experiments and theory"
11.	(2001)	Mario J. MOLINA (Massachusetts Institute of Technology, Cambridge,
		Massachusetts) "The Antarctic ozone hole"
12.	(2002)	Jean-Marie LEHN (Université Louis Pasteur, Strasbourg a Collége de
		France, Paris) "Selforganization of supramolecular nanodevices"
13.	(2003)	Helmut SCHWARZ (Technische Universität Berlin)
		"Elementary processes in catalysis: looking at and learning from
		"naked" transition ion"

14.	(2004)	Rudolph A. MARCUS (California Institute of Technology, Pasadena)
		"Strange isotope effects in stratospheric ozone and in the earliest
		minerals in the solar system"
15.	(2005)	Avelino CORMA (Instituto de Tecnología Química, Valencia)
		" Supramolecular Entities Based on Molecular Sieves for Catalysis and
		Synthesis of New Materials"
16.	(2006)	Paul CRUTZEN (Max Planck Institute for Chemistry, Mainz):
		"Atmospheric Chemistry and Climate in the 'Anthropocene'"
17.	(2007)	Harry B. GRAY (California Institute of Technology, Pasadena)
		"The Currents of Life: Electron Flow through Metalloproteins"
18.	(2008)	Michael GRÄTZEL (Ecole Polytechnique Fédérale de Lausanne)
		"Mesoscopic Electrodes for Generation and Storage of Electric Power
		from Sunlight"
19.	(2009)	Gabor. A. SAMORJAI (Department of Chemistry and Lawrence Berkeley
		Natkional laboratory, University of California, Berkeley)
		"Molecular Foundations of Heterogeneous Catalysis"
20.	(2010)	Pavel HOBZA (Institute of Organic Chemistry and Biochemistry of the AS
		CR) "Noncovalent Interactions and their Role in Chemistry and
		Biochemistry"
21.	(2011)	Klaus MÜLLEN (Max-Planck Institute, Mainz, Germany)
		"Carbon Materials and Graphenes"
22.	(2012)	Enrico GRATTON (University of California, Irvine)
		"Nanoimaging technique with high time and spatial resolution:
		Mechanisms of translocation through the nuclear pore complex"
23.	(2013)	J. Peter TOENNIES (Göttingen, Germany)
		"Superfluid Helium Nanodroplets: Very Cold and Extremely Gentle"
24.	(2014)	Christian AMATORE (CNRS Paris, France)
		" Seeing, Monitoring, Measuring and Understanding Vesicular Exocytosis
		of Neurotransmitters with Ultramicroelectrodes"
25.	(2015)	Ulrike DIEBOLD (TU Wien, Austria)
		"Surface Science of Metal Oxides"
26.	(2016)	Ferdi SCHÜTH (Max-Planck-Institut, Mülheim, Germany)
		"Controlled nanostructures for applications in catalysis and beyond"
27.	(2017)	Frank NEESE (Max-Planck Institute, Mülheim, Germany)

"Analysis of complex catalytic mechanisms by High-level spectroscopy and quantum chemistry: The case of water oxidation in PSII"

- 28. (2018)Prof. Andrea C. Ferrari (University of Cambridge, Great Britain)"Light Scattering and Emission from Hetero-structures"
- 29. (2019) Professor Renato Zenobi (Department of Chemistry and Applied Biosciences, ETH Zurich)

"Nanoscale Chemical Analysis and Imaging using Tip-Enhanced Raman Spectroscopy"