

**Pierre BRAUNSTEIN**

Born 4 October 1947 in (68) MULHOUSE (France)

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DIPLOMS

DIPLOMS	Year	Mention
Ingénieur-Chimiste Ecole Supérieure de Chimie de Mulhouse	1969	Major de promotion (rank #1)
Docteur-Ingénieur, Université Louis Pasteur (ULP), Strasbourg	1971	Très honorable, Félicitations du Jury
Doctorat d'Etat ès Sciences Physiques (State Doctorate), ULP Strasbourg	1974	Très honorable, Félicitations du Jury

RESEARCH FUNCTIONS

CNRS Research Director (« classe exceptionnelle DRCE2», highest rank)

Emeritus CNRS Research Director and "Professeur conventionné de l'Université de Strasbourg" since Sept. 2014

RESEARCH AREAS: Fundamental and applied molecular chemistry, creation of new chemical bonds (metal-metal), of new complex molecules, elaboration of concepts rationalizing structure-reactivity relationships, applications in homogeneous catalysis (ethylene oligomerization, co-oligomerization olefins/CO and ethylene/polar olefins, transfer hydrogenation of ketones, alkane activation, deshydrogenative coupling of stannanes), nanomaterials from molecular precursors, applications in heterogeneous catalysis (carbonylation of organic nitro derivatives to isocyanates)

- \* Synthesis and complexation of polytopic functional ligands
- \* Functional N-heterocyclic carbenes and their complexes; catalytic applications
- \* New organic molecules with delocalized  $\pi$  system (quinonoids): applications in chemistry and physics
- \* Chemistry of functional enolates and their metal complexes (synthesis, characterization, reactivity, catalysis)
- \* Synthesis and reactivity of bimetallic silyl complexes (new molecular interactions and catalysis)
- \* Molecular clusters (concepts, synthesis, structures, reactivity, catalysis)

SCIENTIFIC PRODUCTION

Books/Specials Issues :

- \* "Guest Editor" de "*Recent Advances in Di- and Polynuclear Chemistry*", *New J. Chem.* **1988**, 12, 307-720.
- \* "Guest Editor" avec W. A. Herrmann de "*New Perspectives in Organometallic Chemistry*", *New J. Chem.* **1990**, 14, 389-587.
- \* "Guest Editor" avec P. Sobota et J. J. Ziolkowski (Pologne) des "*Proceedings of the 13th Summer School on Coordination Chemistry*", Polanica-Zdroj, Pologne, 2-8/6/1996, *New J. Chem.* **1997**, 21, 647-846.
- \* "Guest Editor" de "*Inorganic Chemistry in France*", *Coord. Chem. Rev.* **1998**, 178-180, 1-1846.
- \* "Editor" avec P. R. Raithby et L. A. Oro de l'ouvrage "*Metal Clusters in Chemistry*", Wiley-VCH, **1999**, 3 volumes, 1798 pages

Review articles:	46
Publications in refereed journals:	538
Patents:	10
Invited lectures/conferences:	485

TEACHING ACTIVITIES

- \* Coordination Chemistry and Cluster Chemistry in D.E.A. "Chimie des Métaux de Transition et Catalyses" then "Chimie des Métaux de Transition et Ingénierie Moléculaire", Strasbourg (1980/81 – 2000/01).
- \* "Clusters and Aggregates" in Maîtrise de chimie, ULP (2001/02 – 2003/04), and Master 1 (from 2004/05 – 2013/14)

TRAINING-THROUGH-RESEARCH ACTIVITIES

- \* Supervision of 49 DEA (Master) students (Transition Metal Chemistry and Catalysis)
- \* Supervision of 70 Doctoral theses
- \* Collaboration with 68 post-docs and invited professors.

ADDITIONAL INFORMATIONS:

- Canal Académie 25/10/2009  
<http://www.canalacademie.com/Pierre-Braunstein-l-amoureux-des.html>
- Author profile. *Angew. Chem. Int. Ed.* **2010**, 49, 1718 – 1720  
<http://onlinelibrary.wiley.com/doi/10.1002/anie.201000183/abstract>
- Editorial by Roger Guilard, Gerhard Erker, Paul Raithby and Qiang Xu for the Special Issue of *Coord. Chem. Rev.* **2017**, 350, 1, recently dedicated to me :  
<http://www.sciencedirect.com/science/article/pii/S0010854517305581?via%3Dihub>

SELECTED ADMINISTRATIVE FUNCTIONS and SCIENTIFIC ACTIVITIES OF GENERAL INTEREST**National**

- \* Vice-President (1988 - 1990) and then President (1991 - 1994) of the Coordination Chemistry Division of the French Chemical Society.
- \* Elected member of the Council of the French Chemical Society (1997 - 2001)
- \* Member of the Comité National de la Chimie (1995 - 2004)
- \* Appointed by the CNRS or the Ministry of Research in various national evaluation committees
- \* President of the Alumni of the Ecole Nationale Supérieure de Chimie de Mulhouse (2006 - 2012)
- \* Vice-Président de la Fondation Nationale Alfred Kastler (2007 - ....)
- \* Member of the Council of the « Fondation de la Maison de la Chimie » (2008 - ...)
- \* Organization or co-organization of 13 national scientific conferences

**International**

- \* Appointed by the CNRS or the Ministry of Research in various international evaluation committees (PROCOPE, bilateral programme CNRS/DFG,...)
- \* President of the coordination committee of the European Science Foundation Network "Metal Clusters" (1992-95)
- \* Co-founder in 1999 with M. Veith (Sarrebücken, Germany) of the first European Training Network/Europäisches Graduiertenkolleg" (GRK 532 of the DFG) between the Universities of Sarrebücken, Luxembourg, Metz, Nancy and Louis Pasteur Strasbourg).
- \* Appointed by the Council of the European Science Foundation in the EURESCO Committee (2002-2004)
- \* Expert for the Helmholtz-Gemeinschaft (Beirat for the Programmes Nanotechnologies (2002-2006) and Environnement of the FZK Karlsruhe) (2002-2007)
- \* Elected Member of the Council of the Royal Society of Chemistry (UK) (2005-2009)
- \* Member of Panel PE5 "Materials and synthesis" - Advanced Grants of the European Research Council (2010-2015)
- \* Expert for the evaluation of the research programmes of the NSF, Petroleum Research Funds (USA), European Commission, European Science Foundation, EPSRC (GB), CNR (Italy), DFG (numerous individual grants, SFB and SPP programmes), Volkswagen and A. von Humboldt Foundations (Germany), Fonds national (Switzerland), Wissenschaftsfonds (FWF) - Austrian Science Fund and various research organisations in Canada, Spain, Hong-Kong, Israël, Japan, Singapore, Taiwan.
- \* Expert for the Deutsche Forschungsgemeinschaft (DFG) for the evaluation of the excellence initiative (2006-2007)
- \* Appointed member of the Strategy Commission of the German National Research Council (Wissenschaftsrat + DFG) for the evaluation of the universities of excellence) (2011-2016)
- \* Appointed expert for the German "Exzellenzstrategie" Program (2016 - ....)
- \* Appointed member of the International Program Committee for the Millennium Science Initiative in Chile (Government of Chile) (2012 – 2015) and (2016-2018).
- \* Member of the « External Advisory Board » of the « Centro de Quimica Estrutural » of Lisbon (Portugal) (2016-...)
- \* Referee for appointments and promotions of scientists from Germany, USA, UK, Canada, China (Hong-Kong, Taiwan), Spain, The Netherlands, Italy, Sweden, Switzerland, ...
- \* Organization or co-organization of 26 international scientific conferences.

EDITORIAL FUNCTIONS

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| * <i>Applied Organometallic Chemistry</i>   | Member of the Advisory Board (2009 - ...)  |
| * <i>Bull. Soc. Chim. Fr.</i>   | Member of the Advisory Board (1993 - 1997)   |
| * <i>Comptes Rendus Acad. Sciences</i> (Paris)  | Member of the Advisory Board (1994 - 2001)   |
|   | <u>Editor-in-chief</u> (2002 - ...)  |
| * <i>Coord. Chem. Rev.</i>  | Member of the Editorial Board (1997 - 2007)<br>"Guest Editor" of "Inorganic Chemistry in France",<br><i>Coord. Chem. Rev.</i> <b>1988</b> , 178-180, 1-1846.   |
| * <i>J. Chem. Soc., Dalton Trans.</i>   | Regional Editor (1989 - 1993)<br>Member of the Advisory Board (1994 - 1995)<br>Associate Editor (1996-2001)  |
| * <i>J. Cluster Science</i>   | Member of the Editorial Board (1990 - ...)   |
| * <i>J. Organomet. Chem.</i>  | Member of the Advisory Board (1994 - 2001)   |
| * <i>Monatshfte für Chemie/Chemical Monthly</i>   | Member of the Advisory Board (1998 - 2000)<br>Regional Editor (2001 - 2010)  |
| * <i>New Journal of Chemistry</i>   | Member of the Advisory Board (1985 - 1990)<br>Associate Editor (1990 - 2002)<br>Member of the International Advisory Editorial Board (2003 - 2007)<br>Guest Editor of "Recent Advances in Di- and Polynuclear Chemistry",<br><i>New J. Chem.</i> <b>1988</b> , 12, 307-720.<br>Guest Editor with W. A. Herrmann of "New Perspectives in Organometallic Chemistry", <i>New J. Chem.</i> <b>1990</b> , 14, 389-587.<br>Guest Editor with P. Sobota and J. J. Ziolkowski (Poland) of "Proceedings of the 13th Summer School on Coordination Chemistry", Polanica-Zdroj, Pologne, 2-8/6/1996, <i>New J. Chem.</i> <b>1997</b> , 21, 647-846. |
| * <i>Organometallics</i>  | Member of the Advisory Board (1991 - 1993)   |
| * Guest Editor" of "Inorganic Chemistry in France", <i>Coord. Chem. Rev.</i> <b>1988</b> , 178-180, 1-1846.             |  |
| * Editor with P. R. Raithby and L. A. Oro of "Metal Clusters in Chemistry", Wiley-VCH, <b>1999</b> (3 vol., 1850 pages) |  |

SCIENTIFIC DISTINCTIONS AND AWARDS

* Noelting Award of the Ecole Supérieure de Chimie de Mulhouse	1969
* Thesis Award from the « Association pour le Développement des Relations avec l'Industrie auprès des Universités de Strasbourg ».	1973
* Award of the Division of Physical Chemistry and Mineral Chemistry of the French Chemical Society	1975
* Prix d'Aumale of the French Institute nominated by the French Academy of Sciences	1983
* Invited Professor at the Faculty of Chemistry of the University of KONSTANZ (Germany)	Oct. 1984
* 1st Greater Manchester Inorganic Lecture - UMIST - Manchester (UK)	1985
* Weissberger Williams Lecture - Kodak Research Laboratories- Rochester (USA)	1986
* Alexander von Humboldt Forschungspreis	1988
* Médaille d'Argent (Silver Medal) of the CNRS	1989
* Max-Planck Forschungspreis (jointly with H. Vahrenkamp, Germany)	1991
* Elected Corresponding Member of the French Academy of Sciences	1993
* John van Geuns Lecture, Amsterdam (The Netherlands)	1993
* Distinguished Visiting Scholar - Departement of Chemistry of the University of ADELAIDE (Australia)	July 1994
* Grand Prix Raymond Beer of the French Chemical Society	1995
* Fellow of the Royal Society of Chemistry (CChem FRSC)	May 1996
* Japan Society for the Promotion of Science Fellow - TOKYO (Japan)	April 1997
* Invited Professor at the Department of Chemistry of the University of SARAGOSSA (Spain)	Sept. 1997
* 1st Awardee of the franco-spanish Prize Paul Sabatier - Miguel Catalán between the French Chemical Society and the Royal Spanish Chemical Society	1998
* Senior Visitor, Académie des Sciences/Royal Society	1998
* Grignard - Georg Wittig Prize between the French Chemical Society and the Gesellschaft Deutscher Chemiker	1999
* Otto-Warburg Prize (Germany)	2002
* <b>Elected Corresponding Member of the Saragossa Academy of Sciences (Spain)</b>	June 2002
* <b>Elected Member of Academia Europaea</b>	2002
* <b>Elected Member of the European Academy of Sciences</b>	2002
* Invited Professor at the Academia Sinica, TAIPEI (Taiwan)	Dec. 2002
* Chini Memorial Lecture (Italian Chemical Society)	2003
* Nyholm Lecture and Medal (Royal Society of Chemistry)	2003
* Grand Prix of the Institut Français du Pétrole of the French Academy of Sciences	2004
* <b>Elected Member of the German Academy of Sciences Leopoldina</b>	2005
* <b>Elected Member of the French Academy of Sciences</b>	2005
* Molecular Science Forum Lecture Professorship, Institute of Chemistry, Chinese Academy of Sciences, Beijing (China)	2006
* Elected « Officer » of the Chemical Sciences Division of the « European Academy of Sciences »	2006
* John van Geuns Lecture, Amsterdam (The Netherlands)	2007
* Descartes-Huygens Prize (Dutch Academy of Sciences)	2008
* Elected Member of the Académie Rhénane – Head of the Sciences Section	2011
* Sacconi Medal and Lecture (Italian Chemical Society)	2013
* International Award of the Japanese Society of Coordination Chemistry	2013
* Award of the International Organic Chemistry Foundation (Kyoto, Japan)	2013
* Distinguished Visiting Scientist, Institute of Materials Research and Engineering, A*STAR, Singapore	2013-2017
* Technische Universität Munich (TUM) Ambassador	2013
* « Distinguished Member » of the “Société Chimique de France” (1st promotion)	2013
* Grand Prix Pierre Süe of the French Chemical Society	2013
* <b>Foreign Corresponding Member of the Academy of Sciences of Lisbon (Portugal)</b>	2015
* <b>Elected Head of the Chemistry Division of the European Academy of Sciences</b>	2015
* Visiting Professor at Qingdao University of Science and Technology (China)	June 2016-May 2019
* Qiushi Chair Professor of Zhejiang University (China)	March 2017-Dec. 2019
* Chair Professor Soochow University (China)	May 2017 – April 2020
* Appointed Academic “Master” of the 5 years “111 Project” Rubber-Plastics Materials and Engineering Overseas Expertise Introduction Center for Discipline Innovation, Qingdao University of Science and Technology (China)	Dec. 2017– 2022
* Distinguished Honorary Professor Yangzhou University	May 2018 – April 2023
* Distinguished Visiting Scholar, University of Hong-Kong	Dec. 2018

FOREIGN APPOINTMENTS

In addition to various Invited Professorships (see above), shorter term appointments (2 weeks) as visiting professor/distinguished scientist have been held at Univ. Osaka, Univ. Kyoto, Univ. Ochanomitsu, Univ. Hokkaido (Japan), A\* Star Institute of Materials Research and Engineering (Singapore)

EXTENDED FOREIGN APPOINTMENTS

* Department of Chemistry - University College London LONDON (G.B) - Professors R. S. NYHOLM, M. L. TOBE and R. J. H. CLARK Honorary Research Assistant - CNRS/Royal Society Exchange Programme	Nov. 1971 - Oct. 1972
* Anorganisch-Chemisches Laboratorium der Technischen Universität München MÜNICH (Germany) - Professor E. O. FISCHER (Nobel Prize). Alexander von Humboldt Fellow	Nov. 1974 - Oct. 1975