



## V INTERNATIONAL SCHOOL ON ORGANOMETALLIC CHEMISTRY MARCIAL MORENO MAÑAS JACA (SPAIN), 2-4 JULY 2012



### **Holger Braunschweig** **Universität Würzburg, Germany**

Holger Braunschweig was born 1961 in Aachen (Germany). He obtained his PhD (1991) and Habilitation (1998) from the RWTH Aachen with P. Paetzold and stayed for a Postdoc with M. F. Lappert, FRS, at the University of Sussex, Brighton. After 2 years at Imperial College as Senior Lecturer and Reader, he moved to a chair for Inorganic Chemistry at the Julius-Maximilians- University Würzburg in 2002.

In 2009 he was awarded the Gottfried Wilhelm Leibniz prize of the DFG. In the same year he was elected as a member to the Bavarian Academy of Sciences and in 2011 elected to the German Academy of Sciences, Leopoldina.

His research interests lies in the area of boron chemistry, organometallic synthesis, and catalysis and are currently focused on borametallocenophanes, boron heterocycles, and transition metal complexes of boron.

More information: <http://www-anorganik.chemie.uni-wuerzburg.de/Braunschweig/>



### **Emilio Bunel** **Argonne National Laboratory, Illinois, USA**

Emilio Bunel received his M.S. in Chemical Engineering in 1980 from the University of Chile, and his Ph.D. in chemistry from the California Institute of Technology in 1988. He began his professional career at DuPont Central Research as a member of the Catalysis Group. He was responsible for the discovery and subsequent development of new processes for the synthesis of Nylon intermediates required in the manufacture of Nylon-6,6 and Nylon-6.

In 2001 Bunel was hired by Eli Lilly to establish the Catalysis Group within the Discovery Research Organization. In 2003 he was appointed Associate Director at Amgen, Inc., and subsequently in January 2008, Research Fellow at Pfizer, Inc.

After spending so many years in industry, in October 2008 Emilio Bunel was named director of the Chemical Sciences and Engineering Division at U.S. Department of Energy's Argonne National Laboratory, where he is currently carrying out his research, focused on homogeneous catalysis applied to energy problems such as carbon dioxide activation and water splitting.

More information: <http://www.cse.anl.gov/>



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### **Carmen Carreño** **Universidad Autónoma de Madrid, Spain**

M. Carmen Carreño was born in Madrid (Spain), where she studied chemistry at the Universidad Complutense de Madrid and obtained her Ph.D. from the Universidad Autónoma de Madrid (UAM) in 1978, under the supervision of Professor Francisco Fariña. After a three-year period working on the conformational analysis of sulfur compounds with Professor J. L. García Ruano (UAM), she began to work in the field of asymmetric synthesis with sulfoxides.

In 1984 she was appointed Professor Titular at the Universidad Autónoma de Madrid, where she was subsequently promoted to Full Professor in 2005.

She has been Associate Professor at the Ecole de Chimie, Polymères et Matériaux (ECPM), Université de Strasbourg, (UdS) Strasbourg (France), since 1990.

She has been visiting Professor at the ECPM/UdS (France), the University of East Anglia, Norwich, (UK) and Università degli Studi di Messina (Italy), and since 1989 she has been involved in a scientific collaboration with Professors Guy Solladié and Françoise Colobert (ECPM/UdS).

Her current research interests include the synthetic and mechanistic aspects of diastereoselective reactions involving sulfoxides and the total synthesis of biologically active compounds, new materials and molecular devices. She is the author of 150 papers.

More information : <http://www.uam.es/gruposinv/quinonso/carmen/>



### **Gernot Frenking** **Philipps-Universität Marburg, Germany**

Gernot Frenking received his Diploma in Chemistry from The Technical University Aachen in 1973. After working two years (1974-76) in the group of Prof. Kenichi Fukui (Kyoto, Japan) as a research student, he returned to Germany where he completed his PhD studies at the Technical University Berlin working on semiempirical calculations of phosphorus III compounds (1976-1979). Between 1984 and 1989 he was first, a visiting scientist at the University of California, in the group of Prof. H. F. Schaefer III, and then Staff Scientist at the Stanford Research Institute in California. Since 1998 Gernot Frenking is C4-Professor for Theoretical Chemistry at the Philipps- Universität Marburg. The computational chemistry group of Prof. Frenking has published over 500 publications working on quantum chemical calculations of molecules which have unusual bonding situations.

Prof. Frenking is Editor of the Journal of Computational Chemistry, and current member of the editorial board of several scientific journals.

More information: [http://www.uni-marburg.de/fb15/ag-frenking/prof\\_frenking](http://www.uni-marburg.de/fb15/ag-frenking/prof_frenking)



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**Alison J. Frontier**  
**University of Rochester, USA**

Alison J. Frontier attended Harvard University, where she worked in the laboratory of Professor Yoshito Kishi and graduated in 1992 and to become a research scientist at Merck Research Laboratories in Rahway, New Jersey, in the Basic Medicinal Chemistry division. She conducted graduate work under the direction of Professor Samuel Danishefsky, and received her Ph.D. in June 1999. She was an NIH postdoctoral fellow at Stanford in the laboratory of Professor Barry Trost until January 2002, when she started her independent career as Professor of Chemistry at the University of Rochester.

Professor Frontier's research program is devoted to the planning and execution of syntheses of biologically and structurally interesting natural products. A particular focus is the use of transition metal catalysis to rapidly construct complex molecular architecture from simple starting materials. She is the creator of "Not Voodoo," a website devoted to demystifying synthetic organic chemistry laboratory techniques (<http://chem.chem.rochester.edu/~nvd/>).

More information: <http://www.chem.rochester.edu/faculty/faculty.php?name=frontier>



**Alan S. Goldman**  
**The State University of New Jersey, USA**

Alan S. Goldman received his B.A in 1980 from Columbia College, NY. Under the guidance of David R. Tyler, Alan received his Ph.D from Columbia University studying the mechanisms of photoinduced organometallic reactions. He then entered the group of Jack Halpern at the University of Chicago as an IBM Post-doctoral fellow where he worked on the catalytic chemistry of iridium polyhydride systems.

Alan began his independent career as an assistant professor at Rutgers University (1987) and became associate professor in 1993. In 2000 he was promoted to Professor at Rutgers University, NJ and subsequently, in July 2005, to the position of Professor II at Rutgers and continues to serve in this position. His work focuses on organometallic reaction chemistry, with emphasis on the activation of strong bonds and the development of catalysts, particularly for transformations of hydrocarbons such as the metathesis of alkanes. He was awarded the Union Carbide Innovation Recognition Award (1992 and 1993), the Rutgers Board of Trustees Fellowship for Scholarly Excellence (1993) and the Dupont Aid-to-Education Award in 1998. Alan also received the New Jersey Section of the American Chemical Society Pro Bono Award in 2008. He has served as the Vice-Chair (2007) and Chair (2008) of the Gordon Research Conference on Organometallic Chemistry.

More information: [http://chem.rutgers.edu/goldman\\_alan](http://chem.rutgers.edu/goldman_alan)





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**Gerard Roelfes  
University of Groningen, Holland**

Gerard Roelfes (born in 1972) obtained his PhD from the University of Groningen, the Netherlands in 2000, working under the guidance of Prof. Ben L. Feringa. His PhD research was on synthetic models for non-heme iron oxygenases, which was a joint project with Unilever Research (Dr. R. Hage) and the group of Prof. Lawrence Que Jr. at the University of Minnesota, in whose lab he carried out part of the work.

After his PhD, he went for a post-doc with Prof. Donald Hilvert in the Laboratorium für Organische Chemie of the ETH-Zürich (Switzerland), where he worked on synthetic strategies towards seleno-proteins, using a combination of chemical and biological methods.

In 2003 he returned to the University of Groningen as a junior research group leader. In 2006 he became Assistant Professor and since 2010 he is Associate Professor of Biomolecular Chemistry. Recently, in 2011, he has been awarded with an ERC starting grant.

More information: <http://roelfes.fmns.rug.nl>