

## Novartis Chemistry Lectureship 2012–2013

The Novartis Chemistry Lectureship is awarded for outstanding work in the field of organic and computational chemistry, including applications to biology. We feature the 2012–2013 lecturers here.

**Martin D. Burke** (University of Illinois at Urbana-Champaign) studied at Johns Hopkins University, and worked with Stuart L. Schreiber at Harvard University for his PhD, which was awarded in 2003. After completing his MD degree at Harvard Medical School, he joined the faculty at the University of Illinois at Urbana-Champaign in 2005. Burke's research interests are in the synthesis and study of small molecules that perform protein-like functions. His recent contributions to *Angewandte Chemie* include reports on the total synthesis of synechocyanthins (which was featured on the cover),<sup>[1a]</sup> and on an air-stable 2-pyridyl borane.<sup>[1b]</sup>

**Vy M. Dong** (University of California, Irvine) is interested in the direct conversion of carbon–hydrogen bonds into other functional groups, the use of carbon dioxide as a raw material, and the synthesis of biologically active heterocycles. Dong was featured in this section when she won the AstraZeneca Award in Chemistry.<sup>[2]</sup> She joined the University of California, Irvine, in 2012.

**Benjamin List** (Max Planck Institute for Coal Research, Mülheim an der Ruhr) was recently highlighted here when he won the Otto Bayer Award.<sup>[3a]</sup> His research involves the development of new concepts in organocatalysis, transition-metal catalysis, and biocatalysis. He has recently published a Review in *Angewandte Chemie* on asymmetric counterion-directed catalysis.<sup>[3b]</sup>

**Andrew J. Phillips** (Yale University) studied at the University of Canterbury (Christchurch, New Zealand), where he completed his PhD (supervised by Jonathan Morris) in 1999. After postdoctoral work with Peter Wipf at the University of Pittsburgh, he started his independent career at the University of Colorado in 2001, and moved to Yale University in 2010. Phillips' research interests are in the synthesis of natural products, and the development of small molecules that have the same biological effects as complex natural products. He has reported in *Angewandte Chemie* on the total syntheses of aburatubolactam A,<sup>[4a]</sup> and norhalichondrin B.<sup>[4b]</sup>

**Kai Johnsson** (École Polytechnique Fédérale de Lausanne; EPFL) studied at the Technische Universität Berlin and the ETH Zurich, and was awarded his PhD in 1992 for work supervised by Steven Benner. From 1992–1996, he was a postdoctoral fellow with Peter G. Schultz at the University of California, Berkeley, and from 1996–1999, he was a research assistant at the Ruhr-

Universität Bochum. He joined the EPFL in 1999. Johnsson's research involves the development and application of chemical approaches to study and manipulate protein function. His report on SNAP-tag fluorogenic probes was featured on a cover of *ChemBioChem*.<sup>[5]</sup>

**Mark S. P. Sansom** (University of Oxford) studied at the University of Oxford and received his doctorate (supervised by Louise Johnson) in 1983. He then joined the University of Nottingham, first as a research fellow and subsequently as lecturer, and returned to the University of Oxford in 1991. He is currently David Phillips Professor of Molecular Biophysics and Head of the Department of Biochemistry. Sansom's research interests are in the structure–function relationship of membrane proteins, and the use of computational methods to probe transient and dynamic interactions of membrane proteins. He has reported in *ChemPhysChem* on the use of molecular dynamics to study peptide conformation and dynamics.<sup>[6]</sup>

## Blaise Pascal Medal for Jean-Pierre Sauvage and Hans-Joachim Freund

The Blaise Pascal Medals are awarded annually by the European Academy of Sciences “to recognize an outstanding and demonstrated personal contribution to science and technology and the promotion of excellence in research and education” in various fields. Among the 2012 winners, Jean-Pierre Sauvage (Université de Strasbourg) and Hans-Joachim Freund (Fritz Haber Institute of the Max Planck Society, Berlin) received medals for chemistry and materials sciences, respectively, and were both elected to the European Academy of Sciences.

**Jean-Pierre Sauvage** was recognized for his work in the field of interlocked molecules. Sauvage studied at the Université Louis Pasteur, Strasbourg, where he obtained his PhD in 1971 for work supervised by Jean-Marie Lehn. He subsequently joined the CNRS as a researcher, carried out postdoctoral research with Malcolm L. H. Green at University of Oxford (1973–1974), and founded the “laboratoire de chimie organo-minérale” in 1980. He is currently professor emeritus and CNRS director of research emeritus at the Université de Strasbourg, and Distinguished Visiting Scholar at Northwestern University. Sauvage's research interests are in supramolecular chemistry, in particular mechanically interlocked molecular architectures such as catenanes, rotaxanes, and molecular knots, and molecular machines. He has reported in *Angewandte Chemie* on metal–organic frameworks incorporating copper-complexed rotaxanes,<sup>[7a]</sup> and in *Chemistry—A European Journal* on a copper(I)-complexed [4]rotaxane.<sup>[7b]</sup>

## Awarded ...



M. D. Burke



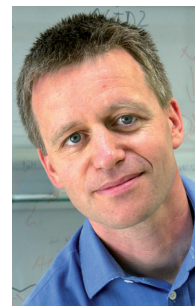
V. M. Dong



B. List



A. J. Phillips



K. Johnsson



M. S. P. Sansom



J.-P. Sauvage



H.-J. Freund



S. Röhrig

**Hans-Joachim Freund** received the award for his work on new materials and systems for heterogeneous catalysis, and on understanding the basis of heterogeneous catalysis. Freund was featured in this section when he won the Karl Ziegler Prize,<sup>[8]</sup> and was recently awarded the EuCheMS Award for Service.

### Meyer-Galow Prize for Susanne Röhrig

The Meyer-Galow Prize, which is sponsored by the Meyer-Galow Foundation and administered by the Gesellschaft Deutscher Chemiker (GDCh; German Chemical Society), is awarded to scientists in German-speaking countries who have been instrumental in a recent innovation that has been successfully introduced to the market. Susanne Röhrig (Bayer HealthCare) is the winner of the inaugural prize, and was honored for her contribution to the discovery and development of the novel anticoagulant rivaroxaban. Röhrig studied at the Ruhr-Universität Bochum, and received her PhD (supervised by Peter Welzel) from the University of Leipzig in 1997. After postdoctoral work with Peter H. Seeberger at the Massachusetts Institute of Technology, she joined the Institute of Medicinal Chemistry at Bayer HealthCare Pharmaceuticals. She is co-author of a Review in *Angewandte Chemie* on protease inhibitors.<sup>[9]</sup>

- [1] a) S. Fujii, S. Y. Chang, M. D. Burke, *Angew. Chem.* **2011**, 123, 8008; *Angew. Chem. Int. Ed.* **2011**, 50, 7862; b) G. R. Dick, E. M. Woerly, M. D. Burke, *Angew.*

*Chem.* **2012**, 124, 2721; *Angew. Chem. Int. Ed.* **2012**, 51, 2667.

- [2] *Angew. Chem.* **2011**, 123, 827; *Angew. Chem. Int. Ed.* **2011**, 50, 801.  
[3] a) *Angew. Chem.* **2012**, 123, 6416; *Angew. Chem. Int. Ed.* **2012**, 51, 6310; b) M. Mahlau, B. List, *Angew. Chem.* **2013**, 125, 540; *Angew. Chem. Int. Ed.* **2013**, 52, 518.  
[4] a) J. A. Henderson, A. J. Phillips, *Angew. Chem.* **2008**, 120, 8627; *Angew. Chem. Int. Ed.* **2008**, 47, 8499; b) K. L. Jackson, J. A. Henderson, H. Motoyoshi, A. J. Phillips, *Angew. Chem.* **2009**, 121, 2382; *Angew. Chem. Int. Ed.* **2009**, 48, 2346.  
[5] M.-P. Durrieu, P. J. Bond, M. S. P. Sansom, R. Lavery, M. Baaden, *ChemPhysChem* **2009**, 10, 1548.  
[6] X. Sun, A. Zhang, B. Baker, L. Sun, A. Howard, J. Buswell, D. Maurel, A. Masharina, K. Johnsson, C. J. Noren, M.-Q. Xu, I. R. Corrêa, Jr., *ChemBioChem* **2011**, 12, 2217.  
[7] a) A. Coskun, M. Hmadeh, G. Barin, F. Gándara, Q. Li, E. Choi, N. L. Strutt, D. B. Cordes, A. M. Z. Slawin, J. F. Stoddart, J.-P. Sauvage, O. M. Yaghi, *Angew. Chem.* **2012**, 124, 2202; *Angew. Chem. Int. Ed.* **2012**, 51, 2160; b) C. Roche, A. Sour, J.-P. Sauvage, *Chem. Eur. J.* **2012**, 18, 8366.  
[8] *Angew. Chem.* **2011**, 123, 8619; *Angew. Chem. Int. Ed.* **2011**, 50, 8469.  
[9] A. Straub, S. Roehrig, A. Hillisch, *Angew. Chem.* **2011**, 123, 4670; *Angew. Chem. Int. Ed.* **2011**, 50, 4574.

DOI: 10.1002/anie.201209204

In this section, we report on various awards for chemists who are closely connected with *Angewandte Chemie* and its sister journals as authors and referees.