

Elected ...

New Members of the National Academy of Sciences



R. G. Cooks



S. Granick



T. Ha



M. Head-Gordon



S. Mukamel



C. J. Murphy

The US National Academy of Sciences recently elected 84 new Members and 21 new Foreign Associates. We congratulate all those elected and feature those who have recently published in *Angewandte Chemie* and its sister journals.

**R. Graham Cooks** (Purdue University) was highlighted here when he won the F. A. Cotton Medal.<sup>[1a]</sup> His most recent contribution to *Angewandte Chemie* is a report on the relay electrospray ionization technique.<sup>[1b]</sup>

**Steve Granick** (Institute of Basic Science and Ulsan National Institute of Science and Technology (UNIST), Korea) was highlighted here when he was awarded the ACS Award in Colloid & Surface Chemistry.<sup>[2a]</sup> He is presently Director of the Center for Soft and Living Matter of the Institute of Basic Science and Professor of Chemistry and Physics at UNIST. He has reported in *Angewandte Chemie* on the synthesis and assembly of colloidal metal-organic frameworks.<sup>[2b]</sup>

**Taekjip Ha** (University of Illinois at Urbana-Champaign) studied at Seoul National University and the University of California, Berkeley, and was awarded his PhD in 1996 for work supervised by Shimon Weiss and Daniel Chemla at Berkeley. After postdoctoral research at Berkeley (1997) and with Steven Chu at Stanford University (1998–2000), he joined the faculty at the University of Illinois in 2000 and is currently Edward William and Jane Marr Gutsell Endowed Professor and Director of the Center for Biophysics and Quantitative Biology at Illinois, as well as a Howard Hughes Medical Institute Investigator and WCU Professor at Seoul National University. Ha's research interests involve the use of physical concepts and experimental techniques to study fundamental questions in molecular biology. He is co-author of a report in *ChemBioChem* on selective ligands for DNA quadruplexes.<sup>[3]</sup>

**Martin Head-Gordon** (University of California, Berkeley) studied at Monash University, and worked with John A. Pople at Carnegie Mellon University for his PhD (completed in 1989). From 1989–1992, he was a postdoctoral researcher with John C. Tully at Bell Laboratories, Murray Hill, and in 1992, he joined the faculty at the University of California, Berkeley, where he is currently Professor of Chemistry and Kenneth S. Pitzer Distinguished Professor, and also senior faculty scientist at the Lawrence Berkeley National Laboratory. Head-Gordon's research involves the development and application of electronic structure theory methods for molecular systems, in particular linear scaling algorithms, widely used density functionals, and a range of correlated wavefunction methods. He is co-author of a report in *ChemSus-*

*Chem* on the activity of silica-supported secondary amines.<sup>[4]</sup>

**Shaul Mukamel** (University of California, Irvine) studied at Tel Aviv University, where he completed his PhD in 1976. From 1976–1977, he was a research associate at the Massachusetts Institute of Technology, and from 1977–1978, he was lecturer at the University of California, Berkeley. From 1978–1979, he was on the faculty at Rice University, Houston, and from 1981–1982, he was senior scientist at the Weizmann Institute of Science, Rehovot. In 1982, he joined the faculty at the University of Rochester, and in 2002, he moved to the University of California, Irvine, where he is currently Distinguished Professor of Chemistry. He is also Sackler Professor by Special Appointment at Tel Aviv University. Mukamel is on the Editorial Advisory Board of *ChemPhysChem*. His research is centered on the design of novel ultrafast multi-dimensional coherent optical spectroscopic techniques for probing and controlling electronic and vibrational dynamics in molecules, semiconductors, and biological systems. He has reported in *ChemPhysChem* on simulation studies of intermediates in the cytochrome P450 catalytic cycle.<sup>[5]</sup>

**Catherine J. Murphy** (University of Illinois at Urbana-Champaign) studied at the University of Illinois, and completed her PhD (supervised by Arthur B. Ellis) at the University of Wisconsin–Madison in 1990. After postdoctoral work with Jacqueline K. Barton at the California Institute of Technology (1990–1993), she started her independent career at the University of South Carolina in 1993. She was made Peter C. and Gretchen Miller Markunas Professor of Chemistry at the University of Illinois in 2009. Murphy's research program involves the synthesis, growth, and properties of inorganic (principally gold) nanomaterials for optical and biophysical applications, and their effect on the physical properties of DNA. She has reported in *Small* on the effect of gold nanoparticle aggregation on cells.<sup>[6]</sup>

**Daniel M. Neumark** (University of California, Berkeley) studied at Harvard University, and received his PhD in 1984 for work supervised by Yuan Lee at the University of California, Berkeley. After postdoctoral research at the University of Colorado, Boulder, he joined the faculty at Berkeley in 1986. Neumark's research program is centered on reaction dynamics and spectroscopy. He has reported in *Angewandte Chemie* on the dynamics of the reaction between fluorine and methane.<sup>[7]</sup>

**John A. Rogers** (University of Illinois at Urbana-Champaign) was featured here when he won the Lemelson–MIT Prize.<sup>[8a]</sup> He has recently reported in *Advanced Functional Materials* on materials for transient electronics.<sup>[8b]</sup>

## New Fellows of the Royal Society

The UK Royal Society recently elected 47 new Fellows and 10 new Foreign Members, and we feature a selection of them here.

**Andrew I. Cooper** (University of Liverpool) was featured here when he won the Royal Society of Chemistry Tilden Prize.<sup>[9]</sup>

**Benjamin G. Davis** (University of Oxford) studied at the University of Oxford, where he received his doctorate in 1996 for work supervised by George W. J. Fleet. After postdoctoral work with Bryan Jones at the University of Toronto (1996–1998), he started his independent career at the University of Durham in 1998. He moved to the University of Oxford in 2001 and is currently professor. Davis and his research group are interested in the chemistry, chemical biology, and biotechnology of carbohydrates and proteins. He has recently reported in the *Israel Journal of Chemistry* on triply divergent glycoprotein synthesis.<sup>[10]</sup> Davis is on the Editorial Board of *ChemBioChem*.

**Roger A. Sheldon** (Delft University of Technology) started his career as a laboratory technician at the Boots Pure Drug Company. He carried out his PhD (completed in 1967) with Stuart Trippett and Stephen Davidson at the University of Leicester, and from 1967–1969, he was a postdoctoral researcher with Jay Kochi at Case Western Reserve University and Indiana University. From 1969–1980, he worked at Shell Research Laboratories, Amsterdam, and from 1980–1991, he was Vice-President of Research and Development at DSM Andeno. In 1991, he was made Professor of Biocatalysis and Organic Chemistry at Delft University of Technology (where he has been emeritus professor since 2007). He is also Chief Executive Officer of CLEA Technologies, and Professor of Biocatalysis Engineering in the School of Chemistry at the University of the Witwatersrand. Sheldon's current research interests are in the general area of green chemistry, (bio)catalysis, and chemicals from renewable biomass. He has contributed a chapter on green catalytic oxidations to the book *Metal-Catalyzed Oxidations in Water*.<sup>[11]</sup> Sheldon is on the International Advisory Board of *ChemSusChem*.

**Henry J. Snaith** (University of Oxford) worked with Sir Richard H. Friend at the University of Cambridge for his PhD, and carried out postdoctoral research with Michael Grätzel at the École Polytechnique Fédérale de Lausanne. After a

research fellowship at Cambridge, he joined the faculty at the University of Oxford in 2007. He is also Chief Scientific Officer and Co-founder of Oxford Photovoltaics. Snaith is interested in photovoltaic processes and optoelectronic devices. His Minireview on inorganic–organic perovskite thin films for solar cells was published in the special issue of *Angewandte Chemie* to mark 150 years of BASF.<sup>[12]</sup>

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



D. M. Neumark



J. A. Rogers



A. I. Cooper



B. G. Davis



R. A. Sheldon



H. J. Snaith