

## Meet the Board

### Greg Ayers



Greg Ayers is Chief of CSIRO's Division of Atmospheric Research, with interests including the global atmospheric sulfur cycle, atmospheric acid formation and deposition, climate change, marine and polar atmospheric chemistry, and science and technology transfer into developing countries. He gained his Ph.D. (1976) from Monash University, Melbourne, and was the recipient of the 1995 Priestley Medal of the Australian Meteorological and Oceanographic Society.

**CSIRO Atmospheric Research, Melbourne, Australia**

### Graeme Batley



Graeme Batley is Chief Research Scientist and Manager of the Centre for Advanced Analytical Chemistry, CSIRO Energy Technology. He has B.Sc., M.Sc., Ph.D., and D.Sc. degrees from the University of New South Wales, Sydney. His active research is in the analytical and environmental chemistry of contaminants in natural waters and sediments, with particular interest in metals and metal speciation. He has authored over 270 research publications, and was a lead author of the revised Australian and New Zealand water quality guidelines. He was a recipient of both Environment and Analytical Medals of the RACI and of the CSIRO Chairman's Medal.

**CSIRO Energy Technology, Sydney, Australia**

### Peter Brimblecombe



Born in Australia, educated in Auckland, New Zealand, and now Professor at the School of Environmental Sciences, University of East Anglia, the consistent stream in Peter Brimblecombe's professional life has been his interest in air pollution. His current research interests include the thermodynamics of the concentrated aqueous aerosols in relation to the chemistry of polar stratospheric cloud droplets, the chemistry of forest smoke, and damage to materials by air pollutants. The historical and cultural aspects of atmospheric pollution formed the subject his book, *The Big Smoke*.

**University of East Anglia, Norwich, England**

### Peter Campbell



Peter Campbell is interested in the biogeochemistry of metals in the aqueous environment. Current research topics include elements of analytical chemistry (establishing methods to determine metal speciation), geochemistry (identifying factors controlling metal speciation in natural waters), and ecotoxicology (developing predictive models to relate biological responses elicited by a metal to its speciation). He completed his under- and postgraduate studies at Bishop's and Queen's Universities, respectively, and presently holds a Canada Research Chair in Metal Ecotoxicology.

**Université du Québec, INRS, Québec City, Canada**

### Greg Carmichael



Greg Carmichael commenced his career in chemical engineering at the Iowa State University (B.S. 1974) before crossing Illinois to the University of Kentucky (M.S. 1975, Ph.D. 1978) then back again in 1985 as Professor of Chemical Engineering at the University of Iowa. He has been a Director of the Center for Global and Regional Environmental Research, among many other positions. His main research is focussed on atmospheric pollutant modelling, and was the recipient of the Priestley Medal in 2003.

**University of Iowa, Iowa City, USA**

### Terry Collins



Terry Collins is the Thomas Lord Professor of Chemistry at Carnegie Mellon University, where he directs the Institute of Green Oxidation Chemistry, and is also Honorary Professor at the University of Auckland, New Zealand, where he received his degrees (B.Sc. 1974, M.Sc. 1975, Ph.D. 1978). His research program is focussed on greening oxidation technologies and chemical sustainability. Among his research awards are the 1998 Presidential Green Chemistry Challenge Award, the 1997 Award of the Japanese Society for Pure and Applied Coordination Chemistry, a Dreyfus Teacher-Scholar Award, and an Alfred P. Sloan Fellowship. He is currently an Associate Editor of *Green Chemistry* and also serves on several Editorial Advisory Boards.

**Carnegie Mellon University, Pittsburgh, USA**

**Bill Davison****Lancaster University, Lancaster, England**

Bill Davison, Professor of Environmental Chemistry at Lancaster, has research interests oriented around inorganic components in natural waters. Specific interests and projects focus on the geochemistry and bioavailability of metals, sulfur, and radionuclides in aqueous environments, the extensions to the dynamics and mechanisms of solute–solid phase interactions in soils and waters, and metal release from sediments.

**Olivier Donard****Université de Pau et des Pays de l'Adour, Pau Cédex, France**

Olivier Donard is a Research Director at the CNRS, working in the Laboratoire de Chimie Analytique Bioinorganique et Environnement. His main research interests are in the fate and translocation of metal species and organometallic compounds between different compartments of the environment. These results were obtained by pioneering approaches in both sample preparation and derivatization, and the development of hyphenated techniques using atomic spectroscopy as detector (AAS, AFS, ICP/AES, ICP/MS) for the routine use of metal species determination. His work has led to more than 180 publications.

**Jörg Feldmann****University of Aberdeen, Aberdeen, Scotland**

The major targets of Jörg Feldmann's research are metal speciation in biogeochemistry and the related investigation of microbiological transformations of inorganic metallic compounds into their organometallic counterparts. His current special interest is the generation of volatile metal(loid) compounds and their precursor and metabolite compounds, both in the environment and in the arsenic metabolism.

**Kevin Francesconi****Karl-Franzens-University Graz, Graz, Austria**

Kevin Francesconi's began his career as an analytical chemist. He then worked as a research scientist in the Australian Marine Research Laboratories, Perth, Australia, then at age 43 he took up a five-year position in Odense, Denmark, which led to his current position as Professor of Analytical Chemistry in Graz. His interests lie in the fundamental processes of metal cycling in environmental and biological systems, especially the toxicological roles of organoselenium and organoarsenic compounds.

**Keith Hunter****Otago University, Dunedin, New Zealand**

Marine and freshwater systems are Keith Hunter's main field of research. His interests include chemical equilibria in waters, particularly of CO<sub>2</sub> and of trace metals interacting with phytoplankton. Other projects are involved with colloidal kinetics in marine and freshwater systems, and the sea–surface and sediment–water interfaces. He holds a personal chair at Otago University, where he has been since 1979.

**Bill Maher****University of Canberra, Canberra, Australia**

Bill Maher (M.App.Sci. 1977, Ph.D. 1981) is a professor in environmental/analytical chemistry at the University of Canberra. His research interests are the biogeochemical cycling of trace metals, metalloids, and nutrients in aquatic ecosystems, development of water quality and sampling guidelines, and developing analytical procedures for measuring trace contaminants in waters, biota, and sediments. He is the director of the Ecochemistry Laboratories at the University of Canberra. He was awarded the RACI Analytical Division's medal in 2002.

**Mario Molina****Massachusetts Institute of Technology, Cambridge, USA**

Mario Molina is concerned with the chemistry of the atmosphere and with the various ways in which human society can affect it. He aspires to understand, at a fundamental level, the key atmospheric chemical processes that have important consequences. He was born in Mexico City, Mexico, and was awarded his Ph.D. (1972) from the University of California, Berkeley. He came to MIT in 1989 and was named MIT Institute Professor in 1997. He has received several awards, including a share in the 1995 Nobel Prize in Chemistry.

**Simon Petrie**

**Australian National University, Canberra, Australia**



Simon Petrie is a senior research fellow in the Inorganic Computational Chemistry Group in the Chemistry Department of the ANU. He has a longstanding research interest in the chemistry of extraterrestrial/astrophysical environments. His recent work in this field (in Australia, since 1994) has been as a quantum chemist, building on a background of experience in related experimental studies (in New Zealand and Canada, until 1993) in gas-phase ion/molecule chemistry.

**F. Sherwood Rowland**

**University of California, Irvine, USA**



Sherwood Rowland is the Donald Bren Research Professor of Chemistry and Earth System Science at the University of California, Irvine. After holding faculty positions at Princeton University and the University of Kansas, he came to the newly founded University of California Irvine in 1964 as the first chair of the Department of Chemistry. As Foreign Secretary of the National Academy of Sciences, he helped create the InterAcademy Panel on International Issues in 1995. He is well known for his research on trace chemicals in the atmosphere, including chlorofluorocarbons and methane, and for his share in the 1995 Nobel Prize in Chemistry.

**Shizuo Tsunogai**

**Hokkaido University, Sapporo, Japan**



Shizuo Tsunogai is now Professor Emeritus of Hokkaido University at the Graduate School of Environmental Earth Science. He was educated at Tokyo Kyoiku University (M.S. 1963, D.Sc. 1966) and thereafter came to Hokkaido University. His research involves the geochemical cycling of chemical substances, especially in the ocean-atmosphere system. He has won a number of prizes, including those of the Oceanographic Society of Japan, the Geochemical Society of Japan Prize, and the Distinguished Service Prize for Analytical Chemistry in Hokkaido.

**Kevin Wilkinson**

**University of Geneva, Geneva, Switzerland**



Kevin Wilkinson was educated in Canada (Ph.D. 1993 University of Québec) and is now at the Biophysical Environmental Chemistry Group at the University of Geneva. His research interests lie in the chemical nature and physical structure of natural colloids and biopolymers, as well as their association with bacteria and viruses, focussing on trace metal accumulation by microorganisms. New instrumental analytical techniques to characterize these complex systems are also of prime interest.

**Paul Worsfold**

**University of Plymouth, Plymouth, England**



Paul Worsfold is currently Director of the Plymouth Environmental Research Centre at the University of Plymouth. His nomadic career led him to Germany and the Netherlands for industry, Canada for a Ph.D., Denmark for a postdoc, then back to England in 1990. His research activities centre on the design and deployment of remote analytical systems, with specific projects for monitoring nutrients in water catchments. He has been awarded numerous prizes and fellowships.