

Meet the Editorial Advisory Board of Environmental Chemistry

Graeme Batley, CSIRO Energy Technology, Sydney, Australia



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.

Peter Brimblecombe, University of East Anglia, Norwich, England



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*.

Jill Cainey, Bureau of Meteorology, Tasmania, Australia



Jill Cainey completed her Ph.D. at Monash University and CSIRO Atmospheric Research, studying the atmospheric sulfur cycle at Cape Grim in Tasmania. After 5 years at National Institute of Water and Atmospheric Research (NIWA), New Zealand, assessing the sulfur cycle using sulfur isotopes, she returned to Australia in 2003 to manage the Cape Grim Baseline Air Pollution Station. Her recent work has focussed on the role of micro- and macro-algae in initiating particle formation and assessing the sources of cloud condensation nuclei at Cape Grim. She is the Surface Ocean Lower Atmosphere Study (SOLAS) representative for Australia and enjoys working across the sea-air interface, which allows her to spend plenty of time messing about in and on the water.

Peter Campbell, Université du Québec, INRS, Québec City, Canada



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.

Greg Carmichael, University of Iowa, Iowa City, USA



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 Priestly Medal in 2003.

Zhongming Chen, Peking University, Beijing, China



Dr. Zhongming Chen is Professor of Atmospheric Chemistry at Peking University, Beijing, China. His research interests are focused on the laboratory study for atmospheric

chemical kinetics and mechanisms in gaseous, aqueous and heterogeneous phases, and field measurement for atmospheric intermediate compounds including peroxides and carbonyl compounds, aimed at understanding the cycle of atmospheric oxidants and its relationship with climate change and human health on a regional and global scale. He received his PhD in Environmental Chemistry at Peking University in July 1995 and has served there since its completion. He was Visiting Scholar at the Laboratoire De Combustion Et Systems Reactifs (now ICARE), CNRS, Orleans, France in 1996, and was COE Guest Professor and JSPS Researcher at the Institute for Hydrospheric-Atmospheric Sciences, Nagoya University, Nagoya, Japan in 1998-2000.

Terry Collins, Carnegie Mellon University, Pittsburgh, USA



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.

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.

Montserrat Filella, University of Geneva, Switzerland



Montserrat Filella undertook her Ph.D. studies in the University of Barcelona and the UWIST (U.K.). They were followed by post-doctoral studies in different research groups. Dr Filella teaches Environmental Chemistry at the University of Geneva, where she arrived in 1987. Since 2007 she also works in the development of a society specialised on fundamental research in environmental chemistry in Luxembourg. Her main research interests focus on the understanding of the physicochemical processes regulating the behaviour of chemical elements in environmental and biological compartments, mainly by combining computer modelling with field and laboratory measurements. The three main axes of her research concern the study of:

colloids in natural waters, natural organic matter, and Group 15 elements. She is currently the task group leader of an IUPAC project concerning the building of a Humic-Metal Binding Constants Database.

Tony Haymet, Scripps Institution of Oceanography, La Jolla, USA

Ole Hertel, University of Aarhus, Denmark



Environment.

Ole Hertel is Head of Section at the National Environmental Research Institute, University of Aarhus, Denmark. His research interests are in the assessment of atmospheric deposition of nitrogen to marine and terrestrial ecosystems, and in the assessment of human exposure to air pollution. He received his M.Sc. from University Aalborg, Denmark, his Ph.D. from the University of Bergen, Norway, and his EBA from the Engineering College of Copenhagen. He is titular member of the IUPAC Division for Chemistry of the

Barry Huebert, University of Hawaii, Honolulu, USA



fondness for Lagrangian experiments, marine gas exchange, disturbing the status quo, and chocolate. His grandchildren are cuter than yours.

Barry Huebert studied chemistry (B.A. Occidental 1967) and physical chemistry (Ph.D. Northwestern 1970) during the Vietnam War and the first Earth Day. His preference for the latter got him into airborne research on HNO_3 and aerosols, while long physical chemistry laboratory reports made him forever concerned about measurement errors and uncertainties (especially those as a result of aerosol inlets). His present work at the University of Hawaii, where he is professor of oceanography, centers on quantifying the factors that control gas exchange using dimethylsulfide eddy flux measurements under many conditions. He has a

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_2 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.

Scott Mabury, University of Toronto, Canada

Mike McLaughlin, CSIRO and University of Adelaide, Australia



remediation of contaminated soils.

Mike McLaughlin is currently a Director of CSIRO's Centre for Environmental Contaminants Research and also a Professor in the School of Earth and Environmental Sciences at The University of Adelaide, Australia. He received his undergraduate training at the University of Ulster in Northern Ireland, and postgraduate degrees from Reading University, UK and The University of Adelaide. Mike's research interests are principally in environmental chemistry, specifically the behaviour and toxicity of nutrients and

Bill Maher, University of Canberra, Canberra, Australia



Division's medal in 2002.

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

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.

John Seinfeld, California Institute of Technology, USA



John H. Seinfeld is the Louis E. Nohl Professor in the Divisions of Chemistry and Chemical Engineering and Engineering and Applied Science at the California Institute of Technology. He is a member of the U.S. National Academy of Engineering and a Fellow of the American Academy of Arts and Sciences. He is a Fellow of the American Association for the Advancement of Science, the American Institute of Chemical Engineers, and the American Geophysical Union. He was President of the American Association for Aerosol Research. He was chairman of the NASA Working Group on Scientific Research Objectives in Tropospheric Pollution and served on the EPA Clean Air Scientific Advisory Committee and the NASA Advisory Council. He was chairman of the National Research Council Committee on Tropospheric Ozone Formation and Measurement and of the NRC Panel on Aerosol Radiative Forcing and Climate. He served as Vice Chair of the NRC Committee on Atmospheric Chemistry. Professor Seinfeld is the author of numerous scientific papers and books, including *Atmospheric Chemistry and Physics: From Air Pollution to Climate Change* (1998; second edition, 2006). He is the recipient of honorary doctorates from the University of Patras (Greece), Carnegie Mellon University, and Clarkson University.

Shinsuke Tanabe, Ehime University, Japan



Shinsuke Tanabe is an internationally acclaimed environmental chemist and ecotoxicologist in the field of Persistent Toxic Substances (PTS). He received his M.Sc. from Ehime University (1975) and Ph.D. from Nagoya University (1985), Japan. He has authored nearly 330 original scientific publications and 70 book chapters and articles, both in English and Japanese. Presently, he is a Professor at the prestigious Center for Marine Environmental Studies (CMES), Ehime University, Japan. His many research awards include the Okada Prize from the Oceanographical Society of Japan (1985), the Nissan Science Prize from Nissan Science Foundation (1999), the Academic Achievement Awards from the Japan Society for Environmental Chemistry (2004) and the 2005 SETAC (Society of Environmental Toxicology and Chemistry) Founders Award (2005).

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.

Jonathan Williams, Max Planck Institute for Chemistry, Germany



Jonathan Williams is an atmospheric chemist. He received his B.Sc. in Chemistry and French and his Ph.D. in Environmental Science from the University of East Anglia, England. Between 1995 and 1997, he worked at the NOAA Aeronomy laboratory in Boulder, USA. He has participated in many international field campaigns, on aircraft and ships, and at ground stations. His present research involves investigating the chemistry of reactive organic species in the atmosphere, and he leads a group with this aim at the Max Planck Institute for Chemistry in Mainz, Germany. In his spare time he enjoys sailing, swimming and the occasional beer.

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.