

Meet the Authors



Bruce L.A. Charlier currently holds a Natural Environment Research Council Fellowship in isotope geochemistry at the Open University. He obtained a BSc from Brunel University and a PhD from

the Open University, which was followed by a postdoctoral researcher position at Durham University. His main research interests center on the quantification of rates and timescales of magmatic processes, in particular through studies of U-series disequilibrium in zircon from young, highly evolved magmatic systems. His research also focuses on the extraction of isotopic information recorded at single-crystal scale in order to constrain magmatic pathways. He has developed novel sampling and mass spectrometric methodologies to obtain this level of detail.



Fidel Costa studied Earth sciences at the University of Barcelona and moved to Geneva to do a PhD in geochemistry and igneous petrology. He was a Marie Curie Fellow at the CNRS-ISTO in Orléans (France)

and held a postdoctoral position at the Ruhr-Universität Bochum (Germany). He is currently a Ramon y Cajal Fellow at the CSIC (Institut Jaume Almera) in Barcelona. He combines natural observations with experimental work and numerical modeling to understand the pre-eruptive conditions and dynamics of magmas below volcanoes, the kinetics of element migration in minerals, and the duration of magmatic processes.



Jon P. Davidson became aware of the power of combining isotopic approaches with petrographic and textural criteria in igneous rocks while at UCLA (1988–2000). He subsequently moved to

Durham as chair of Earth Sciences, where he built the TiMAG (textural and isotopic microanalysis group) research group with Dougal Jerram. He received his BSc from Durham University and PhD from Leeds before crossing the Atlantic for postdoctoral appointments at SMU and Michigan. His research interests have focused on combining field, petrographic and geochemical perspectives to understand volcanoes, subduction zones and the origin of the crust. In 1998 he was awarded the Wager Medal of IAVCEI. Currently he chairs the Volcanic and Magmatic Studies Group (VMSG) of the Geological Society of London.



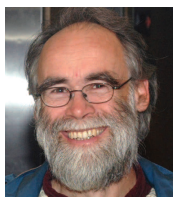
Catherine Ginibre received her master's degree in experimental petrology in Rennes (France). She did her PhD (2000) in Göttingen (Germany) using the electron microprobe to study zoning patterns in

feldspars. She received a Marie Curie Fellowship for postdoctoral research at Durham, where she worked on Sr isotope microsampling techniques. In Geneva (Switzerland) since 2004, she studies the relationships among fluids, melts and crust in the Andes using a combination of microanalytical methods (electron microscope and microprobe, Raman spectroscopy, LA-ICP-MS, fluid inclusion microthermometry). She is also in charge of Geneva users of the electron microprobe in Lausanne.



Taber G. Hersum is interested in the dynamics of multiphase geological materials, particularly applied to the understanding of magmatic systems. Much of his work is

focused on using numerical models to simulate grain-scale processes, such as phase change, elastic deformation, and porous melt flow, in partially molten rocks. This work is complemented by field studies in localities such as the McMurdo Dry Valleys of Antarctica. He received his education in geology and applied mathematics at Washington (BS 2001) and Johns Hopkins University (PhD 2005). He is currently a postdoctoral fellow at the Lamont-Doherty Earth Observatory.



Michael D. Higgins studied at Cambridge and Newcastle-upon-Tyne before moving to Canada for his PhD at McGill University in Montreal. The idea of having a whole

80-kilometer diameter mafic intrusion to himself appealed, and he has been in Canada ever since, now at the Université du Québec à Chicoutimi. His interest in quantitative textural analysis grew out of a study of anorthosite. Since then he has studied the textures of many other igneous rocks, culminating in a book on the subject published last year by Cambridge University Press. He has also worked in geochronology and meteoritics, and his first book was on the links between the geology and archeology of Greece.



Dougal A. Jerram is based at Durham University where he currently holds the TOTAL Lectureship, having joined as the Elf Research Fellow in 1998. He completed his PhD in the development of

textural analysis techniques at Liverpool and moved to the University of Würzburg in 1996, where he expanded his research into flood basalts and associated basins. He has published extensively in the fields of rock microstructure and textural analysis, 2D and 3D modeling of textures and volcanic basins, volcanology, and field geology. His main areas of research involve innovative textural analysis of rocks, understanding the development of crystal populations in igneous rocks, and the onset and evolution of flood basalt provinces. In 2006 he received an award from the Murchison Fund of the Geological Society of London, in recognition of his early significant contribution to Earth sciences.



Andreas Kronz studied mineralogy at the University of Mainz (Germany), where he received his doctorate in 1997. The same year, he moved to Göttingen to set up and

direct the electron microprobe lab in the Department of Geochemistry. His research interests focus on a variety of topics where in situ analytical techniques can be combined. Improving electron microprobe analytics to quantify low element concentrations led to a number of new applications focused on minor element concentrations in common minerals such as quartz, rutile, feldspar, and zircon. He is also interested in archeometry.



Bruce D. Marsh is interested in all the physical and chemical aspects of the generation, extraction, collection, ascension, emplacement, and eruption of magma. He enjoys blending field

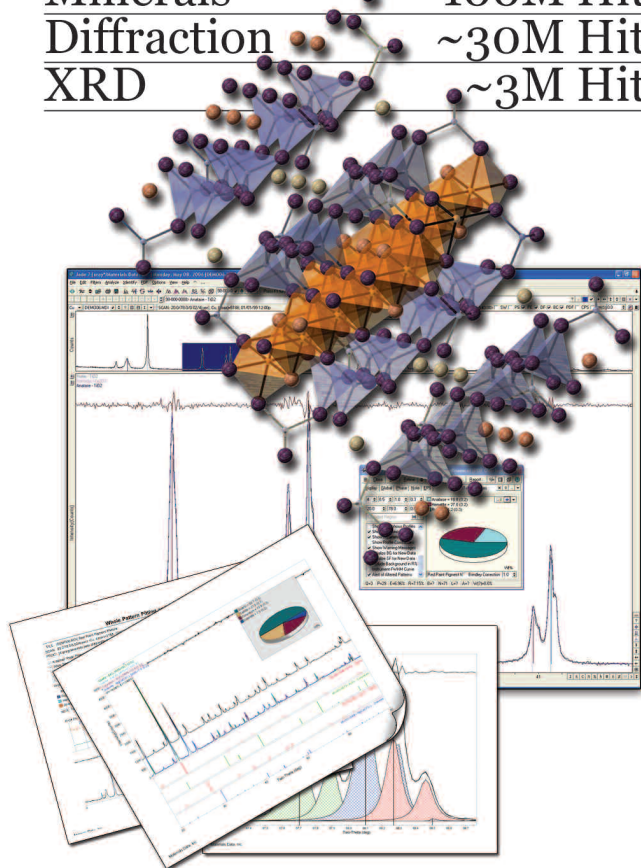
geology with complementary laboratory experiments and theoretical analyses. At the same time, he maintains a keen appreciation of the people, history, and art of doing science in all fields of natural science and exploration. He was born and raised in the woods of the Upper Peninsula of Michigan and received his education in geology, geophysics, and geochemistry at Michigan State (BSc), Arizona (MSc), and Berkeley (PhD). He has been on the faculty at Johns Hopkins University since 1974. His present principal field areas are the McMurdo Dry Valleys of Antarctica and the Sudbury impact feature.

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Daniel J. Morgan obtained his PhD in 2003 from the Open University, focusing on the timescales of magmatic processes at Vesuvius volcano. Since then he has worked as a PDRA at Durham University with the EU-funded ERUPT project and as a Marie Curie research fellow at Université Joseph Fourier, Grenoble. In early 2007 he won a President's Award from the Geological Society of London. He is currently a lecturer at the University of Leeds, UK.



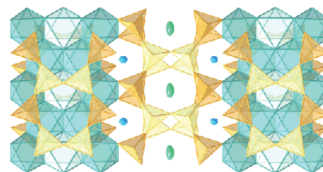
Simon Turner is an ARC Federation Fellow and professor of geochemistry at Macquarie University. He previously held a Royal Society University Research Fellowship at the Open University and then Bristol University in the UK. His interests include the origins of post-orogenic granites and shoshonitic rocks, detrital mineral ages and sediment provenance, the origins and timing of continental flood basalts, the petrogenesis of ocean island basalts, and the formation of subduction-related magmas. Recently, he has concentrated his work on short-lived (U-series) isotope studies and the timescales of natural processes, especially magma formation, segregation, and differentiation as well as erosion and soil formation.



Gerhard W. Rner received his master's and PhD degrees at the University Bochum. During his PhD, he spent one year in the US, working with the USGS. In 1980, he witnessed the Mount St. Helens eruption as a member of the USGS team. Since then he has worked on the eruption, origin, and differentiation of magmas and the evolution of magma systems in varied tectonic settings (Central Andes, Costa Rica, Panama, Kamchatka, Antarctica, Europe). He became a professor of geochemistry at the University of Göttingen in 1993. He has received several prizes for his work, including the Leibniz Prize of the German Science Foundation.

Accademia Nazionale dei Lincei and Mineralogical Society of America organise a Short Course on AMPHIBOLES

Rome, 29–31 October 2007



Lectures will focus on the main topics of relevance for the understanding of the crystal chemistry of the amphiboles and their role in petrologic and geochemical studies as well as of risks for human health due to

exposure to fibrous amphiboles. The approach and the general expertise will be of interest for people involved in studies of mineral crystal-chemistry and structure–property relations.

In addition to the invited lectures, the short course will provide time for oral and poster contributions by the attendees. A new volume of the RIM&G series will be prepared and distributed, and manuscripts will be collected for a special issue of the *European Journal of Mineralogy*.

SPEAKERS WILL INCLUDE: R. Oberti, F. Cámara (CNR-IGG), C. Cipriani, A. Mottana (ANL), G. Della Ventura (Univ. Roma Tre), M.E. Gunter (Univ. of Idaho), F.C. Hawthorne (Univ. of Manitoba), W. Maresch (Ruhr Univ. Bochum), R.F. Martin (McGill Univ.), J.C. Schumacher (Univ. Bristol), M.D. Welch (Natural History Museum, London).

CONVENORS: G. Della Ventura, F.C. Hawthorne, A. Mottana, R. Oberti

Info: www_crystal.unipv.it/Amphiboles/home.htm