SOCIETY NEWS



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Mineralogical Society of Great Britain and Ireland

FROM THE PRESIDENT



On behalf of the members, I would like to thank outgoing President Ben Harte for his service in leading the Society during the last two years. Ben has presided over the Society during a period of rapid change: our permanent staff are now installed in new, Societyowned office facilities in Twickenham; Kevin Murphy has taken over from Adrian Lloyd-Lawrence as

Executive Director; we now have a Distinguished Lecture Programme; we have a new awards committee; and the structure of our membership categories has been overhauled. Ben also presided over 'Frontiers in Mineral Sciences', a very successful joint meeting with the US, Canadian and French mineralogical societies.

While the next two years will not be as full of major decisions for the Society, we should try to maintain some of the positive momentum which Ben has established. I would like to encourage you all to take advantage of what the Society has to offer.

First, there is a new student membership scheme in which students are entitled to free membership for one year. This entitles them to receive *Elements* and gives them access to MinSoc's generous travel bursary programme. Please encourage students around you to join. If you are already in receipt of a free student membership, I hope that you are enjoying the benefits of being part of a vigorous, active, professional organization. I also hope that you will continue your membership to the next level and so contribute to the professional health of our science.

Second, watch for the activities of the special interest groups. For example, the Volcanic and Magmatic Studies Group is organising a field trip to the famous Ardnamurchan ring complex (5–10 September), the Clay Minerals Group will hold a meeting on the theme 'Aluminium and silicon in soils and the environment' in Aberdeen (3-5 September), and a summer school on synchrotron radiation techniques in Earth and environmental science will be held in Oxford (12-15 August). The Society's main meeting for 2008 is Geochemistry of the Earth's Surface 8 (London, 17-22 August), a joint venture with the IAGC and the Natural History Museum. All the groups welcome volunteers with ideas and energy to promote their subjects – contact details can be obtained from the Society website.

Finally, would you like to publish a review article in *Mineralogical Magazine* or *Clay Minerals*? Council has just agreed on a scheme to publish regular review articles on topical subjects. These will be given significant prominence, including free colour and possible use of striking pictures on the front cover. If you have ideas for an interesting review article, please contact the editors, Mark Welch or John Adams.

> Michael Carpenter MSGBI President

GEOCHEMISTRY GROUP RESEARCH IN PROGRESS MEETING 2008



The 2008 Geochemistry Group Research in Progress Meeting was held on Monday, 3 March, at Burlington House (London). This one-day event was attended by more than 80 delegates, mostly PhD students. The theme of the meeting was 'New Developments and Novel Applications in Isotope Geochemistry'. The meeting received 39 abstracts from researchers in 16 different institutions, with Bristol University, Imperial College London, Edinburgh University and Royal Holloway University, London, being best represented. The organisers set up a full program of 15 student talks and 22 posters.

The theme for the morning session was marine and freshwater geochemistry, and the proceedings began with an invited talk by Julian Andrews (University of East Anglia) entitled 'Stable Isotopes in Sedimentary Carbonates: 60 Years Young and Still a Lot to Learn'. The afternoon's igneous-themed session was kicked off by Tim Elliot (Bristol University) who delivered an invited talk entitled 'Mass-Independent Ni Isotopic Fractionation in Bulk Meteorites'. Prizes were awarded to Julie Prytulak and Romain Guilbad for the best student talk and poster, respectively.



Prize for Best Talk: 'Melt Productivity of Ocean Island Basalt Source: Evidence from U-Series'

I am a final-year PhD student at the University of Bristol. I presented my work on the determination of melt productivity of ocean island basalt sources, in which I developed an eclogite 'doubledistillation' process. The award money will help finance my attendance at the Goldschmidt Conference in Vancouver, where I will present these findings. The Research in Progress Meeting

Julie Prytulak

provides an ideal forum for students to present their work to an audience from a wide range of geochemical research fields. The meeting is therefore uniquely suited to developing clarity of presentation, in addition to learning what other PhD colleagues are actively researching. – Julie Prytulak



Prize for Best Poster: 'Fe Isotope Fractionation and Diagenetic Pyrite Formation'

The Research in Progress Meeting of the Geochemistry Group was my first opportunity to present the research I began last September at the University of Edinburgh. My poster presented the strategies I wish to adopt to experimentally investigate Fe isotope fractionation in geochemistry. As a first-year PhD student, this meeting allowed me to witness the variety of studies being carried

Romain Guilbaud

out in the UK and to converse constructively with people working in research areas similar to my own. The prize will encourage me to continue working hard and communicate my research. I hope to put the grant money towards buying academic books useful to my research. – Romain Guilbaud

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BURSARY REPORT

The traditional interpretation of the Antarctic Peninsula is that it represents a complete Andean-type arc-trench system. The main tectonic elements are accretion-subduction complexes on the western Pacific margin of the peninsula, a magmatic arc represented by the Antarctic Peninsula batholith, and thick back-arc and retro-arc basin sequences on the eastern, Weddell Sea side. Complete arc-trench systems are infrequent in the geological record. This makes the Mesozoic history of the Antarctic Peninsula appear in marked contrast with that of New Zealand (divided into several regional terranes), especially when one considers that they were both probably once part of the Mesozoic Pacific rim. In recent years a new paradigm has emerged for the Mesozoic evolution of the Antarctic Peninsula. This paradigm attempts

to resolve the contrasting interpretations of the Antarctic and New Zealand sectors of the once-continuous proto-Pacific margin of Gondwana. This new interpretation is based on the discovery of a major fault zone in the magmatic arc, thought to be a suture that separated one or more arc terranes from the Antarctic sector of the once-active margin of a Gondwana plate. These terranes are thought to be of parautochthonous or allochthonous origin. The exact continuation of these terranes into northern Graham Land remains uncertain.

Northern Graham Land geology is dominated by the plutonic and hypabyssal rocks of the Andean Intrusive Suite (AIS), which is mostly Cretaceous to Eocene in age. These 'granitoids' were emplaced into the earlier volcanic

rocks of the Antarctic Peninsula Volcanic Group (APVG) which is largely Late Jurassic in age, although volcanism on the Antarctic Peninsula did continue into Cenozoic times. In Graham Land the APVG unconformably overlies a turbiditic sequence of possible Upper Carboniferous -Triassic age known as the Trinity Peninsula Group (TPG). In addition to successfully mapping and sampling new outcrops of AIS rocks and their associated hypabyssals, we were able to gather samples from the TPG. In other parts of Graham Land, these rocks have been shown to have a Permian detrital zircon population age but no known Permian arc is present in the region under consideration. So where did the TPG sediments come from? It is hoped that analysis of the detrital zircon characteristics of these new samples will shed light on this

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problem and lead to a better understanding of the terraneaccretion history of this part of Antarctica. Geochemical analysis of samples of the various magmatic products will build on previous research into the tectonomagmatic evolution of the Peninsula.

My work involved several weeks exploring the Danco Coast and Palmer Archipelago area of the Antarctic Peninsula, with the aim of mapping the geology of this poorly accessible region and collecting samples for analysis back home. I am grateful to the Mineralogical Society for a bursary, which helped with the costs of my travel.

Conor Ryan

Centre for Exploration Targeting, School of Earth and Geographical Sciences, University of Western Australia, Crawley, Australia

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