



Mineralogical Society of Great Britain and Ireland

www.minersoc.org

FROM THE GENERAL SECRETARY



As of January this year, I have taken over from Mark Hodson as the General Secretary of the Mineralogical Society. One thing that I'd particularly like to encourage during my time in this position is collaboration: not just among our members or between us and other societies, but even wider, among academics, industry and government. Mineralogy has a significant part to play in many of the challenges that the world faces today, as is often

highlighted by *Elements* – water resources are just one important example. So much research carried out by mineralogists has great societal relevance, from understanding the resources of critical metals needed for the development of new technologies, to sequestering CO₂ through mineralization and the remediation of contaminated land. Yet still, membership in the Mineralogical Society – and attendance at our conferences – is overwhelmingly dominated by academics. I hope that we can expand our horizons and that the Society can do more to foster links between our members and the world outside. Already, since I took over from Mark, we have responded to a government inquiry into strategic metals. I'd welcome any suggestions that *Elements* readers may have about broadening our links with government and industry, and I look forward to hearing from you!

An initiative by Society member Dr Richard Harrison, in which we seek input from all sectors, i.e. academia, industry and government, is the "100 Most Important Questions in Mineralogy". See page 209 in this issue of *Elements* for details and visit our web page for further information: www.minersoc.org.

Kathryn Goodenough
General Secretary, Mineralogical Society

SCIENCE COUNCIL



The Mineralogical Society has been awarded licensed-body status by the Science Council. What this means is that the Society is now in a position to award Chartered Status (CSci) to qualified members.

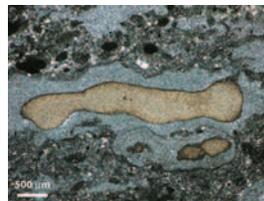
CSci represents a single chartered mark for all scientists and recognises high levels of professionalism and competence in science. There are currently around 15,000 Chartered Scientists working in a vast array of settings and across all scientific and related sectors. Being chartered is the mark of professional recognition. Being a Chartered Scientist allows all scientists working at the full professional level to be recognized on an equal footing. The status gives an assurance of current competence through mandatory revalidation and encapsulates the interdisciplinary nature of science in the 21st century. By benchmarking professional scientists at the same high level, CSci aims to re-engage public trust and confidence in science and scientists. CSci is equivalent in terms of standing to CGeol, CEng, etc.

Applicants must demonstrate various competencies, including the ability to deal with complex issues and communicate their conclusions to a range of audiences. They must show originality in problem solving and substantial autonomy in planning and implementing tasks. Through a commitment to continuing professional development, Chartered Scientists will continue to advance their knowledge, understanding and competence throughout their careers.

Further information will be made available in due course, and it is expected that the first applications for chartered status will be made in late 2011.

Clay Minerals Group – Frontiers in Diagenesis: Clay and Carbonate Facies and Their Diagenetic Pathways in Reservoir Rocks

Department of Earth Sciences, University of Cambridge, Cambridge, UK



The Cambridge Diagenesis Conferences have been a forum for academia and the hydrocarbon industry to consider the interfaces between new ideas, what is thought to be known, and what is established. As in previous meetings, the 2011 conference will encourage the free exchange of ideas and observations, with

particular emphasis on young researchers. We welcome all topics related to the clay and carbonate facies and their diagenetic pathways in reservoir rocks. There will be contributions on the following general themes:

- Diagenetic development of reservoir rocks, including shale gas reservoirs
- Relating early diagenetic signals to geochemical and biological evolution, including a session devoted to the late Proterozoic
- Rates and mechanisms of chemical transfer in diagenetic systems
- Timing of geological events within diagenesis, including a session on Upper Cretaceous chalk

Suggestions for other themes are welcome; contact C. Jeans (cj302@cam.ac.uk) or Nick Tosca (njt41@cam.ac.uk).

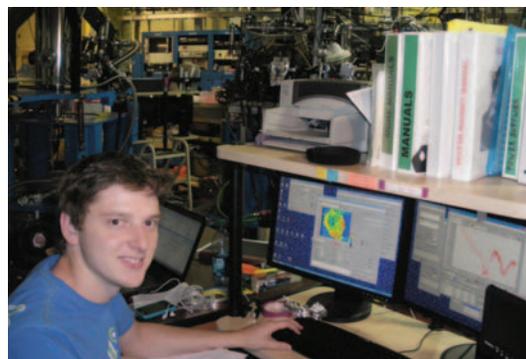
Register online at: www.minersoc.org/pages/groups/cm/g/cm/g.html.

MINERALOGICAL SOCIETY STUDENT BURSARIES FOR 2011

Bursaries for 2011 have been awarded to the following students: L. Bullock, E. Derbyshire, P. Doyle, R. Ellen, A. Ellis, F. Enea, L. Greenwood, E. Nicholson, K. Preece and C. Sarkar.

MINERALOGICAL SOCIETY SENIOR BURSARIES FOR 2011

Senior Bursaries have been awarded to the following scientists: M. Brown, V. Coker, F. Cooper, K. Dobson, F. Wall and J. Wheeler.



James Byrne, 2010 bursary winner

PUBLICATION NEWS

**EMU Notes in Mineralogy Series**

Since last year, the Mineralogical Society has become co-publisher of the EMU Notes in Mineralogy series. Three books in the series have been published so far:

- EMU-8: *Nanoscopic Approaches in Earth and Planetary Sciences* Frank E. Brenker and Gunter Jordan (eds)
- EMU-9: *Advances in the Characterization of Industrial Minerals* George E. Christidis (ed)
- EMU-10: *Ion Partitioning in Ambient-Temperature Aqueous Systems* Manuel Prieto and Heather Stoll (eds)

The fourth book, arising out of the 2011 EMU School, will be published in June/July 2011. All of these books, and others, are available from the Society's online bookshop; visit our website at www.minersoc.org.

Landmark Series

The keenly awaited fourth in the series of Landmark books is nearing the final stage of completion. *Landmark Papers: Granite*, by J. C. Clemens and F. Bea, will be available shortly on our website, www.minersoc.org.

Volumes 1 to 3 are also available for purchase:

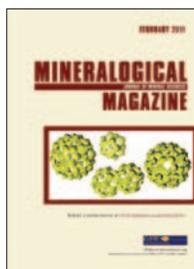
- Volcanic Petrology*, by I. S. E. Carmichael
- Structure Topology*, by F. C. Hawthorne
- Metamorphic Petrology*, by B. W. Evans

These are priced at £32 for members of the public, or at £18 for members of the Society. Join now!

Mineralogical Magazine

The August issue of *MinMag* will contain a thematic set of papers arising out of the September 2010 meeting "Nuclear Waste Management: Research Challenges for the Future". The papers of the issue will be made available on an open access basis and will include the Hallimond Lecture:

- ACTINIDES IN THE NUCLEAR FUEL CYCLE: ROLE OF MINERALOGY AND GEOCHEMISTRY – R. C. Ewing



Plutonium waste canisters

Principal Editors

Roger Mitchell and Peter Williams are now firmly installed as the joint Principal Editors of the journal, and the handover from Mark Welch is complete. We will maintain our short submission-to-publication times and will continue to publish in full colour.



Peter Williams



Roger Mitchell

Production Editor

The Society has appointed a new Production Editor. He is Dr David Green and is based in Manchester, UK. His e-mail address is green@minersoc.org.

Open Access

Please note that the excellent review paper by Peter Burns, "Nanoscale uranium-based cage clusters inspired by uranium mineralogy", from which the cover image of the February issue was taken, is available to all on an **open access** basis. Access to the paper on our site is unrestricted, and the author is at liberty to post copies on his personal website and on departmental or repository sites. If you'd like more information about publishing your paper in this way, please contact Kevin Murphy (kevin@minersoc.org) or the Production Editor.

Clay Minerals

The contents for the June 2011 issue of the journal are as follows:

- NATURAL ZEOLITES FOR STYRENE OLIGOMERISATION – S. owalak and A. Jankovska
- PREPARATION OF MAYA BLUE ANALOGUES USING NATURAL ZEOLITES – S. Kowalak and A. Zywert
- PREPARATION AND RIETVELD REFINEMENT OF AG-EXCHANGED CLINOPTILOLITE – L. Dimova, O. Petrov, M. Kadiyski, N. Lihareva, A. Stoyanova-Ivanova and V. Mikli
- PHYSICAL AND MECHANICAL CHARACTERISTICS OF CEMENT MORTARS AND CONCRETES WITH ADDITION OF CLINOPTILOLITE FROM BELI PLAST DEPOSIT (BULGARIA), SILICA FUME AND FLY ASH – V. Lilkov, I. Rostovsky and O. Petrov
- RHEOLOGICAL, POROSIMETRIC, AND SEM STUDIES OF CEMENTS WITH ADDITIONS OF NATURAL ZEOLITES – V. Lilkov, O. Petrov and Y. Tzvetanova
- MATHEMATICAL MODELLING OF THE SORPTION DYNAMICS OF RADIONUCLIDES BY CLINOPTILOLITE-CONTAINING TUFFS IN PERMEABLE REACTIVE BARRIERS – V.A. Nikashina, I.B. Serova, E.M. Kats, N.A. Tikhanov, M.G. Tomachev and P.G. Novgorodov
- STUDY OF THE POZZOLANIC ACTIVITY AND HYDRATION PRODUCTS OF CEMENT PASTES WITH ADDITION OF NATURAL ZEOLITES – V. Lilkov, O. Petrov, V. Petkova, N. Petrova and T. Yzvetanova
- BINARY CATION EXCHANGE INVOLVING K^+ , Na^+ , Ba^{2+} , AND Ca^{2+} IN CLINOPTILOLITE AT 30 AND 95 °C: A CALORIMETRIC STUDY – N. Petrova, L. Filizova and G. Kirov
- ZEOLITIZED TUFFS IN PEDOTECHNIQUES TO IMPROVE SOIL RESILIENCE AGAINST THE IMPACT OF TREATMENT BY MUNICIPAL SEWAGE: BUDGET OF NUTRIENT AND NOXIOUS CATIONS – G.F. Capra, A. Buondonno, G. Coppola, M.G. Duras, S. Vacca and C. Colella

