



# Association of Applied Geochemists

[www.appliedgeochemists.org](http://www.appliedgeochemists.org)

## FROM THE PRESIDENT



Paul Morris

In 2010, AAG celebrated its 40<sup>th</sup> birthday. Although the AAG may not be either the oldest or the biggest association dealing with geochemistry, a recent survey of the membership (discussed in the Association's journal, *EXPLORE*) showed that members are drawn from 50 countries. Accordingly, AAG is an organisation that offers global representation in applied geochemistry. Despite the wide demography of the membership, there are only a few members from low-income or developing countries; yet applied geochemistry is an integral part of mineral exploration programs being carried out in several of these countries. Anecdotal evidence suggests that the low membership numbers relate to the prohibitive cost of membership – some local geochemists would like to be members of several professional organisations, but the membership dues are just too high. In order to address this, AAG is now offering a limited number of subsidised memberships at a cost of US\$10 (10% of the standard membership fee) to applied geochemists in low-income and developing countries; the criteria are set out on the Association's website. The Association is hopeful that by expanding its membership in low-income and developing countries there will be a greater awareness of the issues facing applied geochemists in these jurisdictions. This initiative follows on from the reduced membership fees offered to students, a practice widespread in other professional organisations. These approaches recognise that the longevity of associations and the growth of science rely on the support of a wide variety of members.

AAG members count the Association's biennial applied geochemistry symposium as an important event in their calendar. A further advantage of a diverse membership demographic is that the meetings are held in a variety of locations, some of which are not on the beaten track. This year's meeting in Rovaniemi (Finland) in August promises not only an attractive program of oral and poster presentations but also a range of field trips and workshops.

**Paul Morris** ([paul.morris@dmp.wa.gov.au](mailto:paul.morris@dmp.wa.gov.au))  
Geological Survey of Western Australia  
AAG President

## AAG DISTINGUISHED LECTURERS

The AAG Distinguished Lecturer series for 2011–2012 will feature Rob Bowell and Scott Long, whose short biographies follow. For further information on the Distinguished Lecturers, the proposed lectures, and schedules, please see the AAG website ([www.appliedgeochemists.org](http://www.appliedgeochemists.org)).

### Rob Bowell



Rob Bowell has a PhD in geochemistry from Southampton University and has worked as a geochemist in academic research and in the mining industry for Goldfields, Ashanti and BHP. Since 1995 he has worked for SRK Consulting where he is Corporate Consultant in Geochemistry. Rob has represented AAG as a councillor for Europe, manager of *EXPLORE*, general member of Council, vice president, and president for 2006 to 2007. He is also an associate editor of

*GEEA*. Rob's main areas of expertise at SRK are applied geochemistry studies on uranium, exploration geochemistry (especially for uranium), environmental geochemistry of mine waste and waters, and geometallurgy.

### Scott Long



Scott Long has more than 20 years of geological and geochemical experience in mining projects in North and South America, Asia, Australia and Africa. He is a specialist in analytical chemistry, geochemical/geologic fieldwork and computer-based analyses, forensic database investigations and assay quality control, and he has conducted numerous workshops in quality control of geologic and assay data. His career as an industry geochemist includes a long period as a consultant for Newmont, and from 1994 to the present, he has been the chief geochemist for AMEC. Scott has an MS in geochemistry from the New Mexico Institute of Mining and Technology and is a long-time member of AAG.

## THE 25<sup>th</sup> INTERNATIONAL APPLIED GEOCHEMISTRY SYMPOSIUM (22–26 AUGUST 2011)

In spite of the current darkness, thick snow cover and cold temperatures, a sunny and warm summer and the next AAG's biennial International Applied Geochemistry Symposium (IAGS) are fast approaching. Preparations are underway, and the organizers are working hard to make the 25<sup>th</sup> IAGS in Rovaniemi, Finland, a success. The technical program features six keynote lectures and many special sessions, and will take place on August 22–26. Sunday, August 21, is reserved for five pre-symposium workshops, and several days (from one to five), before, during and after the symposium, are planned for excursions. The venue of the symposium will be the University of Lapland, located near the centre of Rovaniemi, the capital of Lapland and situated on the Arctic Circle. The excursions will cover large areas in northern and eastern Finland and will include visits to Norway, Russia and Sweden.

The theme of the symposium is "Towards Sustainable Geochemical Exploration, Mining and the Environment." The theme mirrors the present situation in Finland and in many other parts of the world, where exploration is very active, new mineral deposits are being found, and many new mines will be opened to feed the increasing demand for metals and raw materials on global markets. The European Union (EU) realizes that it is highly dependent on imports of economically important raw materials and has started the implementation of the Raw Materials Initiative. Consequently, the EU will promote research projects – including the European Technology Platform on Sustainable Mineral Resources, which focuses on innovative exploration and extraction technologies – that will maximize economic and environmental benefits. In addition, new technologies and methods in data analysis and interpretation are needed to find potential areas for new mineral resources and, at the same time, to improve the care of mining environments and other industrial areas, for the benefit of all. Now is the time for applied geochemistry and geochemists to come forward.

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## SYMPOSIUM ON THE RELEASE OF THE GEOCHEMICAL ATLAS OF CYPRUS (5–7 SEPTEMBER 2011)

The Geological Survey of Cyprus ([www.moa.gov.cy/gsd](http://www.moa.gov.cy/gsd)) is holding a three-day symposium on regional geochemical mapping to coincide with the official launch of the *Geochemical Atlas of Cyprus* ([http://eusoiils.jrc.ec.europa.eu/events/Future\\_events/GeoAtlas\\_Cyprus.pdf](http://eusoiils.jrc.ec.europa.eu/events/Future_events/GeoAtlas_Cyprus.pdf)). The Atlas is the culmination of a five-year project involving the analysis of over 10,000 soil samples collected from two depths on a 1 × 1 km grid across the Republic of Cyprus, in collaboration with the University of New South Wales. The symposium will be held at the Hilton Park Hotel in Lefkosia (Nicosia) on 5 and 6 September 2011, with a field excursion on 7

### 25<sup>th</sup> Symposium *Cont'd from page 122*

At the time of writing this article, about seven months remain before the symposium. Online registration and abstract submission opened in November 2010, and all the information needed for participating has been put on the symposium web pages ([www.iags2011.fi](http://www.iags2011.fi)). We hope that many of you will consider the theme, program, social events and venue of the symposium to be important and will choose to participate and make the symposium successful. Several companies and organizations have already given financial support to the symposium, but others are still welcome. We also encourage companies to reserve space in the trade show, which is an excellent place for making new contacts and presenting services to new customers.

The symposium is jointly organized by the Geology Section of the Finnish Association of Mining and Metallurgical Engineers, the Geological Survey of Finland and the Institute of Geosciences at the University of Oulu, in conjunction with Rovaniemi-Lapland Congresses. The local organizing committee also includes representatives from mining and exploration companies and geochemical laboratories. Many active geochemists are also helping to organize excursions and workshops – many thanks to them.

On behalf of the organizing committee, we extend to geochemists from all around the world a warm welcome to Rovaniemi in August 2011!

**Pertti Sarala** ([pertti.sarala@gtk.fi](mailto:pertti.sarala@gtk.fi))  
and **Juhani Ojala**  
Chairmen of the 25<sup>th</sup> IAGS Organizing Committee



Sediment sampling on the salt flats at Larnaca, Cyprus

September to the famous Troodos Ophiolite Complex, where copper mining activities span 4000 years, and to other key localities.

Regional geochemical mapping has become a focus for government geological surveys. Low-density-sampling geochemical atlases have now been completed for Europe, China and Australia (soon to be released), and a program is underway to remap all of North America. High-density surveys have been completed in a number of countries in recent years, and these follow on from the many regional surveys conducted as part of mineral exploration since the 1960s. Apart from showing data from the *Geochemical Atlas of Cyprus* (one of the highest-density regional surveys ever conducted at a national scale), the symposium will more broadly address the general application of geochemical mapping – ranging from mineral exploration and agriculture to environmental monitoring and management – using examples drawn from a number of countries and regions.



Acid sulphate waters in the abandoned Limni Mine, a Cyprus-style Cu deposit

Invited speakers include C. Reimann (Norwegian Geological Survey); P. de Caritat (Geoscience Australia); D. Cohen, S. Laffan and N. Rutherford (University of New South Wales); A. Zissimos, Z. Zomeni, G. Constantinou, C. Christofi and I. Christoforou (Geological Survey of Cyprus); P. Morris (Geological Survey of Western Australia); A. Demetriades (IGME); D. Darmendrail (BRGM); J. Naden (British Geological Survey); S. Grebby (University of Leicester); O. Selinus (Geological Survey of Sweden); K. Hudson-Edwards (University of London) and I. Dalrymple (Actlabs).

**Andreas Zissimos**  
([azissimos@gsd.moa.gov.cy](mailto:azissimos@gsd.moa.gov.cy))  
Geological Survey of Cyprus

[www.iags2011.fi](http://www.iags2011.fi)

**KEYNOTE SPEAKERS**

**David Blowers, Prof.,**  
University of Waterloo,  
Canada

**John Cartana, Dr.,**  
ITC of the University of Twente,  
The Netherlands

**Reijo Salminen, Prof. Emer.,**  
Geological Survey of Finland,  
Finland

**William W. Shultz, Prof.,**  
Illinois State Geological Survey,  
USA

**Michael Wiedenbeck, Dr.,**  
GeoForschungsZentrum Potsdam,  
Germany



**25<sup>th</sup>  
International Applied  
Geochemistry Symposium**

22 - 26 August 2011  
Rovaniemi FINLAND

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now available**

**IMPORTANT DATES AND DEADLINES**

Deadline for abstracts **31 March 2011**  
Notification of acceptance by **30 April 2011**  
Deadline for early-bird registration **31 May 2011**  
Registration deadline for workshops  
and field excursions **31 May 2011**  
25th IAGS Conference **22-26 August 2011**  
Deadline for Special Issue submission **15 November 2011**

Towards sustainable geochemical exploration, mining and the environment






