



International Association of GeoChemistry

www.iagc-society.org

IAGC AWARDS FOR 2011

The IAGC is proud to announce the recipients of its society awards for 2011. The presentation of the awards will occur during the 9th International Symposium on Applied Isotope Geochemistry (AIG-9) in Tarragona, Spain, on 19–23 September 2011. Awardees will also be recognized in the “Hall of Fame” display at the 2011 Geological Society of America (GSA) Annual Meeting in Minneapolis, Minnesota, USA, on 9–12 October 2011. Congratulations to all the winners!

Distinguished Service Award – Mel Gascoyne



Mel Gascoyne obtained a BA in chemistry in 1969 and an MS in environmental sciences in 1973 from Lancaster University, UK. He then moved to McMaster University in Hamilton, Ontario, Canada, where he earned a PhD in geology with Derek Ford and Henry Schwarcz. A love of caving took him to many limestone areas around the world, collecting stalagmites for paleoclimatic studies. In 1988, he became an associate editor of *Applied Geochemistry*. He was IAGC's secretary and

then business office manager between 1992 and 2011, for which he is receiving the IAGC Distinguished Service Award. In 1998 Mel set up his own geoscience consulting company, and since that time he has been involved in numerous contracts involving the geochemical, isotopic, and gas analysis of groundwater. Mel has published over 70 journal and conference papers and over 50 technical reports.

IAGC Fellows – Shaun Frappe and Avner Vengosh



Shaun Frappe is a professor of geochemistry in the Department of Earth and Environmental Sciences, University of Waterloo, Canada. Shaun received his BS, MS, and PhD in geology and geochemistry from Queen's University, Canada, and has taught hydrogeochemistry and isotope geology at the University of Waterloo since 1980. He specializes in groundwater flow systems, and uses isotopic and geochemical tracers to delineate transport in such systems and in regional ground-

water resource studies. Shaun specializes in developing new isotopic tools for use in tracing natural and anthropogenic processes in hydrogeological and ecological environments. He is an elected Fellow of the GSA and was the recipient of the GSA's O. E. Meinzer Award in 2007. Shaun is the author of more than 350 publications, including over 90 refereed international journal articles and 50 other refereed articles. He is an active peer reviewer of radioactive waste programs in several countries and has collaborated with industry and government for over 25 years. Shaun served as associate editor of *Applied Geochemistry* from 2000 to 2005 and as an IAGC Council member from 2004 to 2010.



Avner Vengosh is a professor of geochemistry and water quality and chair of the water and air resources program at the Nicholas School of the Environment at Duke University, USA. Avner also holds a secondary appointment in the Department of Civil and Environmental Engineering and is an associate editor of *Applied Geochemistry*. His research aims to integrate environmental geochemistry, advanced isotope geochemistry, and environmental health in order to delineate the sources and pathways of contaminants in the

environment and their possible impacts on human health. Currently this research is focused on three major themes: (1) the salination of water resources and its impacts on development and health; (2) the energy–water quality–health nexus, which includes studies on the impact of coal-combustion products on the environment, the origin of contaminants associated with mountaintop mining in valley-fill headwaters, and the impact of deep shale gas drilling and hydraulic fracturing on the quality of shallow groundwater and surface water; and (3) the relationships between groundwater geochemistry, water quality, and human health in different aquifer systems.

IAGC Certificate of Recognition – Norbert Clauer and David Mogk



Norbert Clauer (Université Louis Pasteur, France) received his PhD from the Université Louis Pasteur in Strasbourg, France, in 1976 and currently is Emeritus Research Director of the French National Research Council (CNRS). His research interests are in low-temperature elemental and isotopic tracing and dating as applied to clay minerals and other surface minerals in continental weathering to low-grade metamorphic environments. Norbert is a recognized international

authority on the chemistry and isotope chemistry of detrital and authigenic components and brines in sediments under depositional, diagenetic, low-grade metamorphic, and weathering conditions, and on the mechanisms of clay crystallization and recrystallization. Norbert was awarded the bronze (1978) and silver (1991) medals by the CNRS, the Georges-Millot Prize by the French Academy of Sciences (1992), and the Bailey Distinguished Member Award of the Clay Minerals Society (2008), and was recognized as a Chevalier of the French National Order of Merit (2008). He served on the IAGC Council from 2004 to 2010, during which time he chaired the IAGC Publications Committee.



David Mogk received his BS from the University of Michigan and his MS and PhD from the University of Washington, USA. He is a professor of geology at Montana State University. His research interests include the evolution of Archean continental crust in Montana, petrologic processes at mid-crustal levels, the spectroscopy of mineral surfaces, and the search for life in extreme environments. He has worked to promote excellence in geoscience education, particularly in

mineralogy, petrology, and geochemistry, for the past 20 years. He has served as program officer in the NSF Division of Undergraduate Education, was the recipient of the AGU Award for Excellence in Geophysics Education in 2000, and continues this work as co-principal investigator in the “On the Cutting Edge” program for faculty professional development in the geosciences.



European Association of Geochemistry

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ELSEVIER/IAGC PHD STUDENT RESEARCH GRANTS

The Elsevier/IAGC Student Research Grant program is designed to help PhD students in geochemistry acquire geochemical analyses in support of their research; funding is based on a meritorious proposal. This year's recipients are:



Rixiang Huang (\$2000), Baylor University

Effects of Surface Heterogeneity on Nanoscale Interfacial Processes



Anita Thapalia (\$1500), University of Texas, El Paso

Application of Zn Isotopic Signatures as Tracers of Anthropogenic Contamination in Lake Sediment Cores



Oluyinka Oyemumi (\$1000), Virginia Tech

Evaluating Mobilization and Transport of Organoarsenicals Released from Poultry Litter within an Agricultural Watershed on the Delmarva Peninsula, Delaware



Karla Leslie (\$1000), University of Kansas

Microbial Controls on Metal Ion Mobility

GSA ANNUAL MEETING

As an affiliated society, IAGC continues to have a strong presence and involvement in the Geological Society of America Annual Meeting (Minneapolis, Minnesota, USA, 9–12 October 2011). IAGC is sponsoring three technical sessions at this international conference:

T122. Sources, Transport, and Fate of Trace and Toxic Elements in the Environment (co-chairs: LeeAnn Munk, David T. Long, W. Berry Lyons)

T127. Tropical Small Mountainous River Biogeochemistry: Terrestrial Losses, Internal Processing, Coastal Inputs, and Marine Burial (co-chairs: Steven Goldsmith, Ryan Moyer)

T129. Spectroscopy for the Geosciences in the 21st Century (co-chairs: Russell S. Harmon, Nancy McMillan)

GSA Pardee Keynote Symposium (cosponsored by the IAGC)

GSA Structural Geology and Tectonics Division, Sunday, 9 October, 1:30–5:30 pm. This session will honor British geologist Arthur Holmes (1890–1965) who, 100 years ago, while still an undergraduate student, established the technique to date rocks by the radioactive decay of U to Pb. Holmes also made significant contributions to the study of the origin of granite and to plate tectonics.

EAG LAUNCHES ITS DISTINGUISHED LECTURE PROGRAM

The European Association of Geochemistry is excited to launch its annual Distinguished Lecture Program, starting with a tour across central Europe in November 2011. This program aims to introduce scientists and students located in under-represented regions of the world to emerging research areas in geochemistry. The distinguished lecturer will be selected each year based on a combination of outstanding research contributions in geochemistry and the ability to clearly communicate these contributions to a broad audience.



Our 2011 Distinguished Lecturer is **Dr. Karim Benzerara**, who is with the CNRS and the Université Pierre et Marie Curie, Paris, France. Karim is specialized in geomicrobiology and mineralogy, and he focusses his work primarily on the interactions between life and minerals and fossilization. In addition, Karim was the recipient of the EAG's 2010 Houtermans Award.

The 2011 tour will take Karim Benzerara to the Czech Republic, Hungary, Romania and Slovakia, where he will present the following lectures:

- Iron biomineralization by neutrophilic anaerobic Fe-oxidizing bacteria: A nanoscale perspective
- Combination of transmission electron microscopy and synchrotron-based X-ray microscopy for the study of geomicrobiological samples
- Biomineralogical study of stromatolites at the nanoscale

The complete schedule and lecture abstracts are available at www.eag.eu.com/education/dlp/.

The EAG would like to take this opportunity to thank Karim for serving the geochemical community as the first EAG Distinguished Lecturer, and we are looking forward to hearing his tales from the tour.

2012 EAG AWARDS: CALL FOR NOMINATIONS

The EAG invites nominations for the Science Innovation Award, the Urey Award, the Houtermans Award and the GS/EAG Geochemical Fellows Award. Your nomination is crucial to ensure the recognition of deserving scientists. So please consider nominating someone for these awards. Below are short descriptions of what these awards are for; additional information can be found at www.eag.eu.com/awards/.

The **Science Innovation Award** subject area differs every year according to a five-year cycle, and in 2012 the award will be named in honour of Heinz Lowenstam for his work on biomineralogy. This award is conferred for important and innovative breakthroughs in geochemistry, and the recipient must be between 35 and 55 years old.

The **Urey Award** recognizes outstanding contributions in the advancement of geochemistry over a career.

The **Houtermans Award** is given to a scientist no more than 35 years of age or within 6 years of his or her PhD for a single exceptional contribution to geochemistry, published as a single paper or as a series of papers on a single topic.

The **GS/EAG Geochemical Fellows Award** is bestowed upon outstanding scientists who have made major contributions in the field of geochemistry.

Please submit your nominations before **15 October 2011**. For details on the submission process, please visit www.eag.eu.com/awards/nomination/.