



International Association of GeoChemistry

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2014 IAGC AWARDS

The International Association of GeoChemistry is pleased to announce its society awards for 2014. Congratulations to all the recipients, and thank you for your service to the IAGC and the geochemical community!

Vernadsky Medal

The Vernadsky Medal is awarded biennially to honor a distinguished record of scientific accomplishment in geochemistry over the course of a career.

Ian Hutcheon, University of Calgary, Canada



Professor Ian Hutcheon is a professor emeritus at the University of Calgary, Canada. Ian graduated with a PhD from Carleton University in 1977 following an MS in 1972 and a BS from the University of British Columbia in 1969. He subsequently worked at the Geological Survey of Canada before commencing at the University of Calgary in 1978. Ian has contributed much world-class and internationally recognized research in the broad fields of petrology and geochemistry, including significant contributions to processes in high-grade metamorphic terrains, water–rock–gas interactions in sedimentary basins, diagenesis, and CO₂ sequestration. This work has been founded on a base of careful and meticulous observations combined with the rigorous application of fundamental thermodynamics and kinetic principles. Ian has also served on committees for many national and international scientific, government, and industrial bodies, and has delivered well-received short courses across the globe. Through the supervision of PhD and MS students and his extensive undergraduate teaching, Ian has helped inform and train many geoscientists. For this lifetime of application and achievement, Ian is a very worthy recipient of the Vernadsky Medal for 2014.

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Distinguished Service Award

The Distinguished Service Award recognizes outstanding service by an IAGC member to the Association or to the geochemical community that greatly exceeds the normal expectations of voluntary service.

Russell Harmon, U.S. Army Corps of Engineers



Dr. Russell Harmon received a BA from the University of Texas, an MS from the Pennsylvania State University, and a PhD from McMaster University. Russ is currently the director of the International Research Office of the U.S. Army Engineer Research and Development Center, where he conducts international science and technology engagement. Previously, Russ was a program manager at the RDECOM-ARL U.S. Army Research Office, where he managed the extramural basic

research program in terrestrial sciences. Russ is an internationally renowned isotope geochemist who has worked at NASA, the Scottish Universities Research and Reactor Centre (UK), and the Natural Environment Research Council Isotope Geosciences Laboratory (UK). Russ has also held faculty positions at Michigan State University and Southern Methodist University and is an adjunct faculty member at North Carolina State University. He has edited or coedited more than 30 books and journal special issues, authored or coauthored more than 220 peer-reviewed publications, and worked tirelessly for the IAGC over

many years. He first became a member of the IAGC in 1983 and was a Council member from 1992 until 2004 when he was elected vice-president. He served as president from 2007 to 2010 and past-president from 2010 to 2012. He has helped the organization in many other ways as well, including as chair of the Publications Committee, and was instrumental in helping to negotiate IAGC–Elsevier contracts over the past decade. He helped to modernize the IAGC through leading the revision of our statutes and the development of an official operations manual, and he is still serving the society as chair of the Strategic Planning Committee. For this lifetime of achievement and dedication to the IAGC, Russell Harmon is awarded the IAGC Distinguished Service Award.

Ebelmen Award

The IAGC's Ebelmen Award is given biennially to a geochemist of particular merit and outstanding promise less than 35 years old at the time of nomination.

Sophie Opfergelt, Université catholique de Louvain, Belgium



Dr. Sophie Opfergelt is currently a research scientist at the Université catholique de Louvain, Belgium. Sophie completed her PhD at the Université catholique de Louvain in 2008 and was a postdoctoral researcher at the University of Oxford, UK. Sophie's research interests involve the application of novel stable isotope systems, such as silicon isotopes, to the understanding of biogeochemical processes, particularly the interactions between rocks, soils, and plants during weathering. She has

refined techniques for the use of silicon isotopes to distinguish biological and inorganic processes and the role of plants in the Si cycle. Sophie is at the forefront of this research and has become a globally recognized expert in this field. For undertaking this original and challenging research, Sophie is awarded the Ebelmen Award for 2014.

IAGC Fellows

The honorary title of IAGC Fellow is bestowed annually on scientists who have made significant contributions to the field of geochemistry.

Karen Johannesson, Tulane University, USA



Professor Karen Johannesson is currently a professor at Tulane University, USA. Karen graduated with a BS from the University of New Hampshire in 1985 and obtained an MS from Boston College in 1988 and a PhD from the University of Nevada in 1993. Karen is a recognized international authority on the behavior of the rare earth elements in the hydrosphere. She was one of the first to estimate rare earth element speciation in terrestrial waters, and she illustrated the importance

of complexation and pH as controls on their behavior. Her more recent work has included the investigation of the behavior of oxyanion-forming trace metals, such as arsenic, selenium, and tungsten, in groundwater systems and how their concentrations and speciation change along a flow path due to pH and redox changes. She has combined field, analytical, and experimental approaches in order to develop geochemical models that have improved the understanding of the biogeochemical process controlling trace element speciation and element cycles in the near-surface environment. Karen is also actively

involved in graduate student supervision and undergraduate teaching. For carrying out this important research in the aquatic biogeochemistry of trace elements over many years, Karen is named an IAGC Fellow for 2014.

Jérôme Gaillardet, Institut de Physique du Globe de Paris



Jérôme Gaillardet is a professor at the Institut de Physique du Globe de Paris. Jérôme completed his PhD at the Université Paris 7 in 1996. He was also a researcher at Université Paris-Diderot between 1996 and 2001, before joining the Institut de Physique du Globe de Paris in 2001. Jérôme is internationally recognized for his pioneering research in river geochemistry, in particular for the innovative use of element and isotope geochemistry to estimate global weathering rates and the role

of continental weathering in CO₂ sequestration. He is currently involved in international research collaborations via the Critical Zone Exploration Network and also in the application of novel isotopic tracers (such as B, Li, and Zn) in waters to understand both natural and polluted systems. Jérôme has served on a range of national and international committees involved with research and teaching. For this important and novel research, Jérôme is named an IAGC Fellow for 2014.

Certificates of Recognition

IAGC Certificates of Recognition are awarded to IAGC members for outstanding scientific accomplishment in a particular area of geochemistry, for excellence in teaching or public service, or for meritorious service to the Association or the international geochemistry community.

Prof. Pierpaolo Zuddas, of the Institute of Earth Sciences, Université Pierre et Marie Curie, Paris, France, receives the IAGC Certificate of Recognition for his leadership role in the 14th International Symposium on Water–Rock Interaction (WRI-14). This highly successful IAGC working group meeting was held in Avignon, France, in June 2013. Conference proceedings were published in the open access Elsevier journal *Procedia Earth and Planetary Science*, ensuring wide readership.

Prof. Halldór Ármannsson, of the Division of Geology & Environmental Sciences, Iceland GeoSurvey, Reykjavik, Iceland, receives the IAGC Certificate of Recognition for his involvement as a member of the WRI Working Group leadership over many years and the guidance he provided to the organizers of WRI-14 in Avignon.

Dr. Attila Demény and **Dr. István Fórizs**, of the Institute of Geological & Geochemical Research, Hungarian Academy of Sciences, Budapest, Hungary, receive the IAGC Certificate of Recognition for their leadership roles in organizing and running the 10th International Symposium on Applied Isotope Geochemistry (AIG-10). This very successful IAGC working group meeting was held in Budapest, Hungary, in September 2013. The proceedings of extended abstracts were published for the first time as a special issue of the *Central European Journal of Geosciences*.

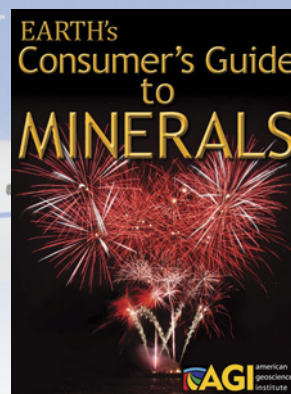
THE CONSUMER'S GUIDE TO MINERALS

Edited by Christopher Keane and Megan Sever

Minerals play essential roles in our everyday lives. The *Consumer's Guide to Minerals* explores minerals' myriad uses in scientific research, manufacturing, medicine and many commercial applications — some of which may even shock you. This digital exclusive is an important reference for students of applied science, geology and economics; practicing engineers and professional geoscientists in government service, environment and sustainability; and those professionals working in the minerals industry or those serving the minerals industry.

The *Consumer's Guide to Minerals* is a compilation of monthly articles from EARTH Magazine. The *Guide* is a collaborative effort between EARTH Magazine and the U.S. Geological Survey.

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