



# International Association of GeoChemistry

[www.iagc-society.org](http://www.iagc-society.org)

## DISTINGUISH SERVICE AWARD RENAMED

### *Russell S. Harmon Distinguished Service Award*



The IAGC is pleased to announce that the society's Distinguished Service Award has been renamed the IAGC Russell S. Harmon Distinguished Service Award in honor of Russell Harmon as a tribute to his exemplary service to the IAGC over several decades. Dr. Harmon 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 2007–2010 and past-president from 2010–2012. He has helped the IAGC in many other ways as well, including as the Chair of the Publications Committee, and he 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 currently as Chair of the Strategic Planning Committee. Dr. Harmon earned the Distinguished Service award

himself in 2014, but he has done so much for the organization that the IAGC Executive saw fit to name the award after him. He has inspired and motivated many to join and to serve in the IAGC, and he has earned respect and gratitude from everyone with whom he has served.

Dr. Harmon is currently based in London (UK) as Director of the International Research Office (IRO), where he undertakes international science and technology engagement for the US Army Corps of Engineers' Engineer Research and Development Center (ERDC). Prior to joining ERDC-IRO in September 2011, Dr. Harmon was a program manager at the US Army Research Development and Engineering Command–Army Research Laboratory's Army Research Office, where he managed the extramural basic research program in terrestrial sciences. He is a geochemist who has worked at NASA's Lyndon B. Johnson Space Center (aka the Manned Spacecraft Center) in Houston, Texas (USA), the Scottish Universities Research and Reactor Centre (Scotland), and the Natural Environment Research Council (NERC) Isotope Geosciences Laboratory at the British Geological Survey (UK). Dr. Harmon has also held faculty positions at Michigan State University (USA) and the Southern Methodist University (USA). He is presently an adjunct faculty member in the Department of Marine, Earth and Atmospheric Sciences at North Carolina State University (USA). He is a Fellow of the Geological Society of America, the National Speleological Society, and the Army Research Laboratory. He edited/coedited more than 30 books and journal special issues, authored or coauthored more than 220 peer-reviewed publications, and remains actively engaged in geochemical

## 15<sup>th</sup> WATER–ROCK INTERACTION INTERNATIONAL SYMPOSIUM (WRI-15)

16–21 October 2016 at Évora, Portugal  
<http://wri15portugal.org/>

**Abstract deadline:** 29 January 2016

**Early registration deadline:** 31 May 2016

**Regular registration deadline:** 11 October 2016

There will be three main scientific topics at this symposium.

### *Essentials of water–rock interactions*

1. Recent developments in groundwater reactive transport modeling in fractured and porous media
2. Future challenges for aqueous geochemistry and biogeochemistry: from nano- to basin-scale approaches
3. New trends on isotope hydrology, isotopologues (i.e. molecules that differ only in their isotopic composition) and noble gases
4. New insights into thermodynamics and kinetics of water–rock interactions
5. Developments in water–gas–rock interactions
6. Advances and technological challenges in experimental design for laboratory and field investigations of water–rock interactions

### *Particular environments*

1. Water–rock interaction in volcanic systems and natural hazards
2. High- and low-enthalpy geothermal systems
3. Organic geochemistry and pore-water chemistry of sediments and sedimentary basins
4. The origins and special challenges of high-salinity continental fluids
5. Emerging issues related with ore deposits and ore-forming processes
6. Geochemical controls and influences on the genesis of conventional and unconventional oil and gas fields
7. Insights into the evolution of karst water systems and global climate changes
8. Improvements in water–rock interaction and ecohydrology of arid and semiarid environments
9. Advances in water–rock interactions for tropical and subtropical settings
10. Developments in water–rock interactions applied to astrobiology

### *Case studies and applications*

1. Emerging issues in water–rock interactions applied to energy resources
2. Water–energy nexus: special challenges of shale gas and other low-permeability reservoirs
3. Controls and impacts on groundwater quality and quantity
4. Challenges of water–rock interactions at high temperatures and pressures
5. Alternatives for deep geological repositories for nuclear waste
6. Updating gas–water–rock interaction processes for CO<sub>2</sub> geological sequestration
7. Water quality at active and abandoned mines
8. Transport, fate and tracers of contaminants in shallow and deep aquifers
9. Tracer isotopes for tracking processes and contamination: advances in stable and radiogenic isotope methods
10. Recent approaches in water–rock interactions and the impact on human health
11. Water–rock interaction versus stone decay and conservation, as applied to cultural heritage
12. Geomicrobiology in groundwater environments: microbe–mineral–water interactions

and spectroscopic research. Dr. Harmon holds a BA from the University of Texas, an MS from the Pennsylvania State University (USA), and a PhD from McMaster University (Canada).

**2016 AWARD NOMINATIONS**

Now is the time for 2016 IAGC award nominations! The window of opportunity for nomination submission will extend through 1 December 2015. Awards available for nomination in 2016 are the Vernadsky Medal, the Kharaka Award, the IAGC Russell S. Harmon Distinguished Service Award, IAGC Fellow, and the Certificate of Recognition. For a summary of the awards and instructions on how to submit your nomination, visit [www.iagc-society.org/awards.html](http://www.iagc-society.org/awards.html).

**ELSEVIER PHD STUDENT RESEARCH GRANTS: CALL FOR PROPOSALS**

Generously supported by Elsevier, the PhD Student Research Grants help support the cost of the analytical needs of geochemistry PhD students. PhD Student Research Grants of up to \$3,000 (US) may be awarded annually, based upon receipt of deserving proposals, as determined by the grant committee.

The closing date for applications for Student Research Grants for 2016 is 1 December 2015. Funds will be dispersed to winning applicants before 1 May 2016. The recipients of each Student Research Grant will be profiled in *Elements*, on the IAGC website, and in the spring edition of the *IAGC Newsletter*. Recipients will also receive a one-year complimentary IAGC membership. For application instructions and to download the necessary forms, please visit [www.iagc-society.org/phd\\_grants.html](http://www.iagc-society.org/phd_grants.html).

**IAGC COSPONSORED SESSIONS AT THE GSA ANNUAL MEETING**

The IAGC is cosponsoring three sessions at the Geological Society of America (GSA) Annual Meeting, 1–4 November 2015 in Baltimore (Maryland, USA).

**T32. Urban Geochemistry**

W. Berry Lyons, David T. Long

This session encourages presentations that qualify and quantify the geochemical and biogeochemical impacts (temporal and spatial) of urbanization and urban activities on soil, water, and air resources, as well as on human and ecosystem health.

**T35. Honoring the Diverse Career of Dr. W. Berry Lyons: Geochemistry from Polar Deserts to Tropical Watersheds**

Sarah K. Fortner, Carolyn B. Dowling, Karen Johannesson, Klaus Neumann, Carmen A. Nezat

This session honors W. Berry Lyons and his many contributions to geochemistry. Dr. Lyons has investigated polar to tropical settings. His research, collaborative abilities, and leadership continues to inspire many and has laid the foundations for new directions in geochemistry.

**T39. Sources, Transport, Fate, and Toxicology of Trace Elements and Organics in the Environment**

LeeAnn Munk, David T. Long, W. Berry Lyons

This session encourages presentations on basic and applied research on trace elements and organics in the environment. Topics include those that relate to understanding and modeling the sources, transport, and fate; human and ecosystem health; environmental assessment and remediation.

# Compact AMS Systems

National Electrostatics Corp. offers a wide variety of compact, low voltage AMS systems for radio isotope ratio measurement through the actinides. NEC also provides complete AMS systems up to 25MV. All NEC systems provide high precision and low background. They can be equipped with a high throughput, multi-sample ion source or dual ion source injector for added versatility.

**Available Isotopes: C, Be, Al, Ca, I, Actinides**

Model	Isotopes	Terminal Voltage (MV)
SSAMS	C	0.25
CAMS	C	0.50
XCAMS	Be, C, Al	0.50
UAMS	Be, C, Al, Ca	1.00
IAMS	C, I	0.50
Actinide AMS	actinides	1.00

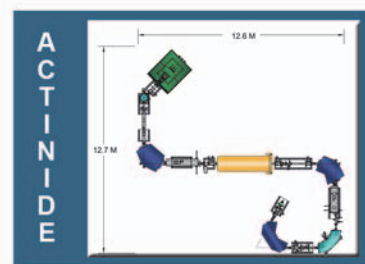
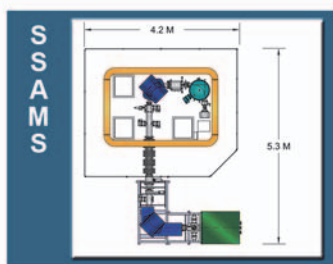
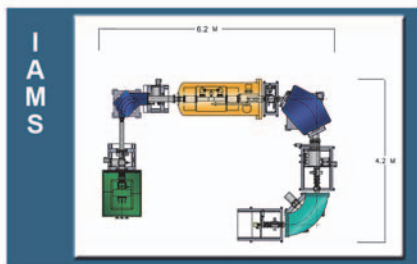
**Features:**

**Better than 3 per mil precision and better than  $1 \times 10^{-15}$  background for  $^{14}\text{C}/^{12}\text{C}$**

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