# Newsletter
of the
# International Association of GeoChemistry

Number 76, July 2022


**In This Issue**




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**Twitter:** @IAGeoChemistry


## New Council Member

Rim Trabelsi is currently at the National School of Engineering (ENIS) of the University of Sfax, Tunisia as Associate Professor. She graduated in Earth Sciences in 2002 and obtained her Ph.D. in isotope hydrology and groundwater modelling in 2009. Since December 2020, she has been the head of the Department of Geology, and teaches analytical methods, isotope hydrology, hydrology, geostatistical methods, hydrogeology, and groundwater modelling.

During her post-graduate studies, she developed her research activities in the field of Environmental Geochemistry in the laboratory of Radio-Analysis and Environment at ENIS. She has significant experience in the use of geostatistical methods and numerical modelling coupled with chemical tracers and environmental isotopes to investigate water resource origins, salinization processes, water-rock interaction, groundwater contamination, and groundwater-surface water interaction, particularly in arid and semi- arid regions.

She is also actively involved in several Technical Cooperation projects, focusing on the use of chemical and environmental isotopic tracers to support groundwater resource planning, management, and protection. She also collaborates as an expert with the

International Atomic Energy Agency. She is the author of more than 25 publications in international peer reviewed journals and has made numerous contributions to national and international conferences. She is a member of the Tunisian Association of Applied Geology.

## 2023 PhD Student Research Grant Applications

We receive great interest in our Elsevier/IAGC PhD Student Research Grants each year, and they have become a high-profile recruiting tool for the organization. **We will post instructions for applying for the PhD Student Research Grant program on 1 October, 2022**. Applications will be due on 1 December. Keep an eye on our website and Twitter for the announcement:

www.iagc-society.org/phd_grants.html

Twitter: @IAGeoChemistry

## 2022 IAGC Awards

We are pleased to announce our Society Awards! This year we are announcing awards for both 2022 and those from 2020 that were not awarded during COVID. Congratulations to the recipients and thank you for your service to the IAGC and the geochemical community!

## Vernadsky Medal


**2022**

**Susan Brantley** is Barnes Professor of Geosciences in the College of Earth and Mineral Sciences at Pennsylvania State University, where she also has served as Director of the Earth and Environmental Systems Institute since 2003. She has been a member of the faculty at the University since 1986. As a geochemist, Dr. Brantley focuses on understanding what controls the chemistry of natural water and how water interacts with the rocks through which it flows. Dr. Brantley and her research group investigate chemical, biological, and physical processes in shallow hydrogeologic settings through field and laboratory work and theoretical modeling. Of particular interest are questions concerning the measurement and prediction of the rates of natural processes, including chemical weathering with and without microorganisms. Her recent work has focused on measuring and modeling how rock turns into soil as well as the impact of hydraulic fracturing on natural water chemistry. Dr. Brantley has published almost 300 refereed journal articles.

Among other awards, Professor Brantley is a fellow of the Geochemical Society, the European Association of Geochemistry, and the International Association for GeoChemistry. She was president of the Geochemical Society from 2006 to 2008, and she received the Urey Award, the highest award of the European Association

of Geochemistry in 2018. Professor Brantley has received honorary doctorates from the Paul Sabatier University (Toulouse III) in France and University of Lausanne, Switzerland. In 2012, she was elected as member of the U.S. National Academy of Sciences, and in 2022, the French Academy of Sciences.

**2020**

**Yousif K. Kharaka** is a senior research hydrogeochemist (emeritus since January 1, 2012) with the United States Geological Survey, Water Mission Area, Menlo Park, California. As a Research Scientist at the University of California, Berkeley (1971-1995), and at USGS since 1975, he has been conducting field and laboratory geochemical investigations in the broad areas of water-gas-rock interactions over a wide range of salinity, temperature, and pressure conditions and in a variety of natural and contaminated systems, especially in oil and gas fields in sedimentary basins, in agricultural areas and in major hydrothermal (Yellowstone National Park) and fault (the San Andreas) systems. His current investigations cover naturally occurring organics, organic-inorganic interactions, CO2 sequestration in saline aquifers and depleted oil and gas reservoirs, remediation of contaminated agricultural drainage and water produced with coal-bed methane and petroleum, and the role of fluids (water and gases) on the dynamics of the San Andreas Fault system.

Kharaka has authored or coauthored more than 120 scientific journal articles, reports and book chapters and has delivered more than 200 scientific presentations at national and international conferences. He was an associate editor of *Applied Geochemistry, Geology, Geophysical Research Letters, and Environmental Geology*. Kharaka was the Secretary General for the Seventh International Symposium on Water-Rock Interaction (WRI-7) held in 1992 in Park City, Utah, and was the Chairman of the Working Group on Water-Rock Interaction 2001 – 2007.

## IAGC Fellows

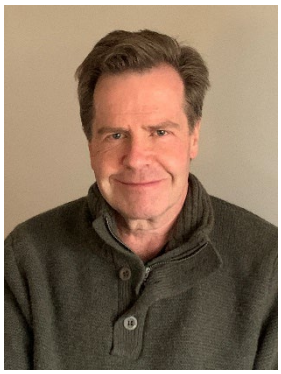
**Xiangdong Li** is Chair Professor of Environmental Science and Technology in Department of Civil & Environmental Engineering, and Ko Jan-Ming Endowed Professor in Sustainable Urban Development at The Hong Kong Polytechnic University. He is recognized for his innovative and dynamic work in environmental biogeochemistry, including research in the fields of regional contamination, urban air PM2.5 pollution, and the origin and dissemination of antimicrobial resistance. Professor Li serves as an Associate Editor for *Environmental Science & Technology* and as Deputy Editor for *ACS Environmental Au*.

**Francois Chabaux** is Professor CE (Distinguished Professor) at the University of Strasbourg, France. Over the last thirty years, François and his team have researched the mechanisms and time constants of weathering and erosion processes in critical zone by developing, using and popularizing a variety of element and isotopic techniques, notably U-series nuclides. François has been also involved in application of geochemical tracing approaches, including the classical radiogenic isotopes (Sr, Nd, Pb), U-Sr isotopic coupling, and the stable isotopes (Ca, B,

Li). More recently he has investigated the nature of water-rock interactions that control the chemical composition of waters in watersheds and aquifers by applying coupled hydrogeochemical modeling approaches. A significant part of his work was carried out on the Strengbach watershed in the Vosges Mountain (France) as part of research at the 'Observatoire HydroGéochimique de l'Environnement,' a current reference site of the French critical zone observatory network. François is Associated Editor of *Applied Geochemistry* and Co-Editor in chief of *Comptes Rendus Geoscience*, the Scientific journal of the French Science Academy.

## Harmon Distinguished Service Awards

**Philippe Négrel** is the deputy director of Division in BRGM (2010-2022) and has specialized in isotope geochemistry for 30 years. He has made interdisciplinary contributions in the fields of surface water – groundwater interactions, water-rock interaction, continental erosion, and tracing actual and paleo circulation. His achievements are well reflected in publications in top journals, with more than 183 in the Web of Science and 335 communications at international conferences. Since his accreditation to supervise research work in 2005, he has acted as PhD supervisor and has trained ten PhD Students and several Postdoctoral Fellows. He is a committed research coordinator with experience of supporting the research of a large team of scientists. He has been involved in major international bodies and international programs, acquired as member or chair of international working groups, mainly dedicated to geochemistry. He is the Past-President of the IAGC, Chair of the EuroGeoSurveys Geochemistry Expert Group, and member of the Steering Board of the European sediment network SedNet.



**Ian Cartwright** has been with Monash University, Melbourne, Australia since 1990 and currently holds the position of Professor in the School of Earth, Atmosphere and Environment. His research involves application of geochemical tracers such as C-14, tritium, stable isotopes, radon, and major ions to document processes in groundwater and surface water systems. This work focusses on understanding water-rock interaction, the pathways and timescales of groundwater flow, the location and fluxes of groundwater inflows to rivers, and the residence times of water in river catchments. The work is multi-disciplinary and is done collaboration with researchers from a range of academic and government institutions. He has authored or co-authored over 190 articles in international peer reviewed journals and over 500 conference presentations. His teaching encompasses similar fields to his research interests, coordinating and delivering courses in hydrogeology and sustainability at undergraduate and masters levels and contribute to courses in environmental geochemistry and field methods. He has graduated 25 PhD students, several of whom have forged successful academic careers of their own. Ian was IAGC President, 2014–2016.

**Neus Otero** is Serra Hunter professor at the University of Barcelona, Spain. She is an internationally recognized hydrogeochemist having largely contributed to the development of innovative geochemical and isotopic approaches for tracing water contamination and the effectiveness of remediation approaches. She has been strongly involved in the development of passive treatments for contamination remediation and new analytical approaches to determine the isotopic composition of N species. She extended her scientific activities on the induced attenuation of various pollutants, testing their efficiency by isotopic tools. She is involved in the management of national and European scientific projects, as well as in technology transfer activities towards public administrations and private companies, in the field of water quality, and she mentors PhD, master, and degree students.

Neus has carried out a strong activity within the IAGC as current President of the IAGC, serving an additional two years from 2019 through 2022. In 2011 she was Conference Organizer for the Applied Isotope Geochemistry Conference (AIG-9) in Tarragona (Spain) and she co-edited, together with Tom Bullen, the special edition of Applied Geochemistry from AIG-9. Within the IAGC, alongside Richard Wanty, then Philippe Négrel and today as President, Neus has played a major role in the animation of the IAGC, whether in the setting up of the first IAGC International Conference in Tomsk in 2019 or in her willingness as president to maintain all the missions of the IAGC in the complicated period of the COVID pandemic. She is currently associated editor of *Applied Geochemistry*.

## Ingerson Lecturer

**Martine M. Savard** received her Ph.D. in 1991 from University of Ottawa where she specialized in stable isotope geochemistry applied to the evolution of sedimentary carbonate rocks. She joined the Geological Survey of Canada (GSC) in 1990, and first applied her expertise to the study of Pb-Zn carbonate-hosted deposits and proposed new methods of exploration for this type of deposits. Early in her career, she developed the Delta-Lab, a stable isotope laboratory that she supervised for 27 years. Accordingly, Dr. Savard developed methodologies and applied stable isotope geochemistry in the fields of carbonate diagenesis, regional hydrogeology, pollution studies, atmospheric sciences, climate reconstruction and clumped isotopes for basin analysis that conducted to her publishing over 115 peer-reviewed articles to date. She was concurrently adjunct professor at INRS-ETE where she has supervised over 20 graduate students.

On solving environmental issues, Dr. Savard and her teams have addressed key socio-economic questions such as informing the sustainable development of groundwater resources in Eastern Canada, and distinguishing natural and anthropogenic contaminants. For instance, she pursued research using tree-ring isotopic series to reconstruct changes of air quality and soil biogeochemistry in industrial regions, and past hydric regimes near major hydropower centers. She has been the leader of numerous multi-institutional and inter-disciplinary projects. Dr. Savard received several national and governmental awards, including the Berry Medal (MAC) and Queen Elizabeth II Diamond

Jubilee Medal for Service to Canadians and achievements in science. She now acts as Emeritus Scientist at the GSC.

## Jin Jingfu Lecturer

**Yuan Mei** was granted a PhD degree in Geochemistry by the University of Adelaide in 2014. She worked as a Postdoctoral Fellow at the University of Adelaide and Monash University on an ARC Discovery Project during 2013-2015. She has been working at CSIRO Mineral Resources division since 2015. Her current role is Senior Research Scientist in Geochemistry, with research focuses on understanding the geochemical processes that govern the element mobility and cycles from the mantle to the Earth's surface at the molecular level.

The major achievement in her academic career is the quantitative calculation of the thermodynamic properties of the metal complexation reactions that control metal mobility in hydrothermal systems. The thermodynamic properties she calculated have been incorporated into popular thermodynamic databases and been applied to geochemical modelling by end users, to better understand the dissolution, transport, and precipitation of metals in ore-forming systems. Leveraging the recent advances in high performance computers and state-of-the-art in-situ synchrotron techniques, Dr Mei's molecular modelling helps to build essential geochemical models of element cycles in lithosphere, hydrosphere, biosphere and atmosphere.

Her current research focuses on applying molecular simulation and geochemical modelling approaches to tackle two big challenges for a sustainable future: 1) geochemistry of critical minerals for more efficient exploration and processing; 2) fluid-rock interactions in mineral carbonation processes for net zero emission.

## Hitchon Award

The Hitchon Award is given annually to a paper of significance published in the IAGC journal, *Applied Geochemistry*. The award is given to the *Applied Geochemistry* paper from 5 years ago (to allow for time to make an impact) that has the most citations according to SCOPUS. All authors will receive recognition here in the IAGC Newsletter and on the IAGC website.

This year's recipient of the **Hitchon Award** is **Pauline Smedley's** 2017 paper:

Smedley P.L., Kinniburgh D.G. Molybdenum in natural waters: A review of occurrence, distributions and controls (2017) *Applied Geochemistry*, 84, pp. 387-432.

**Pauline Smedley** is a hydrogeochemist with over 30 years experience working with the British Geological Survey on groundwater issues related to contamination, resource evaluation and management. Her long-term research interests include processes controlling mobilization and transport of trace elements of health concern in groundwater (molybdenum, uranium, arsenic, fluoride, nickel, radon), the hydrogeochemistry of British aquifers, and groundwater quality for development in developing countries. She has a PhD in Geochemistry from the University of

Edinburgh and is author and editor of over 170 papers, reports, edited books and book chapters on aspects of groundwater and geochemistry.

## Elsevier PhD Student Research Grant Winners

The IAGC is happy to announce the recipients of the 2022 Student Research Grants, sponsored by Elsevier and the IAGC. This is a very competitive award. The success of these grantees demonstrates the extremely high caliber of their research. Congratulations to our grantees!

**Paul Kozol Wojtal** - *Using Compound Specific Isotope Analysis to Understand Particle Degradation in the Oceanic Water Column*

Paul Kozol Wojtal received his ScB in chemistry from Brown University (Providence, RI) in 2016, where he used the nitrogen isotopes of nitrate to understand on road vehicle NOx emissions. After working in the biotechnology pharmaceutical industry for 3 years, he started his PhD in ocean sciences at the Rosenstiel School for Marine and Atmospheric Science at the University of Miami. He is currently using the stable isotopes of carbon and nitrogen in individual organic molecules (amino acids, lipids, etc.) to understand particulate organic matter dynamics in the upper water column. The main goal of his IAGC funded research is to use the stable carbon isotope composition of individual congeners of persistent organic pollutant molecules to understand biomagnification in particulate organic matter.

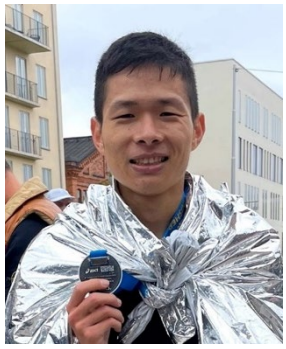
**Amy D. Holt** - *Global Assessment of Mountain Glacier Dissolved Organic Matter Composition: Age, Biolability and Source*

Amy Holt earned her BSc in Geographical sciences at the University of Bristol, UK and from there completed a MSc in Chemical Oceanography at Florida State University (FSU), Spencer Biogeochemistry Lab. Amy assessed changes to stream water dissolved organic matter (DOM) composition following watershed deglaciation, to better understand the biogeochemical consequences of unabated glacier retreat. Amy stayed at FSU to conduct her PhD research, where she is undertaking a global assessment of mountain glacier DOM composition. Glaciers export ancient, highly biolabile DOM, which has shown to be assimilated into downstream food webs and thus is likely to play an important role in watershed biogeochemical cycling. It is currently unclear how glacier DOM composition varies worldwide. Through this global assessment, and using a host of geochemical tools, including bioincubations, radiocarbon analysis and Fourier ion cyclotron resonance mass spectrometry (FT-ICR MS), Amy wishes to assess the spatial variability in, and source of organic matter that underpin, glacier DOM composition. She believes this assessment will help us better understand the impacts of glacier retreat on downstream biogeochemical dynamics across the globe.

**Sergio Gil Villalba** - *Multi-isotopic tools for monitoring innovative remediation strategies in sites contaminated with halogenated organic compounds*

Sergio Gil Villalba graduated with a BSc in environmental science from the Universitat Autònoma de Barcelona (Spain) in 2012. After 5 years working in applied water research at the Private Institute for Climate Change Research (Guatemala), in 2018 he obtained his MSc in Groundwater and Global Change, an Erasmus Mundus Master program (UNESCO-IHE Delft Water Institute – the Netherlands, Instituto Superior Técnico – Portugal, Technische Universität Dresden – Germany). In 2019 he returned to Barcelona to commence a PhD on earth sciences at the Universitat de Barcelona (Spain). Sergio's PhD research focuses on remediation strategies for groundwater contaminated with chlorinated volatile organic compounds. His research targets In Situ Chemical Oxidation by persulfate injected into an alkaline Permeable Reactive Barrier and Biostimulation of autochthonous organohalide-respiring bacteria with Emulsified Vegetable Oil (EVO). Laboratory batch experiments for the characterization of C-Cl and S-O 2D Compound Specific Isotope Analysis slopes will allow to understand different degradative reactions that will take place in field applications in two study sites.

**Tzu-Hao Huang** - *Decoding Marine Silicate Weathering*



Tzu-Hao Huang received his BSc and MSc in Oceanography from the National Sun Yat-sen University (Taiwan) and the Institute of Oceanography, National Taiwan University, respectively. He is currently a PhD student at the Department of Geological Science, Stockholm University, focusing on marine silicate weathering. His PhD project aims to identify the reactant and product of marine silicate weathering and their relation to carbon dioxide sequestration. Multiple techniques such as wet chemical leaching, isotope geochemistry (Si and K isotopic analyses using multi-collector inductively coupled plasma mass spectrometer), modelling, and X-Ray based analyses will be conducted in his study to fulfil the aim. The outcome will improve the knowledge of marine silicate weathering and its contribution to the global carbon and silicon cycle.

**Ami Ward** - *Investigating Post-Magmatic Alteration of Plutons through in situ B Isotope Analysis of the Late Cretaceous Tuolumne Intrusive Suite, CA*

Ami Ward graduated with a BA in geology from the University of Florida (USA) in 2015 and an MSc in geosciences from the University of South Florida (USA) in 2019. Her MSc research investigated the variability of marine sediment input along the Lesser Antilles Island Arc. She worked to determine the concentration of B (an element highly mobile in fluids and enriched

in marine sediments) in volcanic rocks from islands comprising the arc. Currently, Ami is pursuing her PhD in isotope geochemistry at the University of North Carolina at Chapel Hill (USA). She is studying plutonic rocks from the Tuolumne Intrusive Suite, located in the Sierra Nevada batholith (California, USA). Her dissertation focuses on fluid-driven, late-stage, low-temperature (<600° C) mineral alteration in large bodies of granitic rock (plutons). Funding from IAGC will be used to analyze the B concentration and isotopic composition of biotite granitic rock samples from the Tuolumne using laser ablation-inductively coupled-mass spectrometry (single and multi-collector). Ami believes this work will provide insight into the continuum between metamorphic and igneous processes in granitic rocks as well as the evolution of magmatic-hydrothermal fluids associated with precious-metal deposits.

**Ruth Esther Delina** - *Chromium release and sequestration in mining-impacted iron-rich tropical soils and sediments: Insights from Philippine nickel laterite mine areas*

Ruth Esther Delina earned her BSc in geology from the University of the Philippines in 2016. In the same university, she worked as an instructor while pursuing her MSc in geology until 2020. She is now a doctoral student at the GFZ German Research Centre for Geosciences and Freie Universität Berlin. The main goal of her dissertation is to provide an in-depth understanding of the partitioning, speciation, and binding mechanisms of Cr in mining-impacted Ni laterites. Using trace element geochemistry and atomic-scale investigation (e.g., transmission electron microscopy, synchrotron-based spectroscopy), Ruth will show how Cr is mobilized and re-sequestered in Ni mines and, in turn, contribute to the development of better strategies for water quality management in these environments

## *Applied Geochemistry* News

### A letter from the Editors-in-Chief

We are pleased to share with you that the newly JCR impact factor of Applied Geochemistry reached a historic high of 3.84!!! This is another remarkable achievement. For reference, our major competing journals received the following impact factors: *GCA* 5.9, *Chem Geol* 4.6, *ACS EarthSpaceChem* (3.56). Our editorial efficiency also improved, with an average first decision in 4.8 weeks. *AG* proudly retains our long-standing stature as the leading journal publishing applied and environmental geochemistry research.

What is even more worthwhile to celebrate and be proud of is that *AG* (and our sibling journal, *GCA*) are purely run by a dedicated editorial board on a volunteer basis. Although the impact factor market is full of inflation, society journals representing and serving the community still represent an invaluable asset, which is the people that serve in our societies.

Another significant milestone in the journal's history is the establishment of an inaugural strategic advisory board (SAB). Profs. Philippe Van Cappellen and Yanxin Wang will serve as the co-chairs of this board. The invitation to form the board is on-going, and we embrace the values of diversity, equality and inclusiveness in various aspects. The board will be a great "think tank" for the global geochemical research community, and more importantly, serve as a unique mentoring resource for the next generation of geochemists.

We, as well as the IAGC, are grateful for your contribution to the journal in various roles of this dynamic ecosystem. We very much appreciate it.

Thank you all – take care!

Best Regards,

Michael Kersten
Zimeng Wang

Michael Kersten, Johannes Gutenberg University Mainz, Germany

Zimeng Wang, Fudan University, China

## Emerging Investigator Series

**Carin Sjöstedt** is a researcher at the Department of Soil and Environment at the Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden. She holds a Ph.D. in Land and Water Resources Engineering at the KTH Royal Institute of Technology, Stockholm, Sweden and a M.Sc. and B.S. in Environmental Science at Stockholm University, Sweden. Her expertise and interests are mainly in metal(loid) speciation in soil and water bodies, and has specialized in the techniques X-ray absorption spectroscopy and geochemical equilibrium modeling. Her recent paper "Evidence of the mineral $ZnHAsO_4 \cdot H_2O$, koritnigite, controlling As (V) and Zn (II) solubility in a multi-contaminated soil" was published in Applied Geochemistry, and is as an Editor's Choice featured with the Emerging Investigator Series

***(Read her full interview)***

The IAGC **Emerging Investigator Series** highlights excellent work by early career independent researchers which brings new insights to the field of geochemistry or promotes geochemical applications. Multidisciplinary work related to applied geochemistry, biogeochemical processes, and environmental geochemistry are also highly welcomed. Emerging Investigators and their featured articles are advertised to diverse disciplines and communities through multiple platforms of the journal and the IAGC. The selected Emerging Investigators will also be considered as candidates for the early career honors bestowed by IAGC and the editorial engagements with *Applied Geochemistry*. The application period is continuously open.

For more information visit: https://www.iagc-society.org/Emerging-Investigator-Series

## Recent Special Issues in *AG*

Hydrobiogeochemistry of redox-sensitive components: A tribute to Zhaoli Shen
Edited by Yanxin Wang, Huaming Guo, David Polya, Zaihua Liu

Special Issue on Insights into the geochemistry in Mexico and Latinoamerica from the Earth and Environmental Science
Edited by Thomas Kretzschmar, Jesús Roberto Vidal-Solano, Nadia Martínez-Villegas, Arturo Joaquín Barrón-Díaz

## Memberships available for geochemists in low- and middle-income countries

We strive to provide free memberships for geochemists from **low- and middle-income countries**. We can also provide assistance if your home country makes it difficult or unduly expensive to pay membership dues to the US. These initiatives are generously supported by member donations. As of the time of publishing of this newsletter, there are **60 complimentary memberships** available! If you know geochemist from a country on the list or otherwise need assistance with the membership fee, email the Business Office for details.

## Charitable Giving

We are thankful to the following members for their generous donations during the 2021-2022 renewal season to support memberships and student research grants for geochemists from low- and middle-income countries:

Alan Fryar
Alecos Demetriades
Bret Leslie
Carl Palmer
Chamindra Vithana
David Turner
Dirk Kirste
Fred Mackenzie
Iñaki Vadillo
Jim Finley
Joel Brugger
Klaus Neumann
Michael Kersten
Nancy Hinman
Neus Otero
Nicolas Greggio
Niklaus Waber
Orfan Shouakar-Stash
Patrice de Caritat
Piyal Halder
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Sergia Iriarte
Steven Banwart
Stuart Simmons
Stuart Winchester
Suzanne Anderson
Teodóra Szőcs
Thoti Yellappa
W. Berry Lyons
Yousif Kharaka

*IAGC is a 501(c)3 non-profit organization and donations to the Society are tax-deductible in the U.S. (EIN: 48-0943367).*

# 2023 Meetings

## 2nd IAGC International Conference (WRI-17 and AIG-14)

Water-Rock Interaction **WRI-17**
Applied Isotope Geochemistry **AIG-14**
in SENDAI 2023

**Sendai, Japan**
**18 August – 22 August, 2023**
**www.wri17.com**

After several years of uncertainty due to COVID-19 the 2nd IAGC International Conference will be held in Japan in August 2023. The meeting will be hosted by Secretary General Noriyoshi Tsuchiya (Tohoku University). Like the previous meeting in Tomsk, it will combine two of our most popular working groups, Water-Rock Interaction and Applied Isotope Geochemistry. Check the website above for new information as the meeting approaches.

## IAGC Executive Officers

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Romain Millot
(Applied Isotope Geochemistry)
French Geological Survey (BRGM)
FRANCE

Steven Banwart
(Geochemistry of the Earth's Surface Chair)
The University of Sheffield
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U.S. Geological Survey
USA

David Long
(Urban Geochemistry)
Michigan State University
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Ron Fuge
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Aberystwyth University
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