

Newsletter

of the

International Association of GeoChemistry

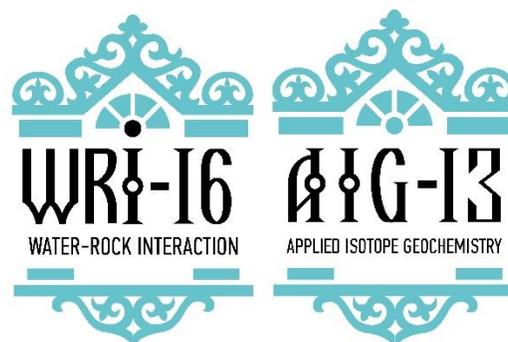
Number 68, August 2018

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Chris Gardner, Newsletter Editor
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The 1st IAGC International Conference



Tomsk, Russia, 21-26 July, 2019

Next year, like every three years, the Water-Rock Interaction (WRI) Working Group of the International Association of Geochemistry will meet for a week of science and collegiality in a unique region of the world. This meeting will be unique, as the Water-Rock Interaction and Applied Isotope Geochemistry (AIG) Working groups will organize a joint Symposium for the first time, consolidating as the **1st IAGC International Conference** in the heart of Siberia, in **Tomsk, Russia, 21-26 July, 2019**. To this end, we hope to attract researchers and scholars from the fields of geochemistry, hydrology, geology and environmental sciences as well as colleagues from applied isotope geochemistry to share their scientific findings and exchange ideas at the 1st IAGC International Conference. The consolidated conference is planned to be a week-long meeting, with the

technical program operating at two levels – sets of technical sessions organized by both Working Groups around themes of their choice, and multiple inter-disciplinary symposia developed by the conference organizers. The local committee led by Secretary General Natalia Guseva of the Tomsk Polytechnic University is developing an interesting scientific program including pre- and post-conference excursions and opportunities to experience the culture of Siberia and Russia.

Participants are asked to sign up on the WRI-16 website at wri16.com. The manuscript submission is now open and instructions regarding format and content can be found under wri16.com/submission/paper-instruction. Authors are invited to submit not more than 2 manuscripts written in English by **October 15, 2018**. The early registration deadline for the conference is **February 15, 2019**, followed by a late registration deadline on **March 30, 2019**.

Remembrance – Melvyn (Mel) Gascoyne, 1948-2018

Mel Gascoyne (69), former Secretary of the IAGC from 1992 to 2004 and then IAGC Business Office Manager from 2003 to 2010, passed away on July 14, 2018 after a career of scientific contributions to geochemistry and a record of distinguished service to the geochemical community. Mel had been diagnosed with Parkinson's disease in 2009 and then with Lewy Body-type dementia, handling these severe afflictions courageously and with dignity. Mel is survived by his wife Simcha (Sim) and sons Owen and Trevor.



Mel was born in Blackpool, UK in 1948 and from a young age was enamored with classical music, fishing and classic cars. He obtained a B.Sc. in Chemistry and a M.Sc. in Environmental Sciences from Lancaster University, UK. During his first year at university, Mel came across a poster from the Lancaster University Caving Club that invited anyone “long and thin and covered in skin” to come explore with them. Fitting that description ‘to a T’, Mel immediately joined and started what would be an adventurous period of cave exploration and science that would take him across the half the globe from the UK and Europe to Canada, the US, Mexico, and Venezuela

This interest led Mel in 1974 to join the speleothem paleoclimatology research group of Profs. Derek Ford and Henry Schwarcz at McMaster University in Hamilton, Ontario. Here, he received a PhD in geology in 1980 for his chronological and stable isotope research to reconstruct the paleoclimate of Vancouver Island, Canada between c. 65,000-35,000 years ago and that of his beloved northwest England between c. 290,000 to 110,000 years ago.

After a 2-yr post-doctoral fellowship following his PhD, Mel joined Atomic Energy of Canada Ltd. (AECL), where he would spend the next 16 years studying high-level nuclear waste disposal, first as a geochemical research scientist, then as leader of the hydrogeochemistry section, and finally as a senior scientist. During this time, Mel was responsible for the groundwater geochemistry program of the Canadian Nuclear Fuel Waste Management Program and established himself as an authority in interpreting hydrogeological, chemical and isotopic data for site characterization of granitic rocks and understanding of fluid flow and contaminant transport in fractured rock systems.

With this broad expertise, Mel retired from AECL in 1998 and established his own geoscience consulting company and went on to become a successful and respected geochemical consultant,

securing multiple contracts for geochemical, isotopic, and gas analysis of groundwater, document review, and report preparation. Gascoyne Geoprojects Inc. clients have included AECL, Ontario Power Generation, and the Nuclear Waste Management Organization in Canada, SKB in Sweden; POSIVA OY in Finland, the DOE Yucca Mountain Project in the US, and OECD/NEA and ANDRA in France. Mel published over 70 journal and conference papers and authored over 50 technical reports over the course of his career.

To many in the geochemical community, Mel is best known for the generous commitment of his time and abilities to the promotion of science through his lengthy service, particularly to the IAGC and its journal *Applied Geochemistry*.

Mel served as an Associate Editor for *Applied Geochemistry* for 23 years, from 1988 to 2011, handling manuscripts on nuclear waste disposal, radioactivity in the environment,



formation waters, and U-series geochronology. Succeeding Brian Hitchon, Mel became IAGC Secretary in 1992, a difficult time for IAGC as it was transitioning to a new business model and seeking to establish itself in an appropriate place within the global geochemical community. He served admirably in this capacity over the next decade and led the drive to establish a permanent Business Office, an initiative which the IAGC Council approved in 2002 after several years of deliberation. Mel set up and then managed the Business Office until 2010, when it was transferred to its present location at Ohio State University. Over this time, Mel also took on the important job of editing the IAGC Newsletter, the

primary means for the organization to communicate with its members, first from 1993-98 (issues 26-31) and subsequently from 2003-2010 (issues 38-52). Mel managed the Business Office in a very proactive way and his initiative to have a staffed IAGC booth at important conferences, proved to be a successful recruiting initiative for IAGC. Certainly, during my terms as Vice-President and President, I always looked forward to the GSA Annual Meeting, where one would find Mel and Sim vigorously promoting the IAGC and benefits of membership to anyone who stopped by for a free key chain or to enter a drawing for a volume of *Applied Geochemistry*. This led to the successful recruitment of new members, such that the rate at which IAGC membership grew increased progressively through Mel's strong outreach effort. Without a doubt, Mel was the face of IAGC to many members during this time, as the Secretariat published the IAGC Newsletter, handled all issues related to Association membership and journal subscriptions. Appropriately, Mel received the IAGC Distinguished Service Award in 2011 in appreciation of these contributions.



To his many friends and colleagues around the world Mel will always be known for his ever-friendly disposition and droll sense of humor. The geochemistry and speleological communities mourn his passing.

Russell Harmon
Past President, IAGC
North Carolina State University

Association News

2019 Award Nominations

We strongly encourage members to nominate peers and colleagues who make significant contributions to the advancement of geochemistry for one or more of the numerous IAGC awards. A complete list of IAGC Awards and nomination instructions can be found in the IAGC website:

<http://www.iagc-society.org/awards.html>.

The IAGC will be accepting award nominations for 2019 for the following awards **through December 31, 2018**.

The Kharaka Award - bestowed to up to two deserving scientists (which may include senior graduate students) from developing countries. The award consists of a framed certificate plus an IAGC membership and *Applied Geochemistry* subscription for a term of three years.
http://www.iagc-society.org/kharaka_award.html

The Harmon Distinguished Service Award - bestowed on a deserving candidate to recognize outstanding service by an IAGC member to the Association or to the geochemical community that greatly exceeds the normal expectations of voluntary service:
http://www.iagc-society.org/distinguished_service.html

IAGC Fellow - bestowed to a scientist who has made significant contributions to the field of geochemistry:

http://www.iagc-society.org/iagc_fellows.html

Certificate of Recognition - 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:

http://www.iagc-society.org/certificate_recognition.html

Hitchon Award –Awarded to authors of the most highly-cited paper in *Applied Geochemistry* 5 years earlier, according to SCOPUS. This award consists of a framed certificate to the lead author and a complementary 1-year membership to IAGC for all authors for the year following receipt of the award, if not already an IAGC member. The award recipients will be cited in the IAGC Newsletter and website.

<http://www.iagc-society.org/hitchon.html>

2019 PhD Student Research Grant Applications

We will post instructions for applying for the PhD Student Research Grant program on 1 October, 2018. Applications will be due on 1 December. Keep an eye on our website and Facebook page for the announcement:

www.iagc-society.org/phd_grants.html

www.facebook.com/IAGCSociety/

2018 IAGC Awards

We are pleased to announce our Society Awards for 2018. Congratulations to all the recipients, and thank you for your service to the IAGC and the geochemical community!

Vernadsky Medal



Jacques Schott is Directeur de Recherche CNRS Emeritus at the Observatoire Midi-Pyrénées, Toulouse, France. Jacques received a Docteur ès Sciences Physiques degree from Toulouse University (1974). He defended his thesis as a Fellow of the French Commissariat à l'Énergie Atomique (CEA) on the chemical and isotopic fractionations induced in natural systems by the coupling between diffusion, thermal gradients and natural convection (Soret and thermogravitational diffusions). After an Assistant Professorship at Toulouse University and a Research Associate position at Yale University (1979-1982), he has been since working within the Centre National de la Recherche Scientifique (CNRS) on the experimental and theoretical modeling of solid-fluid interactions in natural systems. For this purpose Jacques participated in the creation of a new experimental laboratory aimed at generating the values of kinetic, thermodynamic and structural (Raman spectroscopy, RMN, EXAFS...) parameters on minerals, aqueous species (especially metals) and mineral-solution interfaces. This information is used for the modelling, at different spatial and temporal



scales, of reactive transfers within the Earth's crust and at its surface (diagenesis in sedimentary basins, hydrothermal processes, continental weathering, CO₂ sequestering into the subsurface). Jacques' recent fields of interest are: i) the quantification of the kinetics of crystal growth for carbonate and silicate minerals and ii) the characterization of the kinetics and equilibrium fractionation of novel isotope proxies (B, Mg, Si, Ge, Zn, Ga, Ni, Li) during solid-solution interactions (dissolution, sorption, coprecipitation) as a function of metal aqueous and solid speciation and the reaction affinity. Jacques also has served on a range of national and international committees involved with research and teaching.

Ebelmen Award

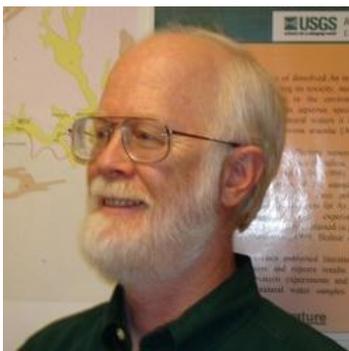
Julien Bouchez has been a CNRS Junior Researcher since 2013, appointed at the Institut de Physique du Globe de Paris, France. He graduated from Université Paris Diderot (2009) and was a post-doctoral researcher at the German Centre for Geosciences, Potsdam, Germany (2010-2013). His core research activity is focused towards a better understanding of the roles played by erosion, weathering and river transport in the global biogeochemical cycles. He is involved in the development of novel geochemical tracers for weathering rates and processes, such as stable isotope systems of metal and metalloid elements (Li, B, Mg, Si, Cu, Zn, Sr, Ba). He uses a combination of analytical work (mainly based on multi-collector, plasma-source mass spectrometers) and modelling to unravel how, where, when, and at what rate chemical elements move amongst the various compartments of the Earth surface. He has been conducting several research projects coupling solute and sediment



chemistry with water and sediment dynamics in the largest rivers of the world, and is involved in research activities linked to the French network of Critical Zone Observatories (OZCAR) and its counterparts in other countries.

IAGC Fellows

D. Kirk Nordstrom is a Senior Scientist who has more than 40 years of professional experience with the US Geological Survey. Kirk is recognized internationally for his research on acid mine drainage, radioactive waste disposal, geothermal chemistry, geomicrobiology, arsenic geochemistry, thermodynamics, and geochemical modeling. He holds a BS in chemistry from Southern Illinois University, a MS degree in geology from the University of Colorado, and PhD in applied earth sciences from Stanford University. He has received the Birdsall-Dreiss Distinguished Lectureship Award from the Hydrogeology Division of the Geological Society of America and the Meritorious Service and Cooperative Conservation Awards from the Department of the Interior. Kirk is a long-standing IAGC Member with a distinguished research career that has produced more than 250 research publications with >12,000 literature citations.



Joachim Hoefs is an Emeritus Professor of Geochemistry at the Georg-August University of Göttingen, Germany. Jochen is an internationally recognized stable isotope geochemist, whose career has been characterized by a distinguished record of research publication and geoscience community service of more than 30 years as co-editor of Contributions to Mineralogy & Petrology. Jochen was an IAGC Member throughout his professional career and served on the IAGC Council for 8 years from 1996-2004, chairing multiple executive committees during this time. Jochen is best known within the stable isotope community for the multiple editions of his book “Stable Isotope Geochemistry” which has received >3000 literature citations and has been used a course textbook around the world, and has authored almost 200 peer-reviewed research papers that have addressed all traditional light stable isotope systems (H, Li, C, N, O, & S) that have received >8000 literature citations.



Kharaka Award

Jiubin Chen is at Tianjin University in China at the Institute of Surface-Earth System Science (ISESS). He completed an undergraduate degree in earth science in the Changchun Institute of Geology followed by several jobs in different sections.



He continued on to a DEA then a PhD programs at the Institut de Physique du Globe de Paris (IPGP), University Paris 7 where he studied the geochemistry of metal isotopes (Zn, Cu and Fe) followed by a post-doc in the Trent University in

Canada on Hg isotopes. He then worked in the Institute of Geochemistry, Chinese Academy of Sciences (IGCAS) in Guiyang. He now works on the geochemistry of metal isotopes, with a focus on the method development, fractionation mechanisms and potential applications in various surface environments. He developed methods for purifying Zn, Hg and Ga from geological matrix for precise isotope analysis, which have demonstrated the usefulness of these metal isotopes for tracing pollution and understanding biogeochemical cycling.

Teng Yanguo is currently a professor at Beijing Normal University. He received his Ph.D in environmental geochemistry at Chengdu University of Technology in 2001. Since then, he has been working on environmental geochemistry and hydrogeochemistry at



Beijing Normal University. As contamination of soils and water poses serious threat to human health, the environment, and economy in China, Teng's expertise and skills in applied geochemistry find ample opportunities in challenging science problems and in making societally relevant contributions. He applies the principles and methods of geochemistry to soil and water contamination, and water resources problems. His major contributions include systematic assessment of Cu and V contamination in soils from two world class mines, studies of sorption of radionuclides onto soil particles, and the biogeochemical reactions caused by river bank filtration projects. This work produced publications in *Environment International*, *Science of Total Environment*, *Environmental Pollution*, *Chemosphere*, and *Journal of Geochemical Exploration*.

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, as well as a complimentary 1-year membership.

This year's recipient of the **Hitchon Award** is Lara Haluszczak's **2013** paper "Geochemical evaluation of flowback brine from Marcellus gas wells in Pennsylvania, USA" with 218 citations since its publication in 2013. *Full Citation:*

Haluszczak, L.O., Rose, A.W., Kump, L.R.
Geochemical evaluation of flowback brine from Marcellus gas wells in Pennsylvania, USA (2013) *Applied Geochemistry*, 28, pp. 55-61.

Lara Haluszczak received her B.S. degree from Pennsylvania State University in Geosciences with a concentration in Hydrogeology in 2011. Ms. Haluszczak and her colleagues published her undergraduate thesis entitled "Geochemical evaluation of flowback brine from Marcellus gas wells in Pennsylvania, USA" in *Applied Geochemistry* in January 2013 and has since been cited 218 times. Congratulations to Ms. Haluszczak!



Elsevier PhD Student Research Grant Winners

The IAGC is happy to announce the recipients of the 2018 Student Research Grants, sponsored by Elsevier and the IAGC. Every year, we have many strong research proposals from students from around the world, and this year was no exception. We received so many proposals this year that we had to expand the size of our award selection committee! This has become a very competitive award, with a funding rate of only 5% for 2018. The success of these grantees demonstrates the extremely high caliber of their research. Congratulations to our grantees!

Deon Knights – “Quantifying Nitrate Attenuation in a Coastal Freshwater Wetland.”

Deon is from Trinidad and Tobago and is currently a PhD candidate at The Ohio State University (USA). He earned a BS in Geology at the University of Delaware (USA) and a MS in Earth Sciences at The Ohio State University. The capacity of coastal wetlands to limit nutrient transportation to the coast is an ecological problem that is not fully understood. Deon is investigating the efficacy of coastal freshwater wetlands in removing nutrients transported to the coast using open-atmosphere benthic chambers to associate total nitrate removal (net denitrification, nitrification, DNRA) to unique ecogeomorphic zones along Wax Lake Delta (Louisiana, USA). Nitrate removal rates will be used in a two dimensional finite difference model of Wax Lake Delta. The shallow water



equations and advection dispersion reaction equation will be solved to calculate a mass balance of nitrate in the delta system under varying hydrological conditions.

Christina Richardson – “C, N, P, and Se loads from agricultural drainage into the Sacramento-San Joaquin Delta, California.”

Christina is currently a PhD student in Earth Sciences at the University of California at Santa Cruz (USA). She received her BS in Marine Biology from the University of California at Santa Cruz in 2012 and her MS in Geology and Geophysics from the University of Hawai‘i at Manoa in 2016. Currently, she studies dissolved nutrient and trace element fluxes from agricultural drainage into the Sacramento-San Joaquin Delta in California, the largest estuary in the US west of the Mississippi River using a suite of geochemical and stable isotope tracers to better understand the biogeochemical processes controlling agricultural drainage geochemistry. Her work on agricultural drainage nutrient and trace element inputs to the Delta will be the first of its kind, providing valuable information to scientists, resource managers, and stakeholders tasked with improving the water quality and ecologic health of this system.



Joyce Yager is currently a PhD student at the University of Southern California in the Department of Earth Sciences. She earned her BS in Marine Science, Biology, and Geology at the University of Miami in 2013. She is



investigating the Triassic-Jurassic transition, including the lead up to and the aftermath of the end-Triassic extinction. Her primary goal is to better understand the link between large igneous province volcanism and the end-Triassic extinction. She uses proxies for volcanism in the marine sedimentary record (Hg and Hg isotopes) together with proxies for changes in biogeochemical cycling and redox ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$, and trace metals) from marine sedimentary sections in Peru, Nevada, England and elsewhere to investigate the interplay between volcanism and the probable causes of the extinction.

Erin Scott - *“The plateau effect on Andean arc volcanism.”*

Erin graduated with a BSc–Geology from Durham University in 2015 and continued in Durham Earth Sciences for her PhD project studying Andean tectonics and arc volcanism. A major theme of her research is looking for continental-scale



geochemical changes along the Andean arc associated with Cenozoic crustal thickening events during the formation of the Andean Plateau. In particular, Sr- and Nd-radiogenic isotopes of Andean arc lavas correlate well with elevation and crustal thickness, and can discriminate between ‘plateau’ and ‘non-plateau’ settings. Being awarded the IAGC Student Research Grant will allow Erin to increase available $^{87}\text{Sr}/^{86}\text{Sr}(\text{i})$ and $^{143}\text{Nd}/^{144}\text{Nd}(\text{i})$ data for Paleogene Central Andean lavas to help further constrain the nature and timing of crustal thickening and surface uplift events during a critical stage of Andean Plateau evolution.

Masoomeh Kousehlar – *“Sources and extent of toxic metal contamination of the atmosphere and soil in urban and industrial suburban settings.”*

Masoomeh obtained her bachelor’s degree in geology and her master’s degree in petrology from University of Tehran (Iran). She is currently a PhD student in the Department of Geology and Environmental Earth Science at Miami University, Oxford, Ohio (USA). Masoomeh uses



a combination of geochemical and microscopy techniques to investigate the air pollution in urban and industrial areas. Masoomeh is using tree bark and lichen as biomonitors. She analyzes these samples for their elemental

compositions and Sr, Nd, Pb isotopic ratios to identify and characterize the sources of air pollution in areas with limited environmental studies. She believes that identifying the sources and extent of air pollution is crucial for implementing effective controlling strategies and lowering the risks.

Kaj Sullivan – *“Copper and zinc isotopes in serum as biological markers of Alzheimer’s disease.”*

Kaj earned his BSc in Geological Sciences from Queen’s University in Kingston, Canada where he is currently conducting his PhD research. He is investigating the potential of copper and zinc isotopes in the serum as biological markers of Alzheimer’s disease (AD). AD is pathologically characterized by the formation of amyloid plaques and neurofibrillary tangles in the brain, and clinically characterized by symptoms such as the impairment of cognitive and functional abilities. Amyloid plaques contain elevated concentrations of Cu and Zn as a result of the direct binding of these elements to amyloid beta. His research aims to detect AD by measuring slight changes in copper and zinc isotopic compositions in serum as a result of amyloid plaque formation in the brain, which can often precede the emergence of clinical symptoms by decades. Kaj conducts this research using anion exchange column chromatography to purify copper and zinc prior to isotopic analysis by MC-ICP-MS. There are currently no validated biomarkers for AD, and should Cu and Zn isotopes in serum prove to be effective biomarkers, the disease could be detected before the onset of clinical symptoms.

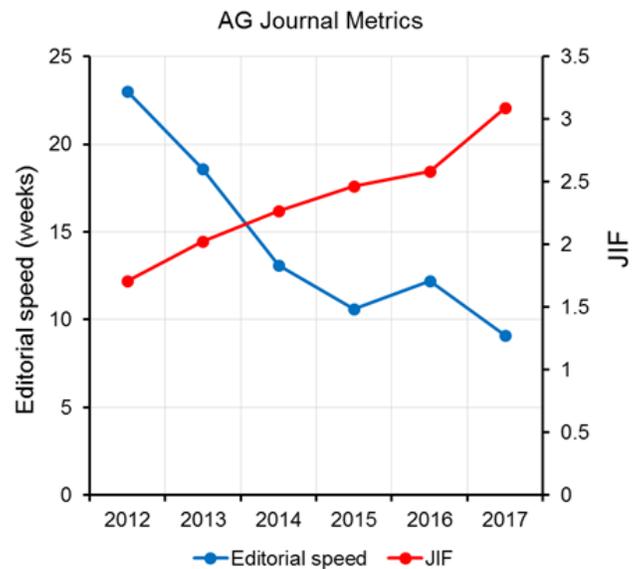


Letter from Editor-in-Chief of Applied Geochemistry

In this edition of the IAGC newsletter, I’d like to share with you a few journal updates. The Journal Citation Report published in June 2018 reports on a Journal Impact Factor rise from 2.58 in



previous year to now 3.09, which means a jump of half JIF score for AG within one year. This is clearly outstanding compared with the rather gradual increase in the JIF trend over the last years (see Figure below). Our journal is now ranked No. 24 out of 85 journals in the category Geochemistry & Geophysics. Just five years ago it was No. 33, and we are thus well on the way to get into the top 20s. For this to foster, we have been active in soliciting and encouraging colleagues to edit quite attractive Special Issues.



The first one published last year was on the still quite hot topic of “Environmental and Health Roles of Geogenic Arsenic” (Volume 77), edited by Huaming Guo and Stefan Norra. Another one was the outcome of an IAGC working group on “Urban Geochemistry” (Volume 83), edited by W. Berry Lyons, Christopher B. Gardner, David T. Long. The third one was on “Transformation and Fate of Natural and Anthropogenic Radionuclides in the Environments” (Volume 85), with articles related to the Fukushima disaster as an outcome of a session presented at Goldschmidt 2016 in Yokohama, edited by Daniel Kaplan, Kazuya Tanaka, and Toshihiko Ohnuki. Clearly, editing a journal issue is an exciting process, but compiling those issues was also quite a tremendous piece of work for all our Guest Editors. They skillfully performed the difficult task of getting two reviewers for each paper (up to over 30 for an SI), reading the reviews, suggesting a judgement, and writing a draft decision letter as fair and objective as possible. If a paper is to be rejected for whatever reason, we pledge to do it in a respectful and timely manner. As Editors, we are certainly not perfect and sometimes make misjudgment under such a workload. For that, we ask for patience and forgiveness.

Other valuable contributions are the review type papers, in particular on singular elements like arsenic and molybdenum, which are currently among the most cited articles of AG (see the AG webpage for the whole list). Clearly, there is more potential for such feature articles, and another such review on vanadium is already invited. Please contact me once you may wish to select an element out of the periodic system for your expertise in writing up a review type paper.

The last positive metric on performance to be found on journal webpage and worth a mention here is the editing speed. We all know how important not only impact but also speed of publication is to authors considering where to publish, especially in fast moving research areas. In fact, the average number of weeks it takes for

an article to be accepted after review and revision have halved within the last five years (steadily, except for the half year experiment with the new but unripe editing system EVISE in 2016). This is not to be confused with the overall publication speed, which is still in the order of 40 weeks due to considerable delay in journal processing out of my control. Of course, since you are members of IAGC and, hence, likely subscribers to our journal, you can easily access the articles online well before they appear in print. Nonetheless, if plotted together with the JIF trends already discussed, we find the nice X-type graph above. I Hope this excellent “X-factor” metrics performance will keep AG a trusted journal within the rapidly growing market of predatory publications, and further increase the submission rate of good papers to keep our journal on that level. I, and the rest of the Editorial Board team, are grateful for your interest and support of this journal and our related vibrant association. Thank you all – take care!

Best Regards,
Michael Kersten
Editor-in-Chief
Applied Geochemistry
kersten@uni-mainz.de

Charitable Giving

Members can make a charitable gift to the IAGC, either for general fund support or for special initiatives during online membership renewal. You may donate at any time online, either during your membership renewal or separately. Please donate right now through the IAGC web site (www.iagc-society.org/donate.html)

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

The following members donated while renewing their membership dues for 2018. Thanks for your generosity and for supporting the IAGC and our mission!

Gwen Macpherson

Stuart Simmons

Marilena Stimpfl

Marie Pavish

Patrice de Caritat

Joel Moore

Bret Leslie

Radomir Petrovich

Rich Wanty

Rona McGill

Bernhard Mayer

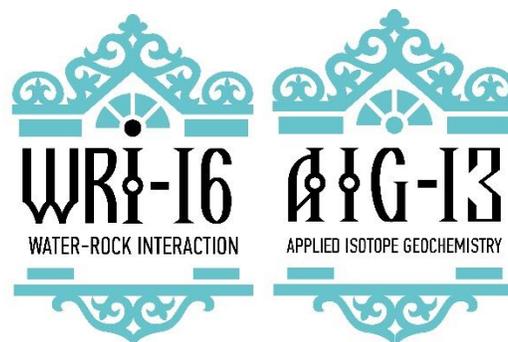
Suzanne Anderson

Silvia Irene Carrasquero

2019 Meetings

WRI-16 & AIG-13: The 1st IAGC International Conference

21-26 July, 2019 in Tomsk, Russia



Manuscript Submission – 15 October, 2018
Early Registration – 15, February, 2019

<http://wri16.com/>

Note: Participants of both WRI-16 and AIG-13 will use the website above to submit manuscripts and complete registration

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