International Association of GeoChemistry

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IAGC LEADERSHIP ANNOUNCEMENT

International Association of GeoChemistry Vice-President Jodie Miller has accepted a new position that precludes her from participating in a leadership role in professional societies, so she has resigned her position from IAGC governance. We thank Jodie for her service and wish her the best in her future endeavours while we continue to work with her in her role as a general member. In order to maintain continuity, Neus Otero (University of Barcelona, Spain) will continue as president for an additional two-year term, and Philippe Négrel (French Geological Survey, BRGM) will continue to serve in the role of past-president. Finally, we are happy to announce that **François Chabaux** will be the next IAGC vice-president, starting immediately.

François Chabaux is Professor of Geoscience and Geochemistry at the École et Observatoire des Sciences de la Terre (EOST) at the University of Strasbourg (France) and is a member of the Institut Terre et Environnement de Strasbourg. He is an associate researcher at the Geotop research centre in Montréal (Canada) and was a visiting scientist (2018–2020) at the Institute of Surface-Earth System Science (ISESS) of Tianjin University (China). He is Policy Officer at the National Institute for Earth Sciences and Astronomy of the Centre National de la Recherche Scientifique (CNRS, France).

Since starting in Strasbourg in 1994, François has researched the mechanisms and time constants of weathering and erosion processes in the critical zone by developing and popularizing a variety of element and isotopic techniques, notably U-series nuclides. François also uses geochemical tracing approaches, including classic radiogenic isotopes (Sr, Nd, Pb), U–Sr isotopic coupling, and stable isotopes (Ca, B, Li). More recently, by applying coupled hydrogeochemical modeling approaches, he has investigated the nature of the water–rock interactions that control the chemical composition of waters in watersheds and aquifers. 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 at Strasbourg University. This work has contributed to making this watershed one of the current reference sites of the French critical zone observatory network, a distributed network of research observatories around France and worldwide, known as OZCAR (Observatoires de la Zone Critique – Application et Recherche).

François is an associate editor of the IAGC's journal *Applied Geochemistry*, co-editor-in-chief of *Comptes Rendus Geoscience* (the scientific journal of the French Science Academy), and a member of the editorial board of *Chemical Geology*. He is member of the scientific council of the Institut National des Sciences de l'Univers (INSU) (National Institute for Earth Sciences and Astronomy) of the CNRS; he was a member from 2012 to 2016 of the scientific expertise committees of the ANR (the French National Agency for Research); and he was council member from 2008 to 2010 of the European Association for Geochemistry (EAG). François was awarded the 2015–2016 Outreach Lecturer of the EAG–GS Outreach Program to Africa, and was the 2019 Ingerson Lecturer of the IAGC.

EMERGING INVESTIGATOR SERIES

Lauren E. Beckingham is an assistant professor in the Department of Civil and Environmental Engineering at Auburn University (Alabama, USA) and is the first recipient of the IAGC/*Applied Geochemistry* Emerging Investigator Series. She holds a PhD and MA in civil and environmental engineering from Princeton University (New Jersey, USA) and a BS in environmental engineering from Michigan Technological University (USA). Prior to joining Auburn, she was a Geochemical Postdoctoral Fellow at the Lawrence Berkeley National Laboratory (California, USA). Her expertise and interests are in understanding water–rock interactions in environmental systems, particularly in subsurface energy systems, and these include geologic CO_2 sequestration and compressed energy storage. Her laboratory is currently supported by the NSF, a 2019 CAREER award, the American Chemical Society's Petroleum Research Fund, and the US Department of Energy. Her recent 2021 paper entitled "The impact of mineral reactive surface area variation on simulated mineral reactions and reaction rates" was published in *Applied Geochemistry* (doi: 10.1016/j.apgeochem.2020.104852) and is featured together with the Emerging Investigator Series.

The IAGC **Emerging Investigator Series** highlights excellent work by early career independent researchers in which they bring new insights to the field of geochemistry or they promote 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 *Applied Geochemistry* and of the IAGC itself. The selected Emerging Investigators will also be considered as candidates for the early career honors bestowed by the IAGC and for editorial engagements with *Applied Geochemistry*. The application period is continuously open. For more information, visit www.iagc-society.org/Emerging_Investigator_Series.html.

2021 SOCIETY AWARDS

We are pleased to announce the IAGC awards for 2021. Congratulations to the recipients! Thank you for your service to the IAGC and the geochemical community!

IAGC Fellows

Janet Hering is the Director of the Swiss Federal Institute of Aquatic Science and Technology (Eawag) and a professor at the Swiss Federal Institutes of Technology (ETH) in Zürich and Lausanne. Previously, she was on the faculties of the California Institute of Technology (USA) and the University of California Los Angeles (USA). She is a member of the U.S. National Academy of Engineering. Her research interests include knowledge exchange at the interface of science with policy and practice, trace element biogeochemistry, and water treatment for the removal of inorganic contaminants. As Director of Eawag, she oversees a staff of over 500, including ~175 researchers and 100 technical staff members. Eawag hosts over 100 doctoral students conducting their thesis research. Research at Eawag focuses broadly on water and the water environment, encompassing the continuum from relatively unperturbed aquatic

ecosystems to fully engineered water and wastewater management systems. In addition to its research activities, Eawag's mandate encompasses both education and expert consulting.

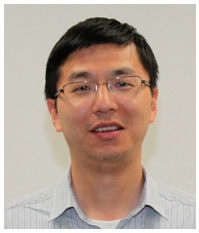
Yanxin Wang is Professor of Hydrogeology and Environmental Engineering at the China University of Geosciences. He was elected as an Academician of the Chinese Academy of Sciences in 2019. In the past 30 years, he and his group have made substantial efforts in studying the genesis of groundwater quality to provide theoretical support for safe drinking water supplies. Actively engaged in international collaborations, he has integrated multi-disciplinary approaches of hydrogeochemistry, groundwater hydraulics, sedimentology, geostatistics, isotope geochemistry, and geomicrobiology to better understand the processes and factors controlling mobilization/immobilization of geogenic As, F, and I in aquifer systems. His work is not only fundamental, but practical. He has pioneered and tested novel cost-effective methods for removing contaminants from groundwater. From his fundamental understanding of arsenic hydrogeochemistry, he recently identified and field tested an innovative method to deliver oxidants to aquifers to create precipitates in-situ to immobilize arsenic. He was the recipient of the John Hem Award of the National Ground Water Association of the U.S., the Applied Hydrogeology Award of the International Association of Hydrogeologists, and Elsevier's Award of Highly Cited Chinese Researcher in the field of Earth and Planetary Science.

Ebelmen Award

Kimberly Parker is an assistant professor of Energy, Environmental and Chemical Engineering at Washington University in St. Louis (Missouri, USA). She earned her PhD at Stanford University (California, USA), where she was supported by the Abel Wolman Fellowship (American Water Works Association), the Gerald J. Lieberman Fellowship (from Stanford), and the National Science Foundation Graduate Research Fellowship. She was then awarded a Marie Curie Individual Fellowship (European Commission) to conduct research at ETH Zürich (Switzerland) prior to joining the faculty at Washington University. Her research has been recognized with honors including the Best Science Paper of the Year published in *Environmental Science & Technology* (2016) and the Paul V. Roberts Association of Environmental Engineering & Science Professors Outstanding Doctoral Dissertation Award (2017).

Kharaka Award

Guilin Han is a professor at the China University of Geosciences (Beijing). She received her PhD in environmental geochemistry at the Institute of Geochemistry, Chinese Academy of Sciences in 2003, where she later became an associate professor, then a full professor. She has been a visiting scholar at the Lawrence Berkeley National Laboratory (California, USA), the Institute of Geophysics in Paris (France), and the Leibniz Institute of Oceanography (Germany). She works on surficial environment geochemistry in China, focusing on the stable isotopes and their applications on the Earth's surface. Her significant contributions include developing methods for purifying K–Ca–Sr from a geological matrix for precise isotope analysis, measuring the Ca and Sr isotopic composition of rainwater in different ecosystems in China, and understanding weathering in watersheds and the global carbon cycle based on Sr and C isotopes.



Peng Lu is a geologist at EXPEC Advanced Research Center (Saudi Aramco) and the Leader of the Geology Technology Team at the Beijing Research Center (Aramco Asia). Before joining Aramco, he worked as an inorganic geochemist at the Calera Corporation in San Francisco (California, USA). He received a BS (2000) and MS (2003) degree in geology from Nanjing University (China) and a PhD in geochemistry from Indiana University (USA) (2010). His research focuses on integrating field observations, experiments, and numerical modeling to investigate the underlying processes and mechanisms of water–rock interactions. The applications of his fundamental research include many urgent energy and environmental problems, such as reservoir quality prediction of petroleum reservoirs, toxic metal contamination, geological carbon storage, and water quality. He received the EXPEC Advanced Research Center Award in 2019 and the American Association of Petroleum Geologists' Annual Convention and Exhibition 2017 Top Presentations Award. He was a finalist for Best Exploration Technology Award – World Oil Awards in 2017. Dr. Lu has more than 70 technical publications, a total citation of 1,473 and an H-index of 18, according to Google Scholar. He holds 6 U.S. patents.