

Newsletter

of the

International Association of GeoChemistry

Number 75, December 2021

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Newsletter Editor – Chris Gardner,
BusinessOffice@IAGC-Society.org

From the Business Office

The big news from the Business Office in the second half of 2021 is our [new website](#). I moved our 12-year-old site from an aging system to a new online platform in November. The new system has many benefits:

1. Better security (SSL secured with encrypted passwords)
2. Mobile friendly
3. Secure credit card processing (no need for additional services such as PayPal)
4. An option for recurring automatic payments with secure credit card storage
5. Simpler direct email communication
6. Secure members only section
7. Modern look and feel

While these features are all welcome additions, I know inevitable issues will appear the more we use the system. If you run into any problems or have any comments or suggested content for the site, please let me know at BusinessOffice@IAGC-Society.org.

Tiered membership

The IAGC Executive Committee voted to move to a tiered membership to bring our dues more in line with other societies. Our new annual dues are \$40 for professionals and \$15 for students and geochemists from low- and middle-income countries. The IAGC does not make a profit from the \$15 memberships – they are set at the cost of

Elements magazine per person. Using this new model, we are able to offer lower priced memberships to students, which is offset by our professional members. When you log into your [profile](#) you will see the option to change your membership level if you haven't already done so. Since we only had one membership level in the past, I set all members to "Professional – one year," but you may change your level to student or to auto-recurring payments at any time.

Support for geochemists in low- and middle-income countries

Speaking of geochemists from low- and middle-income countries, I am excited to announce two new important IAGC initiatives. During renewal, you now have the option to either support student research grants or memberships for these scientists. Beginning now, money will be pooled and go directly to student research grants and memberships. Due to the generous seed funding from Secretary Orfan Shouakar-Stash and Treasurer W. Berry Lyons as well as donations from our members, we already have **49 memberships** to donate. Please spread the word to colleagues in these countries, and let's help get them more involved in our society!

Again, Please don't hesitate to reach out with any comments or suggestions!

Chris Gardner
IAGC Business Office Manager
BusinessOffice@IAGC-Society.org

REMINDER: Open Call for Emerging Investigator Series

The aim of this Series is to highlight excellent work by independent researchers in their early career that bring new insights into the field of geochemistry or to promote geochemical applications. Multidisciplinary work related to

applied geochemistry, biogeochemical processes, and environmental geochemistry are also highly welcomed. Featured articles as well as the authors as emerging investigators will be extensively advertised to diverse disciplines and communities through multiple platforms of the journal and the International Association of GeoChemistry. 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*.

Application

Applicants should have completed their PhD (or equivalent degree) within the last 10 years, and have an independent career. Apply to the Emerging Investigators Series by contacting Editors-in-Chief, [Michael Kersten](#) and [Zimeng Wang](#) with the following information:

- Your up-to-date CV with full name, affiliation, contact information. The CV should be no longer than 3 pages and include the education and career, a (selected) list of publications, professional achievement, honors and awards, and a website of applicant's group if available.
- A synopsis of the article intended to be submitted to the Series, including a tentative submission date. Please see <https://www.journals.elsevier.com/applied-geochemistry/> for more information on the manuscript types and other instructions for authors. Regular research article, rapid communication, feature article, and critical review are all acceptable to the Series.

Reviewing Criteria

Applications will be reviewed by the editors and the advisory board of the journal. The relevant

criteria for reviewing will be based on the following:

- originality and novelty of the research
- scientific quality of the research
- potential for significant impact
- balancing factors related to inclusion and diversity

The selected applicants will receive formal invitation from the journal to submit their featured articles. Please note that submitted articles for the series will still undergo the same rigorous peer-review process as regularly submitted papers.

This is an ongoing series with featured articles being added into the collection of Emerging Investigator Series continuously and displayed on the media of the journal and IAGC.

Latest Emerging Investigator

Jaime Cesar is a Research Scientist at the Geological Survey of Canada, Calgary. Jaime combines molecular, compound-specific, and site-specific stable isotope tools to study organic compounds from petroleum basins and other environments to optimize the exploration and production of hydrocarbon resources and

perform paleo-environmental reconstructions. Jaime's research is part of the Geoscience for New Energy Supply (GNES) program funded by Natural Resources Canada (NRCAN). His recent paper "[A novel isotopic approach to distinguish primary microbial and thermogenic gases in shallow subsurface environments](#)" was published in *Applied Geochemistry*, and is featured with the Emerging

[\(Read his full interview\)](#)

IAGC on Twitter



[@IAGeoChemistry](#). This account will be the latest source of IAGC information and is also embedded on the front page of our website.

41 Tweets



International Association of Geochemistry (IAGC)
@IAGeoChemistry

International Association of Geochemistry (IAGC). We advance geochemistry through our working group meetings, awards, and grants to geochemists around the world

[iagc-society.org](#) Joined October 2020

21 Following 192 Followers

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Zimeng Wang @zimengwang · Dec 3

We are excited to announce that a world renowned expert in gas geochemistry Dr. Giuseppe Etiope joined AG as an associate editor. [@IAGeoChemistry](#) [@MichaelKerste15](#)

Introducing New Associate Editor



Giuseppe Etiope
Senior Researcher
National Institute of Geophysics and Volcanology, Italy

Research interests & expertise:

- biotic (microbial, thermogenic) origin of methane in sedimentary basins
- abiotic origin of methane in ultramafic rocks (serpentinization systems)
- gas seepage (seeps, mud volcanoes, microseepage: onshore and offshore)
- global geological methane emissions into the atmosphere
- methane origin and seepage on Mars

Recent AG articles
Kordella, Szervizs, Giancarlo Ciotoli, Xenophon Dimas, George Papageodorou, and Giuseppe Etiope. "Increased methane emission from natural gas seepage at Katakolo Harbour (Western Greece)." *Applied Geochemistry* 116 (2020): 104578

Etiope, Giuseppe, and M. J. Whitecar. "Abiotic methane in continental ultramafic rock systems: Towards a genetic model." *Applied Geochemistry* 102 (2019): 139-152.

Applied Geochemistry CELEBRATES 35 YEARS

1 7

Association News

EXTENDED 2022 IAGC Awards – Call for 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. Award nominations for 2022 **have been extended through January 15, 2022**. You may nominate colleagues for the following awards, using the [Award Nomination Cover Sheet](#).

The Vernadsky Medal - awarded for a distinguished record of scientific accomplishment in geochemistry over the course of a career:

<https://www.iagc-society.org/Vernadsky-Medal>

The Harmon Distinguished Service Award - bestowed to 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.

<https://www.iagc-society.org/Distinguished-Service>

Jin Jingfu Lecturer – bestowed to an early career geochemist who has contributed a single geochemical research topic through one or a series of publications resulting in a measurable impact in her or his discipline. The lecture is to be presented at an IAGC International Conference.

<https://www.iagc-society.org/Jin-Jingfu-Lecturer>

The Kharaka Award - bestowed 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.

<https://www.iagc-society.org/Distinguished-Service>

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

<https://www.iagc-society.org/Kharaka-Award>

2021 AG Excellence in Review Awards

Since the founding of *Applied Geochemistry* in 1986, many outstanding reviewers have helped shape our Society's journal and our success as a Society. We are indebted to those contributions, and starting last year, we began highlighting the reviewers who deserve extra recognition. The editorial board of *Applied Geochemistry* launched our annual “[Excellence in Review Award](#)” to recognize the dedicated community of expert reviewers inside and out of our organization. Each awardee receives a digital certificate and a complimentary 2-year membership in the IAGC. We offer a big THANK YOU to all of our awardees and congratulations!

[Marc Aertsens](#)

Institute for Environment, Health and Safety,
Belgian Nuclear Research Centre, Belgium

[Maria Isabel Arce](#)

Center for Edaphology and Applied Biology of
Segura, Spanish National Research Council,
Spain

[Marie-Laure Bagard](#)

Department of Earth Science, University of
Cambridge, UK

[Christophe Cloquet](#)

Centre de recherches pétrographiques et
géochimiques (CRPG), French National Centre
for Scientific Research, France

David Ronald Cohen

School of Biological, Earth and Environmental Sciences, University of South New Wales, Australia

Xavier Gaona

Institute for Nuclear Waste Disposal (INE), Karlsruhe Institute of Technology, Germany

Andrew Hursthouse

School of Computing, Engineering and Physical Sciences, Centre for Environmental Research, Institute for Biomedical and Environmental Health Research, University of the West of Scotland, UK

Siliang Li

Institute of Surface-Earth System Science, Tianjin University, China

Haiyan Liu

School of Water Resources and Environmental Engineering, East China University of Technology, China

Jenna Luek

Department of Civil and Environmental Engineering, University of New Hampshire, USA

Juraj Majzlan

Institute of Geosciences, Mineralogy, Friedrich Schiller University Jena, Germany

Shinya Nagasaki

Department of Engineering Physics, McMaster University, Canada

Jean-Philippe Nicot

Jackson School of Geosciences, University of Texas at Austin, USA

Laura Richards

Department of Earth and Environmental Sciences, The University of Manchester, UK

Madeline E. Schreiber

Department of Geosciences, Virginia Polytechnic Institute and State University, USA

David Singer

Department of Geology, Kent State University, USA

Colin Stuart Walker

Nuclear Fuel Cycle Engineering Laboratories, Japan Atomic Energy Agency, Japan

Tao Wen

Department of Earth and Environmental Sciences, Syracuse University Canada, USA

Jun Xiao

Institute of Earth Environment, Chinese Academy of Science, China

Tianfu Xu

College of New Energy and Environment, Jilin University, China

Shouye Yang

School of Ocean and Earth Science, Tongji University, China

LianGe Zheng

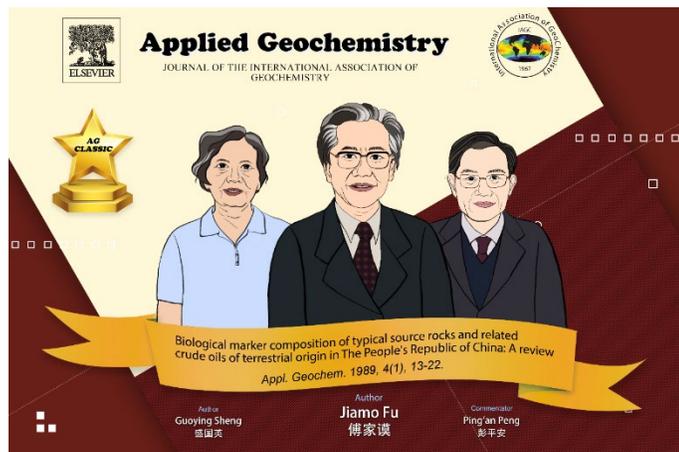
Energy Geosciences Division, Lawrence Berkeley National Lab, USA

AG Classics

The celebration of 35 years is a great moment to reflect on *Applied Geochemistry's* publication milestones, which often shaped their respective research areas. Continuing our "AG Classics," we highlight two additional key publications. We invited authors and a few commentators, who work in the same area and might have been influenced by the paper, to create a virtual panel discussion to present their perspectives on the evolution of the topic and identify the current frontiers, knowledge gaps, and research needs.

We are happy to announce the next two issues here.

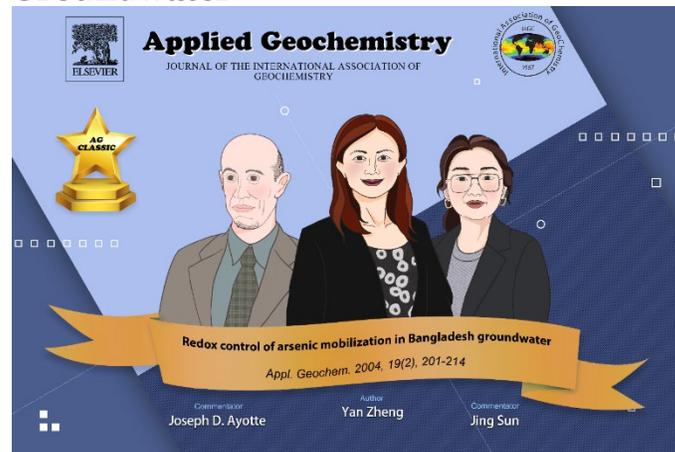
Issue 3. A Milestone Review in 1989: Fu and Sheng, Biomarker of typical source rocks and crude oils in China



In this issue, Sheng Guoying (Professor Emeritus, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences) discusses the important AG paper on biomarkers in source rocks, entitled, [“Biological marker composition of typical source rocks and related crude oils of terrestrial origin in the People’s Republic of China: a review”](#) with commentator Peng Ping’an.

[Read AG Classics on our website](#)

Issue 4. Yan Zheng: Redox control of arsenic mobilization in Bangladesh Groundwater



In this issue, Yan Zheng (School of Environmental Science and Engineering, Southern University of Science and Technology) discusses her seminal work on arsenic in groundwaters in Bangladesh entitled [“Redox control of arsenic mobilization in Bangladesh groundwater”](#) with commentators Joseph Ayotte and Jing Sun

[Read AG Classics on our website](#)

Charitable Giving

Members can make a charitable gift to IAGC to support special initiatives during online membership renewal. Our members are already making donations to support the **new Jin Jingfu Lecture** or an additional **PhD student research grant from a low or middle income country**.

We are also asking our members to sponsor memberships to professional geochemists and students from low- and middle-income countries at a cost of \$15 each. Thanks to our members’ generosity, we have **49 memberships available**. Spread the word about the IAGC to your colleagues around the world!

We would like to formally thank the following members for donations to the above funds so far during 2021:

Alan Fryar
Alida Perez Fodich
Bret Leslie
Bronwen Wang
Carl Palmer
Chamindra Vithana
David Turner
Dirk Kirste
Eric Hall
Jim Finley
Joel Brugger
Michael Kersten
Neus Otero
Nicolas Greggio
Orfan Shouakar-Stash
Patrice de Caritat
Radomir Petrovich
Rich Wanty
Robert Langford
Rona McGill
Russ Harmon
Stuart Simmons
Stuart Winchester
Suzanne Anderson
Teodóra Szócs
Thoti Yellappa
W. Berry Lyons

Donate now through the IAGC web site
(<https://www.iagc-society.org/donate>)

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

Renew Your Membership for 2022!

Don't forget to renew your IAGC membership for 2022 by January so you don't miss any issues of *Elements* magazine! Our annual membership is \$40 for professionals and \$15 for students and geochemists from low- and middle-income countries and includes a hard copy subscription to *Elements* magazine as well as online access. Membership also rewards you with lower cost registration rates at IAGC-sponsored working group conferences. Online access to our journal, *Applied Geochemistry*, is also available.

[View IAGC Profile](#)

Elsevier IAGC Student Research Grant Update

Thank you for spreading the word about our 2022 Student Research Grants – this year we received 82 proposals from PhD students around the world. We plan to fully support five proposals this year, plus an additional one from a low- or middle-income country, thanks to generous support from our members. The announcement of the winners will be on or before 1-May, 2022.

<https://www.iagc-society.org/Student-Research-Grants>

Upcoming Meetings

As is the case with all international meetings during the pandemic, our conferences are in a state of flux. Keep an eye on the websites below and IAGC emails for updated information about GES-12 and the 2nd IAGC International Conference.

GES-12

As we've previously announced, the 12th International Symposium on the Geochemistry of the Earth's Surface (GES-12) was postponed due to the COVID-19 crisis and **rescheduled for 24-29 July 2022:**



ETH zürich

ETH Zurich (Switzerland), 24-29 July 2022
www.ges12.com

GES-12 brings together world-leading scientists in all fields of surface geochemistry and environmental geochemistry. The conference has a strong focus on interactions between the Earth's spheres: the lithosphere, hydrosphere, atmosphere and biosphere, and how these interactions respond to changing environmental and climate conditions. The overarching theme of GES-12 is **Earth system interactions on a changing planet.**

The conference aims to strengthen connections between research disciplines and to establish new networks. It features invited plenary talks covering a wide range of cutting-edge research themes. GES12 presents eight themes at the forefront of research and features a list of excellent speakers from prestigious research institutions such as Caltech, MIT, NASA and Harvard. The extensive poster and networking sessions give ample opportunities to discuss newest research highlights and innovations and to visit the exhibitions.

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



Sendai, Japan
summer, 2023

The 2nd IAGC International Conference was postponed again due to the COVID-19 pandemic and will be held in Japan in 2023, 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.

Watch our website for further details

www.IAGC-Society.org

ISEG 2022 (International Symposium on Environmental Geochemistry)



23-26 August 2022

Moscow, Russia

iseg2022.org

The International Symposium on Environmental Geochemistry (ISEG) is an informal association of world - class experts working in the field of geology, ecology and environmental geochemistry. The Symposium has been held on a regular basis since the late 1980s, once every three years, and has a constant success among geochemists around the world. The Symposium is usually attended by at least 200 well-known scientists and specialists from dozens of countries around the world.

The Moscow Symposium – ISEG’22 promises to become one of the landmark events in the life of the scientific community of Russia and the World. The following topics are expected to be discussed in its program:

- anthropogenic and geogenic chemical elements in the human environment;
- environmental legislation and management issues;
- regional databases of geochemical data in relation to management issues in agriculture and environmental protection;

- geochemical monitoring of production and consumption waste storage and disposal areas;
- methods of regional geochemical mapping – new ideas and approaches,
- as well as a number of other issues relevant to the implementation of strategic plans for the economic development of countries and territories in the aspect of solving urgent problems of environmental protection and public health.

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Dept of Earth and Environmental
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Chris Gardner
School of Earth Sciences
The Ohio State University
USA
Email: BusinessOffice@IAGC-Society.org

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

Olle Selinus
(Environmental Geochemistry Chair)
Linneaus University
SWEDEN

Renew Your IAGC Membership for 2022!

Don't forget to renew your IAGC membership for 2022 before January so you don't miss any issues of *Elements* magazine! Our annual membership fee is \$40 for professionals and \$15 for students and geochemists from low- and middle-income countries and includes a hard copy subscription to *Elements* as well as online access. Membership also rewards you with lower cost registration rates at IAGC-sponsored working group conferences.

Online access to our journal, *Applied Geochemistry*, is available 2022. Our 2021 rates are still available for a few weeks at \$75 for student members and \$100 for professional members. We expect this price to rise after Elsevier updates their costs for 2022. You must pay your IAGC dues in order to purchase *Applied Geochemistry*.

To renew online using a credit card, via check, or to simply check your membership status, follow the link below

[View IAGC Profile](#)