

Newsletter

of the

International Association of GeoChemistry

Number 61, November 2014

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Our Flagship Journal- *Applied Geochemistry*

By Rich Wanty, Ian Cartwright, Michael Kersten,
and Clemens Reimann

Just about every President of every Society has, at one time or another, written an opinion piece about the importance of reviewing in the publication process. But this is a special appeal to our members, from three current officers of the IAGC and our Executive Editor. As we are sure you are all aware, *Applied Geochemistry* is the flagship journal of IAGC and is published by Elsevier. Our relationship with Elsevier gives *Applied Geochemistry* good exposure via online publication alongside related journals. In turn, IAGC agrees to support the Journal by encouraging its members to publish high-quality papers there, and to provide reviews in a timely manner. What you may not know is that Elsevier supports IAGC financially through this contract by means of an annual payment to IAGC, which represents the financial backbone of our Society. IAGC uses that money to support our Working Groups and to fund the Elsevier Student Research Grant Program.

Thus, we as IAGC members should have a keen interest in the success of *Applied Geochemistry*, and should do all that we can to advance its standing among geochemical journals. One of the most important ways we support the Journal

is by providing colleague reviews. While many of us feel a sense of dread when we receive tons of emails asking for reviews of manuscripts from a whole range of journals, we would like to point out the positive aspects of reviewing for *Applied Geochemistry*:

- Reviewing gives us an advance look at new research in the field of applied geochemistry before it is published.
- Having to look critically at the work of others forces us to look critically at our own work, thus improving the quality of both.
- New collaborative opportunities sometimes arise from the review process by establishing new connections within our society.
- The review process is a learning process - both reviewers and authors learn by exchanging ideas and providing feedback.
- Reviewing is our way of recognizing the importance of our journal - by agreeing to provide a colleague review, we ensure and maintain the high standards of our Journal.
- By agreeing to do a review for our journal, we acknowledge our obligation to the scientific association. Each paper that we publish requires two or three reviewers, so it stands to reason that we should do two or three reviews for each AG paper that bears our name.

So the next time you receive an email from *Applied Geochemistry* offering you the opportunity to do a colleague review, please make all possible effort to accept the review, and then, of course, complete it in a timely manner! Though this is a demanding unpaid extra job please remember that when doing a review for our society journal *Applied Geochemistry* you do in fact an in-kind donation to your association! The IAGC lives off the royalties we receive for our Journal. We would need to increase the

membership fees several times over in case we lost these royalties. And then of course, please also submit your excellent papers to our journal!

Association News

IAGC Governance

In the beginning of 2015, 6 council members' terms will end, Ian Cartwright will take over as President, and Rich Wanty will move into the Past-President role. Earlier this year, we solicited nominations and volunteers to fill the newly vacant council Vice President positions. We received a lot of great submissions to be put forward to the Executive Committee, and we will announce their decisions in December.

IAGC Secretary Tom Bullen

In the spring of this year, Tom Bullen retired from the US Geological Survey after an illustrious career spanning a few decades and a number of topics, but focused on applications of metal and metalloid isotopes to address any number of geologic, geochemical, and environmental problems. At the same time, Tom stepped down after serving as IAGC Secretary for almost 6 years. Fortunately for all of us, Tom is not going away entirely- he will continue to serve as IAGC's liaison to *Elements* magazine, and he will continue to be active on the Editorial Board for *Elements*. When he isn't sailing around the waters of California, Tom also plans to stay active in the science world with visits to universities and other institutions around the world, so I hope you will be lucky enough to see him!

In addition to serving as IAGC Secretary, Tom has been very active in our working groups, especially Applied Isotope Geochemistry and Water-Rock Interaction. Tom was the chief Editor for the Proceedings volume for WRI-12 that took place in Kunming, China, in 2007. I can tell you from personal experience that editing the

WRI volume is a lot of work. For all his service to IAGC over the years, I offer my heartfelt thanks to Tom, and ask you to join me in wishing him a long, healthy happy retirement!

-Rich Wanty, IAGC President

New Secretary Orfan Shouakar-Stash



Orfan Shouakar-Stash is a Research Assistant Professor of Isotope Hydro-geochemistry at the University of Waterloo in Waterloo, Canada. He completed his PhD in

2008 at the University of Waterloo and started his carrier in academia shortly after. His research focuses mainly on the development and application of isotopic tools in different settings, especially in organic contaminant studies. Orfan continues to have a strong interest in investigating the newly emerging organic contaminants. He is heavily involved in many national and international collaboration projects with universities, government agencies and industries. Orfan has published over 40 peer-reviewed papers, over 120 abstracts and is a regular invited presenter at conferences. His publications in a wide range of journals are a reflection of his interest in both the development and the application of environmental isotopes in different areas in the Earth and Environmental Sciences.

2015 IAGC Awards Nominations

The IAGC will continue accepting award nominations for 2015 **through December 15**.

For the first time this year, we are very happy to accept nominations for the **Kharaka Award**.

Beginning in 2015, the IAGC Kharaka Award is bestowed annually to deserving scientists (which may include senior graduate students) from **developing countries**. For 2015 we will award up to two Kharaka Awards. The award consists of a framed certificate plus an IAGC membership and Applied Geochemistry subscription for a term of three years, with award recipients profiled in the IAGC Newsletter and on the Association website. This award was made possible by IAGC member Yousif Kharaka and the many generous donations from our IAGC member community. Please send all award nominations to Secretary Orfan Shouakar-Stash at orfan@uwaterloo.ca. The entire list of awards to be bestowed this year include:

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.

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

The 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

Renew Your Membership for 2015!

Don't forget to renew your IAGC membership for 2015 before January so you don't miss any issues of *Elements* magazine! Our annual membership fee is STILL only \$25 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 also available.

[Renew with a credit card](#)

[Renew with a check](#)

[Check your membership status](#)

GSA 2015 Session Proposals

The next Geological Society of America Annual meeting will be in Baltimore, Maryland 1-4 November, 2015. The IAGC routinely sponsors several sessions at GSA, so if you have an idea for a session for next year, please send a proposal/description of the session to the IAGC Business Office Manager (IAGeoChemistry@gmail.com). The IAGC council will then approve that session prior to official IAGC sponsorship.

Membership Demographics

We have 650 dues-paying IAGC members for 2014. Last year at this time, that number was only 360. This large increase in membership is the result of gaining new members from the AIG-10 (138 new members) and WRI-14 (209 members) working group meetings in 2013. The number of continuous annual IAGC members remains just over 300 each year. If you pay IAGC dues at a working group meeting, please consider continuing your membership in odd years, it's only \$25!

Last Minute Call for Elsevier PhD Student Research Grants

Generously supported by Elsevier, the PhD Student Research Grants help support the cost of analytical needs of geochemistry PhD students.

Applications for Student Research Grants for 2014 will be accepted through **1 December 2014**. The recipients of each Student Research Grant will be profiled in *Elements*, on the IAGC website and in the spring edition of the IAGC Newsletter. Recipients will also receive a one-year complimentary IAGC membership. For application instructions and to download the necessary forms, please visit:

www.iagc-society.org/phd_grants.html

Presentation of 2014 Awards

We make every effort to present our awards at international meetings in the year the awards are announced. This year Russell Harmon (Distinguished Service Award) and Jérôme Gaillardet (Fellow) were presented their awards by Steve Banwart at GES-10 in Paris in August:



(from left: Siggie Gislason, Russ Harmon, Steven Banwart, and Jérôme Gaillardet)

Ian Hutcheon was presented his Vernadsky medal by IAGC President Rich Wanty at the GSA Annual Meeting in Vancouver, British Columbia in October:



(Rich Wanty and Ian Hutcheon)

Karen Johannesson also received her IAGC Fellow award at GSA:



(Rich Wanty and Karen Johannesson)

Sophie Opfergelt's 2014 Ebelmen Award will be presented at the 2015 Goldschmidt conference in Prague, Czech Republic.

Charitable Giving

Members can make a charitable gift to 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.

US members who need an additional tax deduction for 2014 should make their contribution prior to 31 December.

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).

News from Michael Kersten, Applied Geochemistry Executive Editor

Some good news about our journal *Applied Geochemistry* is that its Impact Factor (IF) has increased in 2013 (as published by ISI WoS in June 2014) and is now back above 2. The IF had dropped dramatically last year because we had an issue with 100+ extended conference abstracts in 2011 that significantly diluted our IF. This issue was included again in the IF calculation this year, but it will not be included for the 2014 IF, and I would then expect an even larger jump next year. The calculation for the 2013 IF as provided by the publisher is below:

Cites in 2013 to articles published in: 2012 = 454
2011 = 609
Sum: 1063

Number of articles published in: 2012 = 222
2011 = 304
Sum: 526

IF Calculation:

Cites to recent articles 1063 = **2.021**
Number of recent articles 526

The jump in 2014 IF to be expected can be estimated if we deduct the 111 abstracts from the 2011 supplement, as well as the 61 cites. Then the 2013 IF would have looked roughly as follows, which bodes well for 2014:

Cites in 2013 to articles published in: 2012 = 454
2011 = 548
Sum: 1002

Number of articles published in: 2012 = 222
2011 = 193
Sum: 415

IF Calculation:

Cites to recent articles 1002 = **2.414**
Number of recent articles 415

The abstract issue still cost us about 0.4 IF units (and double as much units last year) in an increasingly competitive market of geoscience journals. This does not mean that conference extended abstracts do not get any cites at all, albeit the best we could have realistically hoped for would be that they were citation neutral, i.e. each getting 1 cite. In fact, it was roughly 1 cite per 2 abstracts. My decision about this unfortunate experience is that such abstract supplements are to be avoided in the future. We'll rather continue with our good experience publishing Special Issues based on full papers of selected conference sessions. Therefore, in case you are interested in editing such a Special Issue as outcome of your session, please contact me.

Michael Kersten
Editor-in-Chief
Applied Geochemistry

News from Elsevier

By Paul Cumine

It has been my pleasure to work with Michael Kersten and the Associate Editors of *Applied Geochemistry* for just over a year now, so we thought it timely that I update you on how the journal is performing.

2013 Impact Factor

Released in July the 2013 Impact Factor, calculated on the performance (citations) in 2013 of papers published in 2011 and 2012, increased by 18% to 2.021. This is great news following the decrease seen last year, and means *Applied Geochemistry* is ranked 34 out of 80 in the geochemistry & geophysics category.

Submissions and Editorial Speeds

As of the end of October the journal had received 550 submissions, compared to 480 at the same point last year, an increase of 15%. Looking at the last 12 months (Nov 2013 – Oct 2014) the journal has received 668 submissions, and increase of 13% over the previous 12 months (Nov 2012 – Oct 2013). This increase serves to show that *Applied Geochemistry* is a prime destination for authors.

Of course increased submissions means more work for the Editors, so it is a testament to their hard work that Editorial speeds have actually decreased from 9 weeks to 7 for the first decision, and the overall editorial speed (to final disposition) is now 30 weeks, down from 34 weeks last year. Reducing turnaround times for papers is one of our main aims, and a sure way to make the journal an even more attractive place to submit for authors.

Special Issues

Over the past years *Applied Geochemistry* has published many excellent Special Issues which are very well received and cited. I'd like to take this opportunity to encourage you to contact Michael Kersten or myself if you have any Special Issue proposals you would like us to consider for publication in the journal. You can see a full list of the Special Issues published in the journal [here](#).

Author Workshops

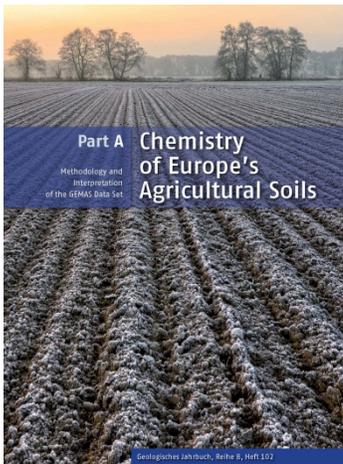
At Goldschmidt 2014 Michael Kersten joined Elsevier and the Editors of *Geochimica et Cosmochimica Acta*, and *Marine Chemistry* to deliver an author workshop, aimed at early career researchers looking for advice and insight on how to get their papers published. This session went down extremely well with delegates, and we will therefore be repeating it at the forthcoming AGU, at lunchtime on Wednesday 17th December. If you are in San Francisco this year please do come along and take advantage of the free advice and resources available, or drop by the Elsevier stand anytime during the conference. We look forward to seeing you!

All the best,
Paul
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p.cumine@elsevier.com

Scientific News

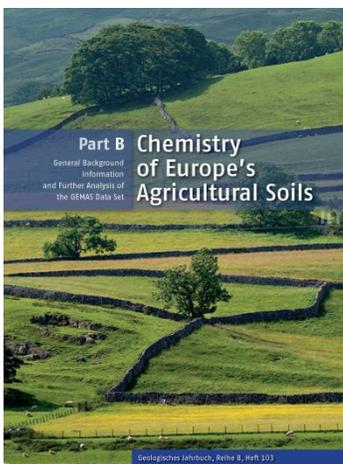
Chemistry of Europe's Agricultural Soils.

By C. Reimann, M. Birke, A. Demetriades, P. Filzmoser and P. O'Connor (Eds.).



Part A: Methodology and Interpretation of the GEMAS data set.

Geologisches Jahrbuch B102. 2014.
Schweizerbart. ISBN 978-3-510-96866-6.
Hardcover 528 pages.
Price 118 Euro.



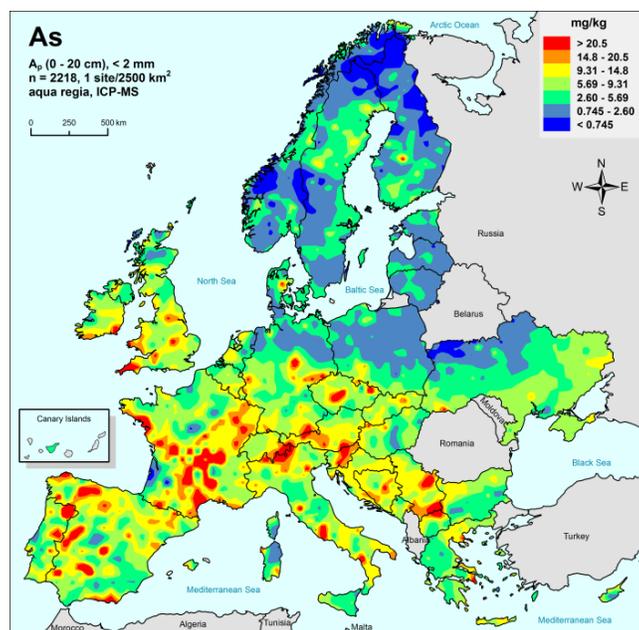
Part B: General Background Information and Further Analysis of the GEMAS Data set.

Geologisches Jahrbuch B103. 2014.
Schweizerbart. ISBN 978-3-510-96847-3.
Hardcover 352 pages.
Price 78 Euro (both volumes together: 150 E)

The GEMAS project (Geochemical Mapping of Agricultural and Grazing Land Soil - <http://gemas.geolba.ac.at/>) collected during 2008 and until early 2009 a total of 2108 samples of agricultural (Ap-horizon, ploughed land, 0–20 cm) and 2023 samples of grazing land (0–10 cm) soil each from 33 European countries, covering an area of 5,600,000 km². The average sample density is 1 site/2500 km² per land cover class. All samples were analysed

for 52 chemical elements after an aqua regia extraction, 41 elements by XRF (total), and soil properties, like CEC, TOC, pH (CaCl₂), following tight external quality control procedures. In addition, the agricultural soil samples (Ap) were analysed for 57 elements in a mobile metal ion (MMI[®]) extraction, Pb isotopes and magnetic susceptibility. The book starts with the impressive list of project participants, the GEMAS Team. More than 60 organisations from around the world have cooperated to make the project possible. Part A provides a short introduction to the project, a description of the analytical methods used and gives an overview of the extensive quality control procedures carried out to guarantee the homogeneity of the project data set. The core of the book is the collection of geochemical maps and description of results, element by element in alphabetical order. It closes with a discussion of the results and the conclusions of the project. A significant source of information is the accompanying DVD that provides access to all maps and graphics, and to the original analytical results in the form of Excel files. Part B of the GEMAS atlas provides a more detailed interpretation of the spatial distribution of selected elements (As, C, Cd, K, Th, U) at the European scale than it was possible to provide in Part A, the geochemical atlas. To highlight the importance of scale it also contains interpretations of the data set at a more local scale (Scandinavia and Ukraine). Possibilities for more-in-depth uses of the data set from assessing the impact of agriculture (carbon stock), through risk assessment to unravelling geological processes (loess distribution) are demonstrated. Several Chapters cover the background information needed for the interpretation of a geochemical atlas (geology, soil formation, distribution of mineral deposits). Finally, data on the regional distribution of some rarely analysed elements (B, Cl, F) at the European scale are presented based on the old FOREGS samples. A discussion of element concentrations, as

measured in a very weak extraction (MMI[®]) helps to understand the geochemical processes governing the distribution of the elements at the European scale, and allows the better detection of the impact of human activities on European agricultural soil. The determination of K_d values for 14 metals is described. Part B also provides Tables summarising European legislation with regard to soil limits, and the statistical key parameters for the GEMAS samples. Chemistry of Europe's Agricultural Soils is crucial reading for soil scientists, geologists and geochemists, environmental scientists, forensic scientists, geographers, land use planners, the European administration, and actually anybody interested in the chemical composition of the soil on which our food is produced.



Map of Arsenic distribution in European soils

2014 Meeting Reports

1st Meeting of the Urban Geochemistry Working Group

The first meeting of the IAGC Urban Geochemistry Working Group was held at The Ohio State University on the 5th and 6th of August, 2014. The meeting was facilitated by W. Berry Lyons (OSU) and David Long (MSU) who are co-chairs of the working group and Chris Gardner (OSU) from the IAGC Business Office.



Urban Geochemistry Working Group Participants

Day one consisted of introductions during which participants used one or two slides summarizing their interests in urban geochemistry, excellent plenary presentations by Joel Moore (Towson U) who presented on quantifying anthropogenic and natural sources of CO₂ in urban areas, Yo Chin (OSU) who discussed the transformation and fate of everyday chemicals in urban watersheds, and Gabe Filippelli (IUPUI) who described his research on geochemistry and urban health. The day then ended with a poster session.

Prior to the meeting, participants were asked to submit questions related to current and future issues confronting Urban Geochemistry. On day two, through a set of breakout sessions, the >100 resulting questions were reduced down to eight key issues to be addressed in urban geochemical research. These include: 1) how global biogeochemical cycles are altered in the urban setting, 2) how the evolution of infrastructure will impact geochemical processes, 3) how urban systems should be measured to



assess deleterious changes, 4) how urban geochemists can affect policy decisions, 5)

how the geochemistry of urban environments affects human and ecosystem health, 6) how episodic perturbations such as natural disasters impact the urban environment, 7) how a legacy of past disturbance affects the current geochemical system, and 8) how the geochemical “footprint” of urban areas can be defined. Teams of participants are now researching these issues, and the results will be combined into a joint paper and submitted to the IAGC’s official journal, *Applied Geochemistry* this fall. A joint research project was also proposed and is being led by Shawn McElmurry (Wayne State) and Gabe Filippelli. The project will examine the hypothesis that residential coal burning has left a mercury legacy in urban environments. Soil samples will be collected by participants this fall from various urban centers in areas of historical coal burning and non-burning. It has been agreed that the next meeting should be next year, and the dates and location are under discussion amongst the group. For more information on the Urban Geochemistry Working Group and next year’s meeting visit: <http://www.IAGC-Society.org/UG.html>.

2015 Meetings

Applied Isotope Geochemistry 11 (AIG-11)

21-25 September, 2015
Orleans, France
<http://aig11.brgm.fr>

The purpose of the AIG-11 international conference is to bring together specialists in the different fields related to applied isotope geochemistry, to present state-of-the-art developments as well as key examples of application, and to promote exchange of ideas between scientists.

AIG-11 conference welcomes contributions on a wide range of the related topics including:

- technological achievements and their applications, isotope techniques in environmental geochemistry
- isotope hydrology as a tool for water supply policy, paleoclimatology and paleoenvironmental changes, recent applications and developments in dendroisotopes
- biogeochemistry and ecological applications, isotopic tools applied to degradation of organic contaminants
- applied gas isotope geochemistry
- isotope geochemistry of sedimentary to high temperature geological processes, ore genesis and hydrocarbon exploration
- non-geoscience applications (e.g. archeometry, forensic studies, food authenticity, medical studies, doping investigations).

6th International Conference on Medical Geology (MEDGEO '15)

26 July - 1 August, 2015

Aveiro University, Aveiro, Portugal.

Abstract submission: 23 July - 15 December, 2014

Early registration deadline: 3 April 2015.

<http://medgeo15.web.ua.pt/>

The MEDGEO 2015 conference bring together researchers and decision makers from the physical sciences and the medical sciences who are interested in solving health problems caused by natural processes and materials. The participants of the conference will convey expertise in a range of scientific fields, such as geochemistry, biology, engineering, geology, hydrology, epidemiology, chemistry, medicine, nutrition and toxicology.

Symposium themes:

1. Environmental contaminants in health and disease
2. Environmental toxicology, pathology and epidemiology
3. Climate change and human health
4. Therapeutic properties of minerals and waters
5. Urban medical geology
6. Modeling, mapping and monitoring of environmental hazards and diseases
7. Advances in analytical methods
8. Environmental risk assessment and remediation technologies

2016 Meetings

Water Rock Interaction 15 (WRI-15)

16-21 October, 2016
Évora, Portugal

Abstract submission: 14 September, 2015 - 29 January, 2016

Early registration deadline: 31 May, 2016.

<http://wri15portugal.org/>

ISEG10 – 10th International Symposium on Environmental Geochemistry

19-21 January, 2016

Perth, Western Australia

Abstracts due: 3 August, 2015

<http://www.iseg10.com>

ISEG10 provides a forum for presenting original and innovative research in the broad area of environmental geochemistry. We encourage scientists, consultants, regulatory authorities and other practitioners (public health / environmental health) with an interest in the links between environment and health to meet, discuss, and share their research and experience. The symposium will promote awareness, enable recognition of the trans-boundary nature of current environmental issues and assist management through the application of appropriate techniques and strategies.

Symposium themes:

1. Environmental Impacts of Small Scale Mining and Industry in the Developing World
2. Geochemistry of Acidic and Alkaline Environments
3. Geochemical Aspects of Climate Change
4. Emerging Contaminants
5. Mercury and the Metalloids in the Environment
6. Urban Geochemistry
7. Water Resources and Aquatic Environments
8. Analytical Environmental Geochemistry

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Renew Your IAGC Membership for 2015!

Don't forget to renew your IAGC membership for 2015 before January so you don't miss any issues of *Elements* magazine! Our annual membership fee is STILL only \$25 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 2015 at \$62 for student members and \$83 for professional members. You must pay your IAGC dues in order to purchase *Applied Geochemistry*.

To renew online using a credit card through PayPal or Square Market, via check, or to simply check your membership status, follow the links below and enter either your membership number or email address:

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11th
**Applied Isotope
Geochemistry
Conference**

AIG-11

**BRGM, Orléans,
FRANCE
September
21st-25th 2015**

First circular
June 2014



Geoscience for a sustainable Earth

brgm

GENERAL INFORMATION

Dear Colleagues,

The 11th international meeting on Applied Isotope Geochemistry will be held, from 21 to 25 September 2015, at the French Geological Survey (BRGM), in Orléans, France.

The purpose of this international conference is to bring together specialists in the different fields related to applied isotope geochemistry, to present state-of-the-art developments as well as key examples of application, and to promote exchange of ideas between scientists. The AIG-11 meeting is held under the stewardship of the International Association of GeoChemistry (IAGC).

The AIG (Applied Isotope Geochemistry) is a working group of the International Association of GeoChemistry (IAGC).

The aim of the 11th Applied Isotope Geochemistry meeting is to provide a forum where a wide range of applications of isotope analyses in geosciences and related fields are presented.

A special focus will be put on water resource, as the downstream Loire River is scheduled to Unesco World Heritage and to the Natura 2000 network.

REGISTRATION

Registration fees will include session attendance, proceedings, lunches, morning and afternoon refreshments, the ice breaker reception, the conference dinner, the mid-conference field trip. More details, including important dates, abstract submission and registration fees will be given in the second circular, in fall 2014.

AIG-11

MARK YOUR CALENDAR

AIG-11 conference welcomes contributions on a wide range of the related topics including:

- technological achievements and their applications, isotope techniques in environmental geochemistry
- isotope hydrology as a tool for water supply policy, paleoclimatology and paleoenvironmental changes, recent applications and developments in dendroisotopes (climate reconstruction, retrospective on pollution, physiology, new isotopes in tree rings)
- biogeochemistry and ecological applications, isotopic tools applied to degradation of organic contaminants (including biodegradation and non-biotic processes, Passive Barriers...)
- applied gas isotope geochemistry
- isotope geochemistry of sedimentary to high temperature geological processes, ore genesis and hydrocarbon exploration
- non-geoscience applications (archeometry, forensic studies, food authenticity, medical studies, doping investigations, etc.)

Oral and poster contributions are welcome. The official language of the conference is English.



BRGM French Geological Survey

BRGM Campus :

- ~ 10 km South of downtown Orléans at the northern edge of the Sologne forest TRAM/buses/highway to downtown Orléans
- Auditorium (200 seats, Wi-Fi)



ORLÉANS

Located 100 km South of Paris :
1 hour by train from downtown Paris
Direct connections from Paris airports to Orléans : TGV connection from Roissy CDG airport and direct motorway and highway from Paris Orly airport.



A daily program is planned for accompanying persons. The mid-conference field trip will include a visit of the Fontainebleau castle. The gala dinner will take place on Thursday, Sept. 24.

During the conference, the famous Festival de Loire, dedicated to the ancient commercial navigation on the Loire River will take place downtown Orléans.



Scientific Committee

Romain Millot

*Chair of the Scientific Committee
BRGM, France*

Ian Cartwright

Monash University, Australia

Jiubin Chen

*Institute of Geochemistry,
Chinese Academy of Sciences, China*

Attila Demény

*Institute for Geological and
Geochemical Research, Hungary*

Olivier Donard

*IPREM, Université de Pau et des pays
de l'Adour, France*

Martin Elsner

*Helmholtz Zentrum München,
Germany*

Jean-Pierre Girard

Total Pau, France

Bernhard Mayer

University of Calgary, Canada

Philippe Négrel

BRGM, France

Neus Otero

University of Barcelona, Spain

Martine Savard

Geological Survey of Canada

Avner Vengosh

Duke University, USA

Nathalie Vigier

*CNRS, Laboratoire d'Océanographie
de Villefranche, France*

Organizing Committee

Christophe Innocent

*Chair of the Organizing Committee
BRGM, France*

Tom Bullen

Isotope Geochemistry Forever, USA

Benoît Gayet

BRGM, France

Nolwenn Hervio

BRGM, France

Wolfram Kloppmann

BRGM, France

Romain Millot

BRGM, France

Philippe Négrel

BRGM, France



AIG-11
CONTACTS
INFORMATIONS

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aig11@brgm.fr

<http://aig11.brgm.fr>

18–22 JANUARY 2016 | PERTH, WESTERN AUSTRALIA



The ISEG symposium series commenced in 1988 and symposia are held every three years. The Environmental Inorganic Geochemistry Group (EIGG) is delighted to host this event in Australia for the first time.

Symposium Objective

The geochemical environment has evolved and is complex. This insight is essential to understanding natural systems and the influence of human activities in order to devise appropriate management strategies. ISEG10 provides a forum for presenting original and innovative research in the broad area of environmental geochemistry. We encourage scientists, consultants, regulatory authorities and other practitioners (public health / environmental health) with an interest in the links between environment and health to meet, discuss, and share their research and experience. The symposium will promote awareness, enable recognition of the trans-boundary nature of current environmental issues and assist management through the application of appropriate techniques and strategies.

Who Should Attend

ISEG10 is relevant to international academics and researchers working in the broad field of environmental geochemistry, but is also of interest to consultants, regulatory authorities and public managers. The Perth symposium aims to bring together geochemists, environmental scientists, biologists, geologists, soil scientists, aquatic scientists and medical specialists.

Symposium participants will share their expertise in a broad array of scientific fields including: geochemistry, biology, chemistry, engineering, epidemiology, geology, hydrology, hydrogeology, medicine and toxicology.



Symposium Chair

Dr Ron Watkins
Associate Professor
EIGG, Department of Applied Geology
Curtin University, Australia

Associate Professor and Director of the Environmental Inorganic Geochemistry Group (EIGG), Ron gained his PhD at the University of London. He subsequently obtained an MSc in Geochemistry at the University of Leeds. He has held research and lecturing positions at the University of London, St Andrews University, the University of Cape Town and Curtin University. He was a co-founder of EIGG in 1998 and has been its Director since 2004. Ron is President of the Asia-Pacific branch of the international Society of Geochemistry and Health (SEGH) and a past Associate Editor of Applied Geochemistry.

Hosted by



CSIRO | The University of Western Australia | Joint Venture

CALL FOR ABSTRACTS! ABSTRACTS DUE 3 AUGUST 2015

Symposium Themes

1. Environmental Impacts of Small Scale Mining and Industry in the Developing World
2. Geochemistry of Acidic and Alkaline Environments
3. Geochemical Aspects of Climate Change
4. Emerging Contaminants
5. Mercury and the Metalloids in the Environment
6. Urban Geochemistry
7. Water Resources and Aquatic Environments
8. Analytical Environmental Geochemistry



FIRST ANNOUNCEMENT

**10th International Symposium on
Environmental Geochemistry**

EXPRESSION OF INTEREST

Attendee Speaker Sponsor/Exhibitor

** denotes mandatory field*

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Please note that this is not a registration for the event.

Please submit your expression of interest to:

Australian Centre for Geomechanics
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About the EIGG

The Environmental Inorganic Geochemistry Group (EIGG) was established in 1998 to achieve excellence in teaching and research in environmental geochemistry. EIGG currently operates laboratories within the Centre for Forensic Science, The University of Western Australia, under the direction of Associate Professor Ron Watkins, and engages in four main areas of research: the mining environment and mine site pollution; urban geochemistry; geochemistry and health (medical geology); and palaeo-environments and climate change. EIGG comprises a group of postgraduate and Honours students, along with supervisory and support staff.

EIGG's mission is to promote environmental geochemistry through novel research, the provision of training and as a source of independent scientific advice to industry and government.

Abstract guidelines

Intending authors are requested to prepare and submit their abstracts before 3 August 2015. Abstracts should be limited to less than 500 words. For more information on abstract submission, please visit www.iseg10.com/authors.



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DESTINATION ÉVORA, PORTUGAL

Évora is the inevitable reference point for anyone coming to Portugal inspired by the theme of Heritage. Classified by UNESCO as A World Heritage Site, Évora justly occupies an important place in any Cultural Tourism itinerary.

Its architectural and artistic heritage is so omnipresent and impressive that this alone guides the steps of anyone who loves strolling around with no fixed direction: from the Roman to the Neoclassical, by way of the Gothic and various expressions of the Manueline, the Renaissance and the Baroque, all the epochs of history are documented with works that fully satisfy the eye and the soul. Referring only to what is essential, you need several hours to visit the Roman Temple, the Cathedral of Santa Maria, the São Francisco Church and the Chapel of Bones, the Palace of King D. Manuel, the São Brás Chapel (St Blaize), the Mirador-Terrace of the Cordovil House, the Manueline Window of the e Garcia da Resende House, the Espírito Santo College, now part of Évora University, the Misericórdia Church, Praça do Giraldo (the main square) and the Garcia de Resende Theatre.

- What is unique about it is that it is an exceptional collection of streets and buildings with a thousand and one details to discover -

As you will quickly understand, Évora is not a museum of disconnected pieces. What is unique about it is that it is an exceptional collection of streets and buildings with a thousand and one details to discover, it is inhabited, it has a living present, where you can feel the pulse of a contemporary city that is culturally active and that naturally integrates and reflects a heritage it has known how to preserve. Stay a few more days, experience all of this and, when your intuition tells you it is time to leave, begin the adventure of discovering the many delights that are beyond its walls and contribute so much to making sense of it: other cities, towns and villages, so many other places of distinction.

(...) 'none of our cities, apart from Évora, was able to say to me, with purity and beauty, "I am Latin", "I am Arab", "I am Christian", "I am Iberian", "I am Portuguese" (...)'

- Miguel Torga, 1942, Diary II.



**15 WATER ROCK
INTERACTION
2016**

FIRST ANNOUNCEMENT

**ÉVORA – PORTUGAL
16 TO 21 OCTOBER 2016**

DEAR COLLEAGUES



It is with great pleasure that, in my role as Chair of the Local Organising Committee, I announce that the Water-Rock Interaction General Assembly has chosen Portugal to host the WRI-15 in Évora in 2016.

The proposed destination and the facilities currently available and those to be developed prior to the starting date of WRI-15 will provide one of the richest environments that Water-Rock Interaction Scientific Community will ever have experienced – people-friendly “water and rock places” that the WRI-15 participants and their guests will never forget.

The focus on new developments and new perspectives on this R&D field, as well as the invitation of the major scientific experts as keynotes will be the main highlights of this event.

The Event will be held in Évora, a UNESCO World Heritage City in Southern Portugal.

The opportunity to host this prestigious Symposium will be our very great honour. We look forward to welcoming the “Water-Rock Interaction World” to Évora in 2016.

Sincerely yours,

Lisbon, September 2014

José Manuel Marques

José Manuel Marques
Chair of the Local Organising Committee.



SCOPE AND TOPICS

The WRI-15 Symposia will represent an exceptional opportunity to update knowledge about each WRI core research activity, with Earth Scientists from National and International Institutions who have already been involved in R&D Projects focused on related WRI research.

The three Main Scientific Topics of the Symposium will be:

- A. Essentials of water-rock interaction**
- B. Particular environments**
- C. Case studies and applications**

KEY DATES

Abstract Submission Open:	14 September 2015
Abstract Submission Closes:	29 January 2016
Abstract Revision:	30 January 2016 until 31 March 2016
Abstract Author's Notification:	1 April 2016 until 8 April 2016
Early Registration Deadline:	31 May 2016
Regular Registration Deadline:	11 October 2016

LOCAL ORGANISING COMMITTEE

José Manuel Marques – Chair of WRI-15,
Instituto Superior Técnico, University of Lisbon

Alcino José Oliveira – University of
Trás-os-Montes e Alto Douro

Amélia Dionísio - Instituto Superior Técnico,
University of Lisbon

António Chambel - University of Évora

Carlos A. M. Figueiredo - Instituto Superior
Técnico, University of Lisbon

Eduardo Anselmo Ferreira da Silva
- University of Aveiro

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Jorge Espinha Marques – University of Porto

Jorge Miguel Miranda – University of Lisbon

José Manuel Azevedo – University of Coimbra

José Mirão – University of Évora

José Paulo Patrício Galdes Monteiro
- University of Algarve

Manuel Francisco Costa Pereira
- Instituto Superior Técnico, University of Lisbon

Paula Maria Mimo Carreira - Instituto Superior
Técnico/ Campus Tecnológico e Nuclear,
University of Lisbon

Linda Pereira – Executive Director of WRI-15

GENERAL INFORMATION

Further information will be available on the website: <http://www.wri15portugal.org/>

CONFERENCE SECRETARIAT

CPL Meetings & Events

Address: Rua das Calçadas, Vivenda Pereira, 1º Andar, 2755-277 Cascais, PORTUGAL

Tel: +351 21 400 35 40 · Fax: +351 21 406 08 29

Email: secretariat@wri15portugal.org

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