



6th International Congress Arsenic in the Environment (As2016)



Arsenic Research and Global Sustainability

KTH Royal Institute of Technology
Stockholm, Sweden

June 19-23, 2016

Second Circular



Welcome to As2016

Long-term exposure to low-to-medium levels of arsenic via contaminated food and drinking water can have a serious impact on human health. Globally, more than 100 million people are at risk. Initiated to address this major health issue, the International Congress on Arsenic in the Environment has been held five times: Mexico 2006, Spain 2008, Taiwan 2010 Australia, 2012 and Argentina 2014.

Since the end of the 20th century, arsenic in drinking water (mainly groundwater) has emerged as a global health concern. In the past decade, the presence of arsenic in plant foods – especially rice – has gained increasing attention. Furthermore, in the Nordic countries in particular, the use of water-soluble inorganic arsenic chemicals (e.g. chromated copper arsenate, CCA) as wood preservatives, in glass manufacturing and the mining of sulfidic ores have been flagged as health concerns. The issue has been accentuated by discoveries of naturally occurring arsenic in groundwater, primarily private wells, in parts of the Fennoscandian Shield and in sedimentary formations, with potentially detrimental effects on public health. Sweden has been at the forefront of research on the health effects of arsenic, technologies for arsenic removal, and sustainable mitigation measures for developing countries.

With a global perspective, the 6th International Congress on Arsenic in the Environment will take place in the city of Stockholm, Sweden, from 19 to 23 June 2016. Known as As2016, the conference will be themed Arsenic Research and Global Sustainability, and is endorsed by the Executive Board of the International Society of Groundwater for Sustainable Development (ISGSD).

Prosun Bhattacharya and Jochen Bundschuh
International Organizers

Congress Series: Arsenic in the Environment



Conference venue: Aula Magna

Aula Magna, the venue chosen for As2016, is located at the center of Stockholm University's campus at Frescati adjacent to the KTH Royal Institute of Technology's Vallhallavägen Campus. Fringed by the Lill-Jansskogen forest, Aula Magna was designed by architect Ralph Erskine and inaugurated in 1997. This spectacular hall lets

the special Scandinavian light reflect off its light wooden surfaces, creating a bright and spacious atmosphere. With a complete seating capacity of 1100, Aula Magna is the venue for As2016's opening, closing, and plenary sessions. In addition, there are rooms for two parallel sessions (more than 250 persons each), two rooms for other side events including the ISGSD Business Meeting, and an open lobby for registration, poster sessions and coffee breaks. The rooms for the presentations will be equipped with audio-visual facilities, including free Wi-Fi connection. The campus is surrounded by a number of hotels and hostels, mostly within the downtown Stockholm area.



The Auditorium, Aula Magna, Stockholm University
<http://www.su.se/om-oss/universitetsomr%C3%A5de/konferenslokaler/aula-magna/lokaler/aula-magnas-h%C3%B6rsal-1.8266>

Organizing Committee

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KTH Royal Institute of Technology, Stockholm, Sweden

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Karolinska Institutet, Stockholm, Sweden

Jerker Jarsjö (Co-Chair)

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International Organizing Committee

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Central Ground Water Board, New Delhi, India

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KTH Royal Institute of Technology, Stockholm, Sweden

Doris van Halem

Delft Univ. of Technology, Delft, The Netherlands

Yong-Guan Zhu

Chinese Academy of Sciences, Beijing, P.R. China

Technical Programme

The Technical Programme runs from Monday 20th June to Thursday 23rd June, with an excursion day on Wednesday 22 June. Each morning and afternoon, a 30-minute plenary session is planned. The regular Technical Programme will take place in parallel sessions. Other activities, such as round tables, workshops, a student programme, short courses and special sessions will also be scheduled. Should you wish to propose such an activity, please refer to the Congress Website, where a full list of topics and guidelines, the submission process and other relevant information will be available from April 2015. The call for abstracts will open on 1 October 2015.

Congress Topics

The Congress will address the broader context of arsenic research along the following themes (but not only be restricted) to the following themes:

Theme 1: Arsenic in environmental matrices and interactions (Air, water, soil and biological matrices)

- Origin, distribution of arsenic in groundwater, transport and fate in aquifers
- Biogeochemical processes and speciation
- Arsenic speciation and mobility from mine waste and tailings
- Arsenic in contaminated soils and sediments
- Climate change impacts and coupling with mobility of arsenic in water and soil environments
- Arsenic and other trace elements in Swedish /Fennoscandinavian groundwaters
- Arsenic in airborne particulates from natural and anthropogenic sources
- Analytical advancements and challenges in measuring and monitoring of arsenic in solid and aqueous media
- Synchrotron applications and innovative research on arsenic in natural systems
- Bio-sensors in monitoring applications

Theme 2: Arsenic in food chain

- Transfer from environmental matrices (water, air, soil)
- Bioavailability
- Arsenic in Rice
- Marine species
- Speciation and toxicity of arsenic in food chain
- Arsenic in processed food and beverages
- Analytical challenges

Theme 3: Arsenic and health

- Epidemiology
- Indicators of exposure – Biomarkers
- Arsenic and genomic studies
- Risk assessment of chronic ingestion
- Multi metal synergies in chronic exposure cases

Theme 4: Clean Water Technology for Control of Arsenic

- Technologies based on adsorption and co-precipitation
- Ion exchange and membrane technologies
- Nanotechnology applications in arsenic treatment
- Innovative technologies and advancements.

Theme 5: Societal issues, Policy Studies, Mitigation and Management

- Societal implications of long term exposure
- Policy implications
- Risk assessments and remediation of contaminated land and water environments – Case studies
- Mitigation and Management
- Drinking Water Compliance with Water Safety Plan
- Arsenic in drinking water and the post 2015 Sustainable Development Goals

Invitation for Abstract Submission

You are invited to submit extended abstracts on our online abstract submission system through our homepage www.As2016.se. All presentations to be made during the As2016, including the plenary talks, keynote and other presentations, as well as posters will be included in the Proceedings Volume “Arsenic Research and Global Sustainability” published by the CRC Press. The templates for

abstracts (both extended and the short abstracts) are provided in the links on our homepages. Please note that the length of the extended abstracts must be of two pages including the acknowledgements and the references. The abstract box of the template should form the text of the Short Abstract.

Only one abstract will be accepted per registered participant as first author. However, we encourage multi-author submissions and at least one person must be registered per submission to the Congress prior to the deadline for Regular Registration. All abstracts will be peer-reviewed by the International Scientific Committee.

About Stockholm

Stockholm is the capital city of Sweden and also the largest city in the country. It is home to the national Swedish government and the parliament. Stockholm is also the official residence of the Swedish monarch.

The city of Stockholm has a long, rich history. It has been an economic and political centre of Sweden since the 13th century. The city, with a population of almost 2 million, is located on several islands on the east coast of the country at the mouth of Lake Mälaren.

If you want to know more about this ancient European city, you will find a wealth of museums and other institutions that will explain anything you'd like to know about Stockholm's and Sweden's history. You can also explore the city's great architecture and other historic buildings just by taking a walk. And don't forget current events—you can take a peek at the Royal Palace and wander past the current residence of the royal family.

There are also a number of beautiful parks in Stockholm where you can spend a lazy afternoon with a picnic lunch. If you are not in a hurry, this is the best way to experience the true essence of this old city.



The Stockholm City Hall
<http://www.travelguide.tv/stockholm>

If you want a good meal for a great price, hundreds of cafes all over the city will let you enjoy a slow meal with friendly staff in a great atmosphere. And if you want to spend a bit more money, there are numerous fine-dining options to choose from.

Accommodation in Stockholm is second to none for travellers. There are four- and five-star hotels right in the

heart of the city, putting all the of the shopping and tourist attractions right at your door. Alternatively, you can easily find a great little inn where you can soak up Stockholm's unique culture and friendly character.

Tentative Program

Sunday, 19 June 2016

16:00-19:00 Registration and Welcome
 18:00-21:00 Cocktail and mingling

Monday, 20 June 2016

08:00-9:30 Registration
 09:30-10:00 Opening Session
 10:00-10:30 **First Plenary Session (D. Postma)**
 10:30-11:00 Coffee break
 11:00-12:30 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (90 min)
 12:30-13:30 Lunch
 13.30-14:00 **Second Plenary Session (Y.G. Zhu)**
 14:00-15:00 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (60 min)
 15:00-15:30 Coffee break
 15:30-17:00 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (90 min)
 17:30-18:30 Poster Session (Lobby) (60 min)

Tuesday, 21 June 2016

08:00-10:00 Parallel Technical Sessions (invited and oral presentations at Rooms A and B) (120 min)
 10:00-10:30 **Third Plenary Session (A. Meharg)**
 10:30-11:00 Coffee break
 10:30-12:30 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (120 min)
 12:30-13:30 Lunch
 13.30-14:00 **Fourth Plenary Session (K. Broberg)**
 14.00-15:00 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (60 min)
 15:00-15:30 Coffee break
 15:30-17:00 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (90 min)
 17:00-18:00 Poster Session (Lobby)
 18:30 onwards Conference Dinner (Mingling and Drinks followed by Dinner)

Wednesday, 22 June 2016

Excursion day (To be announced)

Thursday, 23 June 2016

08:00-10:00 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (120 min)
 10:00-10:30 **Fifth Plenary Session (R.P. Johnston)**
 10:30-11:00 Coffee break
 10:30-12:30 Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (120 min)

12:30-13:30	Lunch
13:30-14:00	Sixth Plenary Session (Ana Navas-Acien)
14.00-15:00	Parallel Technical Sessions (invited and oral presentations in Rooms A and B) (60 min)
15:00-15:30	Coffee break
15:30-16:30	Parallel Technical Sessions (invited and oral presentations in Rooms A and B)
16:30-17:00	Closing Session

Other Activities (Round Tables, Workshops or Special Sessions)

The tentative Round Tables, Workshops, or Special Sessions will run parallel to the ordinary technical sessions:

- Arsenic and associated trace-elements in relation with Tertiary and Quaternary volcanism in the European Union
- Arsenic, mining and rehabilitation
- Sustainable Arsenic Mitigation: Concept and policies for implementation in South and South east Asia
- Innovative technologies for drinking water treatment –Swedish and European Water Industries
- Socio-economic impact of As (interface of scientific and technological knowledge with society)
- ISGSD Business Meeting (it must be agreed between the Organizing Committee)
- IMGA workshops

Preliminary Course(s)

This option may take place on Sunday 19 June, 2016 pending participant interest and will be selected from special topics related to As2016 themes.

Congress Website

For more information about the event, regular updates and new information on As2016, please visit our website: www.as2016.se.

Important Timelines: As2016

Abstract Submission deadline	30 October 2015
Applications for travel support*	15 November 2015
Notification of Abstract reviews	15 December 2015
Submission of Revised Abstracts	15 January 2016
Early-bird Registration	31 January 2016
Regular Registration (Please observe: Registration to the Congress is mandatory for the publication of the Abstract in As2016 Proceedings Volume)	1 February 2016
Booking Accommodation (Please observe: Stockholm is a very attractive venue of many concurrent conferences, and a good time planning is encouraged)	15 March, 2015
Letter of Invitation for Visa and External Support for Attending the Congress	1 March 2016
Online Registration Start (Payment by credit Cards only)	15 October 2015

*Please note: Application for travel support can only be made after the submission of the abstracts.

Registration

Online Registration starts	15 October 2015
Early-bird Registration *	Until 31 January 2016
Early-bird (ISGSD Members)	5750 SEK
Early-bird (Non-ISGSD members)	6000 SEK
Members /non-Members(DAC)	4500 SEK
Student	3300 SEK
Regular Registration*	From 1 February 2016
Regular (ISGSD Members)	6000 SEK
Regular (Non ISGSD members)	6250 SEK
Members /non-Members(DAC)	4750 SEK
Student	3500 SEK
Conference Dinner at the Stockholm City Hall	850 SEK
Field Excursion	750 SEK
On-site Registration **	19-23 June 2016

*Please note that 15% of the Congress Registration is debited to ISGSD account as your membership dues for the years 2016-2018.

** The onsite Registration will include additional administration charges of 500 SEK on regular registration in all categories. We strongly encourage our delegates to register online before the conference.

For more information about the event, regular updates and new information on As2016, please visit our website: www.as2016.se.

Contacts

For suggestions and questions about As2016 in general, the Technical Programme or proposal for workshops, please do not hesitate to contact us.

Prof. Prosun Bhattacharya

KTH-International Groundwater Arsenic Group
Department of Sustainable Development, Environmental Science and Engineering (SEED)
School of Architecture and Built Environment
KTH Royal Institute of Technology
Teknikringen 76
SE-100 44 Stockholm, Sweden

Phone: +46 8 790 73 99 (Office) +46 70 6974241 (Mobile)

E-mail: prosun@kth.se

For information about registration, accommodation, payments etc. please contact the Congress Bureau.



Meetagain Konferens AB

Råsundavägen 13

SE-169 67 Solna, Sweden

Phone: +46 8 664 58 00

E-mail: as2016@meetagain.se

Congress coordinator: Mrs. Nora Noll