

The Newsletter of the International Association of Sedimentologists

Issue 11, 2019



Dear IAS Members,

As the call for session proposals for the Prague 2020 IMS comes to a close we look forward to seeing the finalised list of sessions and the opening of abstract submissions. Don't forget that as an IAS member you will benefit from a significant discount on the meeting registration fee!

Speaking of membership, as the festive season rushes towards us it can be easy to forget to renew our annual memberships. Why not take a few minutes now to get you fees all paid up?

As always, please feel free to distribute this newsletter amongst those of your colleagues who have yet to realise the fabulous benefits of membership of the IAS!

On behalf of the IAS Bureau,
Stephen Lokier
General Secretary

Update on the 35th IMS – Prague 2020



The 35th IMS will be held in Prague, Czech Republic between the 23rd and 25th of June 2020. The call for session proposals has now closed and the final selections are now taking place.

The list of sessions, registration details and abstract submission guidelines will be available on the 10th of December with the release of the second circular for the meeting which will be available from the [meeting web site here](#). You can also follow the meeting on Twitter @IASPrague2020.

Don't miss out on the extra savings to be made during early-bird registration. Of course, all IAS members will also benefit from a discounted registration fee (saving up to €100 on the full price!) and IAS student members can also apply for an IAS travel grant.

See you in Prague!

Follow the journals of the IAS on Twitter

All of the journals of the IAS are now live and active on Twitter.

Stay up to date on the latest @sedimentology advances by following IAS journals:
@JSedimentology, @DepositRecord, @BasinResearch.



The Depositional Record
@DepositRecord



Sedimentology
@JSedimentology



Basin Research
@BasinResearch

IAS-Sponsored Sessions at the 2020 EGU General Assembly

We are delighted to announce that the IAS is sponsoring 8 sessions at next year's EGU General Assembly to be held at Vienna, Austria between the 3rd and 8th May 2020. The IAS sponsored sessions are:



- Limnogeology - reading the geological record of lakes
- Carbonates!
- Extra-terrestrial sedimentology, stratigraphy and terrestrial analogues
- Mineral archives – insights on mineral formation in modern and ancient marine, terrestrial, and man-made systems
- Flow and bedform dynamics: current understanding of a complex interplay
- Signal Propagation in Sediment Routing Systems: a general session for structuring the future of European Source-to-Sink research and training
- From the Source to the Sea – River-Sea Systems under Global Change
- Glacial Overdeepenings: Preserving the sedimentary record through ice ages

Abstract submission is now open until the 15th January 2020, please consider submitting to one of the IAS sponsored sessions or one of the many other exciting sessions in the Stratigraphy, Sedimentology and Palaeontology (SSP) Division.

IAS student members are eligible to apply for an IAS Student Travel Grant to the meeting using the link on their profile page of the IAS web site.

Membership renewal for 2020 – Don't miss out on all the IAS has to offer!

STUDENT	FULL
10€	25€
INCLUDED	INCLUDED
1 Year IAS Membership	1 Year IAS Membership
Online Sedimentology, Basin Research, SP's older than 5 years	Online Sedimentology, Basin Research, SP's older than 5 years
Travel Grants, Postgraduate Grants	Post-doctoral Grants, Institutional Grants
Reduction for IAS Conferences, Printed SP's	Reduction for IAS Conferences, Printed SP's
Members Directory, Additional Content, Newsletter	Members Directory, Additional Content, Newsletter
OPTIONAL	OPTIONAL
Printed Sedimentology +10€	Multiple years at reduced fee
Online Petroleum Geology +45€	Printed Sedimentology +10€
Online + Printed Petroleum Geology +50€	Online Petroleum Geology +45€
Friendship Scheme Sponsor +15€	Online + Printed Petroleum Geology +50€
	Friendship Scheme Sponsor +15€
Read more	Read more

2019 has seen a record-breaking number of members of the IAS.

IAS memberships run on an annual basis (1st January – 31st December) so, we would like to take this opportunity to invite you to renew your membership for 2020.

You can find a complete list of the benefits of membership of the IAS [website](#).

You may also consider becoming a full member for 5 years at a cost of only €100 – effectively getting one year's membership for free.

We realise that this 'reminder' may seem a little early, but early renewal is particularly essential for those members who have elected to continue to receive printed copies of our journals. Print numbers for

each issue are carefully monitored in order to keep printing charges for the society to a minimum and keep our environmental impact as low as possible. If you do not wish to receive a printed copy of our journals then please choose this option under the Membership section of My Profile on the IAS web site – all money saved on printing is, of course, ploughed back into the activities of the IAS.

Calling all PhD Students! Only a few weeks left to apply for the 8th IAS International Summer School of Sedimentology

The 8th IAS International Summer School will be held in Eleuthera in the Bahamas between the 23rd and 30th May 2020.

The IAS International Summer Schools of Sedimentology have been running for the past 15 years with the aim of providing a small group of post-graduate students with an opportunity to interact with invited lecturers to focus on new and exciting topics in sedimentology presented as a series of lectures combined with field observations.

The biannual IAS Summer School is held in an area of recognised sedimentological significance and is strictly for IAS Student Members Only.

IAS Student travel grants are available to help cover the unbelievable low field school costs!

Spaces are extremely limited, apply today via your membership profile page.



Getting the most out of your New IAS Web Site

Many members of the IAS use the IAS web site as a means of contacting other sedimentologists.



Please take a few minutes to review your profile and make certain that your contact details are up to date.

Personal Details



Manage contact info, profile picture, research details

Simply sign in on the IAS website and then click on **MY PROFILE** to go to your membership profile. Then click on **PERSONAL DETAILS**. Whilst you are there, please do consider adding a picture to your profile.

The IAS is now on LinkedIn!

You can now follow the IAS on LinkedIn. Visit us at:
<https://www.linkedin.com/company/26494380/admin/>



Get to know the IAS

Early Career Scientists Committee Member – Huan Cui

Hello, my name is Huan Cui. I am a postdoc working at the Analytical, Environmental, and Geochemistry research group, Vrije Universiteit Brussel, Belgium. I am also an active member of the ET-HOME (Evolution and Tracers of the Habitability of Mars and Earth) astrobiology research consortium in Belgium. As a field-based geologist, I conduct multi-disciplinary research that integrates sedimentology, stratigraphy, geochemistry, and palaeontology to investigate the co-evolution of environments and life in Earth history. All my projects are hypothesis-driven, and typically start with detailed field investigations. My past and ongoing research projects include:

- Reconstructing the environmental context of early animal evolution
- Evaluating the role of methane in the largest carbon isotope negative excursion in Earth history
- Searching for the Great Oxidation Event in North America
- Testing the biogenicity of the Neoproterozoic super heavy pyrite
- Studying the late Ediacaran sedimentology and chemostratigraphy
- Testing the origins of ancient biogeochemical anomalies by SIMS



Fundamental in all these projects is the emphasis of first-hand field-based results and a hypothesis-driven approach. The multidisciplinary nature of my research requires a holistic understanding of the Earth-life system at both micro- and macro-scales in deep time.

It is a great honour for me to have the opportunity to serve on the IAS Early Career Scientists Committee. Please feel free to contact me at huan.cui@vub.be or geohcui@gmail.com if you have any questions. You are also most welcome to visit my homepage <https://sites.google.com/view/huancui> for more information on my research.

Huan Cui

Get to know the IAS

Member of Bureau – Joanna Pszonka

At school I was very interested in literature and history, especially the Middle Ages and Polish positivism... so when I went to study, I chose Management and Marketing as well as Geology at the Jagiellonian University in Krakow. During many student field trips in the nearby Carpathians and the Sierra Nevada in Spain (during my time as an Erasmus student at Granada University), I found out that sedimentology is really super. Following graduation, I started a job at the Polish Academy of Sciences and, a little later, a PhD project at the AGH in Krakow.

After my PhD defence, I obtained a DAAD – Deutscher Akademischer Austauschdienst scholarship



and thereby had the possibility to work as a postdoctoral researcher at the Bergakademie in Freiberg/Germany (where I was fascinated with German positivist painters).

Summa summarum: currently, I am an Assistant Professor at the Mineral and Energy Economy Research Institute of the Polish Academy of Sciences and my research focuses on deep marine systems, basin analysis and sedimentary petrology in mineral resources mainly from the Polish and Slovak Flysch Carpathians. In 2016, I joined the IAS Early Career Scientists Committee and since May 2019 I have



been elected an interim Vice President of the International Association of Sedimentologists where I maintain and coordinate social media – an activity that helps me to be very up to date with events, novelties and developments in sedimentology.

The Dukla Tectonic Unit, Outer Carpathians, September 2018.

IAS Special Lecture Tour report - Adrian Immenhauser visits Toulouse

In the frame of the IAS lecture tour, the Sedimentology Group at Geoscience Environnements Toulouse welcomed Adrian Immenhauser on October 9th, 2019. It was naturally a very crowded day with many discussions, but hopefully also some more relaxed moments for Adrian.

We were very happy that Adrian agreed to give two presentations on the same day, and we reckon that French vin and food may have helped us to convince him to take up this task. The first presentation by Adrian, entitled *Quantitative Carbonate Diagenesis: Natural laboratories versus experimental work*, was given in the early afternoon in front of the researchers of Geoscience Environment Toulouse working in different fields of sedimentology, palaeoenvironments, surface geology, and isotope and experimental geochemistry. The presentation was followed by a lively discussion.



The second presentation was given in one of the lecture halls on the campus of Paul Sabatier University. For this occasion, we asked Adrian to give a talk for our Bachelor and Master students on *Aptian oceanic anoxia - The shallow marine perspective*. The worry of the organisers to find themselves with Adrian in an empty lecture hall was completely unnecessary. Almost 90 students attend the lecture and even the fact that Adrian speaks French very well, did not discourage our students to ask all questions in English. And as Adrian confirmed these questions, even from our 2nd year BSC students were of high quality and tackled the important issues. We hope that now many of these young scientists will eventually become member of IAS.

After so much work during the day, the evening was spent in a nice French-styled brasserie, which is well-known to the former bureau of IAS.

In summary, the visit of the IAS lecture tour was a great success and we hope that we will be able to welcome other sedimentologists in Toulouse!

Markus Aretz, on behalf of the hosts

IAS Sponsored Meeting report

IAS sponsored Summer School on Speleothem Science (S4) 2019 recently held in Cluj-Napoca, Romania, August 11th – 17th 2019

The fourth iteration of the Summer School on Speleothem Science (S4) was recently held at Babeş-Bolyai University, Cluj-Napoca, Romania. S4 is a biennial student-led training school focusing on the rapidly growing field of speleothem science (the science of secondary cave mineral deposits and their role in reconstructing past climate, environmental and archaeological changes). The school was attended by 63 participants from 24 different countries and included lectures, workshops and field classes delivered by 19 world-leading experts.

Despite the rather warm conditions over the first couple of days, we were delighted with the very high quality of lectures and workshops throughout the week. These covered a wide range of topics from fundamental aspects of speleothem science (e.g. speleothem formation, petrography, dating, stable isotopes, and trace element geochemistry), to more novel techniques and approaches (e.g. clumped-isotope analysis and integrating speleothem records with climate models).



Group photo inside the Scărișoara Ice Cave.
Credit: Christian Ciubotarescu

Amongst the many highlights from these sessions were a glimpse into the future of characterising cave system hydrology using advanced geophysical imaging methods, an inside look at some of the most exciting speleothem science fieldwork happening in Northeast Greenland, and a taste of new speleothem drip-rate proxies being developed based on the dissociation kinetics of trace metal-organic ligand complexes.

This year, the schedule also included a career development panel discussion where participants were able to put forward questions to experts from a range of different backgrounds and at different career stages, as well as an interactive workshop focussing on novel ways of dealing with uncertainties in time series analysis, and hands-on workshops introducing participants to a selection of software packages relevant to the field, including COPRA (depth-age modelling software), PHREEQC (aqueous geochemical modelling) and CaveCalc (speleothem proxy modelling). Participants also had an opportunity to present their own research during poster sessions and gain valuable feedback from the invited experts and their peers. The halls of the university were abuzz during these sessions and it was great to see such a vibrant and constructive exchange of ideas taking place.

Following a full schedule of lectures, workshops, and poster sessions, the S4 contingent set off for a two-day field trip to the spectacular Apuseni Mountains, Transylvania. Here we visited three caves, including Meziad Cave, whose enormous chambers and natural morphology was a source of inspiration to early



20th century architects in Vienna and Oradea (Romania), Urşilor (Bears) Cave featuring a huge number of pristine stalagmites and bones belonging to *Ursus spelaeus* (an extinct species of Pleistocene bear), and the spectacular Scărişoara Ice Cave, which hosts one of the largest known cave glaciers in the world. This 15 m deep ice mass has yielded a palaeoclimate record based on oxygen isotopes and other ice properties spanning the past 10,000 years.

Group photo in the halls of Babeş-Bolyai University.
Photo credit: Julio Cauhy Rodrigues

The week was capped off with a fantastic closing dinner at Hotel Perla

Apusenilor (Albac) atop a steep mountain trail on the edge of the beautiful Transylvanian forest. This included a traditional Romanian dinner, folk music and a bonfire. It was a great way to bring a close to the fourth Summer School on Speleothem Science!

The organising committee would like to thank all those who helped make S4 2019 possible. In particular, we would like to thank the invited presenters for volunteering their time and energy to provide a fantastic learning opportunity, as well as IAS (for generously supporting 13 students with travel awards), PAGES, and EGU for their generous financial assistance.

More information is available at www.speleothemschool.com

Timothy Pollard, Brittany Ward, Ellen Corrick, and Oana-Alexandra Dumitru
S4 Organising Committee members

IAS National Correspondents

IAS [National Correspondents](#) regularly post news on all things sedimentological via the IAS web site. Check out the [News Feed](#) to see what is happening in your local community. At this link you will also be able to select your correspondent and even elect to receive information from multiple correspondents.

IAS [National Correspondents](#) are IAS Members who have volunteered to act as a representative between sedimentologists in their host country and the IAS. If you know of any sedimentology events going on in your country, then please get in touch with your National Correspondent and let them know. Similarly, if your country lacks a National Correspondent ([see the map here](#)) and you would like to propose an IAS Member (Full or Student), or yourself, for this position then please send an email to the [General Secretary](#).

 <p>ITALY IV edition of Geological Meeting (28 Nov 2019) Posted 19 October 2019 READ MORE</p>	 <p>BOTSWANA CONNECT4 Water Resilience: The First Large Scale Investigation of Dam Sediments in Southern Africa. Posted 14 October 2019 READ MORE</p>
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Grant Reports are available on the IAS web site

The IAS supports postgraduate and post-doctoral scientists via our grant schemes.

This month we have new reports from Marcus Soares and Rebecca Stewart.

 <p>POSTGRADUATE REPORT Marcus Soares — Spatial and Temporal Organisation of Palaeosols and Deposits in Ancient Distributive Fluvial Systems (Esplugafreda Formation, Spain) Posted 18 November 2019 READ REPORT</p>	 <p>POSTGRADUATE REPORT Rebecca Stewart — A high-resolution assessment of debris supply and transport dynamics in a deglaciating alpine catchment Posted 18 November 2019 READ REPORT</p>
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You can read all present and past Grant Reports from IAS members who have benefited from [Post-Doctoral](#) or [Post-Graduate](#) grants [here](#).

Deadline 31st March 2020 - applications for IAS Post-Doctoral Research Grants (Autumn 2019 Session)

[IAS Post-Doctoral Research Grants](#) are intended as a seed to assist Early-Career post-doctoral researchers in either establishing a proof of concept, in order to support applications to national research funding bodies, or to fund areas of a project that were not included in the original project scope.

Up to 4 grants, each to a maximum of €2,500, are awarded twice per year to Early Career IAS members.

The application requires submission of a research proposal with budget and CV (template provided on the [submission webpage](#)), and a letter of support from the researcher's supervisor, line manager or Head of School. More details about the application procedure can be found on your membership profile.

Application deadline for the Autumn 2019 Session is **30th September 2019**.

Eligibility:

- Applicants must be full members of the IAS.
 - Applicants must have secured their Ph.D. within the previous 7 years.
 - Applicants can only benefit from a Post-Doctoral grant on one occasion.
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Deadline 31st March 2020 - applications for Post-Graduate Research Grants (Autumn 2019 Session)

Up to [10 research grants](#), each to a maximum of €1,000, are awarded twice a year to **IAS Post-Graduate Student Members**. This grant scheme is designed to support PhD students in their studies and research. Post-Graduate Research Grants can be used to (co-)finance fieldwork, acquisition and analysis of data, visits to other institutes to use specialized facilities, etc.

Applications must be submitted via the [IAS website](#). Application deadline for the Autumn 2019 Session is **30th September 2019**.

More information about the Post-Graduate Grant Scheme and guidelines on how to apply can be found on your membership profile.

Deadline 31st March 2020 - applications for Institutional Grants (Autumn 2019 Session)

Twice a year, IAS awards an [Institutional Grant](#) of maximum 10,000 Euro, which is intended to support capacity building initiatives in less developed countries (LDCs). Grants will allow earth science departments in LDCs to acquire durable sedimentological equipment for teaching and research, or tools that can be used by all geology students. The grant application should thus clearly demonstrate how the grant will increase the recipient's capacity to teach sedimentology at undergraduate level in a sustainable way.

Applications have to be submitted via the [IAS website](#). Application deadline for the Autumn 2019 Session is **30th September 2019**.

More information about the Institutional Grant Scheme and guidelines on how to apply can be found on your membership profile.

Travel grants for IAS Student Members

Student members of the IAS can currently apply for travel grants for IAS-supported meetings. Meetings with IAS sponsorship include:

- BSRG Annual General Meeting (14-15 December 2019, Egham, United Kingdom)
- 36th International Geological Congress (2-8 March 2020, Delhi, India)
- SEPM International Sedimentary Geosciences Congress - 2020 (26-29 April 2020, Flagstaff, US)
- 35th IAS Meeting of Sedimentology (22-25 Jun 2020, Prague, Czech Republic)
- Climate Change, The Karst Record — "KR9 Conference" (12-15 July 2020, Innsbruck, Austria)
- 10th International Conference of Tidal Sedimentology (31 August - 2 September 2020, Matera, Italy)

Application rules and eligibility criteria for IAS Student Travel Grants:

- Applicants must be active IAS Student Members at the time of submitting a travel grant application;
- Applicants can apply for a travel grant twice per calendar year: once for an IAS meeting (IMS or ISC) and once for any other IAS-sponsored meeting;
- Applicants must have an active and approved (oral or poster) presentation at the meeting (unless the meeting format does not include oral or poster presentations), on a topic of sedimentological relevance.

Application guidelines can be found on your membership profile.

News from our journals

For a quick overview of the latest issues of **Sedimentology**, **Basin Research** and **The Depositional Record**, follow these links:

- **Sedimentology**: directly at [Wiley](#) or via the [IAS website](#) (after login) for member access
- **Basin Research**: directly at [Wiley](#) or via the [IAS website](#) (after login) for member access
- **The Depositional Record**: directly at [Wiley](#) or via the [IAS website](#)

You can also keep track of all newly published articles on the continuously updated [members-only News Timeline](#) on the IAS website.

The IAS on Facebook, Twitter, WeChat and LinkedIn!

The IAS is very active on [Facebook](#), [Twitter](#), [WeChat](#) and [LinkedIn](#)

Follow us [@sedimentology](#) and IAS沉积学之家 to keep up to date with all things sedimentological.

