

The Newsletter of the International Association of Sedimentologists

Issue 5, 2019



Dear Member of the IAS,

In the field of Sedimentology, we are used to dealing with time at a range of scales. How then did we get to Issue 5 of the IAS Newsletter so fast! Insights would be much appreciated. Anyway, in this month's issue of the IAS Newsletter you will find an announcement of the name of the awardees of the IAS Postgraduate and Post-doctoral grant schemes, information on IAS sponsored conferences (to which our student members can apply for grants) and reports galore. Please feel free to download and distribute the newsletter amongst those of your colleagues who have yet to realise the benefits of membership of the IAS!

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On behalf of the IAS Bureau,

Stephen Lokier
General Secretary

Announcing the awardees for IAS Post-Doctoral Research Grants (Spring 2019 Session)

The standard of proposals submitted for the [IAS Post-Doctoral Research Grants](#) has continued to rise. The 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.

Following much deliberation, the Award Committee are pleased to announce the Awardees are:

- Andrés Bilmes, CCT CONICET-CENPAT, Argentina, Understanding the effects of mountain-range uplift over global climate changes: Insights from the Miocene sedimentary record of the Patagonian Foreland, Argentina (2,350 €).
- Fulvio Franchi, Botswana International University, Botswana, Characterization of the layered deposits of the Makgadikgadi pan, Botswana (2,432 €).
- Sebastian Richiano, CCT CONICET-CENPAT, Argentina, Sedimentology and ichnology of tide-influenced shorefaces: the Golfo Nuevo (Argentina) case study (2,230 €).
- Tian Yang, China University of Petroleum, China, Effect of organic matter-clay mineral complexes on the dynamics of sediment gravity flows (2,500 €).

Announcing the awardees for Spring 2019 Post-Graduate Research Grants

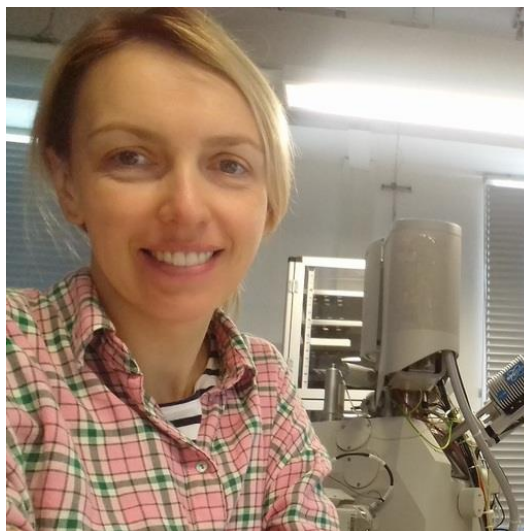
The standard of applications for the [IAS Post-Graduate Grants](#) also continues to rise with each round of awards! This grant scheme aims to support PhD students in their studies and research. [Post-Graduate Research Grants](#) can be used to (co-)finance fieldwork, acquisition and analysis of data, visits to other institutes to use specialised facilities, etc. The Spring 2019 Awardees are:

- Elizabeth Balmer, United Kingdom, Sedimentary development of the Latest Cretaceous – Neogene of West Cyprus
- Musa Bappah Usman, United Kingdom, Deducing Cretaceous environmental shifts from clay mineral analysis coupled to palynology in the Benue Trough: filling in a key link between the Atlantic and Tethys Oceans
- Ariadna Coppa Vigliocco, Argentina, Geochemical study of intervals within the Yacoraite Formation across the K-T boundary (northwest Argentina)
- Emma Graf, United Kingdom, Source to sink: documenting the journey of landslide sediment following the 2015 Gorkha (Nepal) earthquake
- Carrel Kifumbi, Brazil, Facies architecture and high-resolution sequence stratigraphy of coastal aeolian systems, Parnaíba basin, northern Brazil
- Dawei Liu, Belgium, Reconstructing the provenance of Glacial Lake Outburst Floods (GLOFs) in Patagonia Using Sr and Nd isotopes
- Mario Matosevic, Croatia, Provenance and Diagenesis of the Upper Miocene Sandstones from the South-Western Part of the Pannonian Basin System (Croatia)
- Suihong Song, China, Distribution of deltaic sand bodies in the context of extensive small growth normal faults
- Rebecca Stewart, United Kingdom, A high resolution assessment of debris supply and transport dynamics in a deglaciating alpine catchment
- Thomas Vandyk, United Kingdom, Precambrian Glacial sedimentology from the Mineral Fork Formation, USA

Appointment of Joanna Pszonka as Interim Vice President

With the appointment of Giovanna Della Porta as Interim Editor of *Sedimentology* in December 2018, the mandate of a Vice President position on the IAS Bureau became available. We are pleased to announce that Joanna Pszonka of the Polish Academy of Sciences kindly agreed to fill the position on an interim basis and was duly elected as such at the Bureau Meeting held on the 17th of May 2019.

Many of you will know Joanna through her sterling work as a former member of the IAS Early Career Scientists Committee as well as maintaining the IAS Twitter and Facebook feeds. We hope that you will all join us in welcoming Joanna to the Bureau.



Even after early-bird registration, being an IAS Member will save you up to €100 on Registration fees for the 34th IAS International Meeting of Sedimentology!



IAS Members benefit from hugely discounted rates – save up to €100 on registration by becoming a member of the IAS! Details of the meeting are available [here](#) or on the [IAS website](#).

Get to know the Bureau – Daniel Ariztegui – President of the IAS

We continue our series of biographies of the IAS Bureau and Council with Prof. Daniel Ariztegui, IAS President...

My interest in sedimentology started early while I was an undergraduate at the University of La Plata in Argentina where I obtained my MSc. After a few years in industry, I returned to academia accomplishing a doctoral degree at the ETH-Zürich, Switzerland, on lake sediments and geochemistry. I am now a professor of Limnogeology and Geomicrobiology at the University of Geneva, Switzerland. My present research focus is on microbes-mineral interactions, organomineralization and their impact on early diagenesis. I am particularly interested in the lacustrine subsurface biosphere (active microbes living in the sediments) as well as marine and lacustrine sediments as archives of (paleo) environmental changes.



Since August 2018 I have been elected president of the International Association of Sedimentologists. As such, I am expected to oversee the work of the Society, ensuring that the Bureau fulfils its aims and objectives, and being one of the main point of contact between the Society and its Membership. The

president is often seen as the face of the Society and is entrusted to be the main contact for the association and its activities as well as the running of the Bureau annual meetings. Along with the rest of the Bureau, I hold responsibility for the decision making of the Society and therefore must remain informed about the present activities, personnel, events, and financial position. As a signatory of the Society, along with the Treasurer and General Secretary, I sign off expenses and I am responsible for any events on the Society. Employing the societies Constitution, I am expected to lead a development plan for the Society while overseeing the new Bureau election process.

As with all Bureau and Council members this is a voluntary role that often demands a substantial part of our research time. However, it provides a unique opportunity to reach the community in a different manner while shaping strategies to keep developing and growing the Society.

Daniel

IAS Special Lecture Tour Reports

Rachel Wood presents at the Department of Geology of Ghent University, Belgium

Prof. Rachel Wood visited the Department of Geology of Ghent University, Belgium, on Thursday 2nd May 2019, where she gave a 1-hour seminar on *What triggered the Ediacaran-Cambrian rise of animals?*, as part of the IAS Special Lecture Tour 2019.

The seminar had been broadly announced, several weeks in advance, and the audience –a completely full lecture room, with ca. 60 attendants – not only consisted of research staff, PhD

students and master students of the Department of Geology, but also of visitors from the Department of Biology and even from other Universities in Belgium (e.g. Free University of Brussels, University of Liège).

In the seminar, Prof. Rachel Wood addressed three main research hypotheses: (1) Oxygen controlled the rise of metazoans, (2) dynamic redox controlled the tempo of the Ediacaran-Cambrian Explosion, and (3) Ecology increasingly controlled distribution of biominerals. She addressed these research hypotheses using results of fieldwork that was conducted over the past years by herself and her co-workers in Namibia and Siberia. A particularly important message for our students was the emphasis on the importance of international collaboration and of interdisciplinary research.

The seminar was highly appreciated by all, as could be concluded from social media coverage afterwards. Loads of likes!

Marc De Batist



Adrian Immenhauser presents at the Rosenstiel School of Marine and Atmospheric Sciences (RSMAS) at the University of Miami, USA



On May 16th, past IAS president Dr. Adrian Immenhauser presented his first seminar on his inaugural IAS lecture tour. The Rosenstiel School of Marine and Atmospheric Sciences (RSMAS) at the University of Miami hosted his lecture in Miami, Florida through the department of Marine Geosciences. The lecture focusing on Quantitative Diagenesis including examples from Recent environments as well as experimental approaches for a better understanding of alteration pathways and mechanisms. The lecture was attended by senior scientists as well as graduate students from multiple disciplines.

Chelsea Pederson

Rachel Wood presents at the Laboratory of Geology, University of Lyon, France

















On Tuesday and Wednesday, May 14th and 15th 2019 the Laboratory of Geology of Lyon (UMR 5276 CNRS; LGL-TPE) of the University of Lyon, France, welcomed Prof. Rachel Wood for two colloquium seminars provided within the frame of the IAS Special Lecture Tour 2019. Rachel Wood granted us, firstly, with a nice overview of the environmental and evolutionary triggers which governed the Ediacarian-Cambrian rise of animals, ranging from the role of oxygen, redox conditions and the carbon cycle. Based on new data outcoming from comprehensive field work in Namibia and Siberia during the last few years, Prof. Wood and collaborators helped in getting a cutting-edge and revised picture on the calendar, causes and consequences of this revolution in life on Earth that culminated with the Cambrian Explosion.

The day after, on Wednesday, Prof. Rachel Wood developed a detailed perspective on how past mass extinctions may shed light on our future path on Earth, based on a thorough integration of case studies and modelling outputs. Her research nicely emphasises the crucial importance of the carbonate diagenesis issue in interpreting proxies and understanding the genuine (paleo)environmental signals during tremendous perturbations of the Earth system in the course of the Phanerozoic.

Those two greatly enthusiastic seminars were attended by an audience consisting in both staff scientists and undergraduate / PhD students, from various disciplines. An extensive discussion followed the talks and offered the opportunity of fruitful post-seminar discussions for PhDs on their respective scientific results, thus benefiting from Prof. Wood's recognised experience and skills dealing with both paleontological and geochemical issues.

Philippe Sorrel

Do you want to help shape the future of the IAS? Become an IAS National Correspondent

National Correspondents	
 JACO H. BAAS National correspondent for  UNITED KINGDOM  Pin as main correspondent ... News and information from this correspondent  Send Jaco H. Baas a message	 PETER HAUGHTON National correspondent for  IRELAND  Pin as main correspondent ... News and information from this correspondent  Send Peter Haughton a message
 ANNE-CHRISTINE DA SILVA National correspondent for  BELGIUM  Pin as main correspondent ... News and information from this correspondent  Send Anne-Christine da Silva a message	 JOÃO P. TRABUCHO ALEXANDRE National correspondent for  NETHERLANDS  Pin as main correspondent ... News and information from this correspondent  Send João P. Trabuco Alexandre a message

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 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**.

We welcome our latest National Correspondent Jaco Baas of Bangor University – National Correspondent for the UK. [Check out Jaco's Profile here](#)

New Grant Reports are now available on the IAS web site

You can read all of the Grant Reports from IAS members who have benefited from **Post-Doctoral** or **Post-Graduate** grants [here](#). Simply click on the 'Grant Reports' tab at the top of the page.

This month we have new reports from Deepak Kumar Jha and Laura Stutenbecker.

Find Content		
Grant Reports	Conferences	Meeting / Field Trip Reports
 DEEPAK KUMAR JHA Late Quaternary monsoonal rainfall variation, vegetational change and evolution of Indo-Gangetic River system, North-Central India  Download report		 LAURA STUTENBECKER Dating the onset of sediment supply from the crystalline basement massifs through detrital garnets in sediments of the Swiss foreland basin (Postdoctoral Grant Report)  Download report
 ALISON HENDRY From Fluvial to Fjord Floor: Factors controlling the abundance and distribution of biofilms and associated clay coats: a case study across Bute Inlet, SW Canada  Download report		 CRISTINA SEQUERO Facies heterogeneity and sedimentary architecture of a latest Kimmeridgian shallow carbonate ramp at reservoir scale (Higueruelas Fm, NE Spain)  Download report

Call for 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 [here](#). 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.

Call for 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 [here](#).

Call for 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 [here](#).

Travel grants for IAS Student Members

Student members of the IAS are able to apply for travel grants for the following meetings:

- 16th International Meeting of Carbonate Sedimentologists — "Bathurst Meeting" (9-11 July 2019, Palma de Mallorca, Spain)
- 19th International Congress on the Carboniferous and Permian (29 July - 2 August 2019, Cologne, Germany)
- Climatic controls on continental erosion and sediment transport — "CLAST 2019" (4-10 August 2019, Juneau (Alaska), United States)
- Summer School on Speleothem Science (S4) (11-17 August 2019, Cluj, Romania)
- 2nd School on Sandstone Diagenesis (26-30 August 2019), Erlangen, Germany
- 34th IAS Meeting of Sedimentology — "Sedimentology – to face societal challenges on risk, resources and record of the past" (Rome, Italy; 10-13 September 2019)
- 3rd International Conference on Continental Ichnology — "ICCI 2019" (23-29 September 2019, Halle, Germany)
- M-fed conference — "Microbialites: formation, evolution, diagenesis" (28-30 October 2019, Dijon, France)
- Climate Change, The Karst Record — "KR9 Conference" (12-15 July 2020, Innsbruck, Austria)

All travel grants are listed on the IAS website in the [Members-Only Events Timeline](#).

Application rules and eligibility criteria for IAS Student Travel Grants:

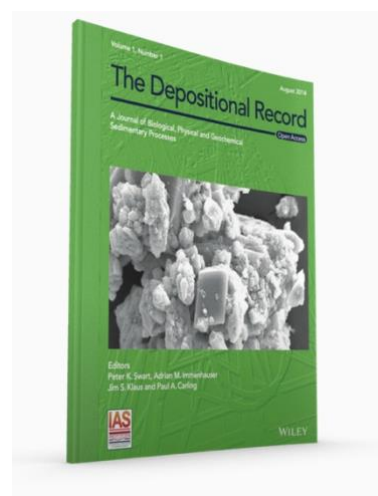
- Applicants must be active IAS Student Members at the time of submitting a travel grant application;
- Applicants can apply for a travel grant twice per calendar year: once for an IAS meeting (IMS or ISC) and once for any other IAS-sponsored meeting;
- Applicants must have an active and approved (oral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

Call for manuscripts for Open Access Journal “The Depositional Record”

[The Depositional Record](#) is IAS’s **Open Access Journal**. It covers all timescales, from Ancient to Modern Earth, and welcomes articles from across the field of sedimentology, and in particular articles dealing with paleoclimate, changes in the chemical environment, ocean acidification, extra-terrestrial sedimentology, and the application of genetic methods to understanding sedimentological processes.

The journal is now collecting manuscripts for Volume 5. All papers are freely accessible to everyone [here](#). For more information, please visit the [journal website](#) and the [manuscript submission page](#).

Article Processing Charges (APC) will be covered by IAS until the journal has received an impact factor.



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 and Twitter

The IAS is very active on [Facebook](#) and [Twitter](#).



Follow us [@sedimentology](#) to keep up to date with all things sedimentological.

Job adverts

You can find more information about recent job adverts on our [members-only Job Offers Timeline](#).