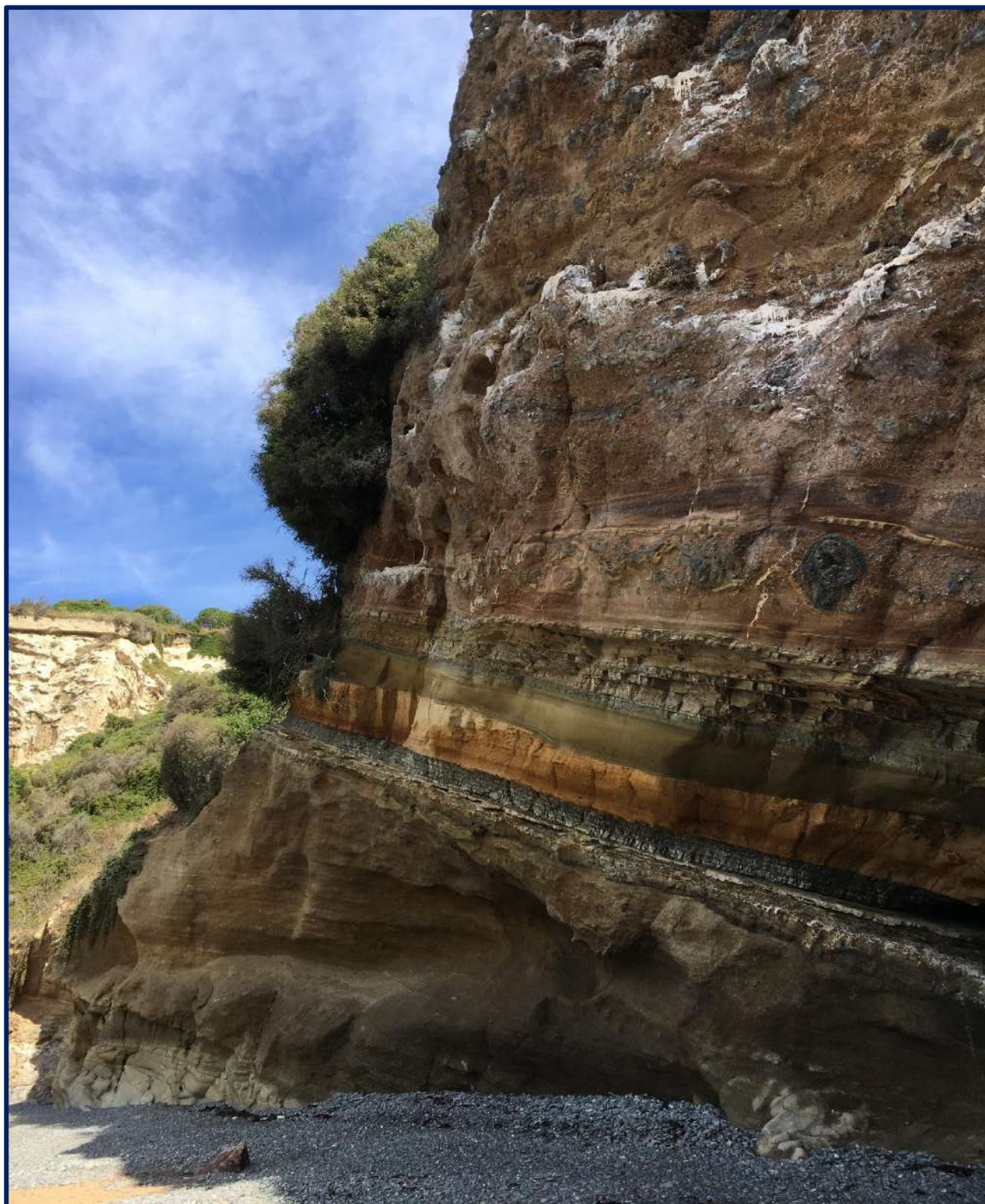


# The Newsletter of the International Association of Sedimentologists

Issue 2, March – May 2025



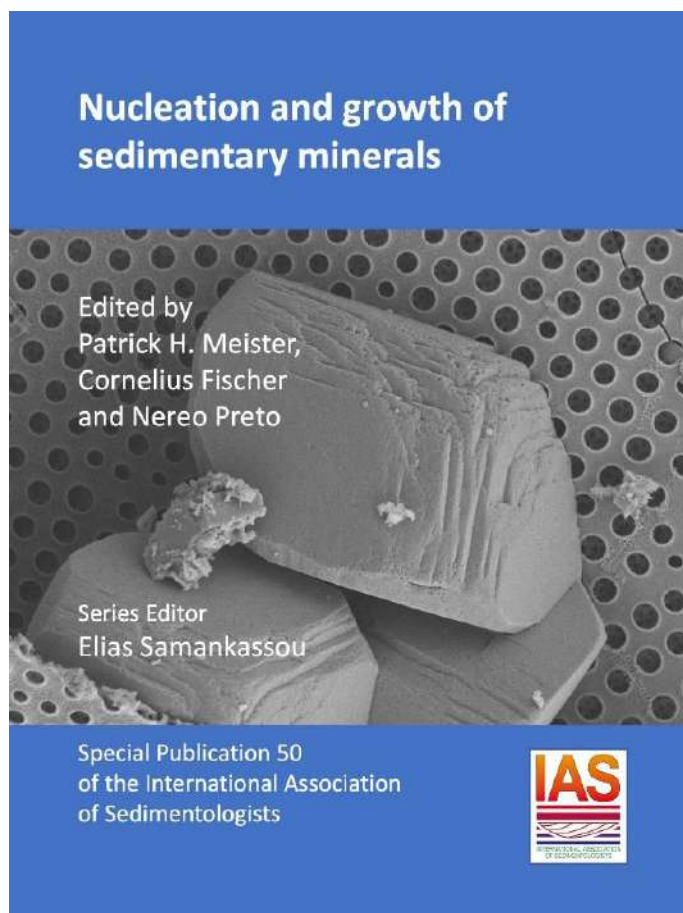
**Your** sedimentological photograph could go here – [contact us](#) if you would like to submit one!

All photographs will be credited and will need a short (1 line) caption

Dear IAS Members,

Welcome to your new IAS Newsletter, where you will find information on all these topics:

We especially draw your attention to the forthcoming **38<sup>th</sup> International Meeting of Sedimentology** in Huelva, the **30<sup>th</sup> May extended abstract deadline for the 22<sup>nd</sup> International Sedimentological Congress** in Wellington, the **call for nominations for IAS Awards**, and the open call for papers for a **Special Issue of The Depositional Record** devoted to honouring the career of IAS past President Judith McKenzie.



We also want to announce that **IAS Special Publication 50: Nucleation and Growth of Sedimentary Minerals** is now in press. This excellent volume is edited by Patrick Meister, Cornelius Fischer and Nereo Preto and contains 24 state-of-the-art research and review papers. A full list of these can be found on the flyer at the end of this Newsletter.

Once published this will be available for IAS Members to access freely from their member portal under Library > Books.

If you have any questions about the IAS and its activities you can [contact us from the website](#) or [email the Executive Officer](#) who will either respond directly or pass your message on to the Council of Management.

The last newsletter contained an item about the **IAS's new website and member database**, if you have not seen

it, we recommend that you have a look so that you are able to get the maximum benefit from all the Association has to offer you. IAS members can access the last Newsletter [from this link](#). If you have any questions or any problems accessing your member account please use the [contact form](#) to let us know and we will always do our best to help.

With best regards,

*Gonzalo Veiga*

IAS General Secretary



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## 1. IAS Key Dates

22 <sup>nd</sup> International Sedimentological Congress abstract deadline	30 <sup>th</sup> May 2025
3rd International Paleolimnology and Limnogeology Symposium IAS Student Travel Grant application deadline	30 <sup>th</sup> May 2025
MFed 2025 Microbialites conference IAS Student Travel Grant application deadline	31 <sup>st</sup> May 2025
Tidalites 2025 conference IAS Student Travel Grant application deadline	31 <sup>st</sup> May 2025
Land-to-Sea Shaking Studies Workshop (L2S3) IAS Student Travel Grant application deadline	6 <sup>th</sup> June 2025
Sedimentary Provenance Analysis short course IAS Student Travel Grant application deadline	8 <sup>th</sup> June 2025
Cyclostratigraphy Field Training School IAS Student Travel Grant application deadline	12 <sup>th</sup> June 2025
38 <sup>th</sup> International Meeting of Sedimentologists	26 <sup>th</sup> – 28 <sup>th</sup> June 2025
North Sea Core samples for teaching 3 <sup>rd</sup> round application deadline	30 <sup>th</sup> June 2025
Palaeoseagrass – Sedimentary Processes and Microfacies IAS Student Travel Grant application deadline	8 <sup>th</sup> July 2025
22 <sup>nd</sup> International Sedimentological Congress reduced rate and presenter registration deadline	19 <sup>th</sup> September 2025
IAS Awards nomination deadline	30 <sup>th</sup> September 2025
22 <sup>nd</sup> International Sedimentological Congress	25 <sup>th</sup> – 30 <sup>th</sup> January 2026

For details and the conferences and meetings see later in the Newsletter or visit [this link](#).

## 2. Message from the IAS Acting President

Dear colleagues,

I hope this message finds you well. I would like to take this opportunity to share some recent developments within our Association, particularly in connection with our presence at the European Geosciences Union (EGU) General Assembly held in Vienna this last April/May.

Although IAS did not host a dedicated booth this year, we were warmly welcomed at the Wiley stand, where we organised two “*Talk to the President*” sessions. These informal gatherings allowed visitors to drop by and engage in open discussions about the Association, our activities, and, above all, our journals. It was encouraging to see strong interest and engagement, especially from early-career researchers eager to learn more about publishing in *Sedimentology*, *Basin Research*, and *The Depositional Record*.



Among those who stopped by were Radha Krishna Pillutla and Mukhtar Ahmad, two students who were sponsored by IAS to attend the EGU meeting. Both were thrilled to participate and expressed sincere gratitude for the support that made their attendance possible. It is always rewarding to witness the direct impact of our funding initiatives on the next generation of sedimentologists.



A key topic that generated interest at EGU—and indeed within our community more broadly—relates to the editorial transition currently underway at *Sedimentology*. In line with the editorial model of our other two journals, the submission and handling of manuscripts for *Sedimentology* is now fully managed by Wiley. However, there has been no change for submitting authors: all editorial decisions and the overall editorial direction remain entirely under the responsibility of IAS, ensuring continuity in both scientific standards and editorial quality. Indeed, to ensure continuity and avoid any disruption to authors or readers, Marc Aurell (University of Zaragoza, Spain) and I have stepped in as Interim Chief Editors. This is a temporary solution, and we are currently consulting with the Associate Editors to shape a more permanent editorial structure. Our goal is to maintain the high standards and efficiency that make *Sedimentology* a leading journal in the field.

The EGU meeting was also an excellent venue to promote the 50<sup>th</sup> IAS Special Publication, *Nucleation and Growth of Sedimentary Minerals*, edited by Patrick H. Meister, Cornelius Fischer, and Nereo Preto. This volume is a significant contribution to our understanding of mineral precipitation processes and reflects the continued strength of our Special Publications series (see attached file if you want to include it).

Meanwhile, within the IAS Council of Management (CoM), discussions are ongoing to propose a revised governance configuration. This proposal will soon be presented to the membership for approval and is intended to take effect at the next *International Sedimentological Congress*, which will be held in Wellington, New Zealand, in January 2026.

Finally, exciting news is on the horizon regarding a new IAS office space and other structural developments, which we hope to share in more detail at the upcoming meeting in Huelva this June. I very much look forward to seeing many of you there and continuing our conversations in person.

With warm regards,

*Daniel Ariztegui, IAS Acting President*

### 3. 38<sup>th</sup> International Meeting of Sedimentology, Huelva, Spain: Final Programme now available!



The **38<sup>th</sup> International Meeting of Sedimentology (IMS)** will be hosted by the University of Huelva (SW Spain) from **26<sup>th</sup> to 28<sup>th</sup> of June 2025** and is organized by a team led by Juan A. Morales. At the time of going to press there are 395 sedimentologists registered for the meeting. Field trips have been fully booked, one of which proved so popular that the number of places had to be doubled. Only one excursion failed to attract sufficient participants and had to be cancelled. There are still some places available on the [workshops](#).

A total of 496 abstracts have been accepted, 364 for the Ordinary Sessions and 132 for Special Sessions. Details are included in the preliminary programme that was published online at the end of February. However, once the Early Bird registration period had closed it became necessary to withdraw 44 contributions where none of the authors had registered for the meeting. This resulted in a modest restructuring of the programme. [The final programme is now available on the website.](#)



The social programme is currently being finalized and will be published on the website soon. It is already possible to [book lunches and reserve a place for the Gala Dinner on 27<sup>th</sup> June.](#) Many of you will have already made your plans for Huelva but note that information about [travel to the city and accommodation options](#) remains available on the website.

There is a [contact form](#) that can be used for general questions, registrants and presenters will have been given an email address for specific issues. Please note that the IAS Office cannot address enquiries that are specifically about the meeting organization, visa invitation letters, and so on – these should be sent directly to the

organisers.

If you have not yet registered, the fees structure and online registration for the meeting can be found on the [meeting website](#) or direct from [this link](#).



**We look forward to  
welcoming you to  
Huelva.**



#### **4. 22<sup>nd</sup> International Sedimentological Congress, Wellington, Aotearoa New Zealand: Extended Call for Abstracts**

Thank you for the strong interest and support for the upcoming Congress to be held in Wellington, Aotearoa-New Zealand from 25<sup>th</sup> – 30<sup>th</sup> January 2026. Here are some updates from the Organizing team – please visit the [Congress website](#) for the latest updates:

- **Abstract Submission Deadline** is extended! The **NEW DEADLINE is 30<sup>th</sup> May 2025**. Please [click here](#) to view the confirmed list of sessions. For more information on the abstract submission process and to begin your submission today [click here](#).
- **Early Bird Registration Deadline is 19<sup>th</sup> September 2025**. Online registration for the ISC 2026 is open and you are able to register [here](#). All fees stated are in NZD\$ Dollars.
- Our pre- and post-conference **fieldtrips** cover virtually all the aspects of sedimentology, with trips to both the north and south islands available. [Click here](#) to view the proposed trips. There will also be mid-conference field trip on **Wednesday 28<sup>th</sup> January**, with details to follow soon.



*Deep marine siliciclastic Miocene outcrops on Taranaki's energetic coastline. This site forms part of the post-conference field trip: ["In the Shadow of Mt. Taranaki: Miocene to Recent Deposits from Rivers to the Deep Sea"](#) led by Andrew La Croix, (University of Waikato) & Lorna Strachan (University of Auckland).*



*Upper flanks of the spectacular active Mount Taranaki Volcano. This site forms part of the pre-conference field trip: ["Volcano-sedimentary processes around New Zealand's active andesite and rhyolite volcanoes"](#) led by Anke Zernack (Massey University).*

- We have secured **4 Keynote Speakers** who will showcase their amazing research into the interactions between sedimentology and: 1. Active margin tectonics (Jamie Howarth, Victoria University of Wellington, Aotearoa-New Zealand); 2. Indigenous knowledge (Daniel Hikuroa, University of Auckland, Aotearoa-New Zealand); 3. Paleoclimate and palaeoceanography (Helen Bostock, University of Queensland, Australia), and 4. Volcaniclastic processes (Kyoko Kataoka, Niigata University, Japan). We will invite 4 more keynote speakers once we have confirmed the accepted abstracts.



**ISC2026** WELLINGTON, NEW ZEALAND  
25-30 JANUARY 2026

**25- 30 JANUARY 2026**

**TĀKINA WELLINGTON CONVENTION  
AND EXHIBITION CENTRE**

**NEW ZEALAND**




**WWW.ISC2026.CO.NZ**

**KEY DATES:**

**Abstract Submission Deadline: 30 May 2025**

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- **42 sessions exploring diverse sedimentology themes**

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- **North & South Island Field trips**

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- **8 Keynotes**

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**IAS Student travel grants available**

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**Registration opens: May 2025**

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**Authors notified: 15 August 2025**

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**Early registration deadline: 19 September 2025**






## 2-for-1 Conferences

The **11th IAG International Conference on Geomorphology** is being held from 2<sup>nd</sup> - 6<sup>th</sup> February in Christchurch, New Zealand, with a **joint IAS-IAG field trip** between.

## 5. Sun Shu Research Prize Awardees Honoured

On the evening of 23<sup>rd</sup> April, during the 8<sup>th</sup> Chinese National Sedimentology Conference, a special academic session - the “**Academic Salon of Sun Shu Research Prize Winners**”—was held at the Guoce International Convention Centre in Beijing, co-organized by the Chinese Association of Sedimentologists (CAS), the International Association of Sedimentologists (IAS), and the Sun Shu Foundation. The academic salon featured three keynote presentations by three international Sun Shu Prize Winners, and numerous sedimentologists from both China and abroad attended.

Prof. Xiumian Hu, General Secretary of the Chinese Association of Sedimentologists, from Nanjing University, chaired the salon. At the beginning, Prof. Xiumian Hu provided a



comprehensive overview of the history of Sun Shu Prizes. Established in 2020, Sun Shu Prizes are awarded to recognize outstanding scientists in the field of sedimentology. The Prizes are awarded to honour the late Prof. Sun Shu, a Chinese sedimentologist whose success and fame was achieved through the integration of sedimentological analysis into numerous areas of research including sedimentary geotectonics, mineral resources, and environmental sciences. Prof. Sun Shu was a true pioneer in terms of using tectonic facies analysis concepts and sedimentological data to solve problems related to tectonics and basin analysis. Candidates for the Sun Shu Prizes must be ordinary members of the IAS aged between 35-45 years (at the date of the submission deadline). The prizes are awarded every two years, at the occasion of the International Sedimentological Congress and at the International Meetings of Sedimentology.

The Sun Shu Prize is the first international prize named after a Chinese sedimentologist. It announced on IAS website.

The Sun Shu Prize winners to date are as follows:

**2020:** Alex Brasier (University of Aberdeen); Huaichun Wu (China University of Geosciences, Beijing)

**2022:** Guillaume Suan (Université Claude Bernard Lyon 1); Chenglin Gong (China University of Petroleum, Beijing)

**2024:** David Kemp (China University of Geosciences, Wuhan); Jitao Chen (Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences)

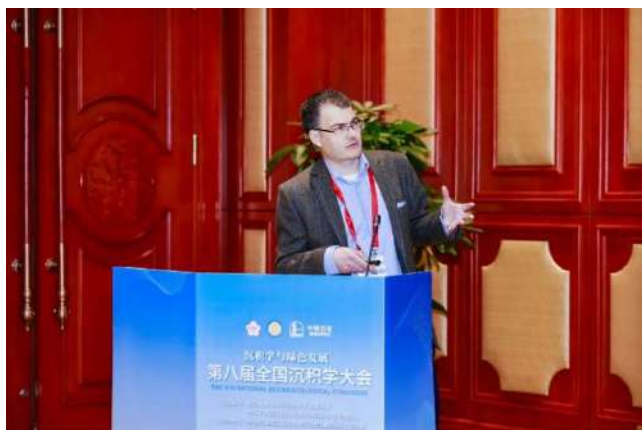
The award consists of prize money of 1,300 Euro and the Sun Shu medal. The Sun Shu Prize winners' awards are supplied by Dr. Xingyuan Sun, the second son of Sun Shu.



***Photo of Sun Shu Prize Winners and Chinese Sun Shu Prize Winners with the President, committee members of the Sun Shu Foundation and keynote speaker***

*(caption on next page)*

*Previous page, from left to right: Prof. Tony Caldanaro (Smith College); Bosiljka Glumac (President of the Society for Sedimentary Geology, SEPM; Smith College); Prof. Sanjeev Gupta (Imperial College London); Prof. Chenglin Gong; Prof. David Kemp; Dr. Alex Brasier; Academician Wenjiao Xiao; Academician Chengshan Wang; Prof. Huaichun Wu; Prof. Xiumian Hu; Prof. Jitao Chen; Associate Prof. Xuelian You; Prof. Jianghai Yang; Prof. Xianguo Lang*



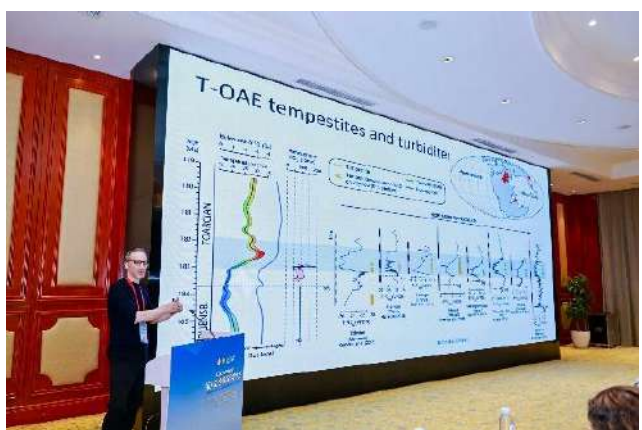
Firstly, In the academic salon, Dr. Alex Brasier delivered a presentation entitled “Hot-springs through Time,” using modern analogues to elucidate how tectonic and climatic factors govern hydrothermal carbonate deposition.

*Dr. Alex Brasier*



Secondly, Dr. Guillaume Suan virtually presented “The Hidden Depths of the Carbon Cycle”, examining the spatiotemporal variations in organic carbon burial and preservation during the Early Jurassic Toarcian Oceanic Anoxic Event.

*Dr. Guillaume Suan*



At the end, Prof. David Kemp spoke on “The Impact of Hyperthermal Events on Sedimentary Systems,” which is on how the Paleocene–Eocene Thermal Maximum and the Jurassic Toarcian anoxic event records reveal intensified hydrological cycling and storminess.

*Prof. David Kemp*

The academic Salon of Sun Shu Research Prize was very successful. It promoted the achievements of Sun Shu Prize winners and helped to tie sedimentology family together as an international academic community.



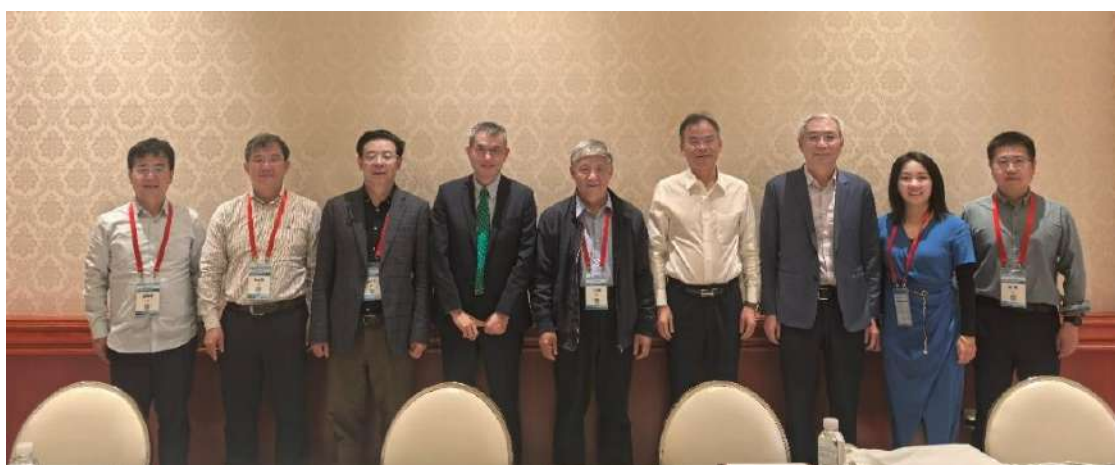


**First row:** Academician Chengshan Wang; Academician Wenjiao Xiao; Prof. Sanjeev Gupta

**Second row:** Prof. Tony Caldanaro; Prof. Bosiljka Glumac; Prof. David Kemp; Dr. Alex Brasier

**Third row:** Prof. Huaichun Wu; Prof. Jitao Chen; Associate Prof. Xuelian You; Prof. Chunju Huang

The Sun Shu Foundation Committee also convened a plenary meeting to discuss how to run foundation efficiently.



**Participants of the 4<sup>th</sup> Plenary Meeting of the Sun Shu Foundation Committee**

*From left to right: Prof. Xiumian Hu; Prof. Zhiliang He; Academician Caineng Zou; Dr. Xingyuan Sun; Academician Chengshan Wang; Academician Wenjiao Xiao; Prof. Jinhui Yang; Associate Prof. Xuelian You; Prof. Xi Chen.*



## 6. IAS Awards – Call for Nominations - Deadline 30<sup>th</sup> September 2025



We are delighted to open the call for nominations for the 2026 [Sorby Medal, Johannes Walther Medal, Early Career Scientist Award, and Sun Shu Prizes](#) of the IAS. Lists of past awardees can be found [on the IAS website](#). Each award has its own set of nomination guidelines, and each nomination should be submitted as a merged pdf addressed to the General Secretary, via the Executive Officer (the email address is on the guidelines documents). Any questions can be sent via the website [contact form](#).

**The deadline for receipt of nominations is 24:00 hrs CET on 30<sup>th</sup> September 2025**

Awards will be bestowed at the ISC in Wellington on 26<sup>th</sup> -30<sup>th</sup> January 2026.



The **Sorby Medal** is the highest award of the International Association of Sedimentologists. It is awarded to scientists of eminent distinction in sedimentology. The Sorby Medal is awarded once every 4 years, at the occasion of the International Sedimentological Congress (ISC). The awardee receives a medal, certificate, and lifelong membership of the IAS.

### [Nomination Guidelines](#)

*In 2022 the Sorby Medal was awarded to Prof. Juergen Schieber of Indiana University*

The **Johannes Walther Award** is awarded to scientists who are considered to have made a significant impact in the field of sedimentology, it is the second highest award of the Association and is bestowed every two years at the respective International Meeting of Sedimentology (IMS). Nominees can be at any stage of their career, although special consideration will be given to scientists in their mid-careers. The awardee receives a medal, certificate, and lifelong membership of the IAS.

### [Nomination Guidelines](#)

*In 2024 the Johannes Walther Medal was awarded to Prof. Chao Li of Chengdu University of Technology*





The IAS **Early Career Scientist Award** recognises contributions and potential of outstanding early-career scientists working in any area of sedimentology. This award is also given once every two years and the awardee receives a certificate and full membership of the IAS for 5 years.

#### Nomination Guidelines

*In 2024 the Early Career Scientist Award was given to Dr Marta Marchegiano of the University of Granada*

The IAS Sun Shu Prizes are awarded to recognise outstanding work in the field of sedimentology (see item 4 in this Newsletter). There are two prizes, the Sun Shu China Prize recipient is nominated by the Chinese sedimentological community through the Chinese Association of Sedimentologists (CAS) and the Sun Shu International Prize recipient is nominated by the IAS membership. The recipients receive a medal, prize fund, and full membership of the IAS for 2 years.

#### Nomination Guidelines (Sun Shu International)



*In 2022 the Sun Shu China Prize was awarded to Dr Jitao Chen of Nanjing Institute of Geology and Palaeontology and the Sun Shu International Prize was awarded to Dr David Kemp of China University of Geosciences, Wuhan.*



Although the deadline is at the end of September, please begin to collate the necessary information and submit it as soon as possible. We really want to celebrate the very best sedimentologists in our international community.

## 7. Geolodía 2025



Geolodía is an outreach initiative organized by the Geological Society of Spain with the collaboration of AEPECT, FECYT and IGME-CSIC in which geological field trips are carried out guided by geologists, free and open to all audiences. The IAS has been delighted to sponsor Geolodía for several years.

Every year a Geolodía is held for each Spanish province on the second weekend of May. The Geolodías take place in environments of great geological interest and offer simple but rigorous information. They allow us to see these places with “geological eyes” and understand how the Earth on which we live works and whose natural resources we depend on. Those who participate also understand the value of our geological heritage and the need to protect it.



Geolodía 2025 took place on 13<sup>th</sup> – 14<sup>th</sup> May and a list of all the excursions can be found on the [website](#).

## 8. IAS Research Grants – Fall 2025 Round - Closing date 30<sup>th</sup> September 2025

Twice a year, every year, the IAS offers research grants to its eligible members, up to a typical annual total of 43,000 Euro. These grants are ideal for pilot studies / proof of concept investigations, or for analytical work or field data collection that isn't covered by bursaries or other funding sources. For example, following up an unexpected discovery during a PhD project that isn't captured by the existing grant.

**The application process is simple, and the success rates are high, compared to many other funding sources.**

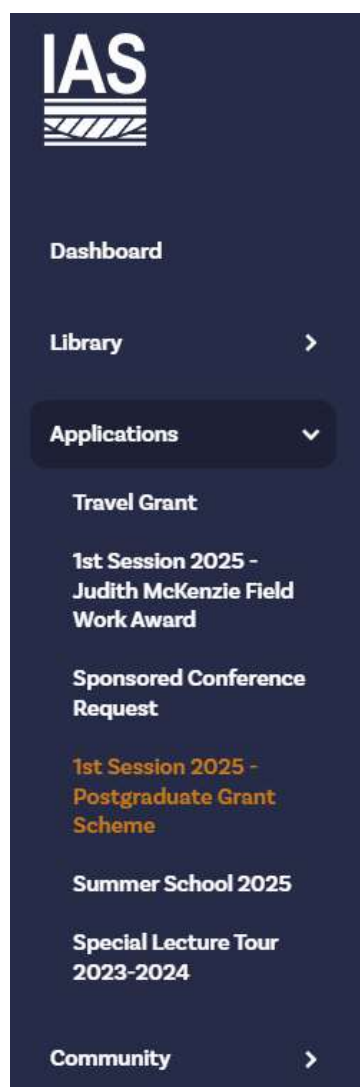
Grants are always paid **after** the specific piece of research has been completed and a concise but well-illustrated scientific report and a financial statement with itemised receipts are submitted to the IAS to document that the funds have been used appropriately. It is important to note that grants are **personal** to the recipient, they can't be paid into university accounts, they can't be used to offset institutional overhead costs, and they can't be paid in advance.

Grant applications are evaluated by a committee chaired by an IAS Managing Council member. Feedback is provided to unsuccessful applicants, who can re-apply in a subsequent round if they are still eligible. However, the high success rates mean that well-written and justified applications for original and interesting sedimentological projects stand a strong chance of being funded. It is also important to demonstrate that the proposed piece of research could not otherwise be funded.



There are three categories of research grant:

Type	Eligibility	Number, amount	Closing dates
<b>Judith McKenzie Fieldwork Award</b>	MSc (by research) students	2 grants each of up to <b>600 Euro</b>	31 <sup>st</sup> March and 30 <sup>th</sup> September
<b>Postgraduate Research Grants</b>	PhD students	10 grants each of up to <b>1,000 Euro</b>	31 <sup>st</sup> March and 30 <sup>th</sup> September
<b>Postdoctoral Research Grants</b>	Early career researchers within 7 years FTE of PhD award	4 grants each of up to <b>2,500 Euro</b>	31 <sup>st</sup> March and 30 <sup>th</sup> September



### How to apply:

Simply log in to your profile on the IAS website and click the link under “**Applications**” on the left-hand side of the screen (the specific grants you will see depend on your membership status).

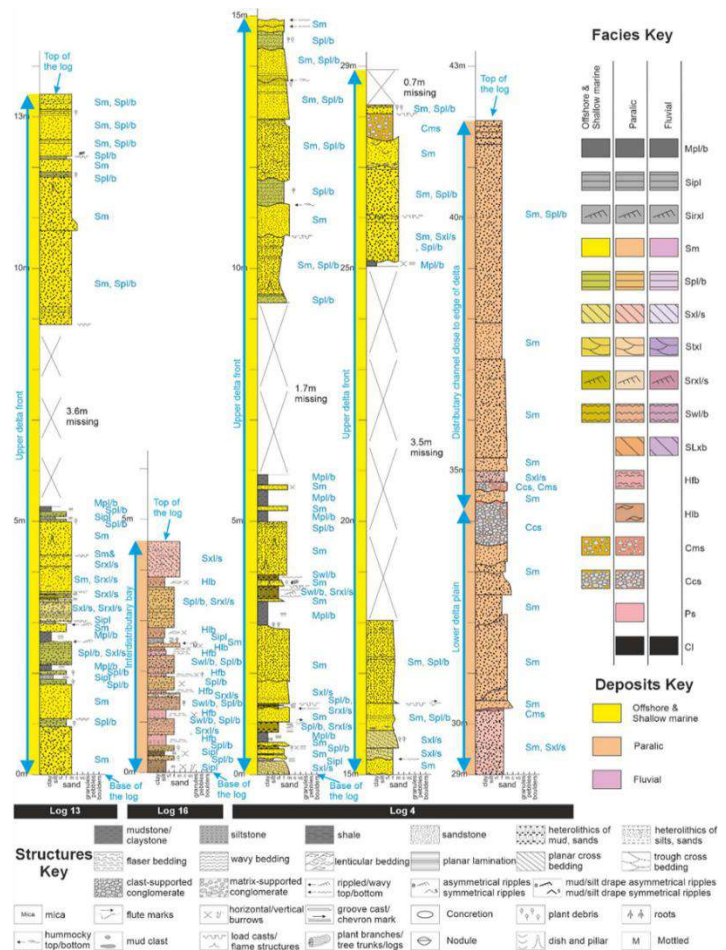
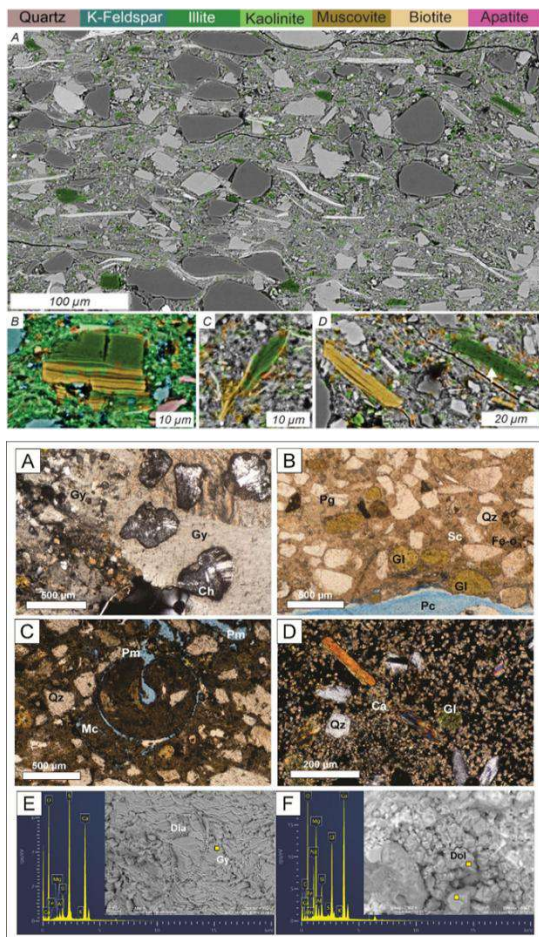
Please download and **carefully read the guidelines**.

Download and complete the **application form**, taking care to complete all sections and provide all the additional information required. For Judith McKenzie Fieldwork Awards and Postgraduate Grants it is important that your application contains proof that you are enrolled as a student at the time you apply and for the duration of the grant you are applying for. This means a formal enrolment letter or certificate, not just a copy of a student card!

Make sure your research proposal is novel, exciting and achievable!

Upload your completed application form with the additional documentation required in a single PDF file.

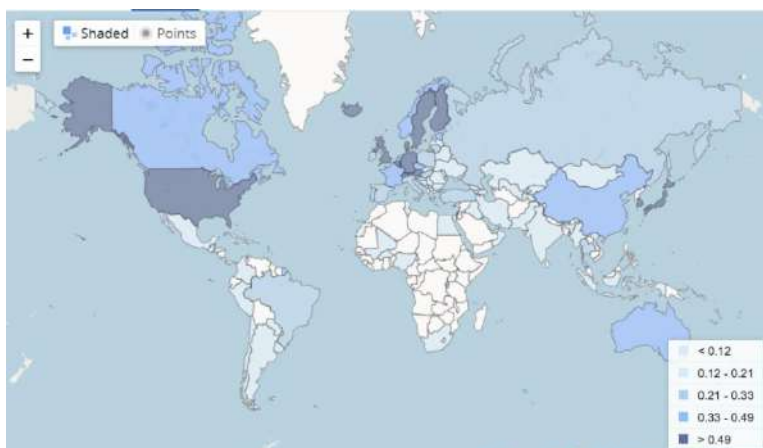
The scientific reports that arise from the IAS research grants will be archived on the IAS website but also serve as an illustration of the vibrant activity within our international research community. We therefore like to have plenty of illustrations (especially “*research in action*” photographs) that we can share on the IAS website, Newsletters and social media.



Example IAS research grant output, image credits: William McMahon, Jesica Kronemberger, Sheng Chen

## 9. IAS International Institutional Grants – Fall 2025 Round - Closing date 30<sup>th</sup> September 2025

The IAS offers twice-yearly [International Institutional Grants](#) to assist Earth Science departments in countries with less than 1% GDP expenditure on research and development (as defined by data compiled by the [World Bank](#)) to obtain **sedimentological equipment for teaching and research**, and/or tools that can be used by all geology students. These grants are **under-subscribed** and can be up to a transformative value of **10,000 Euro each**.



*If you are an IAS member in a country with a record of < 1% GDP expenditure on research and development, you may be eligible to apply for an Institutional Grant on behalf of your institute / university department.*



IAS Ordinary Members apply on behalf of their institutions and departments through their profiles on the IAS website. There is a set of [guidelines](#) that it is important to read carefully, and an **application form** to download and complete. The application form asks for a lot of information, but it is all routine and straightforward to collate (e.g. profile of the institute in terms of its mission statement, staffing, undergraduate and postgraduate courses, student numbers, facilities). Most important are the motivation for submitting the application, an itemised budget and justification for the equipment requested with formal supplier quotations, and a supporting statement from the institute's managing authorities. Successful grant applications will clearly demonstrate how the grant will increase the recipient institute's capacity to teach sedimentology at undergraduate level in a sustainable way.



If an application is approved, the IAS purchases the equipment and pays for its shipping. These grants are a fantastic opportunity to build capacity in Earth Science departments where institutional funding may be limited. **They are usually under subscribed so there is a high chance of success for well-prepared applications that meet the criteria and guidelines!**

## 10. Forthcoming meetings being sponsored by the IAS



The IAS is currently sponsoring 16 sedimentological meetings in 2025, 11 of which were or are being supported through [Travel Grants](#) offered to IAS Student Members. **Please see below for information on how to apply for these.** Click on the meeting titles for links to their respective websites.

Links to all sponsored meetings can also be found on the [Events](#) section of the IAS website.



## GeoSed 2025

10<sup>th</sup> – 13<sup>th</sup> June 2025, Università della Calabria, Rende (CS), Italy

A conference with field trips that aims to bring together all members of the Italian Geological Society, IAS, and whoever have an interest in topics related to physical stratigraphy, sedimentology, sedimentary petrology, paleoclimatology, and paleogeography, in order to stimulate active debate on these topics and to encourage and support the birth of profitable scientific collaborations.



Registration is **open**.

## Cyclostratigraphy Field Training School

7<sup>th</sup> – 14<sup>th</sup> September 2025, Osservatorio Geologico di Coldigioco, Italy



A one-week field training school in cyclostratigraphy aimed towards postgraduate students active in the field of cyclostratigraphy but open to all. After a general theoretical introduction and field day (in the iconic area around Gubbio), groups of students will be spread out over stratigraphically equivalent sections for logging and sampling for 2 days. They will measure their own data on the outcrop or on samples taken.

In the second part the students will be instructed in the use of spectral analysis tools using their own (and existing) data and guided towards formulating working hypotheses that will be presented, discussed and compared to the existing literature.

Registration deadline: **10<sup>th</sup> July 2025** (numbers are limited to 15 students).

**IAS Travel Grants are available!** Application deadline: **12<sup>th</sup> June 2025**.

## Tidalites 2025 - 11<sup>th</sup> Congress on Tidal Dynamics and Sedimentology

9<sup>th</sup> – 11<sup>th</sup> September 2025, University of Liverpool, UK

This exciting event will gather leading experts from diverse fields, including sedimentology, oceanography, coastal engineering, morphodynamics, and tidal energy. Key scientific themes include:

- The deep-time tidal sedimentary record: hydrodynamics and climate change
- Coastal dynamics of tidally influenced systems



- The role of tides in the future of energy production

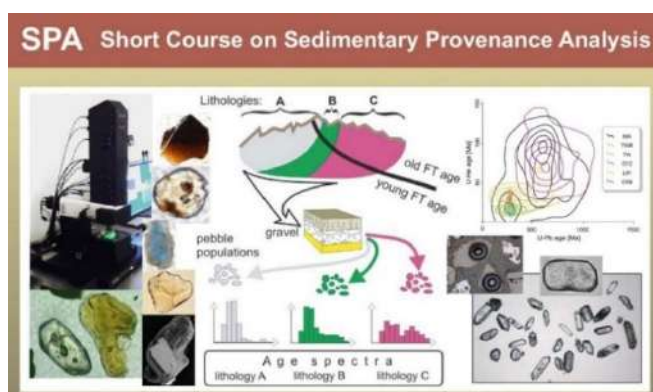
In addition to engaging sessions, participants will have the opportunity to join field trips before and after the conference and master classes.

Abstract deadline: **31<sup>st</sup> May 2025**; Registration deadline: **31<sup>st</sup> May 2025**.

**IAS Travel Grants are available!** Application deadline: **31<sup>st</sup> May 2025**.

## **Sedimentary Provenance Analysis – SPA Short Course**

8<sup>th</sup> – 12<sup>th</sup> September 2025, Geoscience Centre Göttingen, Germany



The Short Course is designed for 25 to 30 participants and previous iterations (most years since 2011) have been fully booked. It is designed for PhD-students; however, advanced M.Sc.-students and postdocs are highly welcome. Participants benefit from lectures and exercises giving a comprehensive overview on the potential of sedimentary provenance analysis for reconstructing the parent rocks of

sediments, the climatic and geomorphic conditions under which sediments formed as well as the evolution of sediment-forming processes and sediment routing systems through time and space.

**IAS Travel Grants are available!** Application deadline: **8<sup>th</sup> June 2025**.

## **Palaeoseagrass: Sedimentary Processes and Microfacies**

8<sup>th</sup> – 12<sup>th</sup> September 2025, Jardí Botànic-Museu Ciències Naturals, Sóller, Mallorca, Spain



A short course with laboratory sessions and field trip dedicated to understanding the seagrass carbonate factory, its composition and recognition, and its palaeoecological significance.

Topics will include seagrass as ecosystems, sedimentary processes, indirect Palaeoseagrass Indicators, seagrass and CO<sub>2</sub> balance in Earth history. The field trip will visit a modern seagrass meadow.

Registration deadline: **30<sup>th</sup> June 2025**.

**IAS Travel Grants are available!** Application deadline: **8<sup>th</sup> July 2025**.

## 19<sup>th</sup> Argentinean Meeting of Sedimentology

10<sup>th</sup> – 12<sup>th</sup> September 2025, Cultural Centre of the National University of Córdoba, Argentina

Under the motto “Sedimentology in the Age of Data Science,” the XIX RAS will provide an opportunity to learn, expand, and discuss this new frontier of research and implications for sedimentological investigations. This will be a unique meeting focused on exploring how data science, machine learning and deep learning can be applied to sedimentology, stratigraphy and basin analysis research. Short courses and field trips are also on offer. Registration fees have been deliberately kept as low as possible for undergraduate and postgraduate students.



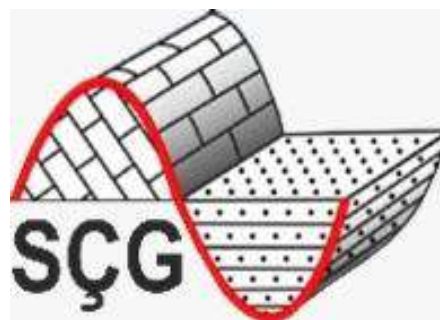
Abstract deadline: **23<sup>rd</sup> May 2025**; Early bird registration deadline: **23<sup>rd</sup> May 2025**.

## Turkish Sedimentology Working Group Workshop with International Participants 2025

11<sup>th</sup> – 14<sup>th</sup> September 2025, Dokuz Eylül University, İzmir, Türkiye

The theme of the 10<sup>th</sup> SÇG workshop is “Marine Depositional Systems and Climate Change”, with sub-themes including:

- Coastal/shelf deposits
- Coastal morphodynamics and sedimentology
- Sequence stratigraphy
- Deep marine sediments
- Sedimentary structures and soft sediment deformation
- Marine ecology
- Paleoclimate and oceanography
- Marine geophysics
- Dynamics of climate and sea level changes
- Tectonism and sedimentary processes



A field trip and cultural visits are also included.

Abstract deadline: **20<sup>th</sup> June 2025**; Registration deadline: **20<sup>th</sup> June 2025**.



## COLOS Core Logging School

14<sup>th</sup> – 18<sup>th</sup> September 2025, Holy Cross Mountains, Poland



Building on the success of the inaugural Core Logging School in 2024 (see report in IAS Newsletter from [October 2024](#)), lectures will again be held at the European Centre for Geological Education in Chęciny, with practical sessions hosted at the Central Core Depository in Chmielnik. The course will be led by distinguished experts with extensive experience in borehole core logging for both academic and industrial applications, and is open to students, postdocs, researchers, and industry professionals from around the globe.

Registration deadline: **31<sup>st</sup> May 2025.**

## MFed 2025: Microbialites – Formation, Evolution, Diagenesis

30<sup>th</sup> September – 3<sup>rd</sup> October 2025, Leibniz University, Hannover, Germany



The third iteration of this conference will address cutting edge topics in microbialite studies, bringing together a diverse mix of junior researchers and senior experts. Topics will include:

- Biofilms and their interaction with the environment
- Microbialites through deep time: Unique archives for environmental reconstructions
- Microbialites in variable geological settings: From continents to the deep sea
- Mutual impact of microbialite mineralogy and environment

There will also be interactive workshops (e.g. “*Grow Your Own Microbial Mat – The Do’s and Don’ts*”) and a field trip to the site of the first stromatolites described in the literature.

**IAS Travel Grants are available!** Application deadline: **31<sup>st</sup> May 2025.**

## 3<sup>rd</sup> International Paleolimnology and Limnogeology Symposium (IAL-IPA Joint Meeting)

6<sup>th</sup> – 10<sup>th</sup> October 2025, Aix-les-Bains Congress Centre, France

Every 3 years, IAL-IPA joint symposia celebrate research on lakes from multiple perspectives with a focus on the sediment record as both Earth System Archives and social and cultural memories of Human societies. The 2025 symposium aims at bridging the gap across a broad range of disciplines that work within the overarching theme of Earth System and Climate-Environment-Cultural changes. The programme includes many sessions with



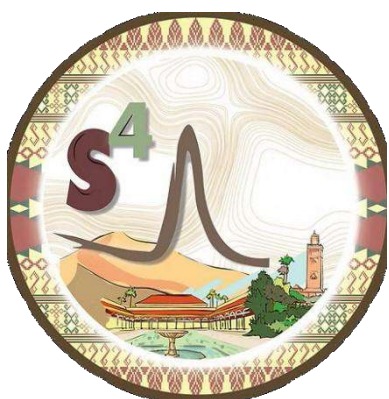
a sedimentology focus and emphasize a deep-time perspective, and/or the application of modern sedimentary processes to interpreting the rock record.

Abstract deadline: **30<sup>th</sup> May 2025**; Registration deadline: **23<sup>rd</sup> July 2025**.

**IAS Travel Grants are available!** Application deadline: **30<sup>th</sup> May 2025**.

### **S4 Summer School on Speleothem Science**

20<sup>th</sup> – 26<sup>th</sup> October 2025, Agadir, Morocco



The 6<sup>th</sup> edition of the Summer School on Speleothem Science (S4) will take place in Morocco, with activities in Ben Guerir, Agadir, and the Western High Atlas Mountains. This edition will focus on the sedimentology of North African karst systems, featuring fieldwork on Jurassic carbonate formations at the Tasroukht Plateau and a visit to Wintimdouine Cave, Africa's longest-known underground river.

Thanks to IAS support, the event will promote diversity and provide opportunities for early-career researchers, including participants from low-income countries.

### **Land-to-Sea Shaking Studies (L2S3) Magellan+ Workshop**

21<sup>st</sup> – 24<sup>th</sup> October 2025, National Taiwan University, Taipei



sedimentary records of shaking preserved in both submarine and lacustrine realms.

This workshop aims to gather international experts ranging from marine seismologists to limnologists, and students to senior scientists, to coordinate impactful future scientific endeavours and drilling proposals aimed at tracking earthquake-shaking across land-to-sea transects to enhance fundamental understanding of rupture processes, earthquake recurrence and associated hazards. Sedimentologists are fundamental for unravelling earthquake insights from

Two days of presentations and discussions will be followed by a field excursion and a final day on proposal writing.

**IAS Travel Grants are available!** Application deadline: **6<sup>th</sup> June 2025**.

## Applying for IAS Travel Grants

IAS Student Members may apply for a Travel Grant to attend an IAS-sponsored meeting. The full terms and conditions can be read [here](#), but in summary the grants contribute towards (but will not fully cover) the costs incurred in participating in the meeting. For conferences and workshops, it is a condition that the grant recipient presents a talk or poster as first author. The grant amounts depend on travel distance from place of study or residence to the meeting location, according to a set of defined categories, and they are paid after the meeting.

To apply for a Travel Grant, Student Members should log in to the member portal, then select “**Travel Grant**” in the drop-down menu under **Applications** on the left-hand side of the dashboard.

It is really important to **select the correct meeting** from the drop-down list in step 1 of the process. Download and read the guidelines, then download and complete the MS Word application form, attach the required documentation, and upload the merged files as a single pdf before the closing deadline. Once an application has been submitted it will appear in the “In progress” box of your dashboard.

### Apply for a Travel Grant

Get financial support to attend sedimentology-related meetings sponsored by the IAS.

Select the correct meeting!

- 1** Select a Travel Grant to begin  
Travel Grant\*  
Field School - CVS Goes to Hungary
- 2** Guidelines  
Download the guidelines and carefully read the document.  
Download
- 3** Application Form  
Download and complete application form (.docx).  
*Note, if travel grants for any event are over-subscribed they will be allocated to valid applications on a first-come-first-served basis.*  
Download
- 4** Save Application  
Save completed application form as a PDF file (.pdf).
- 5** Upload  
Accept terms and conditions and upload (max 2MB).  
☐ I accept the terms and conditions as described in the guidelines.  
Upload



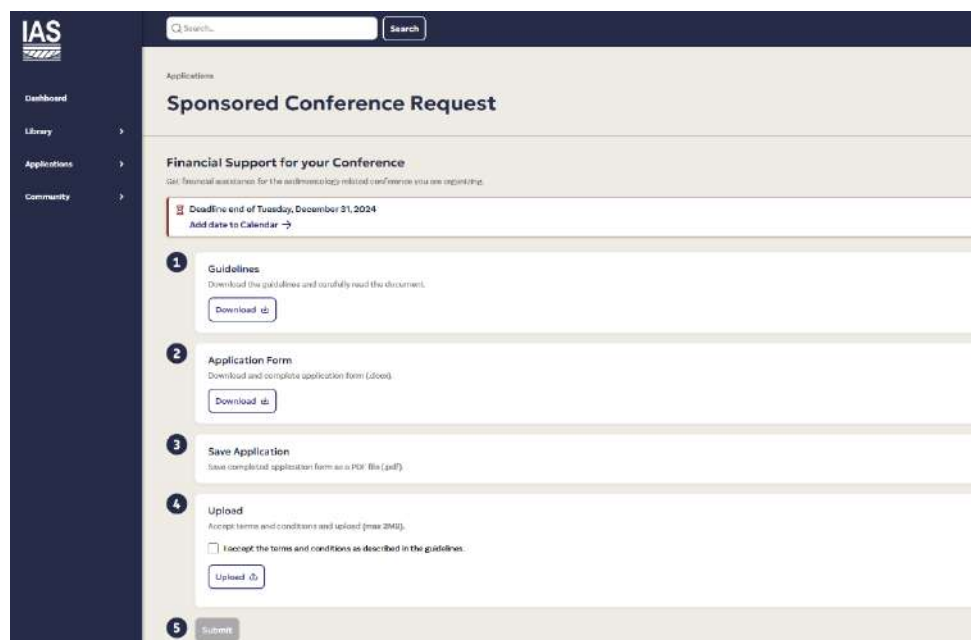
## 11. How to apply for IAS meeting sponsorship



IAS members who want to organise a sedimentology-themed conference, workshop, short course, or field excursion, are invited to apply for IAS support. The procedure is very straightforward, and applications can be submitted by Ordinary Members or by Student Members. It is expected that the event (conference, workshop, etc.) will be international in scope, and it must at least be open to international participation.



Simply log in to the member's portal from the IAS website and click on **"Sponsored Conference Request"** in the menu on the left-hand side of the screen. This takes you to a web page where you can download and read the guidelines (please do this first!), download an application form, and upload the completed form with supporting information to submit your application.



**The application must be received at least 6 months before the meeting registration deadline**, and the proposed event must not overlap with an annual IAS conference (IMS or ISC)

Support will typically be provided as IAS-funded **Travel Grants** to assist Student Members to participate in the event, and can sometimes be in the form of direct (logistical) sponsorship where the event will be a significant outreach event to help grow the Association. In both cases we will provide publicity / marketing via the IAS Newsletter, social media channels and website.

The event should have its own website that can be linked to the IAS publicity channels.

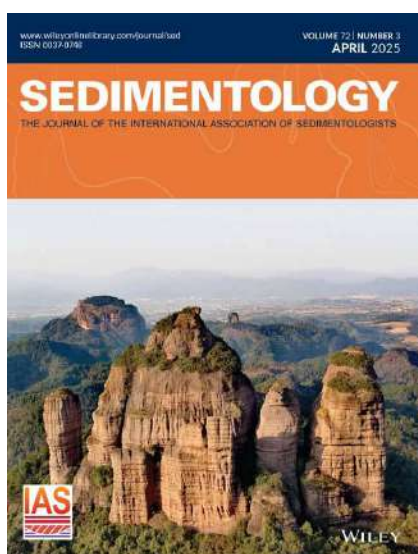
If you are interested in IAS sponsorship for your event but are uncertain if it is suitable, or just have more questions, please [contact us](#) as early as possible and we will help you as much as we can.

## 12. IAS Journals – Current Contents

Click on the journal cover images for IAS Free Member access (log in required)

### Sedimentology Current Issue (April 2025)

**Sedimentology** is the flagship journal of the IAS publishing ground-breaking research from across the spectrum of sedimentology, sedimentary geology and sedimentary geochemistry.



Testing the viability of normal seawater dolomitization in lower Cambrian carbonates using clumped isotopes

*Chaojin Lu, Fang Hao, Huayao Zou, Ardiansyah Koeshidayatullah, Cameron J. Manche, Pingping Li, Peter K. Swart*

Undulating stratigraphy of a carbonate inner ramp lagoon and associated architectural facies heterogeneity: An example from the Late Jurassic Hanifa Formation, Central Saudi Arabia

*Pankaj Khanna, Ahmad R. Ramdani, Gaurav S. Gairola, Teyyuba Adigozalova, David Hodgetts, Volker C. Vahrenkamp*

A Deccan Large Igneous Province related Maastrichtian regolith of Lameta Formation, Central India: Insights into the genesis and development of calcrete profiles and implications for palaeoclimate variability

*Vandana Kumari, Sampat Kumar Tandon, Arundhuti Ghatak, Pankaj Srivastava, Melinda Kumar Bera, Ramananda Chakrabarti*

The origin of island dolostones: Novel insights from in situ Mg isotope, major and minor elements analyses of Miocene dolostones on Shidao, the Xisha Islands

*Rong Li, Brian Jones, Wei Chen, Zhuosen Yao, Lei Shao*

Features and dolomitizing mechanisms in inner platform facies across the Permian–Triassic boundary (External Dinarides, Croatia)

*Dunja Aljinović, Sylvain Richoz, Duje Smirčić, Yanlong Chen, Galina Nestell, Ivan Jazvac, Daniel A. Petrash*

Documenting a coastal sediment routing tract in the sedimentary record: Implications for coastal palaeogeography and sand distribution patterns

*Manuel Isla, Ernesto Schwarz, Luca Caracciolo, Mariano Nicolas Remírez, Gonzalo D. Veiga, Emily Finzel*

The impact of high discharge variability on sedimentology and architecture of bar deposits in the meandering Powder River (Montana, USA)

*Riccardo Maitan, Christopher R. Fielding, John A. Moody, Alvise Finotello, Davide Tognin, Andrea D'Alpaos, Massimiliano Ghinassi*

Jurassic intercalated micrite and quartz silt lagoonal laminae: Cyclostratigraphic deposition indicative of Schwabe 11-year solar cycles

*James L. Strasen, Henry S. Chafetz*

Carbonates and microbialites record a dynamic lake basin evolution in the Late Cretaceous to Eocene Sheep Pass Formation, Nevada, USA

*Juliana Olsen-Valdez, Sarah Widlansky, Elizabeth Trower, Kathryn Snell, William Clyde*

Late Cretaceous aeolianites in South China: Implications for palaeowind systems and palaeoclimate

*Jingyu Wang, Xianghui Li, E. Troy Rasbury, Chenyu Zheng, Chaokai Zhang*

Comment: Carbonate production and reef building under ferruginous seawater conditions in the Cambrian rift branches of the Avalon Zone, Newfoundland by J.J. Álvaro and A. Mills

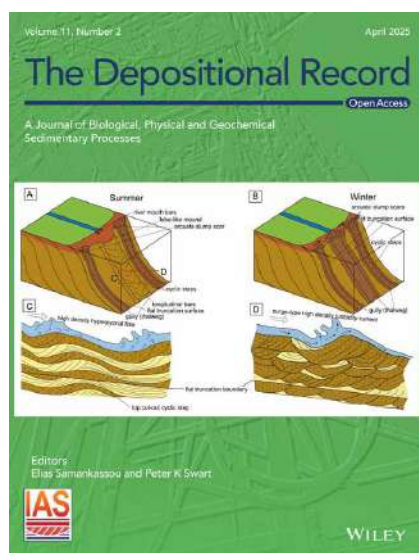
*Ed Landing, Gerd Geyer*

Reply to Comment: Carbonate production and reef building under ferruginous seawater conditions in the Cambrian rift branches of the Avalon Zone, Newfoundland by E. Landing and G. Geyer

*J. Javier Álvaro, Andrea J. Mills*

## The Depositional Record Current Issue (April 2025)

**The Depositional Record** is a **fully open access journal** publishing high quality articles from across the field of sedimentology. The journal covers all timescales, from Ancient to Modern Earth and welcomes articles that emphasise the application of sedimentary processes to the study of paleoclimate, changes in the chemical environment, ocean acidification, extra-terrestrial sedimentology, and the application of genetic methods to understanding sedimentological processes.



Facies variations in gravelly cyclic steps deposited from turbidity currents: Miocene fan delta front deposits compared with a modern active fan delta, central Japan.

*Takeshi Nakajima, Yoshiki Saito*

Testing the fidelity of zircon as a provenance indicator in fluvial-fan successions: An example from the Palaeogene Colton Formation, Central Utah, USA

*Davide Carraro, Sean P. Gaynor, Dario Ventra, Alexey Ulyanov, Andrea Moscariello*

Hydrologically sensitive carbonates: Tectonic and groundwater controls on synrift sedimentation in the Late Jurassic–Early Cretaceous of the western Cameros Basin, Northern Spain

*Nigel H. Platt, V. Paul Wright*



The influence of syn-depositional compaction on clastic sediment distribution in river-dominated deltas: A modelling study

*A. A. Valencia, J. E. A. Storms, H. R. A. Jagers, H. van der Vegt*

Coming to light: How effective are sediment gravity flows in removing fine suspended carbonate from reefs?

*Jaco H. Baas, William Hewitt, Stephen Lokier, James Hendry*

Anatomy of modern sedimentary volcanoes produced by gas-charged groundwater liquefaction, Lake Powell, Hite, Utah: Implications for the recognition and interpretation of ancient sedimentary volcanoes

*Michael C. Wizevich, Edward L. Simpson, Abigail Underwood, Laura Sherrod, Kelsey Livingston, Emily Bogner, Margariete Malenda*

Smithian–Spathian carbonate geochemistry in the northern Thaynes Group influenced by multiple styles of diagenesis

*Jordan P. Todes, Franziska R. Blattmann, Torsten Vennemann, Elke Schneebeil-Hermann, Hugo Bucher, Dan P. Razonale, Clara L. Blättler*

Evidence for subsidence rate variation in the Newark Basin and its influence on the deposition of fluvial sediments of the Stockton Formation

*Jane L. Alexander, Sean T. Thatcher, Jay Tobon, Victoria Rivelli*

Interglacial dust, ocean fertilisation and Neoproterozoic earth oxygenation

*Leandro G. DaSilva, Peir K. Pufahl, Noel P. James*

Mixed clastic-carbonate lake margin systems: An example from the Triassic of East Greenland

*Steven D. Andrews, Li Guo*

Sedimentology and reservoir characterisation of Lower Jurassic clastic sedimentary rocks, Salt and Trans Indus Ranges, Pakistan: Evidence from petrography, scanning electron microscopy and petrophysics

*Salman Ahmed Khattak, Nasar Khan, Waseem Khan, S. Sahaya Jude Dhas, George Kontakiotis, Ihtisham Islam, Hammad Tariq Janjuhah, Assimina Antonarakou*

Seasonal lake-to-air temperature transfer functions derived from an analysis of 1395 modern lakes: A tool for reconstructing air temperature from proxy-derived lake water temperature

*Alexa Terrazas, Nathan Hwangbo, Alexandra J. Arnold, Robert N. Ulrich, Aradhna Tripathi*

South American Great Basin: Limnogeological analysis of the Salina del Bebedero Basin, Argentina (Late Pleistocene-recent)

*Eimi Ailen Font, Jorge O. Chiesa, David E. Traverso*

Multi-sequential order transgressive cycles from the last interglacial to the Holocene revealed by deep-core sediment facies analysis in the Baeksu tidal deposits, south-west coast of Korea

*Serin Lim, Jin Cheul Kim, Dhongil Lim, Yongmi Kim, Tae Soo Chang*

## TDR Special Issues

The Depositional Record is currently soliciting contributions for the following special issue. Please click on the link to find out more and for author guidelines.



### Carbonate depositional environments: Past and future questions—A Tribute to the career of E.A. Shinn

Guest edited by Lee Kump, Miquela Ingalis and Albert Hine

**Submission deadline 31<sup>st</sup> May 2025**

### Beyond Boundaries: Honouring the Legacy of Judith A. McKenzie in Earth Sciences

Guest edited by Daniel Ariztegui, Stefano Bernasconi, Monica Sanchez Roman and Crisogono Vasconcelos

**Submission deadline 31<sup>st</sup> May 2025**



## Basin Research Current Issue (May - June 2025)

Basin Research publishes original, high impact research papers on sedimentary basin systems



Two Stages of Rifting Control the Crust Thinning and Basin Evolution: Insights From the Southern Qiongdongnan Basin, NW South China Sea

*Jingyuan Yu, Dianjun Tong, Chen Hu, Yancheng Xu, Jianye Ren*

Transport and Depositional Processes of Neogene Pumice Fragments in a Distal Fluvial System of the Northern Patagonian Foreland (Argentina)

*Lucas Peñacorada, Ricardo Gómez, Maisa Tunik, Silvio Casadio*

Crustal Segmentation Between Failed Rift and Successful Rifted Margin Along the NW South China Sea

*Shihao Hao, Lianfu Mei, Guangrong Peng, Lili Zhang, Jing Wu, César R. Ranero*

Seismic Geomorphology of an Early Eocene Canyon-Channel-Lobe System North of Shetlands

*Hans Jørgen Kjøll, Ivar Midtkandal, Ben Manton, Sverre Planke*

Revisiting the Stratigraphy and Structure of the Faroe Islands Flood Basalts for Large-Scale CO<sub>2</sub> Storage in Basalt Reservoirs

*Rakul Maria Ingunardóttir Johannesen, Jana Ólavsdóttir, Lars Ole Boldreel, Óluva Eidesgaard, Kim Senger, Olivier Galland*

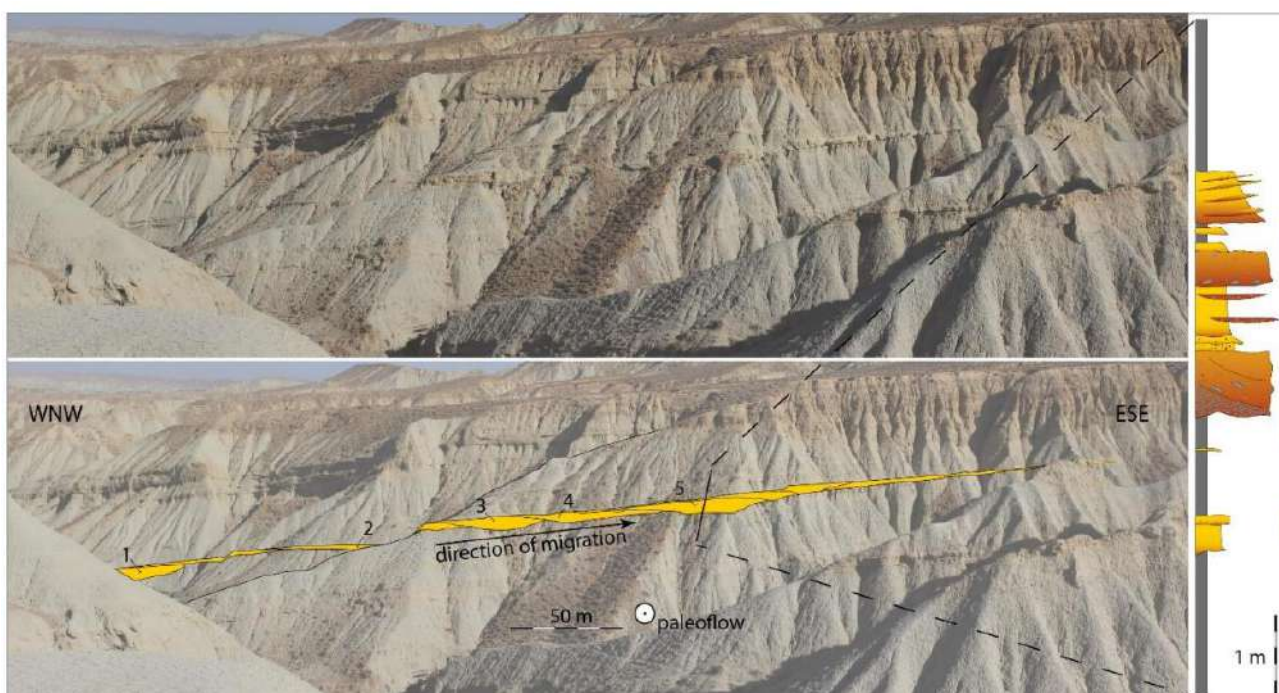
Misleading Basin Margins—Analysis of the Upper Permian Succession in the Retroarc Foreland Bowen Basin of Northeast Australia

*Jasmin Naher, Christopher R. Fielding, Mike A. Martin*

### 13. IAS Research Grant Reports

The following Postgraduate Research Grant reports have been received by the IAS Office since the last Newsletter. IAS Members can view these by following the links.

**Architectural variations and channel pathway in a slope turbidite system: a case study from the Taza-Guercif Basin (Tortonian, NE Morocco) - Moreno Pizzutto** [[LINK](#)]



*Image credit: Moreno Pizzutto*

**Comprehensive analysis of a newly discovered glacial outcrop from the LPIA: building a bridge to modern analogues - Ricarda Wohlschlägl** [[LINK](#)]

**Reconstruction of the paleoenvironmental, paleoclimatic, and palaeoceanographic conditions during the Early to Middle Miocene, Qom Basin, Central Iran - Masoud Sharifi Yazdi** [[LINK](#)]

All Postgraduate and Postdoctoral Research Grant Reports can be read by IAS Members free of charge from their [Member dashboard](#) by following the links: Library > Contributed Content - Reports. New reports will be added as they come in.



## 14. Online Resources Supported by the IAS



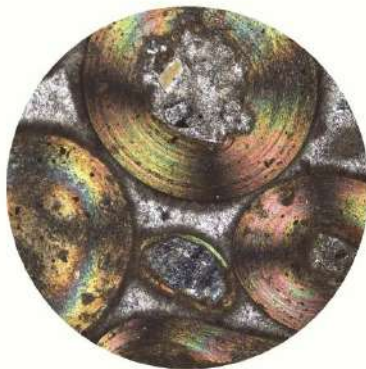
**Antarctic Glaciers** is a fabulous resource for anyone interested in global glacial processes, landforms, and sedimentology – despite the name, this site extends way beyond Antarctica. It includes a wealth of educational resources, information on climate change and sea level rise, Antarctic data sets, a blog and opportunities to “ask a scientist” about anything to do with Antarctica and glacial systems. See <https://www.antarcticglaciers.org/>



**Seds Online** is a free-to-access resource that provides an interactive, adaptable, and accessible online platform for anyone with an interest in the field of sedimentology. It welcomes members at any career stage, from both industry and academia and won the Geological Society of London R.H. Worth Award for 2023. It offers:

- Free monthly webinars on the latest sedimentology research (many of which are archived and available for viewing in a [video library](#))
- Opportunities for research students to present their work in a friendly and enthusiastic forum.
- Teaching resources and virtual conferences

Find out more at <https://sedsonline.com>, or on X at [@Seds\\_Online](#)



Carbonateworld

## A Web Tutorial for the Petrographic Analysis of Carbonate Rocks

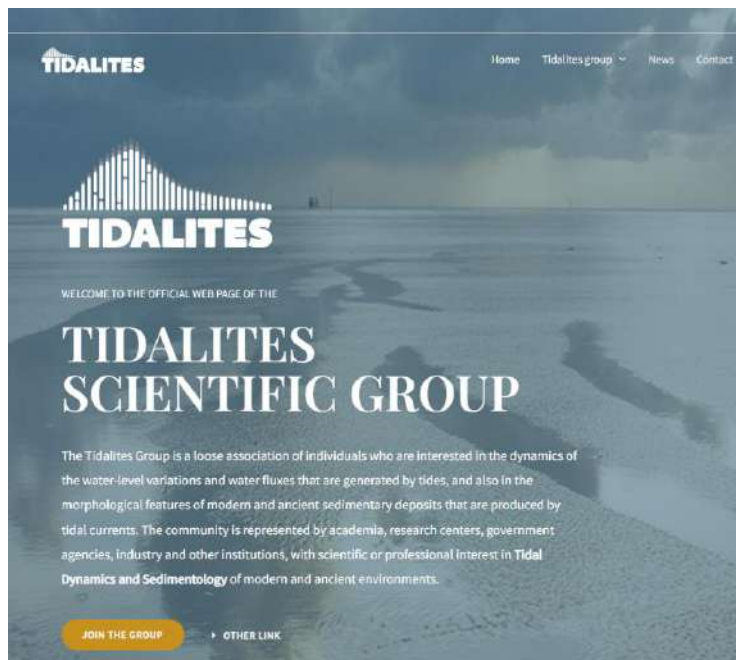
START EXPLORING



**Carbonateworld** is an online atlas with more than 800 images covering an extensive spectrum of carbonate textures, grain types, diagenetic features, depositional environments, and case studies.

The images are organised in categories and subcategories (e.g., carbonate rock classification, skeletal grains, ooids, corals, burial diagenesis etc.) and frequently updated with new material. See <https://carbonateworld.com/>

The **Tidalites Scientific Group** is a loose association of individuals who are specifically



interested in the dynamics of the water-level variations and water fluxes that are generated by tides, and also in the morphological features of modern and ancient sedimentary deposits that are produced by tidal currents. The community is represented by academia, research centres, industry, government agencies, and any other institutions with scientific or professional interest in the Tidal Dynamics and Sedimentology of modern and ancient environments.

Among the activities the Group aims to promote are the endorsement of

thematic conferences, seminars, laboratory activities, PhD opportunities and annual field courses focused on modern and ancient tidal environments, including the organization of the Tidalites congress every four years.

The IAS supports the Tidalites initiative by promoting its activities and welcoming proposals for publications arising from its events. Joining the Tidalites community is free – please follow [this link](#) to subscribe.

## Follow the IAS on Social Media

Follow the IAS on [Facebook](#), [Twitter/X](#), [WeChat](#), [Bluesky](#) and [LinkedIn](#) to keep up to date with all of the latest news, announcements and happenings.



All the **IAS Journals** are also active on “X” (former Twitter). Stay up to date on the latest news and papers in [@sedimentology](#) by following the IAS journals: [@JSedimentology](#), [@DepositRecord](#), [@BasinResearch](#).



# IAS SPECIAL PUBLICATIONS

In press:  
Volume 50



## Copy editing by

**Danielle Rushworth PhD**

[linkedin.com/in/danielle-rushworth-phd-13a5024a](https://www.linkedin.com/in/danielle-rushworth-phd-13a5024a)

[specialpublications@sedimentologists.org](mailto:specialpublications@sedimentologists.org)

## Nucleation and growth of sedimentary minerals

Edited by  
Patrick H. Meister,  
Cornelius Fischer  
and Nereo Preto

Series Editor  
Elias Samankassou

Special Publication 50  
of the International Association  
of Sedimentologists



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Classical and nonclassical models of crystal formation: conflicting but complementary.  
*Wolf, S.W.*

Review on the formation and transformation behaviour of amorphous calcium carbonate its control on environmental proxies.  
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*Tsikos, H., Jiang, C.Z., Tostevin, R., Mhlanga, X.R., Nke, A., Siahi, M. and Mason, P.R.D.*

#### MINERAL FORMATION AND ALTERATION IN DIAGENETIC SYSTEMS

Mineral surface reactions and mechanisms during sandstone diagenesis.  
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The formation of authigenic clay minerals in clastic sedimentary rocks.  
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