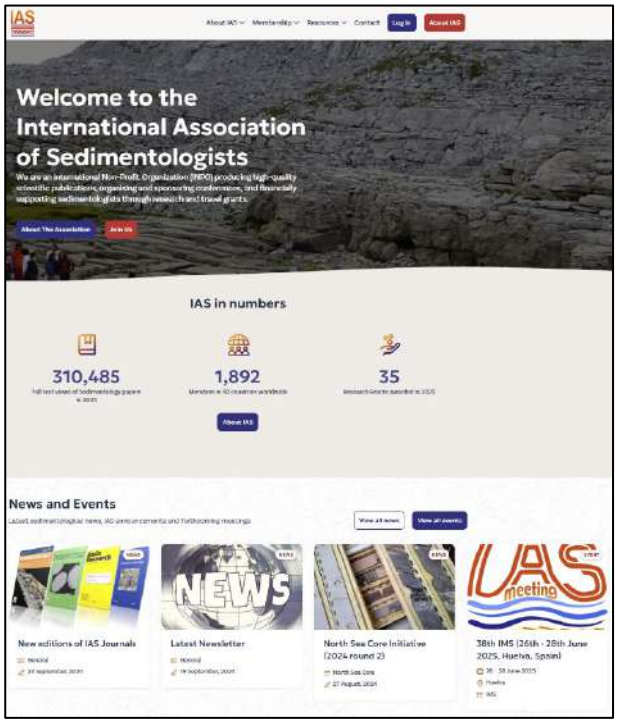
The Newsletter of the International Association of Sedimentologists

Issue 10, 2024

Dear IAS Members,

Welcome to the October IAS Newsletter. In this issue we remind you of the fast-approaching closing date of **30th November** for applications to the **11th International Summer School of Sedimentology** in NW Wales, and that you can now submit abstracts and register at a reduced "early bird" rate for the **38th International Meeting of Sedimentology** (IMS) in Huelva, Spain. The abstract submission deadline of **25th November** is also rapidly approaching, and student travel grant applications will go live on **11th November**. You have a little more time to apply for the second round of **North Sea Core** samples for teaching, with a closing date of 31st December. We are currently evaluating applications for the autumn 2024 round of **IAS Research Grants** and **International Institutional Grants**, but applications for the Spring 2025 tranche are already open.

In this Newsletter we are also pleased to bring you reports from the **37th IMS** that took place in Aberdeen, UK, last June, of the **Core Logging School** in Poland, **Turkish Sedimentology Working Group 2024 Meeting**, and of the **13th International Symposium on Fossil Algae**, all supported by the Association.



Please remember that you can access all the benefits of your IAS membership through the **new IAS website**. Simply log in and look at the menus down the left-hand side of the screen and the short cuts from your **Dashboard**: **Library** takes you to free member access to online IAS journal and book archive; **Applications** shows you any grants you are eligible to apply for as well as requests for conference sponsorship, special lecture tour hosting, and North Sea Core samples; **Community** takes you to the membership directory. To make the directory as useful as possible please remember to complete your **Member Profile** by clicking the "Profile" link under your name on the top right of the screen.

As we draw closer to the end of the year we remind you that **membership renewals will be due in January**. We will send you more information about this in due course, as there will be a change to the procedure after implementation of the new website and membership database. **New members** can join the IAS right now and their payment will see them through to the end of 2025.

With best regards,

Gonzalo Veiga

IAS General Secretary

IAS Summer School: 800 million years of Earth History in 800 km^2

The 11th IAS International Summer School of Sedimentology takes place from 4th – 12th July 2025 amongst the world-class sedimentary geology and stunning scenery of NW Wales, including the GeoMôn UNESCO Global Geopark.

Time travel may be impossible, but you can 'join a ride' with the Avalonia landmass on its journey from the southern to northern hemisphere during the Precambrian to the Last Glacial Maximum and so view 800 Ma of sedimentary and palaeoclimate history in an active plate tectonic context. You can download a flyer from **this link** and it is also attached to this Newsletter. Please share it with your students.

The Summer School is an unrivalled opportunity to meet, work together and make lifelong connections with your peers from around the world – and to be taught by expert instructors. As well as journeying in deep time you will learn about the role of geoscience in the energy transition, where NW Wales is leading the way in planning and development of clean energy resources.

Applications are open for IAS Student Members on postgraduate research courses. All you need to do is log in to your profile on the website, download and read the information document and application form, and submit your completed application (a single pdf that includes your CV, supervisor's letter of support and proof of student enrolment). **The closing deadline is 30th November 2024.**

The fee for the Summer School is **300 Euro**, covering tuition, materials, ground transportation, accommodation and some meals. Those accepted onto the Summer School will be eligible to apply for **Travel Grants** that will contribute towards the cost of their international travel to NW Wales.

38th IMS, Huelva, Spain: Time to Submit Your Abstracts and Register

The **38th International Meeting of Sedimentology** will be in Huelva (SW Spain) from **26th to 28th of June 2025**, hosted by the University of Huelva and organized by a team led by Juan A. Morales. Please **visit the meeting website** for the latest updates, see the promotional video, details about the city of Huelva, the University Campus and possibilities of travel and accommodation. Updates will also be posted on IAS social media and the IAS website, but any questions specifically about the meeting registration including request for letters of invitation should be addressed directly to the organizers using the **IMS 2025 contact form**.

The deadline for abstract submission is 25th November 2024. This is to allow time for abstract review and decisions to be made early enough to allow for visa applications (for those who need an EU entry visa) that can take several months to process. **Follow this link to submit your abstract**. The **abstract guidelines** can also be seen **at this link**.

Early-bird registration is open for the meeting with reduced rates. **Follow this link to register**. Information on proposed **field trips** can be found **at this link**, and details of **workshops** can be found **at this link**. Short courses include "*Understanding Shale/Mudstone Facies*" (led by Juergen Schieber), "*Contourites and Mixed Sedimentary Systems*" (led by Javier Hernández-Molina and colleagues), and "*Application of Subsurface Know How and Tools to Energy Transition*" (led by Marc Gil-Ortiz and Conxita Taberner). Six field trips will take place within the Betic Cordillera, Iberian Pyrite Belt, and the Doñana National Park.

Applications for **Student Travel Grants** will open on 11th November. Student members will be able to access these by logging in to the **IAS website** and looking under “Applications” on the left-hand side of the screen. Please **read the guidelines carefully** and note that the travel grant amounts are defined according to distance and are not open to subsequent negotiation.

Other **key dates** for the IMS can be found **here**.

We look forward to seeing you in Huelva!

North Sea Core for Teaching – Second Round

The IAS in collaboration with North Sea Core CIC **sponsors the distribution of core samples for teaching** from a range of depositional environments to academic institutions that do not necessarily have the funds to acquire these themselves. The scheme is open to **IAS Ordinary Members**, who apply on behalf of their institutions. Any core samples granted will remain the property of the institution to be used exclusively for teaching. Twenty (20) sets of core samples will be awarded each year, with shipping costs covered by the scheme.

Applicants will be able to select from three possible packages: **Hand Samples**, **Resinated Slabs**, or **Combination**. Details of these packages can be found **here**.

Applications are made through **Member profiles** on the IAS website, where more details of the scheme can also be found. This call for applications closes on **31st December 2024**.

Applications will be evaluated by a sub-committee of the IAS Council of Management and NSC. Strong preference will be given to institutions that are financially or logistically unable to acquire these sets or similar materials themselves, and where the core samples will be most extensively utilised and strongly benefit the teaching programme.

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.

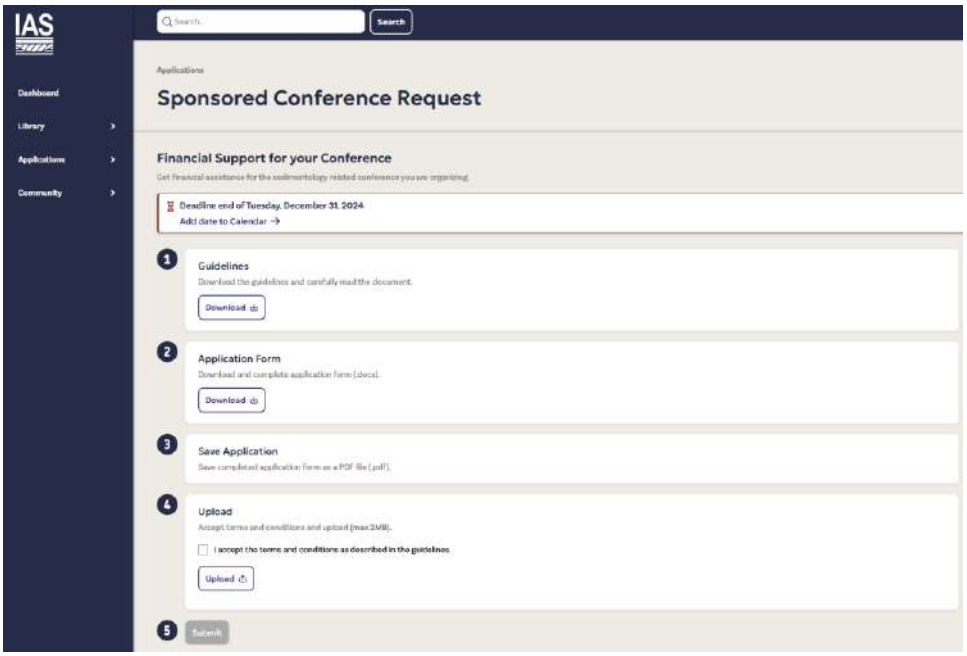
@sedimentology and IAS沉积学之家

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**.

Organise a Sedimentology Meeting – with IAS Support

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!

Simply log in to your member profile on 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.



There are just a few guiding principles to keep in mind:

- Applications can be submitted by Ordinary (full) Members or by Student Members
- 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)
- It is expected that the event (conference, workshop, etc.) will be international in scope, and it must at least be open to international participation
- 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.

IAS Research Grants – Spring 2025 Round is Open

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.

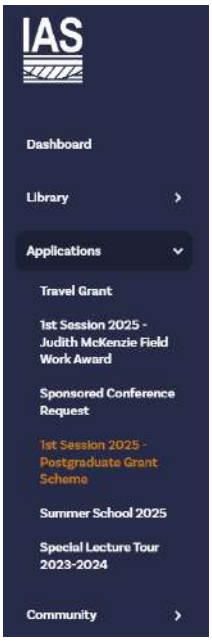
The application process is simple and the success rates are high, compared to many other funding sources. In recent years the typical approval rate has been in the range of 30 – 70%.

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. This is expected to be within 1 year of the award. 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
Judith McKenzie Fieldwork Award	MSc (by research) students	5 grants each of **300 Euro**	31st March and 30th September
Postgraduate Research Grants	PhD students	10 grants each of **up to 1,000 Euro**	31st March and 30th September
Postdoctoral Research Grants	Early career researchers within 7 years FTE of PhD award	4 grants each of **up to 2,500 Euro**	31st March and 30th 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).

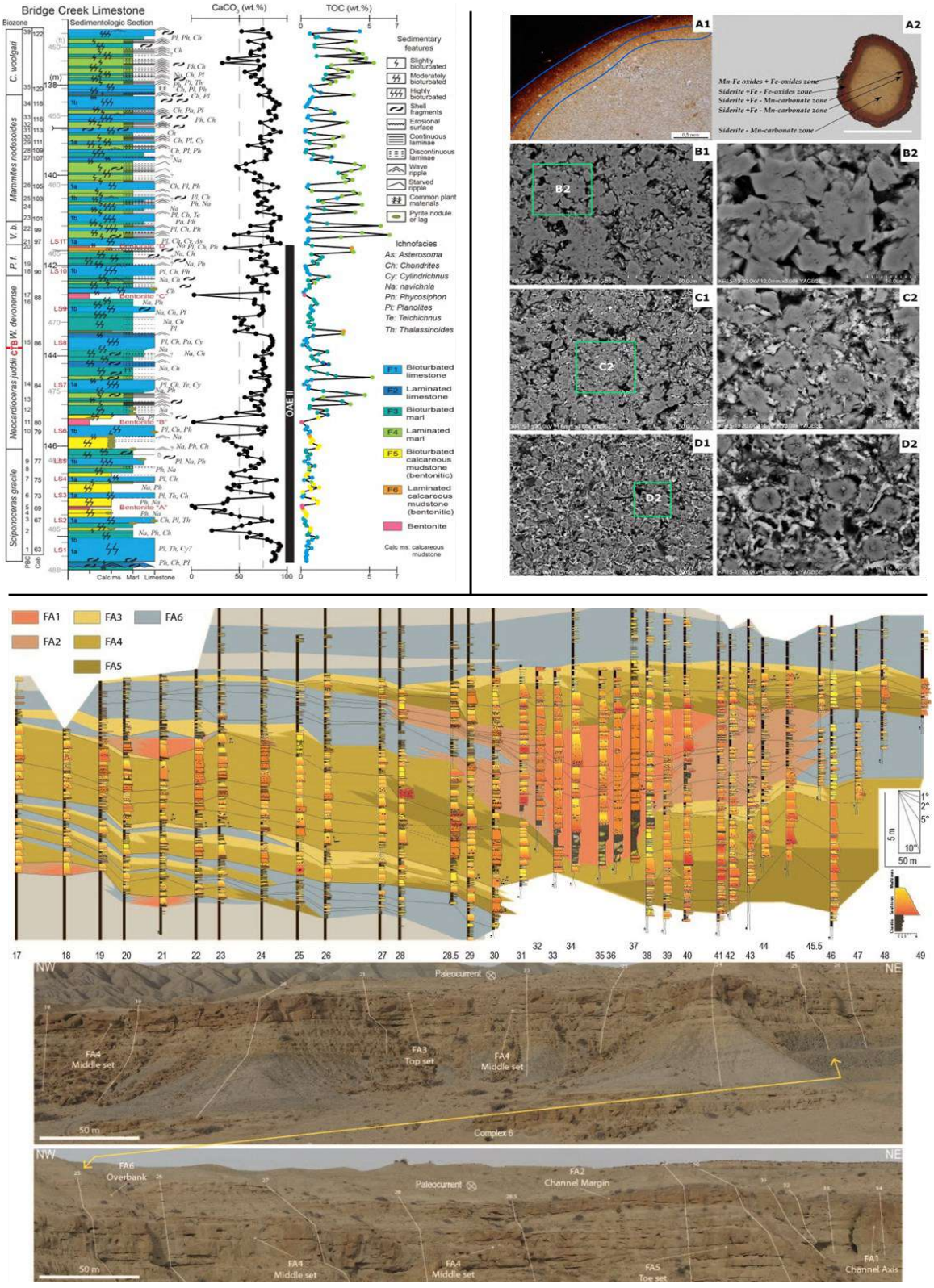
Please download and **carefully read** the guidelines.

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 are 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 more "*research in action*" photographs) that we can share on the IAS website, Newsletters and social media.



(Example IAS research grant output, image credits: Zhiyang Li, Anna Spadlo, Daniele Invernizzi)

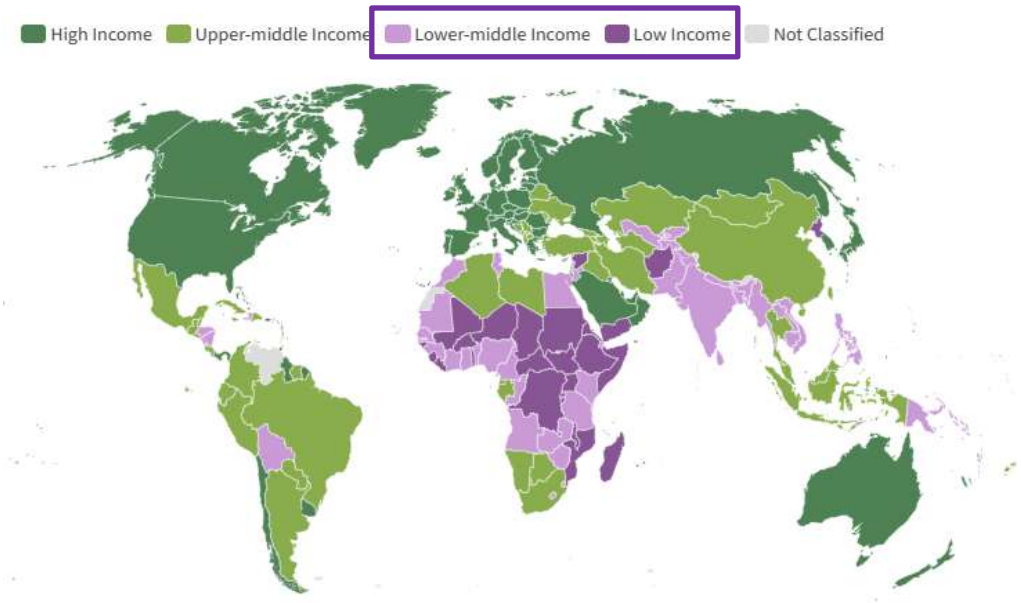
The next deadline for all Research Grant applications is 31st March 2025

IAS International Institutional Grants

The IAS offers twice-yearly **International Institutional Grants** to assist Earth Science departments in low and lower-middle income countries (as defined by the World Bank – see map below) 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**.

The scheme is simple. IAS Ordinary (full) Members apply on behalf of their institutions / 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. More information is available via IAS Regional Correspondents for applicant's countries or via the **website contact form**. 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!**



If you are an IAS member in one of the mauve countries in the map, you may be eligible to apply for an Institutional Grant on behalf of your institute / university department.

The next deadline for Institutional Grant applications is 31st March 2025

22nd International Sedimentological Congress, Aotearoa New Zealand

The 22nd International Sedimentological Congress (ISC) will be held in Te Whanganui-a-Tara Wellington on **25th – 30th January 2026**. Please see the **conference website**, a **welcome video** from the Committee, and join a **mailing list** to receive updates.

The Congress theme is **Sedimentation on active plate margins through time and space** and aims to cover a wide range of topics related to active margin sedimentation as well as a wide variety of other sedimentology themes.

The organizers are keen to hear from any companies interested in becoming a **sponsor or exhibitor** at the ISC, which is the pre-eminent global-scale sedimentology conference that typically attracts more than 1000 delegates. Please email **isc2026@confer.co.nz** to receive a copy of the sponsorship and exhibition prospectus.

There will be a wide range of truly exceptional **field trips** on offer. See the **August Newsletter** for details of some of these, and more will be described in future issues. Abstract submission is planned to open in January 2025 and registration from March 2025.

We look forward to welcoming all of you to New Zealand in 2026!

Conference Report – 37th International Meeting of Sedimentology

More than 550 people attended a very successful and enjoyable conference in Aberdeen in late June 2024.

The first events were workshops and fieldtrips. These included workshops on Classic Cores of the North Sea run by North Sea Core (www.northseacore.co.uk); Ichnology run by Dirk Knaust of Equinor; Virtual Outcrops run by John Howell and Jess Pugsley of the University of Aberdeen; Geophysics for sedimentologists run by Bartek Kurjanski of the University of Aberdeen; Deepwater Clastic Sedimentology run by Adam McArthur of the University of Leeds; Digital Core run by Olivier Lopez and Beate Louise Stølen Olsen of Equinor; and Image Log Analysis run by Craig Buchan of Task Fronterra Geoscience.

Henk Kombrink and some of the participants on the Classic Cores of the North Sea workshop.

Amongst a full field trip programme , excursions prior to the conference included visiting the billion-year-old fluvial sediments of the Torridonian in the NW Highlands (run by Neil Davies and Will McMahon of Cambridge University); and the Devonian – Carboniferous of South East Scotland including Siccar Point (run by Tim Kearsey of the British Geological Survey).

Photo taken on the Torridonian fieldtrip (Adrian Hartley on the right).

The networking started with a well-attended icebreaker in the magnificent Aberdeen Art Gallery, followed by three packed days of science, interaction and fun at the P&J Live conference centre.

Rather than having a call for sessions in advance, the organisers put together the sessions based on the abstracts submitted. Some of the sessions were of the familiar, traditional format such as “deep marine clastic systems”. Other sessions collated topics that touched on life, environments and climate as they developed through earth history, running from oldest to youngest over the three days of the meeting. There were applied sessions too, including on the very topical theme of geoscience and the energy transition. In addition there was a special session in memory of Judy Mackenzie, touching on topics such as sabkhas, dolomite and microbial carbonates. The overall list of topics was:

- Lacustrine systems
- Shallow marine clastic systems
- Tidal systems
- Deep marine clastic systems
- Carbonates
- Special session for Judy Mackenzie (sabkhas, dolomite and microbial carbonates)
- Carbonate diagenesis
- Geoscience and the energy transition
- AI Methods and technology in sedimentology
- Siliciclastic diagenesis
- Evaporites
- Source to sink
- Fluvial systems
- Aeolian systems
- Ichnology
- Seismic sedimentology
- Reservoir characterisation

Feedback was generally that this approach of compiling sessions from the submitted abstracts worked well, with several positive comments from delegates who were inspired by talks and posters that they would not normally have seen if we had stuck to ‘traditional’ sessions. All of the sessions were reported to be well-attended with enthusiastic and engaged audiences.

There were four keynote talks, starting with Prof. Sanjeev Gupta talking about the different sedimentary histories of Gale and Jezero Craters on Mars. Next was Prof. John Underhill, talking about geoscience and the energy transition, followed by Prof. Emese Bordy talking about the sedimentology of South Africa. The final invited keynote was given by Prof. Anneleen Foubert, on the sedimentology of the Afar Rift. Recordings of the keynote talks are being posted to **SedsOnline**. Also free to view on that platform is a recording of the **SedsOnline Great Debate Live**: a very lively and well received discussion on the pointlessness of mud!

The recipients of the IAS medals and awards also gave talks. These included Marta Marchegiano who received the Early Career Scientist award; David Kemp and Jitao Chen who won the Sun Shu Research Prizes; and Chao Li who was awarded the Johannes Walther Medal.

Top left – Chao Li; Bottom left – Jitao Chen; Top right – Marta Marchegiano; Bottom right – David Kemp.

A majority of the sessions were co-chaired by early career scientists who answered an open call, plus several associate editors of *Sedimentology*, and they all proved themselves up to the challenge. Many thanks to all those who volunteered!

Social events included a Conference Dinner followed by highland dancing in the Beach Ballroom, attended by over 200 delegates, and an early career scientists party at Brew Dog in the city centre of Aberdeen.

The conference dinner in the Beach Ballroom.

Following the conclusion of a very successful 3 days at the P&J Live, there were repeat editions of the workshops on the 28th June, plus additional field trips to the Mesozoic successions and structure of the Moray Firth (led by John Underhill of Aberdeen University and Ian Sharp of Equinor), the Middle Jurassic paralic deposits of the Isle of Skye (run by Ron Steel of UT Austin and Stuart Archer of Harbour Energy), the continental Siluro-Devonian of the Midland Valley of Scotland (led by Adrian Hartley and Steve Adams of Aberdeen University), the Carboniferous cyclothems of the Kingdom of Fife (run by Catherine Rose of St Andrews University), and the Cryogenian glacial deposits of the Garvellach Islands (run by Doug Benn of St Andrews University and Ian Fairchild of Birmingham University).

Garvellach Islands trip (image from Bartek Kurjanski).

John Underhill and participants of the North Sea stratigraphy fieldtrip at Clashach Cove

Overall this was a highly successful conference thanks to the many, many hours of preparation. Sincere thanks to all involved, and to everyone who participated for coming – we very much enjoyed having you here in Aberdeen and hope that you return to Scotland (for geology or for a holiday) in the future!

Alex Brasier, Chair of the Organising Committee

Conference Report – Turkish Sedimentology Working Group SCG-2024

SCG-2024, the **Turkish Sedimentology Working Group (SCG-2024) Workshop with International Participants**, was organized on 5th – 8th September 2024 on behalf of the SCG and Munzur University. SCG-2024 and took place at Munzur University Congress Cultural Center, Tunceli-Turkey. The organizing committee of the Workshop were Muhammed Sami Us (Chair, Munzur University, Turkey), Erkin Başaran (Sekretary, Munzur University, Turkey) İsmail Ömer Yilmaz (Middle East Technical University, Turkey), Raif Kandemir (Recep Tayyip Erdoğan University Turkey), Yakup Çelik (İstanbul University, Turkey), Alper Gürbüz (Ankara University, Turkey), Calibe Koç-Taşgin (Fırat University, Turkey), Cüneyt Bircan (Balıkesir University, Turkey), Ezher Tagliasacchi (Pamukkale University, Turkey), M. Korhan Erturaç (Gebze Teknik University, Turkey), Mehmet Özkul (Pamukkale University, Turkey), Serkan Üner (Van Yüzüncü Yıl University, Turkey), Merve Özyurt (Karadeniz Teknik University, Turkey), Oğuz Mülayim (Turkish Petroleum Corporation, Turkey), Ercan Aksoy (Fırat University, Turkey), Onur Alkaç (Fırat University, Turkey), Fatih Köroğlu (Ankara University, Turkey), Zekeriya Koinurhan (Munzur University, Turkey).

On the 5th and 6th of September, the organizer offered an ambitious program around the theme "**Strategic Sedimentary Raw Material**s," emphasizing the critical role of sedimentology in contributing to knowledge of strategic and critical importance in economic geology. The sophisticated and inspiring scientific program, including seven keynote speakers, 41 oral presentations, and five

poster presentations, was conducted at the Munzur University Congress Cultural Center. Keynote speaks were; (1) *Occurrences of Lithium-Containing Minerals and Türkiye's Lithium Potential* (presenter: Yusuf Kağan Kadioğlu), (2) *Ore Mineralizations In Marine Environments and Their Significance For Critical Elements* (presenter: Emin Çiftçi), (3) *The Role and Importance of Critical Raw Minerals In Strategic Sectors and Technologies: Possible Opportunities for Türkiye* (presenter: Okay Çimen), (4) *Deep Sea Environments and Rare Earth Element Deposition Processes* (presenter: Hüseyin Öztürk), (5) *Bauxite Deposits of Türkiye and Their Critical Element Content* (presenter: Nurullah Hanilçi), (6) *The Presence of a Late Cretaceous Isolated Carbonate Platform With Rudists in The Central Tauride. Stratigraphy, Lithofacies and Depositional Environments* (presenter: Sacit Özer), and (7) *Advances in Quaternary Dating Techniques: U-Th Dating and Beyond -A Cenieh Approach* (presenter: Altuğ Hasözbek). In this context, the abstract book, including the detailed program, was published and archived under the SCG-2024 segment on the **Turkish sedimentology working group's website**. Participants and speakers also discussed a wide range of topics in sedimentology in themed sessions, coffee breaks, and gala dinners (Figs. 1a-f and Figs. 2a-f).

Some 120 registered participants from different parts of Turkey attended the SCG-2024 workshop (Figs. 1a-f and Figs. 2a-f). This included 90 academics, 35 graduate and undergraduate students, 3 petroleum scientists from Turkish Petroleum operations, many other geologists from private companies and states, and retired sedimentologists. SCG-2024 offered several grants (cash, participant fees, three-day lunches, two-day dinners and gala dinners, transportation expenses for the Tunceli city tour and geological field trip expenses, and many other expenses).

Four undergraduate students were granted gold sponsorships (full packet), 30 early career scientists, graduate students, and retired academics were granted silver sponsorships (participant fee, three-day lunches, transportation expenses of geological field and social tour, one-day dinner, gala dinner) and the rest of 50 academics were granted bronze sponsorships (three-day lunches, one-day dinner, gala dinner, transportation expenses of geological field and social tour). The IAS support provided full packages to 4 graduate students with an opportunity to attend workshops and experience field trips (Figs. 1f and 3e-f).

On the 7th of September, an attractive geological field trip focussed on Munzur Valley National Park and its fascinating geology. The locations visited were: Munzur University Campus Entrance-Sarı Saltuk Viaduct for examination of travertine-tufa deposits and local deformations; field investigation of marine sediments (Tunceli Formation) on the Munzur University- Tunceli Commando Brigade highway; Tunceli-Pülümür Highway for examination of mineral-carbonated-gaseous cold water springs; the entrance to Munzur Valley National Park from the Tunceli-Ovacık route and Ana Fatma location for mineral water springs; Munzur Valley National Park for Halvori Springs and the Laç Creek Canyon - Munzur Stream - Vank Bridge fault ridge; Ovacık pull-apart basins; Karagöl stream young glacial deposits and moraines; Ovacık-Munzur Springs; observation of the Ovacık Fault Zone and Ovacık sand dunes. These localities were guided by Prof. Dr. Calibe Koç-Taşğin and Dr. Muhammed Sami Us (Fig. 3a-f)

On the 8th of September, The SGG-2024 workshop concluded with social and cultural activities of Tunceli City (Turkey). A 4-hour tour of Tunceli city included several of the best locations, such as Tunceli Museum, Tunceli city center, Munzur River, and Tunceli Millet Bahçesi Park (Fig. 3a-e).

Fig. 1. *(a) Participants in registration on the 5th of September, (b-c-d) Opening talks with Dr. Muhammed Sami US, Prof. Dr. İsmail Ömer YILMAZ and Rector of Munzur University Prof. Dr. Kenan PEKER, (e-f) Group photos of participants in the Munzur University Congress Cultural Center.*

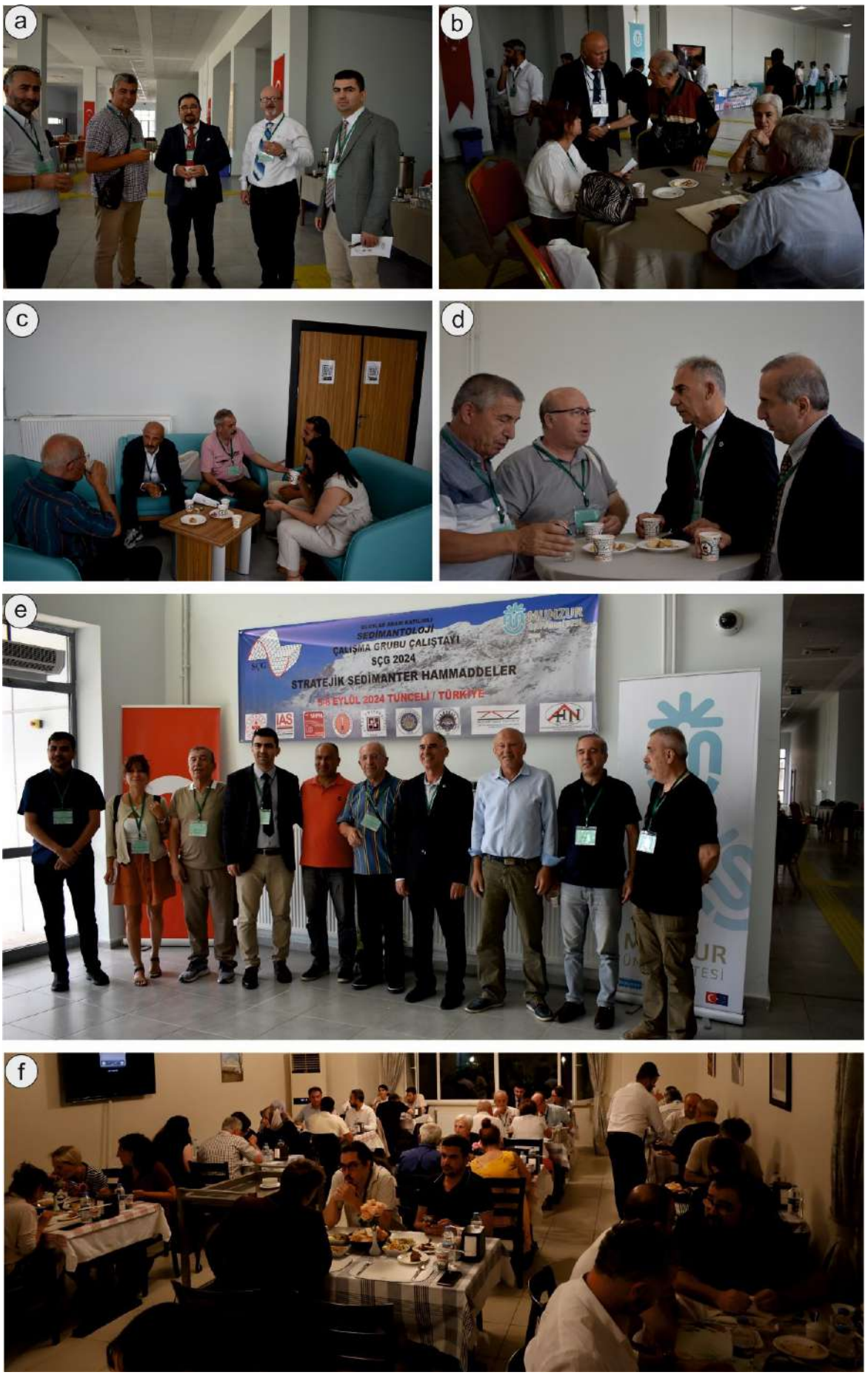


Fig. 2. *(a-b-c-d) Participants discussed interesting topics in sedimentology during the coffee breaks, (e) One of the group photos of participants in coffee breaks, (f) Participants in gala dinner.*

Fig. 3. (a-b-c-d Participants discussed interesting topics in sedimentology during the field trip, (e-f) Some of the group photos of participants on the field trip.

Fig. 4. (a) Group photo of participants in front of Tunceli Museum, (b-c) The participants visiting the collections in the museum, (d) While participants listen to short presentations about the museum, (e) photo from the exhibition of the museum garden.

The Turkish Sedimentology Working Group 2024 Workshop (SCG) with international participants, organized each year, gathers participants to share the most recent studies in the field of sedimentology. We believe that SCG-2024 provided great opportunities for (1) networking and collaboration, (2) notable experience of field study of Strategic Sedimentary Raw Material successions, and (3) carrying on the social and cultural spirit of Tunceli as one of the beautiful city of Turkey. We thank a lot for the keynote speakers, all participants, organizing and scientific committees, and sponsors. Financial support from the IAS was very welcome; **many thanks, IAS!!!**

Merve Özyurt, IAS Regional Correspondent (Türkiye) and Executive Member of the Turkish Sedimentology Working Group

Conference Report – 13th International Symposium on Fossil Algae

Photographs show the symposium participants, the field trip to the Capo Colonna Pleistocene marine terrace and field discussions on the Belcastro microbialites.

The 13th International Symposium on Fossil Algae of the IFAA (International Fossil Algae Association) was held at the Pélagos – Museo del Mare in Le Castella (Isola di Capo Rizzuto, Crotone) from 2nd to 6th September 2024. The scientific topics addressed included all aspects of geobiological, palaeobiological, biostratigraphic, and paleoenvironmental research related to calcareous algae and microbialites, including biological evolution, present and past biogeography, paleoecology, and the sedimentogenic and habitat-forming role of calcareous algae.

The Symposium was organized by the University of Milan-Bicocca, Department of Earth and Environmental Sciences, in collaboration with the Province of Crotone, which manages the Marine Protected Area of “Capo Rizzuto”; the Aragonese Fortress of Le Castella, and the Pélagos Sea Museum.

Thirty participants from all over the world attended the conference, with representatives from

scientific institutions in Australia, China, France, Germany, India, Mexico, Romania, Spain, Switzerland, and the USA, as well as several Italian universities and CNR (National Research Council).

Following the symposium, three scientific excursions were organized, dedicated to algal reefs and rhodolith beds of the Pleistocene marine terraces of MIS3 and MIS5.1 outcropping in the Crotone peninsula, and to the Pliocene microbialites of Belcastro. The organization of the field trips would not have been possible without the valuable support of the IAS.

The field trip guide and the abstract book are **available at this link**.

Report from the First Core Logging School (COLOS)

The Polish Geological Society successfully held the 1st edition of the Core Logging School (COLOS) from September 15th to 18th in the Holy Cross Mountains, Poland. The primary goal of the school was to provide participants with both the theoretical foundation and practical skills in sedimentological borehole core logging. Borehole cores offer crucial insights into deposit-bearing successions, climate change, natural disasters, and even the origins of life, making this event highly appealing to geologists from diverse fields, including geosciences, mining, and environmental science.

Twenty two participants at various stages of their professional careers, attended the school. The COLOS programme combined lectures on methods, case study applications, and practical exercises. Theory sessions were held at the European Centre for Geological Education in Chęciny, while the two-day practical component took place at the Central Core Depository in Chmielnik. Participants worked on two siliciclastic formations: fine-grained the Ludlow Kociewie Formation from the East European Platform and the Miocene Machów Formation from the Carpathian Foredeep. These strata, deposited as shelf-margin deltas and submarine fans, exhibit significant sedimentological variations, providing excellent material for practical logging exercises and discussions.

The school was led by four highly experienced instructors: Piotr Dziadzio, Artur Kędzior, Szczepan Porębski, and Marek Wendorff. Each instructor brought a wealth of knowledge from their work in various regions of the world, encompassing both scientific research and industrial projects. Their expertise, coupled with a strong commitment to sharing practical experience, contributed significantly to the success of the event.

Owing to the limited number of places available for participants due to personalized one-to-one approach during practical exercises, not all applicants could have been accommodated this year. Consequently, plans are already in motion to host a second edition of the Core Logging School (COLOS) next year.

Artur Kędzior, Joanna Pszonka, Krzysztof Starzec; COLOS Organisation Team

Theoretical session was held at the European Centre for Geological Education in Chęciny.

Practical part of the school began with an introduction to the Ludlow Kociewie Formation and the Miocene Machów Formation, the Central Core Depository in Chmielnik.

The Ludlow Kociewie Formation from the East European Platform, deposited as shelf-margin deltas.

Working in small, focused groups is crucial when developing core logging skills.

Consulting observations with instructors and fellow participants proved to be essential.

Participants, instructors and organizers of the 1st Core Logging School COLOS.

The organizers, instructors and participants of the 1st Core Logging School would like to express sincere gratitude to the International Association of Sedimentologists for the sponsorship. Your support was instrumental in making this event a success and provided invaluable opportunities for hands-on learning and professional development. Thank you for helping us foster knowledge and collaboration in the field of sedimentology.

Conference Report – 2nd CAMASED Meeting of Cameroon Sedimentologists

Please see the report from our Cameroon Regional Correspondent on the next page!

Forthcoming IAS International Meetings

In **2025** the **38th IMS** will be on 26th – 28th June in **Huelva**, Spain

In **2026** the **22nd ISC** will be on 25th – 30th January in **Wellington**, Aotearoa - New Zealand.

In **2027** the **39th IMS** will be on 14th – 16th June in **Çeşme/Izmir**, Türkiye.

In **2028** the **40th IMS** will be in **Patras**, Greece (dates to be confirmed).

The IAS Council of Management welcome offers to host the next ISC in **2030**. if you are interested and wish to discuss further please use the **contact form** to let us know.

Short Course Announcement

A Summer School on **Gravity Currents in the Environment** will be held in Udine, northern Italy, 26th - 30th May 2025. It is an interdisciplinary course sponsored by Centre International des Sciences Mechanique and International Union of Theoretical and Applied Mechanics, but with a strong sedimentological bias. Further details will be posted at **this link** or be available from Ben Kneller at Aberdeen University.

IAS REPORT OF THE CAMASED-2-IAS CONFERENCE HELD AT THE UNIVERSITY OF BUEA, DEPARTEMENT OF GEOLOGY, 25TH & 26TH OCTOBER 2024

CONFERENCE TITILE "SEDIMENTOLOGY WITHOUT BORDERS"

The Second Edition of CAMASED-2-IAS conference titled sedimentology without Borders was held in the South West region of Cameroon, at the University of Buea on the 25th to the 26th of October 2024. This conference brought together 58 participants from different universities in Cameroon and 03 participant from a Petroleum training company known as Geosavers, and 01 participant from Bostwana and Nigeria respectively.

Fig. 1. Photo of panel members, lecturers of other universities, their students and the HOD for the department of Geology, University of Buea.

Thirty (30) abstracts were received from both non-IAS members and IAS members with 10 abstracts submitted by IAS sponsored postgraduate students. The conference also had special lectures to help registered post graduate students and researcher who did not submit any abstracts but were willing to attend.

Fig. 2. Photo of panel members, taken down notes and jotting points during abstract presentations. LIft (Dr Estelle Ndome, University of Yaoundé I), Middle (Dr Etutu Mary Ewokolo, Coordinator, Department of Geology, university of Buea), Right (Dr Basua A.A Emmanuel, Lecturer, Department of Geology, university of Buea)

Special lectures on specific topics and their respective presenters are seen below;

1. Open access publishing: Advantages and disadvantages by ***Dr Basua. A.A Emmanuel, Department of Geology, University of Buea***
2. Sedimentary Facies Characterisation and depositional environment ***by Prof John Eyong Takem, Department of Earth Sciences, University of Yaoundé I***
3. Modification in clastic sedimentary Geochemistry ***by Dr Bokanda Ekoko Eric, Department of Geology/Department of Chemical and Petroleum Engineering, University of Buea***

Fig. 3. Photo of IAS grantees for CAMASED-2, 2024 with regional correspondent Dr Bokanda Ekoko Eric (centre).

The students sponsored by IAS to attend the CAMASED-IAS submitted and presented their abstracts under the following topics:

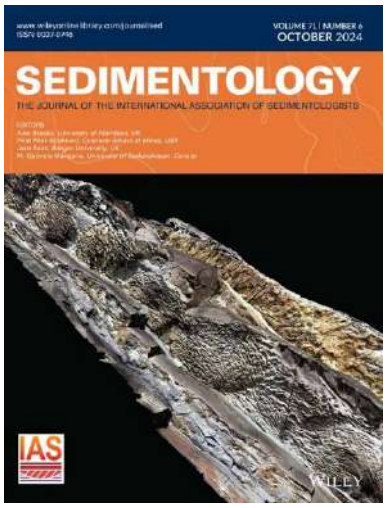
1. **Frankline Besonge Bokanda:** Sedimentological characterization of the silcretes of the Makgadikgadi pans (Botswana): Implication for life on Mars
2. **Chin Thierry Berinyuy:** Geochemical characteristics of Tiko mangrove core sediments, South West Cameroon: Implication for depositional environments and oxidation conditions.
3. **Matombo Hewett Ekumeli:** Organic geochemistry of black shales in nanga bodoua and environs north of kribi campo sub-basin, south Cameroon.
4. ***Franklin Ikose Barake:*** Provenance, Tectonic Setting, source area weathering, and paleoclimatic characteristics of Sandstones in the Mayo Rey Sedimentary basin North, Cameroon.
5. **Odilia Kah Sih:** Organic petrography and trace element geochemistry of organic black shales in the Kribi Campo sub-Basin, West Africa.
6. **Fedrick Likanjo Likanjo:** Inorganic geochemistry of clastic rocks in Bokombe and environs, South Cameroon
7. **Emmanuel Eseya Mengu*:*** *Geochemical characterization of stream sediments from River Mbété Loum: Implication for heavy metal pollution assessment*
8. **Rexon Anyeku Njeck Junior**: Organic Petrography and Rock Eval Pyrolysis of Black Shales in Bokombe, South of the Kribi Campo Sub-Basin, South Cameroon
9. **Shannon Nfor Ngwakfu:** Geochemistry of sand along the coastal beaches of the Mundeckformation and River Ntem, south Cameroon
10. **Ajoacha Atemnkeng Randibell**: Contamination, sources and risk assessments of heavy metals in beach sediments of Tiko and its environs, Southwest Cameroon

At the beginning of the conference, the regional correspondent throw highlights on the importance of being a students and full member of IAS. The benefits students gained from being a member ranging from grants that can help them in their research.

The Regional correspondent Dr Bokanda on the closing remark highlighted the micro drilling machine donated the University of Yaoundé 1 in 2021 and the 10 optical microscopes donated to the University of Buea in 2023 and core samples from the North sea donated by the IAS for teaching and practical lessons to the University of Buea. ***Special thanks goes to Dr Eli Menkem for the financial support for***

IAS Journals – Current Contents

Sedimentology Current Issue (October 2024)



Flow-induced interfacial deformation structures (FIDS): Implications for the interpretation of palaeocurrents, flow dynamics and substrate rheology

Jeff Peakall, James L. Best, Jaco H. Baas, Paul B. Wignall, David M. Hodgson, Piotr Łapcik

Diagenetic dolomite in planktonic foraminifera on the Australian Northwest Shelf

Song Zhao, Katharine M. Grant, Bradley N. Opdyke, Ulrike Troitzsch, Ian S. Williams

Microbial dominated Ca-carbonates in a giant Pliocene cold-seep system (Crotone Basin – South Italy)

Edoardo Perri, Mario Borrelli, Ulrich Heimhofer, Bruno Umbro, Pierluigi Santagati, Emilia Le Pera

Freshwater microbial mud: Punctuated diagenesis during marine transgression in the Florida Everglades, USA

Chelsea L. Pederson, James S. Klaus, Donald F. McNeill, Peter K. Swart

Primary microfossiliferous chert in the Aptian Barra Velha Formation

Kelsey R. Moore, Antoine Crémière, Theodore M. Present, Andrew Barnett, Kristin D. Bergmann, Joachim Amthor, John Grotzinger

The latest Jurassic–earliest Cretaceous climate and oceanographic changes in the Western Tethys: The Transdanubian Range (Hungary) perspective

Damian G. Lodowski, Ottilia Szives, Attila Virág, Jacek Grabowski

Deep learning-based grain-size decomposition model: A feasible solution for dealing with methodological uncertainty

Yuming Liu, Ting Wang, Tao Wen, Jianguang Zhang, Bo Liu, Yue Li, Hang Zhang, Xiaoqing Rong, Long Ma, Fei Guo, Xingxing Liu, Youbin Sun

Helium-isotope constraints on palaeoceanographic change and sedimentation rates during precession cycles (Cenomanian Scaglia Bianca Formation, central Italy)

James R. Lucas, Sietske J. Batenburg, Darren J. Hillegonds, Jennifer C. Mabry, Hugh C. Jenkyns, Chris J. Ballentine, Stuart A. Robinson

A typical point bar with atypical strata in the McMurray Formation, Alberta, Canada: Floods, tides and high suspended sediment concentrations

Milovan Fustic, Piret Plink-Björklund, Alina Shchepetkina, Rudy Strobl

Stacking pattern transition caused by submarine channel inception and internal levée development

Sebastian A. Kaempfe-Droguett, Brian W. Romans, Stephen M. Hubbard, Benjamin G. Daniels, Lisa Stright

Bedload transport and deposition of mud-grade sediments in deep-lacustrine settings: A case study in the Triassic Yanchang Formation, Ordos Basin, China

Yingchang Cao, Miruo Lin, Kelai Xi, Shang Xu, Caineng Zou

Migration and controls of Shenhu submarine canyons in the upper continental slope of northern South China Sea: Insights from three-dimensional seismic data mapping

Ke Huang, Guangfa Zhong, Min He, Weilin Zhu, Zhe Wu

Bayhead delta succession as a stratigraphic marker of sea-level changes during the early to late Holocene – the Nakdong valley of south-eastern Korea

Seok-Hwi Hong, Woo Hun Ryang, Dong-Geun Yoo, Alexander R. Simms, Jin Cheul Kim, Gwang-Soo Lee

The Depositional Record Current Issue (September 2024)

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

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

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

Description of the Late Holocene South-east Saline Everglades, Florida palustrine depositional environment with comparisons to other Holocene environments
John F. Meeder

Comparative clumped isotope temperature relationships in freshwater carbonates
Alexandrea Arnold, John Mering, Lauren Santi, Cristian Román-Palacios, Huashu Li, Victoria Petryshyn, Bryce Mitsunaga, Ben Elliott, John Wilson, Jamie Lucarelli, Ronny Boch, Daniel Ibarra, Lin Li, Majie Fan, Darrell Kaufman, Andrew Cohen, Rob Dunbar, James Russell, Stefan Lalonde, Priyadarsi D. Roy, Martin Dietzel, Xingqi Liu, Fengming Chang, Robert A. Eagle, Aradhna Tripati

The Depositional Record is a **fully open access journal** publishing high quality articles from across the field of sedimentology. It has an impact factor of 1.9 (2023) and 51 days average submission to first decision. 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.

The Depositional Record also offers the opportunity to publish thematic **Special Issues**. Previous and currently open Special Issues can be viewed **here**. Read on for details on two forthcoming Special Issues….

The Depositional Record Call for Papers (1): Beyond Boundaries: Honouring the Legacy of Judith A. McKenzie in Earth Sciences

The distinguished sedimentologist and geochemist Judith A. McKenzie passed suddenly away on August 2023. Her pioneering research in sedimentology, geochemistry, and microbiology has left an indelible mark, inspiring a wealth of innovative discoveries and shaping diverse fields within earth sciences.

We are honouring Judy's career and contributions with a special issue of The Depositional Record. We aim to showcase overviews of the current state of knowledge and technical contributions in areas central to Judy's research pursuits such as exploring the mechanisms and processes underlying dolomite formation; the significance of microbialites in understanding ancient environments and their role as archives of Earth's history; the dynamics of sediment deposition in lakes and oceans and their implications for understanding past climate and environmental changes including the deep biosphere; the Mediterranean, one of Judy's favourite research areas, that she started investigating in her early career but she promoted it until the end; and the application of new techniques and approaches, such as clumped isotopes, to address unresolved questions in sedimentology, geochemistry, and microbiology.

We invite contributions of original research articles, reviews, and perspectives reflecting Judy's pioneering spirit and legacy. Guest editors are Daniel Ariztegui, Stefano Bernasconi, Monica Sanchez Roman, and Crisogono Vasconcelos.

For more information on this special issue and how to submit your paper, please **click here**. The submission deadline is 30th March 2025.

The Depositional Record Call for Papers (2): Carbonate depositional environments: Past and future questions—A Tribute to the career of E.A. Shinn

We are honoring Gene's career and contributions with a special issue of the *Depositional Record*. We envision an issue that devotes space to both overviews of the state of knowledge and technical contributions on current research on those problems Gene found most interesting and vexing, including the origin of whitings, modern dolomite, stromatolites, beachrock, coral reef demise, karst and carbonate aquifers, deepwater reefs, carbonate island development and paleoshorelines and sea-level change. Guest editors are Lee Kump, Miquela Ingalls, and Albert C. Hine.

For more information on this special issue and how to submit your paper, please **click here**. The submission deadline is 15th December 2024.

Basin Research Current Issue (September - October 2024)

Palaeogeography and 3D variability of a dynamically uplifted shelf: Observations from seismic stratigraphy of the Palaeocene East Shetland Platform

Lucas Albanese Valore, Tor Oftedal Sømme, Stefano Patruno, Cécile Robin, François Guillocheau, Christian Haug Eide

Late Palaeozoic structural evolution of the Patch Bank Ridge and Utsira High, northern North Sea

M. S. Bauck, J. I. Faleide, H. Fossen, M. Hassaan, A. Braathen

Sedimentology and structure of the Paleogene Nummulitic series of Corsica: Reconstruction of the southern termination of the western Alpine foreland basin

Caroline Van de Vyver, Cédric Carpentier, Mary Ford, Jaume Vergés, Mihaela Melinte-Dobrinescu

Unravelling tectonic and lithological effects on transient landscapes in the Gulf of Corinth, Greece

Ziqiang Zhou, Alexander C. Whittaker, Rebecca E. Bell, Gary J. Hampson

Sediment flux variation as a record of climate change in the Late Quaternary deep-water active Corinth Rift, Greece

Mohamed A. Mohamed, Richard E. L. Collier, David M. Hodgson, Rob L. Gawthorpe, Donna J. Shillington, Martin Muravchik, Dimitris Sakellariou

Kinematics of rift linkage between the Eastern and Ethiopian rifts in the Turkana Depression, Africa

Garrett Sullivan, C. J. Ebinger, M. Musila, Mason Perry, E. R. Kraus, Ian Bastow, Becks Bendick

Reconstructing the Zama (Mexico) discovery source to sink story, Part I; detrital zircon U–Pb and (U-Th)/He provenance analysis and implications for sediment source terranes

D. F. Stockli, J. W. Snedden, T. F. Lawton, M. Albertson, J. Pasley

The real McCoy: A record of deep-water basin deposition in southwestern North America during the Cretaceous

Emilia A. Caylor, Barbara Carrapa, Peter G. DeCelles, George E. Gehrels

Finite element analysis of early deformations of carbonate platforms driven by differential compaction of basinal unit

Niccolò Menegoni, Ludovico Manna, Matteo Maino, Cesare Perotti

Integrated analysis of the Neogene–Quaternary Valdera-Volterra Basin (Northern Apennines). Evidence for composite development of hinterland basins

Giovanni Poneti, Marco Benvenuti, Nicola Scarselli, Jonathan Craig, Federico Sani

Multi-mode gravity tectonics during northern North Sea rifting: the Snorre fault block case

Haakon Fossen

When the river meets the sea: Transport and provenance in a long-lived estuary

Andreas Zametzer, Maximilian Dröllner, Christopher L. Kirkland, Milo Barham, Alexander T. Walker, Lloyd Requilme

Geological conditions and fluid flow history that lead to the development of large clastic dykes in basins: A case study from Kushiro, Japan

Shuji Tamamura, Takuma Murakami, Katsuhiko Kaneko, Tetsuro Yoneda, Tsutomu Sato, Jun Aizawa, Hiroyuki Matsumoto, Kagemi Uchida, Yoshiaki Suzuki, Toshifumi Igarashi

The role of the Messinian evaporites in the identification of potential gas storage sites: A review of the Adriatic foreland basin system (Italy)

V. Manzi, D. Bigi, S. Lugli, F. Balsamo, N. Chizzini, A. Lucca, F. Storti

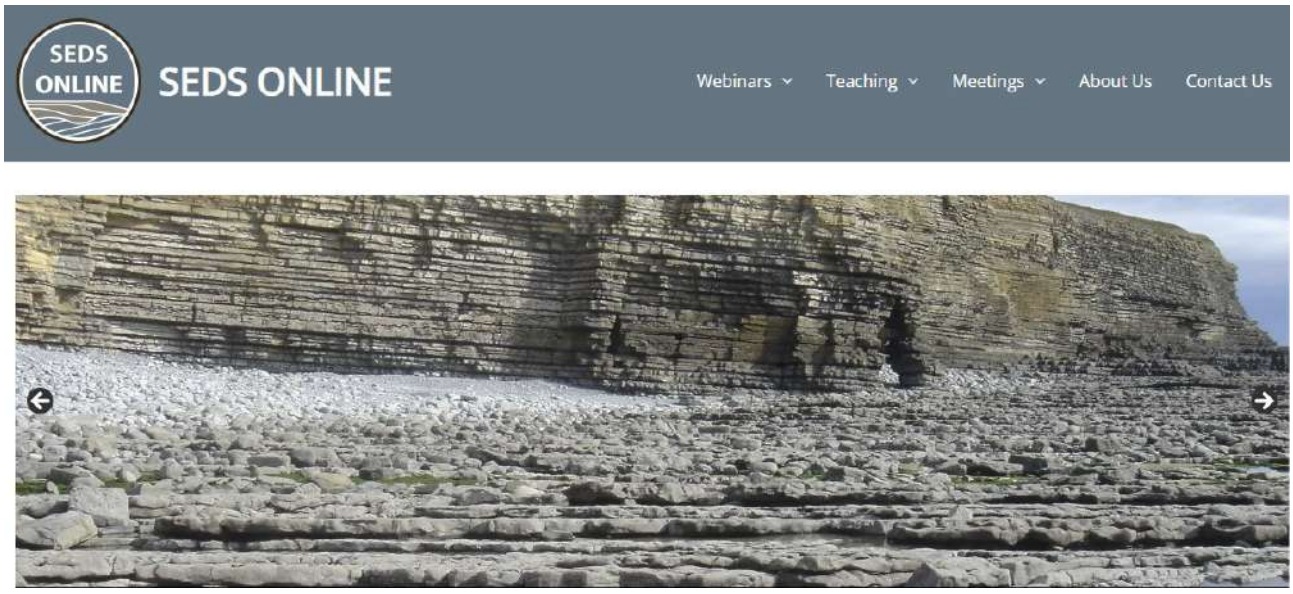
From the IAS Regional Correspondent for India

The Annual Meeting of the **Indian Association of Sedimentologists** will be held in Lucknow, India, from 11th – 13th December 2024. Please see the flyer attached to this Newsletter.

British Sedimentological Research Group Meeting 2024

The annual meeting of the British Sedimentological Research Group, sponsored by IAS, will be from 16th – 18th December 2024 hosted by the University of Leeds and taking place at the Cloth Court Hall in the city centre. There will be an associated geothermal workshop and a planned field trip to study Carboniferous fluvio-deltaic strata in West Yorkshire. Abstracts should be submitted by **21st November**, and the Early Bird registration deadline is **1st December**. More details on the flyer attached to this Newsletter.

Online Resources Supported by the IAS

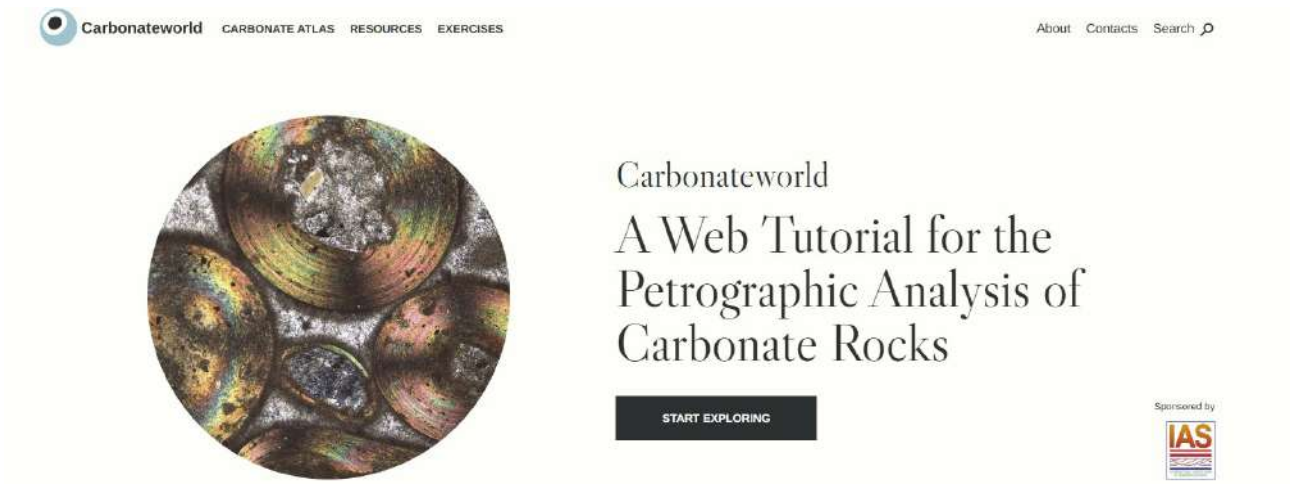


Seds Online is a free-to-access resource that provides an interactive, adaptable, and accessible online platform for anyone with an interest in the field of sedimentology. It welcomes members at any career stage, from both industry and academia and won the Geological Society of London R.H. Worth Award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

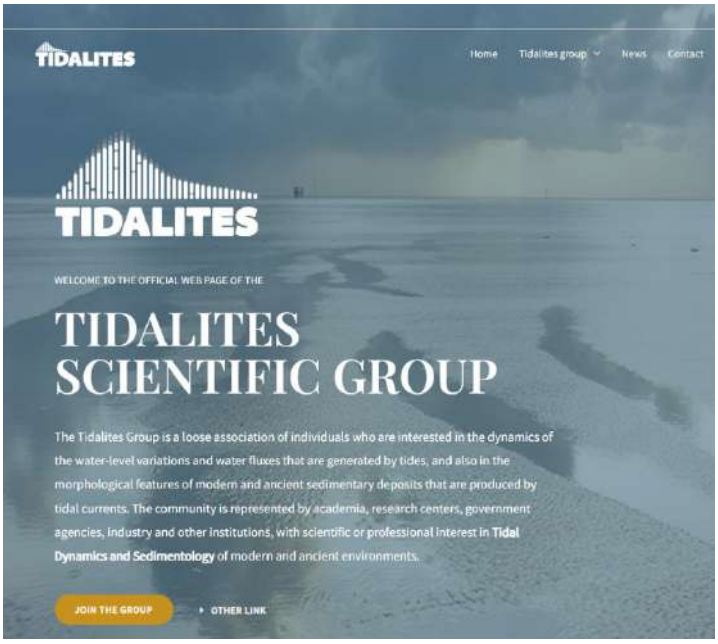
Find out more at **https://sedsonline.com**, or on X at **@Seds_Online**

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 and opportunities to "ask a scientist" about anything to do with Antarctica and glacial systems. See **https://www.antarcticglaciers.org/**



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, government agencies, industry, and other institutions, with scientific or professional interest in 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.

BSRG AGM 2024
University of Leeds
December 16th-18th

First circular

We warmly invite you to the 63rd British Sedimentological Research Group (BSRG) annual general meeting (AGM), which will take place at the University of Leeds in December 2024!

The BSRG AGM is an ideal venue to share your exciting geoscience research via talks and posters, and to meet other researchers and industry contacts.

The AGM will be hosted at the university's newly refurbished **Cloth Court Hall in Leeds city centre**, with icebreaker at Leeds institution **The Tetley** and conference dinner at **Akbar's curry restaurant**.

Leeds Geothermal will run an **integrated core and subsurface data workshop** on the campus geothermal project. This will be combined with a **field trip** to outcrops of the Carboniferous fluvio-deltaic Elland Flags in quarries around the Leeds area.

Key Dates:

Abstract submission and registration live: September 23rd

Abstract deadline: November 21st

Early bird registration deadline & programme release: December 1st

Monday 16th December: Field trip & Workshop, evening Icebreaker

Tuesday 17th December: Day 1 of presentations, conference dinner

Wednesday 18th December: Day 2 of presentations

Conveners:
Dr Adam McArthur
Prof. Dave Hodgson
Prof. Jeff Peakall

Sponsors:
If you wish to sponsor the AGM please contact the conveners!

40th CONVENTION OF
INDIAN ASSOCIATION OF SEDIMENTOLOGISTS

&

National Conference on

AN ODYSSEY OF SEDIMENTOLOGY FROM PRECAMBRIAN TO ANTHROPOCENE: SIGNIFICANT CONTRIBUTIONS IN ENVIRONMENTAL CLIMATIC AND ENERGY RESEARCH

(11th – 13th December 2024)

IAS@BSIP - 2024

Organized by

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES

LUCKNOW-226007, UTTAR PRADESH, INDIA

Registration form

https://forms.gle/eEfd1KdyeJgBkEtt5

About the conference

We cordially invite you to the 40th Convention of the Indian Association of Sedimentologists (IAS-2024) and the National Conference on "An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant contributions in Environmental Climatic and Energy Research". The conference will be held from 11th to 13th December 2024 at Birbal Sahni Institute of Palaeosciences, Lucknow. We have conscientiously proposed 10 major themes that comprise diverse disciplines in the field of sedimentology and Stratigraphy incorporating multidisciplinary approaches. Our primary idea is to bring experts, scientists, researchers, academicians, and industry professionals from the various sub-disciplines of sedimentology together to discuss the nuances of sedimentary processes, environment and energy resources in different geological time periods and to facilitate the exchange of innovative ideas among academicians, scientists, and industry professionals. The conference will feature with plenary sessions, keynote speeches, invited talks, oral presentations, and poster sessions on the proposed themes. Post-conference field excursions will also be arranged. The conference is expected to contribute for the advancement of sedimentological research with an aim to promote sustainable utilization of sedimentary resources and enhance our understanding of sedimentary processes and environments in geologically and environmentally significant regions. For detailed information about the conference, please visit our website: www.indiansedimentologists.com

Sedimentology is a multifaceted discipline that plays a pivotal role in understanding Earth's history, origin and evolution of life, identifying and managing energy and mineral resources, addressing environmental issues, mitigating geological hazards, studying climate change, and supporting civil engineering and construction projects. In last ~5-6 decades, a systematic process-based study with introduction of 'Sequence Stratigraphy' paradigm on modern and ancient sedimentary successions has improved our understanding on sedimentation pattern and basin fill architecture in spatio-temporal framework. Further, with setting up of new state-of-the-art analytical facilities in different academic institutes and industries has opened new vistas on geochronology, provenance tracking, application of geochemistry in tracking early atmosphere/hydrosphere oxygenation, appearance of first multicellular life, managing geohazards, exploration of hydrocarbon and water resources etc. This conference intends to debate the present understanding on near- surface processes, products in terms of sedimentary and stratigraphic records, future prospects and how it can contribute to various practical applications with societal, economic, and environmental implications.

About the Birbal Sahni Institute of Palaeosciences

Professor Birbal Sahni, FRS, established the Institute of Palaeobotany in 1946 to advance palaeobotany in India. Now known as the Birbal Sahni Institute of Palaeosciences (BSIP), it operates autonomously under the Department of Science and Technology, Government of India. The institute originally focused on plant fossils but expanded its mandate in 2015 to adopt a comprehensive approach to palaeosciences. Its research now encompasses:

- **Origin and evolution of life**
- **Climate change across geological times**
- **Human history and ancient civilizations**
- **Applications in oil and coal exploration**

BSIP excels in R&D through an innovative scientific team that explores biotic evolution, diversification of Precambrian life, Gondwana and Cenozoic flora, and organic petrology. Research also includes biostratigraphy, sedimentology, sequence stratigraphy, magnetostratigraphy, geochronology, and geochemistry to aid in sediment correlation, vertebrate palaeontology, palaeogenomics, and fossil fuel deposit exploration. BSIP studies climate change-vegetation links during the Quaternary Period and ancient human history using modern DNA analysis. It operates pan-India and in polar regions.

The institute boasts state-of-the-art facilities, including TL/OSL dating, IRMS, ICP-MS, GC-MS, XRD, XRF, TFIR systems, and specialized laboratories (geochemical, palaeomagnetic, vertebrate palaeontology, dendrochronology, ancient DNA, FE-SEM, CLSM, and Raman Spectroscopy). Future facilities will include Micro CT-Scan and AMS C14 Dating. BSIP actively promotes geoheritage and geotourism through outreach activities and publishes the Journal of Palaeosciences.

About Lucknow City

Lucknow, the capital of Uttar Pradesh in India, is a known for its culture, civility, & courtesies. The city has maintained its old world charm, making it a popular destination for tourists. The city was a North Indian cultural and artistic hub & the seat of power for the Nawabs during the 18th & 19th centuries. The Nawabi era's imperialistic splendour and magnificence have been praised by writers, poets and historians making it a must visit destination.

Lucknow displays a rich heritage of education, culture, languages, monuments, cuisine, embroidery, muslins, and other light fabrics, gold, and silver jewellery. The city has several research Institutes and Universities, making it a hub for education and research. Lucknow is also sometimes fondly referred with names like The Constantinople of India, Shiraz-e-Hind, and the Golden City of the East, owing to its sprawling gardens, polite manners, fine cuisine, music, and poetry. The culture of Lucknow has a great feel and is an amalgamation of complete sophistication, warmth, manners, etiquette, courtesy and a fine taste in the standard of living. Many cultural traits of the city have become the landmarks of Tehzeeb. Lucknow is extremely popular with stylish and delicate Indian embroideries like Chikan and Lucknavi Zardozi. Lucknow's cuisine, also known as Awadhi cuisine has a unique delicate style. The major highlights are biryanis, kebabs, and bread-like, nahari-kulcha, sheermaal, and warqi paratha.

SCIENTIFIC THEMES

1. Early Earth Lithosphere-Hydrosphere-Atmosphere-Biosphere evolution through sedimentary record
2. Spatial and temporal evolution of siliciclastic deposition from continent to ocean
3. Carbonate Depositional systems
4. Astro-biological analogs, Biological Processes and Palynofacies in Sedimentary Record
5. Recent developments in Stratigraphy and Geochronology
6. Geomagnetism and Volcano-sedimentology
7. Natural and Anthropogenic Hazards and Environmental Sedimentology
8. Exploring Earth Surface through Chemical Sedimentology and hydrocarbon exploration
9. Application of cutting-edge technology and modelling in sedimentology
10. Quaternary sedimentary system (Aeolian, Fluvial, Glacial, Lacustrine, Coastal, Marine)

ABSTRACTS AND FULL PAPERS

The conference will feature oral presentations, poster presentations, and invited talks by renowned scientists and experts. Abstracts with a maximum limit of 500 words, formatted in A4 paper size, Times New Roman font, size-12, and spacing 1.5, with normal margins of 1" on all sides, on the proposed conference themes should be sent to the Convener/Organizing Secretary by filling Google registration form on/before 15.10.2024. Poster templates should be in A0 size (118.9cm x 84.1cm) and should include the title, author(s) with affiliation(s) and email, followed by introduction, objective, methodology, results, conclusions and/or discussion, references, and acknowledgement. Accepted abstracts will be published in the pre-conference abstracts volume and made available to registered delegates. Papers presented at the conference will be considered for publication in the Scopus Indexed Journal / UGC listed Journal of Indian Association of Sedimentologists. Delegates are required to submit full paper(s) in the format of the Journal of IAS to the Convener/Organizing Secretary.

YOUNG SEDIMENTOLOGISTS AWARD

The Young Sedimentologists Award is open to unpublished original research works authored by research scholars and/or co-authored with their supervisor. Authors must strictly follow the guidelines available at: *https://journal.indiansedimentologists.com/ojs/index.php/1/about/submissions* for preparing the manuscript. Candidates should be below 35 years of age as of 1st July 2024 and must submit a date of birth certificate duly verified by the Head of the Department of the concerned Institution/University as proof of age. Full manuscripts should be submitted to the Convener/Organizing Secretary on or before 15th November 2024. The manuscripts will be scrutinized by a panel of experts for oral presentation in a special session during the convention. Selection of the best paper presentation will be based on the content of the manuscript (25%), documentation (25%), presentation (25%), and defence (25%). The presentation shall be of 20 minutes duration, followed by a 10-minute defence.

IMPORTANT DATES

Last date for submission of Abstract	**: 15.10.2024**
Last date for submission of Full Paper	**: 15.11.2024**
Last date for the submission of Full Paper for Young Sedimentologists Award	**: 15.11.2024**
Confirmation of acceptance of the Abstract	**: 05.11.2024**
Last date for Registration fee	**: 31.10.2024**

REGISTRATION FEE DETAILS

IAS Fellow	**: INR 2000/-**
University/College/Institute Delegate	**: INR 3000/-**
Industry Delegate	**: INR 4000/-**
Student Delegate	**: INR 1500/-**
Field trip Fee	**: INR 6000/-**
Accompanying member	**: INR 1500/-**
Foreign delegate	**: US$ 200/-**
Delegates from SAARC Countries	**: INR 5000/-**

ONLINE REGISTRATION FORM

https://forms.gle/eEfd1KdyeJgBkEtt5 **or** **Scan to register**

BANK ACCOUNT DETAILS FOR REGISTRATION

Institution Account Name: BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES

Account No: 187301000001666

IFSC Code: IOBA0001873

SWIFT Code: IOBAINBB207

Bank Name: INDIAN OVERSEAS BANK

Branch: BSIP BRANCH

Kindly indicate the purpose of the transaction while paying the fee as *"IAS 2024 Fees Name"*

POST-CONFERENCE WORKSHOPS

BSIP is organizing conference workshops on two important thrust areas in the field of Geosciences viz. Paleoclimate and Energy exploration. The participants are requested to choose among any workshop depending on their interest :

- *Workshop 1* : Palynology and its application in climate change studies.
- *Workshop 2* : Sequence stratigraphy: Siliciclastic and Carbonate systems: New look.

POST-CONFERENCE FIELD EXCURSION

We propose post-Conference fieldwork on the Proterozoic Vindhyan Basin in Chitrakoot region. The maximum number of participants is limited to 25 pax and will be selected on the first come basis.

Facies and depositional environmental setting of the Lower Vindhyans, Chitrakoot.

ACCOMMODATION

The organizing committee will provide information on hotels and guest houses located near the conference venue, and participants can avail themselves of accommodation on a self-payment basis.

VENUE

The Conference will be held at the Auditorium, Birbal Sahni Institute of Palaeosciences, Lucknow. BSIP is located and easily accessible from Charbagh Railway station and Chaudhary Charan Singh Lucknow International Airport via metro rail and local road transport. It is approximately 20 km from Chaudhary Charan Singh Lucknow International Airport, 05 km from Charbagh Railway station and 8 km from Alambagh Bus stand.

ORGANIZING COMMITTEE - IAS@BSIP-2024

Chief Patron — **Chairman Governing body, BSIP**

Patron — **Prof. Mahesh G. Thakkar, Director, BSIP**

Scientific advisory committee

Dr. Anupam Sharma
Dr. Ratan Kar
Dr. Binita Phartiyal
Dr. Anju Saxena
Dr. Pawan Govil
Dr. Veeru Kant Singh

Convenor
Dr. Arvind Kumar Singh

Co-convenor
Dr. Santosh Kumar Pandey

Organizing Secretaries

Dr. Vivesh Vir Kapur
Dr. Sabysachi Mandal
Dr. Adrita Choudhuri
Dr. Neha Aggarwal
Dr. Ranveer Singh Negi

IAS GOVERNING COUNCIL

President	: Prof. G.N. Nayak, Goa University, Goa
Vice -President	: Prof. G.M. Bhat, Jammu University, Jammu Prof. S. Banerjee, IIT Bombay, Mumbai
General Secretary	: Prof. M.E.A. Mondal, AMU, Aligarh Prof. A.V. Joshi, M.S. Baroda University, Vadodara
Joint Secretary	: Prof. Subir Sarkar, Jadavpur University, Kolkata Prof. B. P. Singh, BHU, Varanasi
Treasurer	: Prof. Abdullah Khan, AMU, Aligarh
Joint Treasurer	: Dr. S.H. Alvi, AMU, Aligarh
Managing Editors	: Dr. Bashir A. Lone, Jammu University Dr. Mateen Hafiz, Higher Education Department, Jammu
Foreign Secretary	: Prof. John S. Armstrong Altrin, Mexico

NATIONAL ADVISORY COMMITTEE

- Prof. S.K. Tandon, Department of Earth and Environmental Sciences, IISER, Bhopal
- Prof. D.M. Banerjee, Senior Scientist, Indian National Science Academy, New Delhi
- Prof. Mahendra Pal Singh, Department of Geology, University of Lucknow, Lucknow
- Prof. L.S. Chamiyal, Department of Geology, M. S. University of Baroda, Vadodara
- Dr. Kalachand Sain, Director, Wadia Institute of Himalayan Geology, Lucknow
- Dr. Prof. A. P. Dimri, Director, Indian Institute of Geomagnetism, Mumbai
- Dr. Om Prakash Mishra, Director, National Centre for Seismology, MoES, New Delhi
- Dr. Niloy Khare, Scientist G, Ministry of Earth Sciences, New Delhi
- Dr. Thamban Meloth, Director, National Centre for Polar and Ocean Research, Goa
- Dr. Anil Kumar Kaul, CGM & Former Head, Geoscience division, KDIMPE, ONGC, Dehradun
- Shri Amit Dharwadkar, Deputy Director General, GSI, Northern Region, Lucknow
- Dr. Ajit Kumar Shasany, Director, CSIR-NBRI, Lucknow
- Dr. Prabodh Kumar Trivedi, Director, CSIR-CIMAP, Lucknow
- Prof. P.K. Srivastava, Head, Department of Geology, University of Delhi, New Delhi
- Dr. Navin Juyal, Physical Research Laboratory, Ahmedabad
- Prof. Mukund Sharma, Ex-Scientist, Birbal Sahni Institute of Palaeosciences, Lucknow
- Shri Hemant Kumar, Director, Geological Survey of India, Northern Region, Lucknow
- Prof. Uma Kant Shukla, Department of Geology, Banaras Hindu University, Varanasi
- Prof. Partha Pratim Chakraborty, Department of Geology, University of Delhi, New Delhi
- Prof. Birendra Pratap Singh, Department of Geology, Banaras Hindu University, Varanasi
- Prof. Dhruv Sen Singh, Head, Department of Geology, University of Lucknow, Lucknow
- Prof. Pradeep Srivastava, Department of Earth Sciences, IIT, Roorkee
- Prof. Vimal Singh, Department of Geology, University of Delhi, New Delhi

CONTACT DETAILS

Dr. Arvind Kumar Singh
Convenor
Mobile: 9953267756

Dr. Santosh Kumar Pandey
Co-Convenor
Mobile : 8840499281

Dr. Vivesh Vir Kapur
Organizing Secretary
Mobile : 9554430666

ias2024@bsip.res.in