

Announcing the IAS Special Lecture Tour 2023-2024

The International Association of Sedimentologists is delighted to announce the 2023-2024 IAS Special Lecture Tour. The IAS Special Lecture Tour will feature presentations from three distinguished lecturers and pre-eminent researchers in the field of Sedimentology. The tour will commence from August 2023 and run until December 2024.



Professor Tracy Frank, Department of Earth Sciences, University of Connecticut, USA.

Tracy is a field geologist and geochemist whose research integrates sedimentology and stratigraphy, petrography, and geochemistry to understand controls on carbonate deposition, reconstruct ancient climates and environments, and evaluate controls on reservoir quality.



Dr Matthieu Cartigny, Royal Society Dorothy Hodgkin Fellow, Departments of Geography and Earth Sciences, University of Durham, UK

Matthieu's research aims to understand the geomorphology of the ocean floor. He has a special interest in the sediment transport processes along submarine canyons, channels and sediment wave fields. In his research he tests existing sediment density flow models with novel ocean floor measurements to constrain the fluxes of sediment, nutrients and pollutants into our oceans.



Professor Daniel Ariztegui, School of Earth and Environmental Sciences, University of Geneva, Switzerland

Daniel's research focus is on the study of the lacustrine subsurface biosphere, microbe-mineral interactions and organomineralization and their impact on the sedimentary record. He applies a geomicrobiological approach to modern environments and develops microbial proxies that can be used to identify microbial processes in the past.

Lecture titles and information on how to apply to host a lecturer are on the next page.



Lecture Titles

- Origin, distribution, and significance of brine in the subsurface of Antarctica (*Tracy Frank*)
- Pace, magnitude, and nature of terrestrial climate change through the end-Permian extinction in southeastern Gondwana (*Tracy Frank*)
- Cold-water carbonates: deposition and diagenesis (*Tracy Frank*)
- Direct monitoring of sediment density flows on the ocean floor (*Matthieu Cartigny*)
- Froude supercritical flows and their deposits (*Matthieu Cartigny*)
- Distinctive biotic and abiotic signatures in modern lacustrine carbonates and their application to the Earth and planetary fossil record (*Daniel Ariztegui*)
- Re-discovering the subsurface biosphere: Living microbes in lacustrine sediments and their role on sedimentation (*Daniel Ariztegui*)
- Amorphous calcium carbonate in biological/geological systems: An overlooked calcium carbonate polymorph? (*Daniel Ariztegui*)

Lectures will usually be delivered in English. However, Daniel Ariztegui is able to deliver his lectures in French or Spanish on request and Matthieu Cartigny is able to deliver his lectures in Dutch on request.

Inviting and Hosting a Lecturer

IAS Members may submit an **application** to host a Special Lecturer via their profile page on the IAS website. There is a short form to complete and submit, with details of the host institution, preferred dates and likely audience, as well as space to add any other relevant information. For example it is quite common and, indeed, beneficial to combine lectures with round table discussions or local field trips.

Applicants can nominate a preferred and second choice lecturer, if successful they can then discuss which specific lecture they would like to receive. Offering a wide range of possible dates will improve the chances of success, as will coordinating with other possible hosts in the region.

The IAS directly funds all the travel costs of the lecturer. The host institution is responsible for providing the lecturer's accommodation and meals for the duration of the visit.

Lecturer's Availability

Daniel Ariztegui will be unavailable for August 2023

Matthieu Cartigny will have limited availability between November 2023 – February 2024

Tracy Frank will be unavailable for August – October 2023