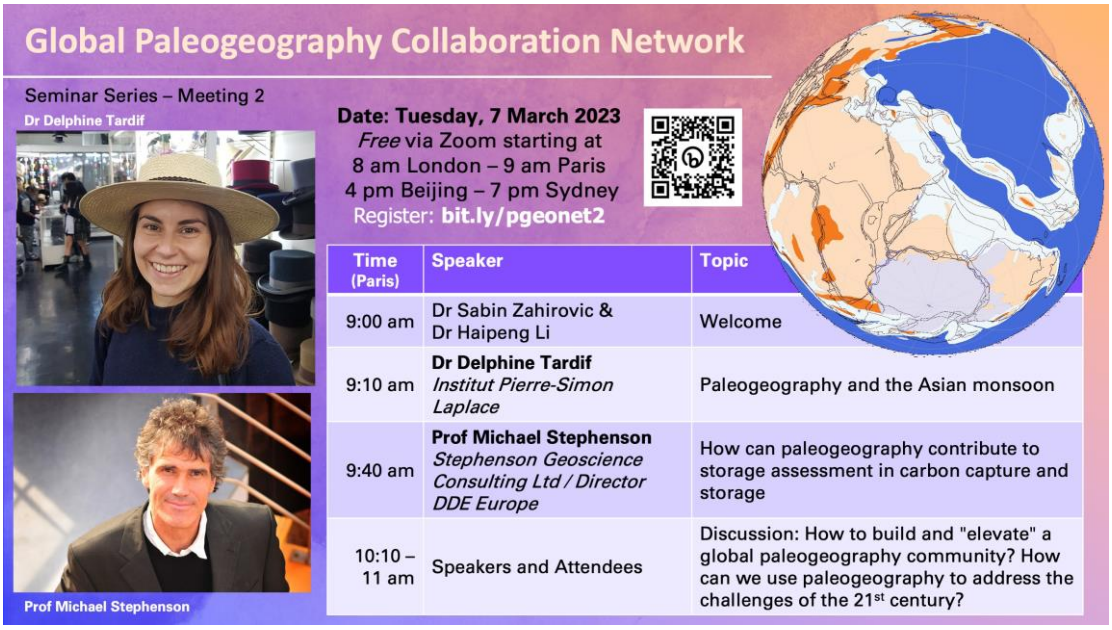
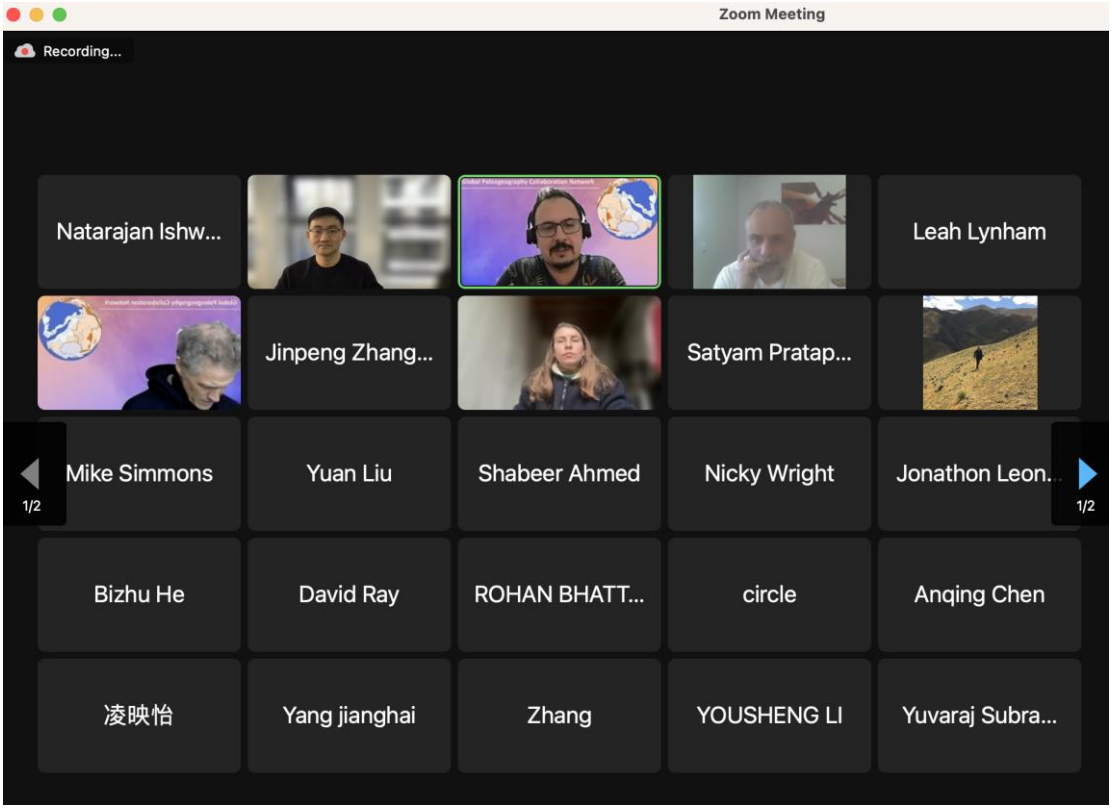
2023-06 Progress update for the paleogeography working group

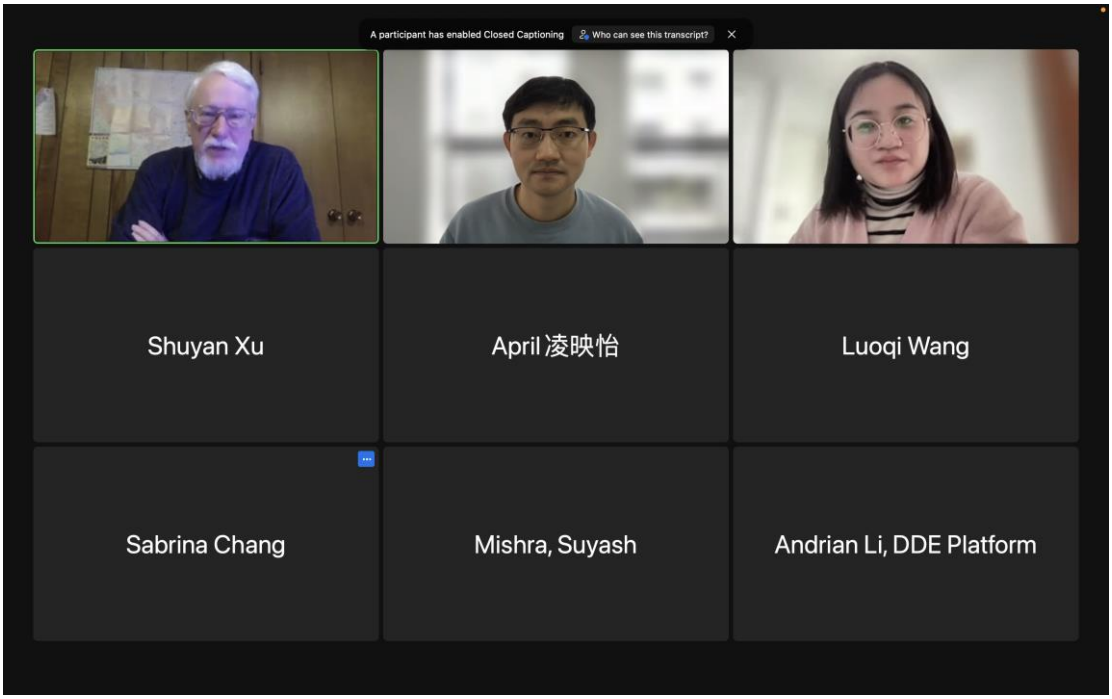
Second seminar of the Global Paleogeographic Collaboration Network hosted in March

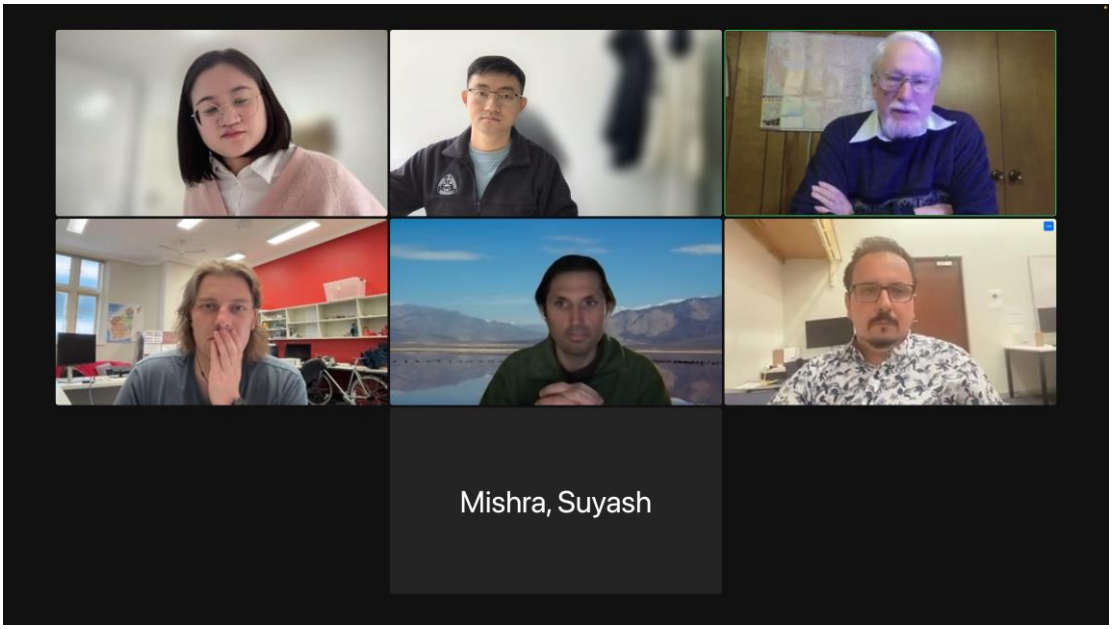
On March 7th, Sabin Zahirovic and Haipeng Li, members of the DDE Paleogeography Working Group, hosted the second seminar of the Global Paleogeographic Collaboration Network. This seminar centered around the practical application of paleogeography in gaining insights into climate evolution and carbon capture and storage. Over 70 participants attended the seminar and engaged in a comprehensive discussion on how paleogeography can be harnessed to tackle the challenges of the 21st century.

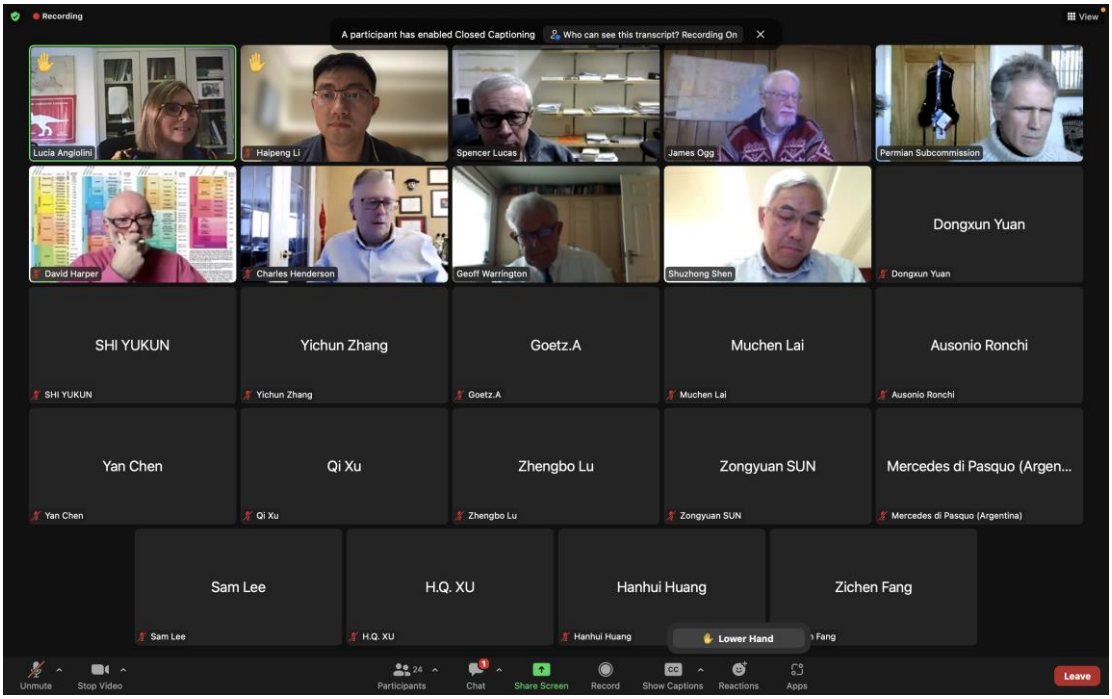


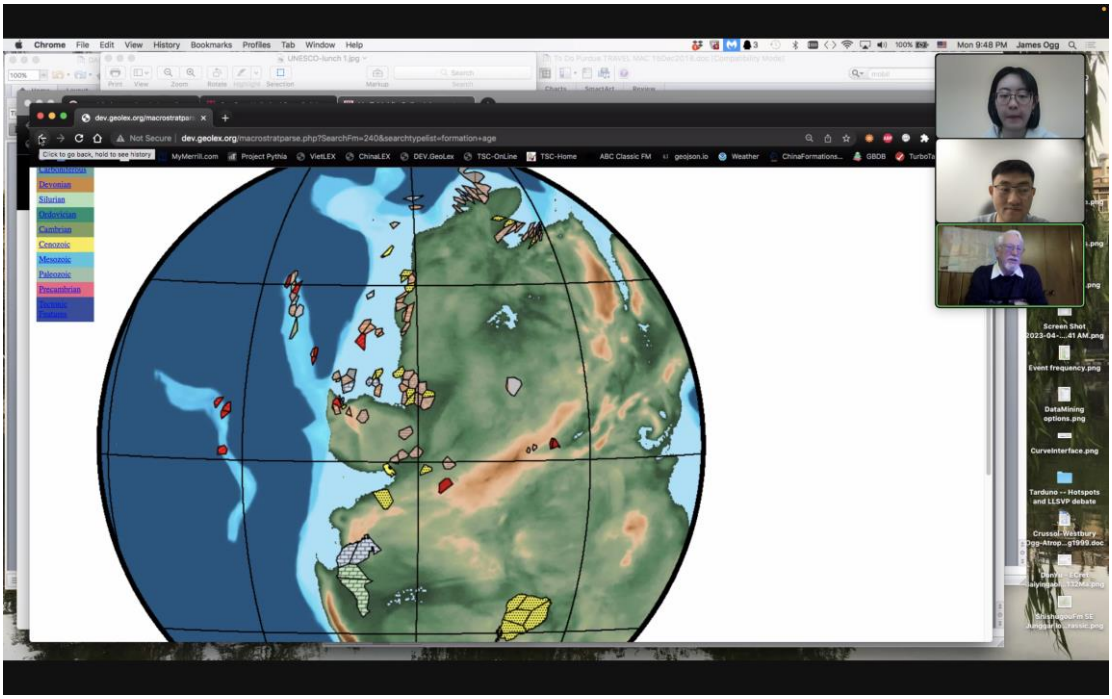


Regular working group meetings and other activities

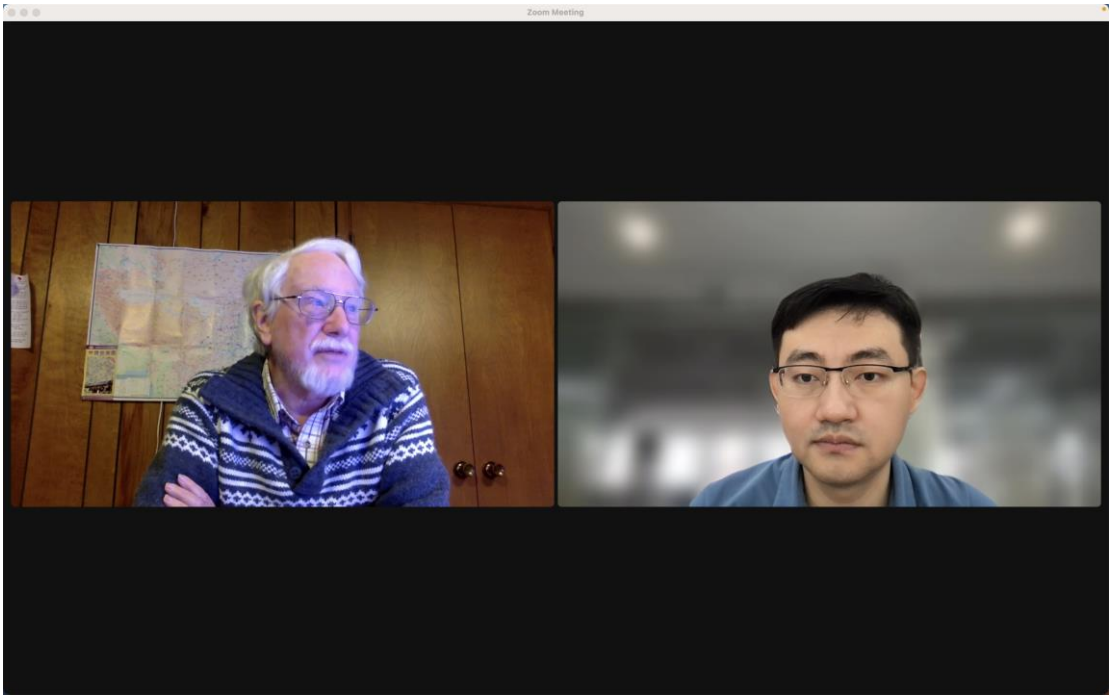


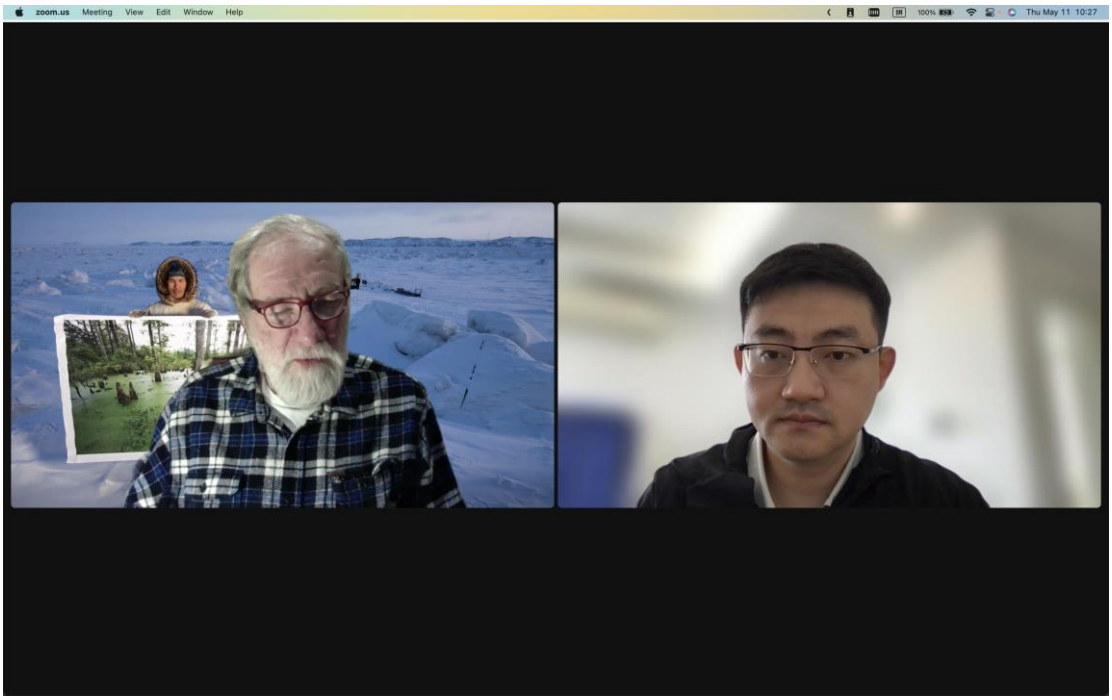

Mishra, Suyash


Recording
A participant has enabled Closed Captioning
Who can see this transcript? Recording On
View
Lucia Angiolini
Haipeng Li
Spencer Lucas
James Ogg
Permian Subcommission
David Harper
Charles Henderson
Geoff Warrington
Shuzhong Shen
Dongxun Yuan
Dongxun Yuan
SHI YUKUN
SHI YUKUN
Yichun Zhang
Yichun Zhang
Goetz.A
Goetz.A
Muchen Lai
Muchen Lai
Ausonio Ronchi
Ausonio Ronchi
Yan Chen
Yan Chen
Qi Xu
Qi Xu
Zhengbo Lu
Zhengbo Lu
Zongyuan SUN
Zongyuan SUN
Mercedes di Pasquo (Argen...
Mercedes di Pasquo (Argentina)
Sam Lee
Sam Lee
H.Q. XU
H.Q. XU
Hanhui Huang
Hanhui Huang
Zichen Fang
Lower Hand
Unmute
Stop Video
Participants
Chat
Share Screen
Record
Show Captions
Reactions
Apps
Leave


Devonian
Silurian
Ordovician
Cambrian
Cenozoic
Mesozoic
Paleozoic
Precambrian


Zoom Meeting
ZhangZhongshi
Meeting Chat
probably most of you have seen this image showing the uncertainty of paleo CO2. Ideally, we could have something similar for paleogeography boundary conditions.
Nicky Wright to Everyone 16:56
Replying to "I think, the discuss..."
Once you have a paleogeography, you can also easily modify the reference frame (~1 line of code) if you have the rotations
Anna von der Heydt to Everyone 16:57
Reacted to "Once you have a pale..." with
Paul Markwick to Everyone 16:58
Anna. This comes back to the following: (1) variability in the geography within the time period represented; (2) uncertainty in the mapping/interpretation.
Anna von der Heydt to Everyone 16:59
Replying to "Anna. This comes bac..."
Yes, fully agree, so maybe look at (for the bathymetry at least) the reconstructions by Eivind?
Sorry, I have to leave, thanks all for the discussion!
Paul Markwick to Everyone 17:00
I would recommend using a paleogeography that has no commercial constraints
Nicky Wright to Everyone 17:00
Is the time period of focus only 55 Ma?
Paul Markwick to Everyone 17:01
But remember that for many parts of the Earth, our paleogeographic temporal resolution is not that precise. 55 Ma plus or minus for the boundary condition
Who can see your messages?
To: Everyone
Type message here...



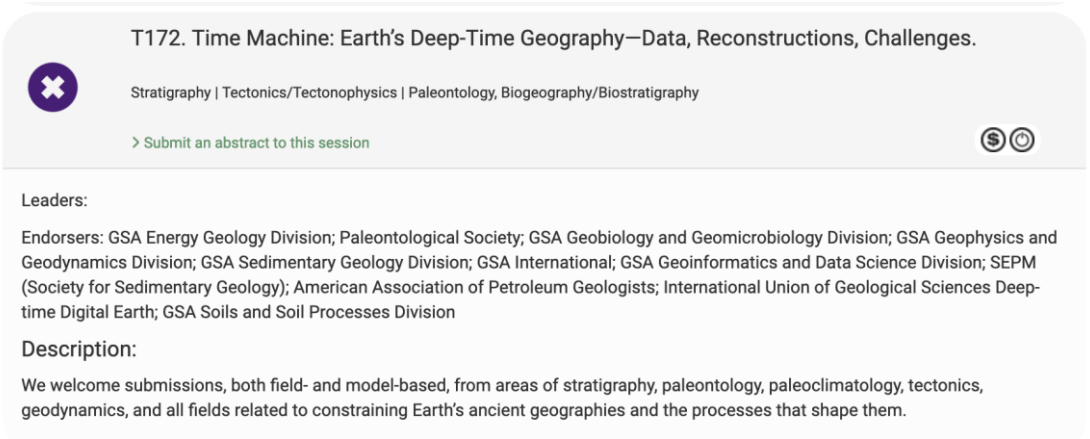


Paleogeography working group at the EGU meeting


Access to congress centre
D1, D2, K1, K2
-2.16, -2.85, -2.91
Cloakroom
Childcare, Family rooms

Upcoming paleogeographic session at the GSA Annual meeting in Pittsburgh, October, 2023

DDE paleogeography working group members Sabin Zahirovic, James Ogg and Haipeng Li proposed a session at the forthcoming Geologic Society of America Annual Meeting scheduled for October 2023. The session, designated as T172 "Time Machine," aims to identify any existing gaps, challenges, and opportunities in digital transformation of paleogeographic research and welcomes submissions related to data and models employed in paleogeographic reconstruction. It will also highlight recent advancements made by the DDE in pursuit of this endeavor.



T172. Time Machine: Earth's Deep-Time Geography—Data, Reconstructions, Challenges.

Stratigraphy | Tectonics/Tectonophysics | Paleontology, Biogeography/Biostratigraphy

> Submit an abstract to this session

Leaders:

Endorsers: GSA Energy Geology Division; Paleontological Society; GSA Geobiology and Geomicrobiology Division; GSA Geophysics and Geodynamics Division; GSA Sedimentary Geology Division; GSA International; GSA Geoinformatics and Data Science Division; SEPM (Society for Sedimentary Geology); American Association of Petroleum Geologists; International Union of Geological Sciences Deep-time Digital Earth; GSA Soils and Soil Processes Division

Description:

We welcome submissions, both field- and model-based, from areas of stratigraphy, paleontology, paleoclimatology, tectonics, geodynamics, and all fields related to constraining Earth's ancient geographies and the processes that shape them.