Potsdam MEETing 2024

At GFZ - Building A42 - Department 2 - seminar room



Join Zoom Meeting

https://gfz-potsdam-de.zoom-x.de/j/66034787656?pwd=Pc3YVDEALskeCCeKdf3ss4tJvLBhF8.1

Day 1 – Tuesday September 17, 2024

8:00 - 09:00 Coffee break

09:00 - 12:00 Working Session A 1– Reports of PIs and Big Picture View moderated by Stephan Sobolev

09:00 - 09:40 Alex Sobolev "New results on mantle evolution through data on mantle plumes"

09:40 - 10:20 **John Valley** "Zircon-forming Magmas: Hadean to Recent: What can we learn with Melt Inclusions in Zircon?"

10:20 - 10:40 Coffee break

10:40 - 11:20 Stephan Sobolev "Geodynamic modelling of early Earth constrained by geochemical data"

11:20 - 11:50 Trond Torsvik "Early Earth and the Boring Billion"

12:00 - 14:00 Standing lunch & Poster session

14:00 - 18:00 Working session A 2 - Continuation

moderated by Alexander Sobolev & John Valley

- 14:00 14:30 **Paul Tackley**, **remote** "Tectonics and plume-induced subduction initiation on Venus and early Earth"
- 14:30 15:00 **Michael Brown, remote** "Is plate tectonics a post-Archean phenomenon? A petrological perspective"
- 15.00 15:30 **Albrecht Hofmann**, **remote** "Uranium in Earth's early core explains the terrestrial evolution of lead isotopes".

15:30 - 16:00 Coffee break

- 16:00 16:30 **Georg FeuIner** "Spatially explicit simulations of the effects of tides on the climate on early Earth"
- 16:30 16:50 **Tyler Blum**, **remote** "High-mass resolution analysis of trace elements in zircon using forward-geometry secondary ion mass spectrometry"
- 16:50 17:20 Annie Bauer, remote "Coeval Eoarchean stagnant- and mobile-lid tectonic regimes"

17:20 - 17:40 **Discussion**, moderation by Trond Torsvik

18:30 - 21:30 Dinner at Mylia, Potsdam

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Day 2 – Wednesday September 18, 2024

8:00 - 09:00 Coffee break

09:00 - 12:00 Working Session B - Data and Models

moderation by Charitra Jain

- 09:00 09:20 **Aleksandr Chugunov**, **remote** "New data on Weltevreden komatiites based on composition of melt inclusions and host olivine"
- 09:20 09:40 **Mateo Esteban** "New data on Belingwe komatiite melts based on olivine-hosted melt inclusions"
- 09:40 10:00 Francois Holz "High silica melts in zircon inclusions: is zircon a late-magmatic phase"
- 10:00 10:20 **Adrien Vezinet remote** "Petrogenesis of Kaapvaal Craton, South Africa: Apatite as main target".
- 10:20 10:40 Coffee break
- 10:40 11:00 Charitra Jain "Influence of water and composite rheology on early Earth evolution models"
- 11:00 11:20 **Michael Pons** "Intensified plate tectonics by self-reorganisation of global subduction network post-Snowball Earth"
- 11:20 11:40 **Hannah Davies** "Progress and results from coupling FastscapeLib with geodynamic models (ASPECT) and climate models (CLIMBER-X) on planetary scale"
- 11:40 12:00 **Julius Eberhard** "Modeling Paleozoic icehouse climate as reference for global-scale glaciations"
- 12:00 14:00 Telescope & GFZ tour & standing lunch organized by Hannah Davies & Michael Pons

14:00 - 16:00 General Discussion

moderated by Stephan Sobolev

16:00 approx End of the event