

## Session SSP4.3 — Palaeontology, Palaeoecology and Evolution of Life

### Wednesday, 6 May, 8.30-12.00

Convener: Stefano Dominici

Co-conveners: Heather Birch<sup>ECS</sup>, Silvia Danise, Flavia Fiorini, Sofie Lindström, Daniele Scarponi

#### Instructions to participants, please read carefully before you log in

- Join the chat at 8.15 and let us know you participate, so we can start at 8.30
- The convener will introduce the session and together with co-conveners will take turns in briefly introducing each presentation.
- We plan to allocate 5 minutes to each presentation and 5 minutes to questions, trying not to exceed 10 minutes total (it can be less, it's won't be more). We have prepared at least one question per contribution. At the end of the session, we will leave time for an open discussion.
- If you are not present when we call your name, we'll wait a minute, then we'll move your presentation at the end of the list.
- You may want to prepare in advance a couple of lines explaining who you are, who you worked with, what you have studied and the highlights of the results you are presenting. All this should be in a very few lines that you will copy and paste on the chat when is your turn.
- Please, if the time allotted to a given presentation is over, leave your questions or answers for the final discussion, at the end of the session.
- When asking or answering questions please address who you are writing to by using @her/his\_name.
- The following program is final, the order followed was that of the original plan. Presenters who have not uploaded material are at the end of the list. If you have an abstract, but you are not in this list and want to present your research, please let us know and we'll include you at the end.
- There's no time limit to the final discussion, except that allotted to the session by EGU (12.30) and your endurance. There won't be a coffee break, except you choose to have one at your place. Enjoy :)

*Program written at the end of the session, Wednesday 6 May 2020*

8.30 Introduction

8.35 Presentations:

1) D955 | EGU2020-8566

[Quaternary molluscan assemblages of cold-water coral mounds: a new perspective on deep-sea ecosystem dynamics in the western Mediterranean](#)

**Chelsea Korpanty**, Leon Hoffman, Jürgen Titschack, Claudia Wienberg, and Dierk Hebbeln

2) D958 | EGU2020-8249

[Recent environmental change in a marine protected area as reflected by sediment proxy data.](#)

**Irina Polovodova Asteman**, Thorbjørn Joest Andersen, Torsten Linders, Kjell Nordberg, and Nicolas Van Nieuwenhove

3) D962 | EGU2020-13783

[Climate change driven massive extirpation of native species from the Israeli Mediterranean shelf](#)

**Paolo G. Albano**, Jan Steger, Marija Bošnjak, Beata Dunne, Zara Guifarro, Elina Turapova, Bella Galil, Gil Rilov, and Martin Zuschin

4) D964 | EGU2020-2558

[The Devonian plant revolution and its role in multiple marine extinction crises](#)

**David Bond** and Charlotte Stephenson

5) D965 | EGU2020-8044

[The clams before the storms: the fate of bivalve diversity during times of crisis](#)

**Katie Collins**, Stewart Edie, and David Jablonski

6) D976 | EGU2020-21576

[Dominant dextral to sinistral coiling change in planktic foraminifera Morozovella during the Early Eocene Climatic Optimum in the Atlantic Ocean](#)

**Valeria Luciani**, Roberta D'Onofrio, Wade Bridget S., and Dickens Jerry R.

7) D977 | EGU2020-7139

[Micropaleontological proxies as tool to date serpentinite mud volcanisms and seamount subduction and to reconstruct paleoenvironmental conditions in the Mariana convergent margin system \(IODP Expedition 366\)](#)

**Arianna Valentina Del Gaudio**, Werner E. Piller, Gerald Auer, Patrick Grunert, and Walter Kurz

8) D979 | EGU2020-18997

[Molecular signatures of kerogens and bitumens from the Lower Devonian Rhynie chert: Insights into the botanical affinity of the earliest land plants](#)

**Anuradha Tewari**, Kevin Lepot, Suryendu Dutta, Borja Cascales-Miñana, and Armelle Ribouleau

9) D980 | EGU2020-20732

[Land plants and terrestrial environmental changes during the onset of the end-Triassic event](#)

**Sofie Lindström**, Hans Peter Nytoft, Gunver K. Pedersen, Grzegorz Niedzwiedzki, Karen Dybkjær, Leif Johansson, Henrik I. Petersen, Hamed Sanei, Christian Tegner, and Rikke Weibel

10) D982 | EGU2020-7615

[Testing for the effects of depositional rates in multiproxy models of environmental and faunal change: the Silurian Lau  \$\delta^{13}\text{C}\$  excursion](#)

**Emilia Jarochowska**, Madleen Grohganz, Niklas Hohmann, and Axel Munnecke

11) D983 | EGU2020-11698

[Time averaging and stratigraphic unmixing: reconstructing ecological decline in molluscan production \(Holocene, Brijuni, NE Adriatic\)](#)

**Adam Tomašových**, Martin Zuschin, Ivo Gallmetzer, and Alexandra Haselmair

12) D984 | EGU2020-7320

[Linking macrobenthic fauna and seismic facies to improve stratigraphic reconstructions: the case of the Mid Adriatic Depression since the late glacial period \(Central Adriatic Sea\)](#)

**Michele Azzarone**, Daniele Scarponi, Giulia Barbieri, Veronica Rossi, Claudio Pellegrini, Fabiano Gamberi, and Fabio Trincardi

13) D985 | EGU2020-7572

[Major environmental and ecological shifts in late Holocene marine sediments of the NW Adriatic Sea](#)

**Michaela Berensmeier**, Adam Tomašových, and Zuschin Martin

14) D953 | EGU2020-1053

[Shelf ecosystem response to the Eocene-Oligocene Transition](#)

**Laura Cotton**, David Evans, and Daniela Schmidt

15) D954 | EGU2020-11609

[Fossil plant remains preserved as charcoal within proximal ejecta blankets of impact craters reveal the influence of asteroid collisions with the Earth's surface](#)

**Anna Losiak**, Claire Belcher, and Elmar Buchner

16) D961 | EGU2020-2668

[Basin-wide homogenization of soft-bottom benthic communities in the wake of anthropogenic habitat degradation in the northern Adriatic Sea](#)

Martin Zuschin, Alexandra Haselmair, Ivo Gallmetzer, Anna Wieser, and **Adam Tomasovych**

17) D957 | EGU2020-8053

[Benthic foraminifera as tracers in one of Africa's most polluted water bodies: The Lagos Lagoon \(Nigeria\)](#)

**Nisan Sariasan**, Olugbenga T. Fajemila, and Martin Langer

18) D952 | EGU2020-15431

[Perturbation and recovery of shelf ecosystems during the PETM](#)

**Monika Doubrava**, Peter Stassen, Marci M. Robinson, Tali L. Babilia, James C. Zachos, and Robert P. Speijer

Session ended at 12.06, after 15 minutes of open discussion.

123 contacts on the chat

35 online comments