

# Life and Planet 2024

Burlington House, London  
July 2024

## Accepted Posters

Poster sessions 15:30 – 18:00

Wednesday July 10<sup>th</sup> and Thursday July 11<sup>th</sup>

*It is suggested that presenters be present at their posters 16:30-17:30 if possible*

Session allocation for posters TBA

## Day 1 - Wednesday, July 10<sup>th</sup>

### **Morphometric and spatial analyses of *Charniodiscus* from the Ediacaran of Newfoundland, Canada**

*Princess Aira Buma-at, Nile Stephenson, Neil Mitchell, Jason Head, Charlotte Kenchington, Emily Mitchell*

### **Natural sampling and aliasing of marine geochemical signals**

*Andrew Curtis, Hugo Bloem, Rachel Wood, Fred Bowyer, Graham A. Shields, Ying Zhou, Mariana Yilales, Daniel Tetzlaff*

### **Quantification of MISS textures to untangle the relationships between matgrounds and Ediacaran macrofossils**

*Katie M. Delahooke, Alexander G. Liu, Nile P. Stephenson, Charlotte G. Kenchington, Emily G. Mitchell*

### **Modelling the microbial to metazoan transition**

*Euan Furness, Emily Mitchell, Nicholas Butterfield*

### **A current view and evaluation of global diversity in the Proterozoic: Insights from the fossil record**

*Sanaa Mughal, Kurt O. Konhauser*

### **The Boring Billion: Hurdle or stepping stone for life on Earth?**

*Nick M W Roberts*

### **Statistical detection of microtopographic signatures of bacterial weathering**

*Luca Stigliano, Karim Benzerara, Bastien Wild, Philippe Ackerer, Nicolas Menguy, Cynthia Travert, Fériel Skouri-Panet, Damien Daval*

### **Phanerozoic ocean biogeochemistry and marine biodiversity in space and time**

*Richard G. Stockey, Benjamin J. W. Mills, Erin E. Saupe, Pedro Monarrez, Przemyslaw Gruszka, Alexandre Pohl, Fanny Montiero, Yixuan Xie, Pam Vervoort, Gordon Inglis, Thomas Gernon, Dominik Hülse, Andy Ridgwell, Daniel Lunt*

### **Earth's first Phanerozoic-style glaciation?**

*Thomas W. Wong Hearing, Alexandre Pohl, Thomas H. P. Harvey, Alex G. Liu, Lin Na, Thomas Vandyk, Mark Williams*

### **Using U-Pb dating of early marine cements to constrain the base of the Nama Group, Namibia**

*Mariana Yilales, Rachel Wood, Nick Roberts*

### **Uncovering the origin of an early Tonian carbon isotope excursion: evidence of sulfur isotope from North China Craton**

*Lin Yuan, Ying Zhou, Kun Zhang, Yangchen Li, Graham A. Shields*

### **A tiny Cambrian fossil resolves the problematic evolutionary affinity of trilobites**

*Han Zeng, Yao Liu, Fangchen Zhao, Yuyan Zhu, Zongjun Yin, Maoyan Zhu*

### **Oxygenation of a Mesoproterozoic ocean: Geochemical clues from the c. 1.45 Ga Tieling Formation**

*Kun Zhang, Graham Shields*



## Day 2 - Thursday, July 11<sup>th</sup>

### **Paleoecology and physiology inferred from oxygen and carbon isotopes of fossil fish and cephalopods**

*Emily Ball*

### **Distribution of plant-sediment interactions in the late Palaeozoic**

*James A. Craig, Neil S. Davies, William J. McMahon*

### **Phanerozoic marine biodiversity increased in presence of ecosystem engineers**

*Alison Cribb, Simon Darroch, Will Gearty, Tom Ezard*

### **Slimehead size through time: Testing the temperature-size relationship in Trachichthyidae**

*Chloe Griffiths, Richard Twitchett, James Witts, Emma Bernard*

### **Evaluating the mechanistic importance of ocean deoxygenation in regional biodiversity dynamics during the Permian-Triassic mass extinction**

*Przemyslaw M. Gruszka, Dominik Hülse, Richard G. Stockey*

### **Bayesian network analysis reveals the assembly drivers and emergent stability of Pleistocene large mammal communities**

*Ivona Juchnevičiūtė, Simona Bekeraitė, Andrej Spiridonov*

### **Impacts of Phanerozoic climate change on life - A community resource for paleobiogeography studies**

*Dan Lunt, Paul Valdes, Alex Farnsworth*

### **Tiny tracheid traits, big effects: A case study on the impact of pit area per tracheid on ecosystem processes during the Pennsylvanian using Paleo-BGC**

*William J. Matthaeus, Jon. D. Richey, Isabel P. Montañez, Sophia I Macarewich, Joseph D White, Daniel Peppe, Jennifer C McElwain, Jonathan P Wilson*

### **No evidence the Columbia River Flood Basalts drove the Miocene Climatic Optimum in sedimentary mercury records**

*Charlotte Simpson, Kasia K. Śliwińska, Evi Wubben, Lawrence M.E. Percival, Tamsin A. Mather, Joost Frieling*

### **Long-term Phanerozoic global mean sea level: Insights from strontium isotope variations and estimates of continental glaciation**

*Douwe G. van der Meer, Christopher R. Scotese, Benjamin J.W. Mills, Appy Sluijs, Aart-Peter van den Berg van Saparoea, Ruben M.B. van de Weg*

### **Oceanic deoxygenation during the mid-Silurian Ireviken Extinction Event**

*Yuxuan Wang, Benjamin J.W. Mills, Paul B. Wignall, David K. Loydell, Yijun Xiong, Simon W. Poulton.*

### **New Tonian microfossils provide insights into the evolution of filamentous symmetry**

*George O. Wedlake, Corentin C. Loron, Luke A. Parry, Alexie E. G. Millikin, Timothy M. Gibson, Karsten Piepjohn, Nicholas J. Tosca, Alan D. Rooney, Justin V. Strauss, Ross P. Anderson*

### **Integrating ice sheet dynamics into Phanerozoic climate simulations**

*Niklas Werner, Christian Vérard, Maura Brunetti, Taras Gerya, Paul Tackley*

### **Life and Planet meeting code of conduct**

All attendees are expected to behave in a professional manner and to treat each other with respect. The Conference organizers reserve the right to remove any attendee who violates this code of conduct without a refund. If you believe another attendee is in violation of the code of contact, please contact the organizing committee at [info@lifeandplanet.com](mailto:info@lifeandplanet.com).

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