# **Life and Planet 2025**

Burlington House, London July 2025

# Day 1 - Monday, July 14th

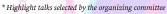
	•	• / -	•
9:30 - 9:50	Arrivals and discussion (catered)		
9:50 - 10:00	Introductory remarks		
		Coosion 1	
		Session 1	
10:00 - 10:15*	<u>Highlight Talk</u> : Modelling plant evolutionary Khushboo Gurung, Benjamin Mills, Alexander I		ct on the Phanerozoic biosphere
10:15 - 10:30	SMITE - Biosphere recovery after the K-Pg in William Amir, Benjamin Mills, Khushboo Gurun	-	
10:30 - 10:45	Data-Driven Exploration of Phanerozoic Pale Dongyu Zheng, Ying Cui, Alexander Krause, Ber		climate Reconstructions
10:45 - 11:00	End-Palaeozoic Perturbation: A Poetic Reima Kate Simpson	agining	
11:00 - 11:30	Break (not catered)		
		Session 2	
		56551011 =	
11:30 - 11:45*	<u>Highlight Talk</u> : Earth's Descent into 'Snowbal Elias J. Rugen, Fred Bowyer, Benjamin Mills, Li Tom Gernon, Thea Hinks, Guillaume Le Hir, Gra	n Yuan, Isaac Onyett, Xi	evisited Chen, Andrew Merdith, Ian Fairchild, Anthony Spence, Ying Zhou,
11:45 - 12:00	<b>Dynamic Carbon–Sulfur Cycling and Weathe</b> <i>Liu Willow Yang, Jin Wang, Weiqiang Li, Tao Y</i>		Early Cambrian Ocean: Insights from Potassium Isotopes
12:00 - 12:15	Progress in Cambrian chronostratigraphy at Fred Bowyer, Marissa Betts, James Holmes, Tim	0	
12:15 - 12:30	<b>Driving mechanisms for the oxygenation of I Darwinaji Subarkah</b> , Alan Collins, Morgan Bla		
12:30 - 14:00	Lunch Break (not catered)		
		Session 3	
14:00 - 14:15*	Highlight Talk: Deep time evolution of the La Manon Lorcery, Laurent Husson, Tristan Salles,	· · · · · · · · · · · · · · · · · · ·	· ·
14:15 - 14:30	Threshold Dynamics in Mass Extinction Ever Ivan Sudakow	nts	
14:30 - 14:45	Fitness landscape roughness promotes more Charles Bates, Russell Garwood, Luke Parry, Th		ın
14:45 - 15:00	Tectonic regime shapes microbial biosynthe Ana Clara Pelliciari Silva, Donato Giovannelli	tic potential across glo	bal geothermal systems
15:00 - 15:30	Earth System Science Group Annu	ual Business Mee	ting
15:30 - 18:00	Poster Session	15:30-16:30	'Things I wish I had known' Workshop
	(catered)		Discussion session focusing on some of the practical lessons, challenges, and unspoken realities of navigating a career in
	Presenters by posters 16:30-17:30 Alcoholic drinks available from 17:00		Earth system science research

### 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.

Intellectual Property Rights: All content presented at the Conference is the property of the respective presenters and may not be recorded, reproduced, or distributed without the express written consent of the presenter(s).

If you have any other queries throughout the conference, please contact info@lifeandplanet.com





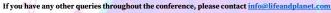
# Day 2 - Tuesday, July 15<sup>th</sup>

9:30 - 10:00	Arrivals and discussion (catered)		
	c	ession 4	
10:00 - 10:15*	Highlight Talk: Biophysical Climate Feedback of Vo Tianyi Chu, Daniel Lunt	•001011	Late Cretaceous
10:15 - 10:30	Nitrogen cycle response in western Tethys during Ruize Liang, Tianchen He, Robert Newton, Man Li, Jia		
10:30 - 10:45*			Permian-Triassic and Triassic-Jurassic hyperthermals ilton, Andrew Merdith, Stephen Hunter, Alexander Krause,
10:45 - 11:00	Slimehead size through time: testing the temperature-size relationship in Late Cretaceous Trachichthyidae Chloe Griffiths, James Witts, Julie Brown, Emma Bernard, Richard Twitchett		
11:00 - 11:30	Break (not catered)		
	S	ession 5	
11:30 - 11:45*	Highlight Talk: 3D ocean modelling resolves spation Aspen Sartin, Richard Stockey, Pam Vervoort, Eelco Ro		
11:45 - 12:00	Constraining the timing and quantity of volcanism Sev Kender, Erica Mariani, Michael Pribil, Kara Bogu Hesselbo, Andy Ridgwell		<b>e–Eocene Thermal Maximum</b> en, Karen Dybkjær, Melanie J. Leng, James B. Riding, Stephen
12:00 - 12:15	Using Cadmium Isotopes To Quantify Marine Organic Carbon Burial during the PETM  Ross Whiteford, Hannah Corinne Elms, Alexander J. Dickson, James Brakeley, Sev Kender, Ying Cui		
12:15 - 12:30	Rapid release of methane hydrates in the continental margin triggers the Paleocene–Eocene thermal maximum Guolin Xiong, Feifei Zhang, Yibo Lin, Esteban Fernández, Hua Zhang, Wenqian Wang, Hai Cheng, Gary Shaffer, Shu-zhong Shen		
12:30 - 14:00	Lunch Break (not catered)		
	S	ession 6	
14:00 - 14:15*	Highlight Talk: Climatic controls on coral reef biod	liversity hotspots t	hrough the Phanerozoic
14:15 - 14:30	Investigating the influence of the supercontinent of Hannah Woodward, Hannah Davies, Michael Way	cycle on planetary	habitability
14:30 - 14:45	<b>Devonian and modern reefs - new views on their e</b> <b>Aleksander Majchrzyk</b> , Mikołaj K. Zapalski	cological affinity	
14:45 – 15:00	A climatic framework for Ediacaran animal evolut Thomas Wong Hearing, Thomas M. Vandyk, Benjami Williams		Thomas H. P. Harvey, Alexandre Pohl; Alex G. Liu; Mark
15:00 – 18:00	Poster Session (catered)	15:30-16:30	'Publishing in Earth system science' discussion  Discussion session with journal editors
	Presenters by posters 16:30-17:30		Discussion session with journal eattors
	Alcoholic drinks available from 17:00		

## 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.

Intellectual Property Rights: All content presented at the Conference is the property of the respective presenters and may not be recorded, reproduced, or distributed without the express written consent of the presenter(s).



<sup>\*</sup> Highlight talks selected by the organizing committee



# Day 3 - Wednesday, July 16<sup>th</sup>

9:30 – 10:00 Arrivals and discussion (catered)

### **Session 7**

10:00 - 10:15*	<u>Highlight Talk:</u> Symbiotic fossils from the early Ediacaran Weng'an biota in South China and their implications for early lichenization <i>Hanzhi Qu</i> , <i>Qing Ouyang, Tian Gan, Shuhai Xiao, Xunlai Yuan, Ke Pang</i>	
10:15 - 10:30	The biomarker for animals in the ancient sedimentary record  Ilya Bobrovski, Jochen J. Brocks	
10:30 - 10:45	Reconstructing paleoenvironments of the Ediacara Biota in South Australia  Karol Faehnrich, García-Bellido D.C., Droser M.L., Gaines R.R., Gehling J.G.	
10:45 - 11:00	Revisiting the oxidant budget of the Shuram/DOUNCE event using global carbon isotope records Yinggang Zhang, Benjamin Mills, Maoyan Zhu	
11:00 - 11:30	Break (not catered)	

### **Session 8**

11:30 - 11:45	Searching for traces of Archean life in the 3.22 Ga Moodies Group, Barberton Greenstone Belt, South Africa and Eswatini B. R. Johnson, Lara, Y.J., Lambion, A., Javaux, E. J.,
11:45 - 12:00	Endolithic Microboring as a Micritizing Force and Early Diagenetic Step in Microbialites  Victoria C. Cassady, Mengshi Liu, Ariel McCormack, Kelsey Perez, Victoria A. Petryshyn, David A. Bottjer, Frank A. Corsetti
12:00 - 12:15	Microfossil diversity in the ca. 1 Ga Torridon Group: New insights into early non-marine eukaryotes
12:15 - 12:30	Edwin Rodriguez, Corentin Loron, Heda Agić, Sherri Donaldson, Pamela Knoll, Sean McMahon Insights into potential biosignatures associated with endolith gypsum habitats in the high Arctic. Sonia Papadaki, Anne D. Jungblut, Ozge Eyice, Dominic Papineau, James Bradley
12:30 - 14:00	Lunch Break (not catered)

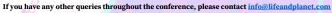
### Session 9

14:00 - 14:15*	<u>Highlight Talk</u> : Investigating the long-term impact of nutrient supply on global oceanic primary production.  David Stappard, Jamie Wilson, Andrew Yool, Toby Tyrrell
14:15 - 14:30	Sedimentary zinc in the Palaeoproterozoic: implications for the chemical conditions of early eukaryote habitats Maxwell Lechte, Malcolm Wallace, Ashleigh Hood, Christopher Reed, Nicola Cawood, Andrea Reed
14:30 - 14:45	Episodic intensification of marine phosphorus burial over the last 80 million years  Jinzhou Peng, Dengfeng Li, Simon W. Poulton, David Chew, Timothy D. Herbert, Pete Hollings, Xiaoming Sun
14:45 - 15:00	Nutrient and Weathering controls on Oceanic Anoxic Event 2 Chiara Krewer, S. W. Poulton, S. Hunter, R. J. Newton, B. J. W. Mills
15:00 - 15:30	Big Questions discussion: themes voted for on registration form
15:30 - 17:00	Departures and discussion (not catered)

### 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.

Intellectual Property Rights: All content presented at the Conference is the property of the respective presenters and may not be recorded, reproduced, or distributed without the express written consent of the presenter(s).



<sup>\*</sup> Highlight talks selected by the organizing committee

