

## Programme

<b>Thursday January 17<sup>th</sup></b>	
8.45-9.15	<b>Registration &amp; refreshments</b>
9.15-9.30	<b>Welcome – Graham Shields &amp; Ying Zhou, University College London</b>
<b>Session I</b>	
9:30-10:00	<b>Invited Speaker: Maoyan Zhu, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences</b> Deep roots of the Cambrian Explosion
10:00-10:15	<b>Joseph O’ Reilly, University of Bristol</b> Incorporating Fossil Occurrence Data For The Estimation Divergence Times Can Result In Impossibly Young Age Estimates
10:10-10:30	<b>Chuan Yang, NERC Isotope Geosciences Laboratory, British Geological Survey</b> Advances in the geochronological framework of the Ediacaran System
10:30-10:45	<b>Zhenbing She, China University of Geosciences (Wuhan)</b> Microscopic comb jelly fossils in the Ediacaran Doushantuo Formation, South China
10:45-11:00	<b>Tim Raub, University of St Andrews</b> Ediacaran-Cambrian Place and Pace are Interpretably Inseparable
11:00-11:15	<b>Alex Liu, University of Cambridge</b> Constraining the impact of bioturbation on substrate properties across the Ediacaran–Cambrian transition
<b>11.15 -11.45</b>	<b>Refreshment Break</b>
11:45-12:15	<b>Graham Shields, University College London</b> Unique Neoproterozoic carbon cycle sustained by coupled evaporite dissolution and pyrite burial
12:15-12:30	<b>Fangchen Zhao, Nanjing Institute of Geology &amp; Palaeontology, Chinese Academy of Sciences</b> The distribution and paleoecology of Cambrian Burgess Shale-type faunas in South China
12:30-12:45	<b>Meng Cheng, China University of Geosciences (Wuhan)</b> Evidence for extremely high organic export to the early Cambrian seafloor
12:45-13:00	<b>Dominic Papineau, University College London</b> Widespread Putrefaction After the Marinoan-Nantuo Snowball Earth
13:00-13:15	<b>Emily Mitchell, University of Cambridge</b> Interactions of Ediacaran organisms with their local environment
<b>13:15-14:15</b>	<b>Lunch</b>
<b>Session II</b>	
14:15 - 14:45	<b>Invited Speaker: Elizabeth Petsios, Baylor University</b> Dynamics of a “disaster”: extinction and recovery following the Permian-Triassic mass extinction in marine benthic ecosystems
14:45 - 15:05pm	<b>Jinnan Tong, China University of Geosciences (Wuhan)</b> The Permian-Triassic sequence in North China: Implication to the Palaeozoic-Mesozoic transition on land
15:05 - 15:20	<b>David Bond, University of Hull</b> Textured Organic Surfaces in the Boreal Early Triassic: Microbial Life Thrived After the End Permian Extinction
15:20 - 15:35	<b>Wenwei Guo, China University of Geosciences (Wuhan)</b> Ichnofossils from terrestrial P3-T2 succession at the Shichuanhe section in Shaanxi Province, North China
15.35 - 16.50	<b>Satoshi Takashi, University of Tokyo Science, Japan</b>

	Pelagic deep-sea records of the end-Permian mass extinction event
15:50 - 16:10	<b>Jacapo Dal Corso, University of Leeds</b> Sulphur and mercury link the end-Permian terrestrial mass extinction to Siberian traps volcanism
<b>16.10 - 16:35</b>	<b>Refreshment Break</b>
16.35 - 16:55	<b>Zhong-Qiang Chen, China University of Geosciences (Wuhan)</b> Intrinsic engineer driving ecosystem recovery after the end-Permian mass extinction: Sponge pump and arms race in Triassic oceans
16:55 - 17:10	<b>Tom Stubbs, University of Bristol</b> Tetrapod body size was an important selective factor during the Permo-Triassic mass extinction
17:10 - 17:25	<b>Matthew Kent, University of Nottingham</b> Developments in Fourier Transform Infrared spectroscopy imaging for the determination of modern and end Permian UV-B fluxes from palynomorph wall chemistry.
17:25 - 17:40	<b>Wenchao Shu, China University of Geosciences (Wuhan)</b> Permian-Triassic palynoflora turnover and implication for the palaeoclimatic reconstructions at Dalongkou section, northern Xinjiang
<b>17.40-18.20</b>	<b>PLENARY KEYNOTE: Douglas Erwin, Smithsonian Institution</b> <b>Resilience and Stability in the Phanerozoic: The Role of Complex Evolutionary Time</b>
<b>18.20 - 19.30</b>	<b>Poster Session and Reception</b>
<b>Friday 18<sup>th</sup> January</b>	
<b>Session III</b>	
9:30-10:00	<b>Invited Speaker: Ding Lin, Institute of Tibetan Plateau Research, Chinese Academy of Sciences</b> The uplift history of southern Tibet and related climate change
10:00-10:20	<b>Robert Spicer, The Open University</b> Exploring 'Shangri-La' – The Elevation and Climate of a Tibetan Paleogene Hidden Valley
10:20-10:40	<b>Alex Farnsworth, University of Bristol</b> Can novel techniques using climate models aid in determining the palaeoaltimetric history of the Himalayas and Tibet Plateau?
10:40-11:00	<b>Tao Su, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences</b> The evolution of plant diversity in the Qinghai-Tibetan Plateau: Evidence from fossil records
11:00-11:15	<b>Zhe-Kun Zhou, Xishuangbanna Tropical Botanical Garden Chinese Academy of Sciences</b> Cenozoic floras of Yunnan, and their response to environmental change
11:15 - 11:30	<b>Paul Valdes, University of Bristol</b> Linking Tibetan Uplift to Vegetation and Biodiversity change in the Cenozoic?
<b>11.30 -11.55</b>	<b>Refreshment Break</b>
<b>Session IV</b>	
11:55 - 12:25	<b>Invited Speaker: Tim Lenton, University of Exeter</b> Biosphere resilience from Precambrian to present day
12:25 - 12:45	<b>Invited Speaker: David Harper, Durham University</b> The end Ordovician extinction: ecosystem resilience decoupled from taxonomic loss
12:45 - 13:00	<b>Morten Anderson, University of Cardiff</b>

	Improved past ocean anoxia reconstruction from combining the uranium and molybdenum isotope redox proxies
13:00-13.15	<b>Xi Chen, Nanjing University, China</b> Dynamic marine redox conditions during the end-Ordovician mass extinction event
<b>13.15-14.15</b>	<b>Lunch</b>
<b>14:15 - 14:55</b>	<b>PLENARY KEYNOTE: TYLER VOLK, NEW YORK UNIVERSITY</b> <b>"Life, culture, and modes of stability."</b>
14:55 - 15:10	<b>Alexander Dunhill, University of Leeds</b> Community structure and ecosystem collapse across major extinction events
15:10 - 15:25	<b>Bo Chen, Nanjing Institute of Geology and Palaeontology, Chinese University of Geosciences</b> Did Devonian climatic variation drive the rise of terrestrial vascular plants?
15:25 - 15:40	<b>Alex Krause, University of Leeds</b> Stepwise oxygenation of the Paleozoic atmosphere
15:40 - 15:55	<b>Sarah Baker, University of Exeter</b> Transitioning into Cretaceous Oceanic Anoxic Event 2: CO <sub>2</sub> induced climate forcings on the wildfire record.
15:55 - 16.15	<b>Michael Benton, University of Bristol</b> Drivers and driven: how to test environmental impacts on life
<b>16.15 - 16:35</b>	<b>Refreshments</b>
16:35 - 17.05	<b>Invited Speaker: Toby Tyrell, University of Southampton</b> Earth System Resilience: A Contest between Destabilising Factors and Stabilising Feedbacks
17.05 - 17.25	<b>Invited Speaker: Benjamin Mills, University of Leeds</b> A carbon cycle perspective on Earth system transitions and resilience
17:25 - 17:40	<b>Lee Klinger, Independent Scientist</b> The Transition from the Holocene to the Anthropocene: Do humans make the biosphere more resilient or less resilient?
17:40 - 17.55	<b>Junxuan Fan, Nanjing University China</b> Big data Revolution in Geology
17:55 - 18:15	<b>Invited Speaker: David Waltham, Royal Holloway University</b> Is biosphere resilience an illusion? Discussion

<b>Poster Abstracts</b>
<b>Lewis Alcott, University of Leeds</b> Stepwise increases in Earth oxygenation are an inherent property of global biogeochemical cycling
<b>Bethany Allen, University of Leeds</b> Tetrapod spatial biodiversity patterns across the end-Permian mass extinction and recovery interval
<b>Fuen Canadas, University College London</b> Paleogeographic context of black shales deposition in South China during the Shuram anomaly, Ediacaran Period
<b>Manfredo Capriolo, University of Padova</b> Gas exsolution bubbles in melt inclusions of CAMP basaltic rocks
<b>Daniel Condon, British Geological Society</b> Big Data' - Geoscience Opportunities: exploiting the stratigraphic archive
<b>Tianchen He, University of Leeds</b> Complex signals of weathering and redox in the late Pliensbachian–Toarcian of the Mochras borehole
<b>Colin Mettam, University of St Andrews</b> Geochemical constraints for the Latest Permian Extinction in East Greenland
<b>Tony Prave, University of St Andrews</b> The subducted record of the Cryogenian-Ediacaran-Cambrian successions of South China
<b>Satoshi Takahashi, University of Tokyo</b> Conodont natural assemblages in the earliest Triassic deep sea black claystone: An evidence of water column anoxia?
<b>Rosalie Tostevin, University of Oxford</b> Calcium isotope constraints on carbonate sedimentation during the emergence of skeletonisation