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## **Wednesday, 28 August 2019**

**08:30-09:15: Coffee / Chatting**

**09:15-09:20: Opening remarks**

### **LIPS I**

Chairpersons: David Bond / Steve Grasby

**09:20-09:35: GC5-Mass-20**

Which impact had CAMP volcanism on the latest Triassic Earth System?

**Landwehrs Jan**, Feulner Georg, Hofmann Matthias, Wagreich Michael

**09:35-09:50: GC5-Mass-59**

Sedimentological and geochemical facies changes in the NE Paris Basin linked to the end-Triassic mass extinction event

**Kuhlmann Natascha**, Thein Jean, Franz Sven-Oliver, Colbach Robert, Faber Alain

**09:50-10:05: GC5-Mass-41**

Platinum-group elements link the end-Triassic mass extinction to volcanism

**Tegner Christian**, Marzoli Andrea, McDonald Iain, Youbi Nasriddine, Lindström Sofie

**10:05-10:20: GC5-Mass-68**

Temporal analysis of Early Jurassic large igneous province activity and its relationship to environmental perturbations

**Al Suwaidi Aisha**, Ruhl Micha, Mercer Cameron

**10:20-10:40: GC5-Mass-80 (keynote lecture)**

Sulfur and Mercury geochemistry of end=permian successions in China reveal terrestrial mass extinction timing and mechanisms

**Dal Corso Jacopo**

**10:40-11:30: Coffee break with posters (see page 8)**

### **LIPSII**

Chairpersons: Paul Wignall / Sofie Lindström

**11:30-11:50: GC5-Mass-88 (keynote lecture)**

Volatile elements in CAMP basalts at the Triassic-Jurassic boundary

**Marzoli Andrea**, Capriolo Manfredo, Callegaro Sara, Dal Corso Jacopo, De Min Angelo, Baker Don, Davies Joshua H.F.L.

**11:50-12:05: GC5-Mass-26**

The onset of CAMP volcanism, environmental change, and the magnitude of carbon-cycle perturbation at the Triassic-Jurassic mass extinction (Neuquen Basin, Argentina)

**Ruhl Micha**, Hesselbo Stephen, Mancenido Miguel, Al-Suwaidi Aisha, Jenkyns Hugh, Damborenea Susana, Storm Marisa, Riccardi Alberto

**12:05-12:20: GC5-Mass-14**

Timing and Paleoenvironmental Implications of Deccan Volcanism Relative to the KPg Extinction

**Adatte Thierry**, Keller Gerta, Eric Font, Mateo Paula, Punekar Jahnnavi, Schoene Blair, Eddy Michael, Spangenberg Jorge, Khadri Syed

**12:20-12:35: GC5-Mass-10**

Mercury anomalies across the Cretaceous-Paleogene mass extinction in northern China: Links to Deccan volcanism and palaeoecosystem impacts

**Gu Xue**, Zhang Laiming, Wang Chengshan, Tan Jie, Yao Hanwei

### **Life on the Edge**

**12:35-12:50: GC5-Mass-2**

Carbon isotopic excursion couples with sedimentary facies change from Wuchiapingian to Changhsingian of Late Permian in South China: caution for the application of geochemical parameters as global change

**Yang Fen**, Wang Yongbiao, Yi Zhixing, Wang Tan, Huang Yafei

**12:50-14:00: Lunch break**

### **Life on the Edge**

Chairpersons: Karen Bacon / Daoliang Chu

**14:00-14:20: GC5-Mass-74 (keynote lecture)**

The abnormal marine ecosystems after the Permian-Triassic mass extinction

**Song Haijun**

**14:20-14:35: GC5-Mass-12**

High-resolution variation of ostracod assemblages from microbialites near the Permian-Triassic boundary at Zuodeng, Guangxi, South China

**Wan Junyu**, Yuan Aihua, Crasquin Sylvie, Jiang Haishui, Yang Hao, Hu Xia

**14:35-14:50: GC5-Mass-23**

The end-Permian mass extinction in the Southern and Eastern Alps

**Nowak Hendrik**, Kustatscher Evelyn, Roghi Guido

**14:50–15:05: GC5-Mass-1**

The change of microbial forms associated with different fossil assemblages during the Early Triassic transgression: implication for the evolution of shallow marine ecology in the aftermath of end-Permian mass extinction

**Wang Tan**, Burne Robert, Yuan Aihua, Wang Yongbiao, Yi Zhixing

**15:05–15:20: GC5-Mass-7**

Lowest Triassic anachronistic facies in the Cili region of South China and its palaeoenvironmental implications

**Deng Baozhu**, Wang Yongbiao

**15:20–15:35: GC5-Mass-53**

Ammonite death and nautilus survival at the Chicxulub massacre: here's what we know so far

**Goolaerts Stijn**

**15:35–15:50: GC5-Mass-56**

Survival of arid-adapted plants over global biotic crises is influenced by their pollination biology

**Barbolini Natasha**, Hoorn Carina, Dupont-Nivet Guillaume, Woutersen Amber, Silvestro Daniele, Meijer Niels, Rydin Catarina

**15:50–16:10: Tea break with posters (see page 8)****Ocean Anoxia**

Chairpersons: Jessica Whiteside / Bas van de Schootbrugge

**16:10–16:30: GC5-Mass-83 (keynote lecture)**

Mass loss of stable hypoxic habitats in the end-Ordovician

**Hammarlund Emma**, Bjerrum Christian J.

**16:30–16:45: GC5-Mass-22**

Marine anoxia and mass extinction – a ubiquitous link?

**Wignall Paul**, Takahashi Satoshi

**16:45–17:00: GC5-Mass-33**

Potential impact of the end-Permian pelagic deep-sea anoxia

**Takahashi Satoshi**, Kaiho Kunio, Yamasaki Shin-ichi, Tsuchiya Noriyoshi, Yoshida Takeyoshi, Nakada Ryoichi, Watanabe Yusuke, Takahashi Yoshio, Ogawa Yasumasa, Kimura Kazuhiko

**17:00–17:15: GC5-Mass-43**

Paleoenvironmental and paleoecological trends leading up to the end-Triassic mass extinction event: story of two sites from northeastern Panthalassa.

**Larina Ekaterina**, Bottjer David J., Corsetti Frank A., Berelson William M., Zonneveld John-Paul, Celestian Aaron J., Bailey Jake V., West A. Joshua, Yager Joyce A.

**17:15–17:30: GC5-Mass-60**

Vegetation changes during Early Jurassic global warming with impacts on oceanic anoxia

**Slater Sam**, Twitchett Richard, Danise Silvia, Vajda Vivi

**17:30–19:00: Ice-Breaker**

Thursday, 29 August 2019**08:30–09:00: Coffee / Chatting****Resilience & Recovery I**Chairpersons: Sofie Lindström / Jessica Whiteside**09:00–09:20: GC5-Mass-75 (keynote lecture)**

Cambrian extinctions

**Zhuravlev Andrey Yu.****09:20–09:35: GC5-Mass-17**

The impact of the end-Permian mass extinction on the global distribution of marine invertebrates

**Allen Bethany J.**, Wignall Paul B., Hill Daniel J., Saupe Erin E., Dunhill Alexander M.**09:35–09:50: GC5-Mass-16**

Gulliver's Triassic Travels: Body size changes through the end-Triassic mass extinction and recovery

Atkinson Jed, Wignall Paul

**09:50–10:05: GC5-Mass-15**

Rapid biological recovery following the Cretaceous-Paleogene boundary catastrophe in the Maastrichtian type area

**Vellekoop Johan**, Van Tilborgh Kris H., Van Knippenberg Paul, Jagt John W. M., Stassen Peter, Goolaerts Stijn, Speijer Robert P.**10:05–10:25: GC5-Mass-76 (keynote lecture)**

New constraints on the disappearance of archaeocyathan reefs in the western United States

**Pruss Sara****10:25–11:30: Coffee break with posters (see page 8)****Land & Plants 1**Chairpersons: Steve Grasby / Bas van der Schootbrugge**11:30–11:45: GC5-Mass-21**

The terrestrial expression of the Late and End Devonian Mass Extinctions

**Marshall John****11:45–12:00: GC5-Mass-67**

The assessment of end-Permian ozone shield strength using Fourier transform infrared spectroscopy to investigate sporopollenin chemistry

**Kent Matthew**, Shu Wenchoao, Fraser Wesley, Benca Jeffrey, Looy Cindy, Duijnstee Ivo, Lomax Barry**12:00–12:15: GC5-Mass-40**

Response of high southern latitude herbivorous arthropod guilds to the collapse of glossopterid forests during the end-Permian biotic crisis

**McLoughlin Stephen****12:15–12:30: GC5-Mass-42**

Refined Permian-Triassic timeline reveals early collapse and delayed recovery of the south polar terrestrial ecosystem

**Mays Chris**, Vajda Vivi, Frank Tracy, Fielding Christopher, Tevyaw Allen, McLoughlin Stephen**12:30–12:45: GC5-Mass-49**

Teratology in fossil spores and pollen - A result of chance, a genetic pattern or a result of ecological upheaval?

**Gravendyck Julia**, Bachelier Julien, Kürschner Wolfram**12:45–13:00: GC5-Mass-39**

Mis-shapes, mistakes, misfits: aberration &amp; mutations in terrestrial palynomorphs

**Lomax Barry****13:00–14:00: Lunch break****Land & Plants 2**Chairpersons: Daoliang Chu / David Bond**14:00–14:20: GC5-Mass-79 (keynote lecture)**

Permian-Triassic biotic and abiotic facets

**Schneebeli-Hermann Elke****14:20–14:35: GC5-Mass-52**

Soil loss and resilience associated with end-Triassic deforestation

**van de Schootbrugge Bas**, Lindstrom Sofie, Strother Paul, Hollaar Teuntje, Kuhlmann Natascha, Thein Jean, van der Weijst Carolien, van Konijnenburg-van Cittert Han, Schobben Martin, Visscher Henk, Sluijs Appy**14:35–14:50: GC5-Mass-50**

Mutagenesis in land plants during the end-Triassic mass extinction

**Lindström Sofie**, Sanei Hamed, van de Schootbrugge Bas, Pedersen Gunver K., Lesher Charles E., Tegner Christian, Heunisch Carmen, Dybkjær Karen, Outridge Peter M.**14:50–15:05: GC5-Mass-11**

Second-coming of the dinosaurs: Rapid diversification of birds following the end-Cretaceous mass extinction

**Field Daniel**, Berv Jacob, Saupe Erin, Bercovici Antoine, Hsiang Allison, Lyson Tyler, Dunn Regan

**15:05–15:20: GC5-Mass-28**

Correlated plant diversity and climate in North America during Earth system succession following the K-Pg mass extinction  
**Miller Ian**, Lyson Tyler, Bercovici Antoine

**15:20–15:35: GC5-Mass-61**

New Evidence for Canopy Collapse at the Cretaceous-Paleogene Boundary from Leaf Cuticles  
**Dunn Regan**, Bercovici Antoine, Vajda Vivi, Field Daniel, Lyson Tyler, Fastovsky David, Pearson Dean

**15:35–15:55: GC5-Mass-77 (keynote lecture)**

Disentangling the adaptive radiation ('Siluro-Devonian Explosion') of land plants, environmental change and extinction events

**Wellman Charles H.**

**15:55–16:15: Tea break with posters (see page 8)****The 6th Extinction?**

Chairpersons: Karen Bacon / Paul Wignall

**16:15–16:35: GC5-Mass-78 (keynote lecture)**

The functional consequences of extinctions: from giant sharks to small mollusks  
**Pimiento Catalina**

**16:35–16:55: GC5-Mass-86 (keynote lecture)**

Mammalian extinctions in the age of humans  
**Lyons S. Kathleen**

**16:55–18:00: Round Table Discussion****19:30: Conference Dinner**

**Friday, 30 August 2019**

**08:30–09:00: Coffee / Chatting**

### **Land & Plants 3**

Chairpersons: Bas van der Schootbrugge / Karen Bacon

**09:00–09:20: GC5-Mass-84 (keynote lecture)**  
Mesozoic plants in palaeo-atmospheric and climate change research  
**Steinthorsdottir Margret**

**09:20–09:35: GC5-Mass-13**  
The biotic recovery of the flora during the Early and Middle Triassic  
**Kustatscher Evelyn**

**09:35–09:50: GC5-Mass-58**  
Palynofloral turnover across the Triassic-Jurassic transition in the Sichuan Basin, southwestern China  
**Li Liqin**, Wang Yongdong, Vajda Vivi

**09:50–10:05: GC5-Mass-35**  
Rapid ecological succession of pioneering fern species at the John's Nose Cretaceous-Paleogene boundary section (North Dakota, USA)  
**Bercovici Antoine**, Dunn Regan E, Vajda Vivi, Field Daniel J, Lyson Tyler R, Fastovsky David E, Pearson Dean A

**10:05–10:20: GC5-Mass-29**  
Changes in dinosaur ecosystems leading up to the Cretaceous-Paleogene boundary in North America  
**Lyson Tyler**, Bercovici Antoine, Miller Ian

**10:20–10:35: GC5-Mass-54**  
Palynology across the pristine spherule layer marking the Cretaceous-Paleogene boundary at Gorgonilla Island, Colombia  
**Vajda Vivi**, Ocampo Adriana, Bermudez Hermann

**10:35–11:25: Coffee break with posters (see page 8)**

### **Climate Change**

Chairpersons: Yadong Sun / David Bond

**11:25–11:45: GC5-Mass-85 (keynote lecture)**  
Timing and pacing of the Late Devonian mass extinction event regulated by eccentricity and obliquity  
**De Vleeschouwer David**, Da Silva Anne-Christine

### **11:45–12:00: GC5-Mass-71**

Parallel pCO<sub>2</sub>, Hydrologic and Conifer Physiognomic Trends across the end-Triassic extinction  
**Whiteside Jessica**, Olsen Paul, Schaller Morgan

### **12:00–12:15: GC5-Mass-72**

A biomarker and compound specific isotope investigation into the end-Triassic extinction; implications for CIEs and extinction  
**Fox Calum P.**, Whiteside Jessica H., Olsen Paul E., Cui Xingqian, Summons Roger E., Grice Kliti

### **12:15–12:30: GC5-Mass-32**

Simulations of the environmental effects of the Chicxulub impact imply important contribution to the end-Cretaceous mass extinction  
**Brugger Julia**, Hofmann Matthias, Petri Stefan, Feulner Georg

### **12:30–12:45: GC5-Mass-70**

Ecosystem Pressure in the Early Eocene Lake Uinta, Green River Formation, Utah: Hydrological and Biogeochemical Cycling During Rapid Warming Events  
**Elson Amy**, Marshall John, Rohrssen Megan, Whiteside Jessica

### **12:45–13:05: GC5-Mass-73 (keynote lecture)**

Catastrophe at the end of the Cretaceous? Shallow marine biodiversity, palaeoecology, and the complexities of the Cretaceous-Paleogene (K-Pg) mass extinction event  
**Witts James**, Landman Neil H., Garb Matthew P., Irizarry Kayla M., Thibault Nicolas, Razmjooei Mohammed, Larina Ekaterina, Edwards Lucy E., Yancey Thomas E., Rovelli Remy, Meyers Corinne E.

**13:05–14:00: Lunch break**

### **Biogeochemistry**

Chairpersons: Paul Wignall / Yadong Sun

**14:00–14:20: GC5-Mass-82 (keynote lecture)**  
Redox-dependent phosphorus cycling sets-off a cascading biogeochemical crisis during the end-Permian

**Schobben Martin**, Bond David P.G., Wignall Paul B., Newton Robert J., Poulton Simon W.

### **14:20–14:35: GC5-Mass-47**

Sedex brine expulsions to the ocean: The underlying culprit of catastrophic global change and mass extinctions

**Poul Emsbo**, Vandenbroucke Thijs R. A., McLaughlin Patrick I., Premo Wayne. R., Neymark Leonid. A., Brett Carlton E.

**14:35–14:50: GC5-Mass-48**

Metal-induced malformations in fossil plankton ground-truth a sedex-fueled mechanism for early Palaeozoic mass extinctions

**Vandenbroucke Thijs R. A.**, Emsbo Poul, McLaughlin Patrick I., De Weirdt Julie, De Backer Tim, Bancroft Alyssa M., Williams Mark

**14:50–15:05: GC5-Mass-19**

The nitrogen cycle and the Ammonium Ocean hypothesis for the end-Permian Mass Extinction  
**Sun Yadong**, Zulla Manuel, Joachimski Michael, Bond David, Wignall Paul, Zhang Zaitian, Zhang Muhui

**15:05–15:20: GC5-Mass-36**

Timing and causes of early Triassic climate disturbances; Linking U-Pb dates and  $\delta^{13}\text{C}_{\text{carb}}$  record  
**Widmann Philipp**, Greber Nicolas, Ovtcharova Maria, Schneebeli-Hermann Elke, Leu Marc, Goudemand Nicolas, Baresel Björn, Schaltegger Urs, Bucher Hugo

**15:20–15:35: GC5-Mass-62**

Early Triassic nutrient crises limited marine productivity

**Grasby Stephen**, Knies Jochen, Bond David, Wignall Paul, Beuchamp Benoit

**15:35–15:50: GC5-Mass-8**

Complex causes of Australian megafauna extinctions during the Late Pleistocene

**Saltré Frédéric**, Chadoeuf Joel, Peters Katharina, McDowell Matthew, Friedrich Tobias, Timmermann Axel, Ulm Sean, Bradshaw Corey

**15:50–16:10: GC5-Mass-81 (keynote lecture)**

Climate Related Stressors and Mass extinctions

**Joachimski Michael M.**

16:10–16:30: Concluding remarks

## Poster viewing: daily during the coffee/tea breaks

### P1: GC5-Mass-9

Sedimentary markers of ocean plateau volcanism during the Cenomanian-Turonian Oceanic Anoxic Event

**Percival Lawrence**, van Helmond Niels, Snoeck Christophe, Goderis Steven, Claeys Philippe

### P2: GC5-Mass-18

Carbonate clumped isotope seawater temperature reconstructions from macrofaunal assemblages of the Campanian, Maastrichtian and Danian from the area around Maastricht

**Müller Inigo Andreas**, Rijkens David, Jagt John W.M., Ziegler Martin

### P3: GC5-Mass-24

Is the rate of human-induced arthropod extinction comparable with diversity changes during the FIVE BIG mass extinctions?

**Kotthoff Ulrich**, Dunlop Jason, Harms Danilo, Husemann Martin, Lehmann Jens, Kubiak Martin, van de Shootbrugge Bas, Wappler Torsten

### P4: GC5-Mass-25

A new proxy for trophic and ecosystem-level responses to mass extinction events? The palaeoecology of conodonts

**Stockey Christopher**, Harvey Thomas, Murdock Duncan, Donoghue Philip, Purnell Mark

### P5: GC5-Mass-27

Death defying morphologies: mass extinction and disparity in the order Harpetida

**Beech James**, Lamsdell James

### P6: GC5-Mass-31

An orbital time scale of environmental perturbations across the Cretaceous - Paleogene boundary section of Nye Kløv (N. Denmark)

**Møller Sarah**, Adatte Thierry, Bjerrum Christian J., Spangenberg Jorge E., Thibault Nicolas

### P7: GC5-Mass-34

Conodont natural assemblages in lowermost Triassic deep-sea claystone from northeastern Japan, with probable soft-tissue impressions

**Takahashi Satoshi**, Yamakita Satoshi, Suzuki Noritoshi

### P8: GC5-Mass-44

Biomarker evidence for the origin and crisis of early angiosperm during late Permian-early Triassic

**Wang Chunjiang**

### P9: GC5-Mass-46

Archives from the past: characterization of oolites deposited in the early aftermath of mass extinctions  
**Urban Ingrid**, Richoz Sylvain

### P10: GC5-Mass-51

First record of the end-Triassic mass-extinction in the Netherlands

**van de Shootbrugge Bas**, Smeets Mart, Reumer Jelle

### P11: GC5-Mass-57

Building an accurate and precise chronological framework for the British Palaeogene Igneous Province

**Mahajan Rasika**, Ickert Ryan, Mark Darren

### P12: GC5-Mass-63

Elucidating human-megafauna interactions in South America: The archaeological and paleontological potential of the archaeological site of Santa Elina, Brazil

**Pansani Thaís**, Vialou Águeda, Vialou Denis, Becker-Kerber Bruno, Figuti Levy, Dantas Mário, Pacheco Mírian

### P13: GC5-Mass-65

Microbial Mats and Seafloor Recolonization following Mass Extinctions

**Mascord Catherine**, Herringshaw Liam, Mazik Krysia, Parsons Daniel, McIlroy Duncan

### P14: GC5-Mass-66

Constraining end-Triassic carbon cycle perturbations from single fern spore carbon isotope records

**Valeriani Lucrezia**, van de Shootbrugge Bas, Frieling Joost, van Roij Linda, Sluijs Appy

### P15: GC5-Mass-69

Photic zone euxinia in North East England following the end-Triassic mass extinction

**Beith Sarah**, Whiteside Jessica, Gröcke Darren, Marshall John

### P16: GC5-Mass-90

Pulses of ocean acidification at the Triassic Jurassic boundary recorded by boron isotopes

**Trudgill Molly**, Rae James, Van Mourik Michael, Crumpton-Banks Jessica, Burke Andrea, Corsetti Frank, Greenop Rosanna, McIntyre Andrew, Rose Catherine, West Joshua, Greene Sarah

### P17: GC5-Mass-91

Milankovitch forcing of Early Jurassic wildfires

**Hollaar Teuntje P.**, Baker Sarah J., Deconinck Jean-Francois, Mander Luke, Ruhl Micha, Hesselbo Stephen P., Belcher Claire M.

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