

ORAL PRESENTATIONS

Monday 18 June – Pentland Suite

Plenary Session – Keynote lectures

- 08:30** **Jennifer Fehrenbacher**
The geochemistry of planktic foraminifera *Neogloboquadrina dutertrei* and its utility in paleoceanographic reconstructions: Lessons from culture experiments
- 09:00** **Elisabeth Alve**
Advances in Foraminiferal Biomonitoring
- 09:30** **Tine Lander Rasmussen**
Food is good - if temperature is right: Most North Atlantic benthic foraminiferal species at intermediate water depth respond to temperature more than to food changes

10:00 – 11:00 **Coffee Break – Poster Session in South Hall**

Monday 18 June – Prestonfield room

Session III – Biomineralisation and geochemistry of Proxies-Field calibrations Laboratory culture and Paleo oceanographic reconstructions

Conveners: **Jonathan Erez, Lennart de Nooijer, Takashi Toyofuku**

- 11:00 **Jonathan Erez, Itay Cohen, David Evans, Nicola Allison, Zvy Dubinsky**
Foraminifera and corals show similar calcification mechanisms
- 11:15 **Jarosław Tyszką, Ulf Bickmeyer, Markus Raitzsch, Jelle Bijma, Jan Goleń, Karina Kaczmarek, M. Janse**
Morphogenesis and biomineralisation of foraminiferal tests: Dynamics of cytoskeletal structures
- 11:30 **Alex Gagnon**
Role of Specific Ion Transport in Foram Biomineralization
- 11:45 **Yurika Ujiié, Yoshiyuki Ishitani, Shun'ichi Ishii, Yukiko Nagai, Yoshihiro Takaki, and Takashi Toyofuku**
Transcript assembly and quantification by RNA-Seq identifies candidate genes for foraminiferal biomineralization of *Ammonia beccarii*
- 12:15 **Esmee Geerken, Lennart de Nooijer, Takashi Toyofuku, Anne Roepert, Lubos Polerecky, Gert-Jan Reichart**
Calcite precipitation rate in foraminiferal calcite and impact on element incorporation
- 12:30 **Inge van Dijk, Christine Barras, Gert-Jan Reichart, Shai Oron, David Evans, Wolfgang Müller, Aurélie Mouret**
Incorporation of manganese in benthic foraminifera with contrasting calcification strategies
- 12:45 **Pierre-Antoine Dessandier, Giuliana Panieri, Jochen Knies, Simone Sauer**
Modern benthic foraminifera from active methane pockmarks in the Arctic: relationships between the distribution and isotopic signature of fauna and pore water geochemistry
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13:00 -14:00 **Lunch in Restaurant**

- 14:00 **Patrick Grunert, Werner E. Piller, Yair Rosenthal, Frans Jorissen**
A link between evolutionary modification of biomineralisation and Mg-incorporation in *Bulimina* species?
- 14:15 **William R Gray, Syee Weldeab, David W Lea, Yair Rosenthal, Niki Gruber, Barbara Donner, Gehard Fischer**
The effects of temperature, salinity, and the carbonate system on Mg/Ca in planktic foraminifera *Globigerinoides ruber* (white): A global sediment trap calibration'.
- 14:30 **Manuel F. G. Weinkauf, Joanna J. Waniek, Torsten Vennemann, Rossana Martini**
The impact of shell calcification on the stable isotope composition of planktonic Foraminifera shells
- 14:45 **Chiara Borrelli, Giuliana Panieri**
Melonis barleeanus is a calcareous and (facultative) agglutinated foraminifera
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15:00 – 16:00 **Coffee Break – Poster Session in South Hall**

Session II – Advances in Foraminiferal Geochemistry

Conveners: **Howie Spero, Jelle Bijma**

- 16:00 **Toyofuki Takashi**
Fantastic voyage to the cellular functions of foraminiferal chamber formation.
- 16:15 **Haojia Ren, Anna Christina Ravelo and Daniel Sigman**
Calibrating planktonic foraminifera shell-bound nitrogen isotopes for reconstructing past changes in marine nitrogen cycle.
- 16:30 **Anna Jentzen, Dirk Nürnberg, Edmund Hathorne, Klaus Jochum, Jan Leitner, Joachim Schönfeld and Ralf Schiebel**
Mg/Ca and $\delta^{18}\text{O}$ in living planktic foraminifers from the water column.
- 16:45 **Lorna Kearns, G.L. Foster, J.A. Milton and T.H.G. Ezard**
Stable isotopes and trace element variability between morphotypes of *Globigerinoides ruber*.
- 17:00 **Caitlin Livsey, Reinhard Kozdon, Dorothea Bauch and Howard Spero**
Investigating ontogenetic calcite $\delta^{18}\text{O}$ and Mg/Ca variability in *Neoglobobadrina pachyderma*.
- 17:15 **Inge Van Dijk, Lennart de Nooijer and Gert-Jan Reichart**
Sulfur incorporation in foraminifera: Effect of Mg content.
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17:30 – 18:30 **Poster Session in South Hall**

Monday 18 June – Pentland West room

Session IV – Advances in Foraminiferal Biomonitoring

Conveners: **Frans Jorissen, Joachim Schoenfeld, Silvia Spezzaferri**

- 11:00 **Noortje Dijkstra, Steffen Aagaard-Sørensen and Juho Junttila**
Foraminiferal responses to drill cutting releases in the SW Barents Sea
- 11:15 **Noémie Deldicq, Vincent Bouchet, Yann Méar, Noémie Baux and Jean-Claude Dauvin**
Benthic foraminifera to assess ecological quality status in the salmon farm of the “Rade de Cherbourg” (France)
- 11:30 **Silvia Hess, Lars Birkeland Sjetne and Elisabeth Alve**
Does aquaculture activity have an impact on the benthic environment? - A study from Hardangerfjorden (SW Norway)
- 11:45 **Briz Parent, Christine Barras and Frans Jorissen**
Optimised method to concentrate living benthic foraminifera (Rose Bengal stained) from sandy sediment by means of high density liquids
- 12:15 **Margarette Bayrón-Arcelay, Kyara Rodríguez-Camacho and Dimaris Acosta-Mercado**
Morphological response of benthic foraminifera to sediment composition: applying geometric morphometric for potential bio-monitoring
- 12:30 **Frans Jorissen, Briz Parent, Constance Choquel, Grégoire Maillet, Eric Bénéteau and Cristine Barras**
The use of sediment grain size analysis in foraminiferal biomonitoring
- 12:45 **Olugbenga Fajemila, Martin Langer and Jere Lipps**
Shallow-water benthic foraminiferal assemblages from Moorea (South Pacific): implications for environmental assessment and monitoring
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13:00 -14:00 *Lunch in Restaurant*

- 14:00 **Melissa Lobegeier**
The effectiveness of foraminifera as biomonitors in St. Andrew Bay and Apalachee Bay, Florida
- 14:15 **Michael Martínez-Colón and Akram El Kateb**
Exposure and toxicity of Potentially Toxic Elements in a tropical estuary: Is there a benthic foraminiferal response to bioavailability?
- 14:30 **Chen Kenigsberg, Sigal Abramovich and Orit Hyams-Kaphzan**
The effect of brine discharge by desalination plants on shallow marine ecosystems: benthic foraminifera as a case study
- 14:45 **Akram El Kateb, Claudio Stalder, Christoph Neururer, Andres Rüggeberg, Robin Fentimen, Stephanie Stainbank, Jorge Spangenberg and Silvia Spezzaferri**
Lesser Syrtis (South of Tunisia): Phosphate industry contamination assessment using a multidisciplinary approach
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15:00 – 16:00 *Coffee Break – Poster Session in South Hall*

Session VIII – Planktonic Foraminifera; a bridge between ecological and evolutionary dynamics in deep time

Conveners: **Andy Purvis, Tom Ezard, Isabel Fenton**

- 16:00 **Pincelli Hull, Allison Y. Hsiang, Anieke Brombacher, Marina Costa Rillo, Maryline Vautravers, Stephen Conn, Catherine V. Davis, Sian Lordsmith, Lyndsey Fox, Jeroen Groeneveld, Anna Jentzen, Julie Meilland, Kirsty M. Edgar, Aurore Movellan**
Quantifying endless forms for ecological and evolutionary research
- 16:15 **R. Mark Leckie, Bridget S. Wade, Paul N. Pearson, Andrew J. Fraass, David J. King, Richard K. Olsson, Isabella Premoli Silva, Silvia Spezzaferri & William Berggren**
Paragloborotalia is a debated genus...we have some news
- 16:30 **Anieke Brombacher, Kirsty M. Edgar, Paul A. Wilson, Thomas H.G. Ezard**
Evolutionary response to climate change from origination to extinction in a planktonic foraminifera lineage
- 16:45 **Isabel S. Fenton, Paul N. Pearson, Thomas H. G. Ezard & Andy Purvis**
Testing the concept of Simpsonian adaptive zones in Neogene planktonic foraminifera
- 17:00 **Christopher Lowery, Andrew Fraass, and IODP Exp. 364 Scientists**
An Explanation for Delayed Recovery of Planktic Foraminifer Diversity After the K-Pg Mass Extinction
- 17:15 **Marina C. Rillo, Mauro T. C. Sugawara, Brenno Cabella, Lukas Jonkers, Michal Kucera & Thomas H. G. Ezard**
Do modern planktonic foraminifera species compete?
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17:30 – 18:30 **Poster Session in South Hall**

Monday 18 June – Pentland East room

Session XI – Foraminifera in Quaternary Research

Conveners: **Karen Luise Knudsen, Helena Filipsson**

- 11:00 **Anna Binczewska, Bjørg Risebrobakken, Irina Polovodova Asteman, Matthias Moros, Amandine Tisserand, Eystein Jansen and Andrzej Witkowski**
Coastal primary productivity changes over the last millennium: a case study from the Skagerrak (North Sea).
- 11:15 **Laurie M. Charrieau, Karl Ljung, Frederik Schenk, Emma Kritzberg and Helena L. Filipsson**
A bicentennial record of modern environmental changes in the Baltic Sea entrance.
- 11:30 **Sha Ni, Nadine B. Quintana Krupinski, Jeroen Groeneveld, Marit-Solveig Seidenkrantz, Karen Luise Knudsen, Anne-Sophie Fanget, Tomas Naeraa and Helena L. Filipsson**
Tracing hypoxia in the Baltic Sea during the Holocene using foraminifera-based geochemistry and faunal assemblages.
- 11:45 **Gerhard Schmiedl, Marc Theodor, Frans Jorissen and Andreas Mackensen**
Multispecies stable carbon isotopes of benthic foraminifera as proxy for organic matter fluxes in the Mediterranean Sea.
- 12:15 **André Rosch Rodrigues, María Alejandra Gómez Pivel, Patricia Schmitt, Fabiana Karla de Almeida and Carla Bonetti**
Late Quaternary epifaunal and infaunal foraminifera and their use as a proxy of organic matter paleoflux (Southern Brazilian Continental Margin).
- 12:30 **Renata Hanae Nagai, Aislyn Alvarenga, Silvia Helena de Mello e Sousa and Rubens Figueira**
Planktonic and benthic foraminifera responses to late Holocene paleoproductivity changes in the SW Atlantic.
- 12:45 **Nicolaas Glock, Zeynep Erdem, Klaus Wallmann, Volker Liebetrau, Stanislav Gorb, Joachim Schönfeld and Anton Eisenhauer**
Coupling of oceanic carbon and nitrogen facilitates spatially resolved quantitative reconstruction of nitrate inventories.
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13:00 -14:00 *Lunch in Restaurant*

- 14:00 **Maria Pia Nardelli, A. Jouini, H. Howa, B. Lansard, E. Michel, O. Péron, T. Garlan, F. Vivie and M. Mojtahid**
Benthic foraminifera-based proxies for brine shelf water production in Storfjorden (Svalbard).
- 14:15 **Rebecca Jackson, Anna Bang, Audrey Limoges, Jacques Giraudeau, Guillaume Massé and Sofia Ribeiro**
Tracing Atlantic water influence at the North Water Polynya during the Holocene using benthic foraminifera assemblages.
- 14:30 **Hiroyuki Takata, H. J. Kim, H. Asahi, E. Thomas, C. M. Yoo, S. B. Chi and B.-K. Khim**
Correlation between faunal change in deep-sea benthic foraminiferal assemblages and ballasting of particulate organic matter by calcareous/siliceous plankton.
- 14:45 **Maciej M. Telesiński and Marek Zajączkowski**

15:00 – 16:00 **Coffee Break – Poster Session in South Hall**

- 16:00 **Anna J. Pieńkowski, Frederique Eynaud, Alix G. Cage, Mark F.A. Furze, Naima El Bani Altuna and Rabecca Thiessen**
Planktonic foraminifera signal reconnection of Arctic and Atlantic oceans via Arctic Canada after Termination I.
- 16:15 **Elena V. Ivanova, Ekaterina A. Ovsepyan and Daria A. Kozhanova**
Foraminiferal assemblages and “exotic” species in the fjords and troughs of the northern Barents Sea: implications for postglacial oceanographic changes.
- 16:30 **Magdalena Łacka, Min Cao, Antoni Rosell-Melé, Joanna Pawłowska, Małgorzata Kucharska, Matthias Forwick and, Marek Zajczkowski**
“Atlantification” of the western Barents Sea since the last glaciation: implications for primary productivity and sea surface temperatures.
- 16:45 **Marit-Solveig Seidenkrantz, Estelle Allan, Camilla S. Andresen, Cristina Fasting Christiansen, Anne de Vernal, Katrine Elnegaard Hansen, Anne Jennings, Karen Luise Knudsen, Antoon Kuijpers, Christof Pearce, Kerstin Perner, Sofia Ribeiro, Christina Sheldon, Marie-Alexandrine Sicre, Longbin Sha, Sandrine Solignac and Nicolas Van Nieuwenhove**
The Subpolar Gyre circulation: a key player of North Atlantic climate - A review of SPG variability based on foraminiferal and multiproxy investigations from the Irminger Sea, Labrador Sea and Baffin Bay regions.
- 17:00 **Thomas M. Cronin, Julia Seidenstein, Laura Gemery, Katherine Keller and Kristin McDougall**
Quaternary benthic foraminiferal biostratigraphy, paleoceanography, and shell chemistry from the Arctic Ocean.
- 17:15 **Lukas Jonkers and Michal Kucera**
The effect of species selection on SST reconstructions based on planktonic foraminifera assemblages.
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17:30 – 18:30 **Poster Session in South Hall**

Tuesday 19 June – Pentland Suite

Plenary Session – Keynote lectures

- 08:30** **Bruce Hayward**
Using modern analogue foraminiferal data for quantitative estimates of past tidal elevation, water depth, salinity and temperature around New Zealand
- 09:00** **Mikhalevich Valeriya**
Russian School of Foraminerology
- 09:30** **Raphael Morard**
Global diversity of planktonic foraminifera
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10:00 – 11:00 ***Coffee Break* – Poster Session in South Hall**

Tuesday 19 June – Prestonfield room

Session XI – Foraminifera in Quaternary Research

Conveners: **Karen Luise Knudsen, Helena Filipsson**

- 11:00 **Lai Shan Sum, Brent Wilson and Chantelle Ragoonath**
Effects of flow disturbances on Holocene planktonic foraminiferal ecostratigraphy.
- 11:15 **Katrina Nilsson-Kerr, Pallavi Anand, Philip F. Sexton, Samantha J. Hammond, Melanie J. Leng and Steven C. Clemens**
Indian Summer Monsoon dynamics across Marine Isotope Stage 5: a record from the northern Bay of Bengal.
- 11:30 **Zoe R.F. Verlaak and Laurel S. Collins**
Relationship of the spatial distribution of modern foraminiferal assemblages to salinity in the southwestern Everglades, Florida, USA.
- 11:45 **Giulia Barbieri, Alessandro Amorosi, Benjamin P. Horton, Veronica Rossi and Stefano Claudio Vaiani**
The palaeoecological record of delta dynamics: testing the faunal response of benthic foraminifers and ostracods.
- 12:15 **Vlasta Ćosović, Jelena Vidović, Ivo Gallmetzer, Alexandra Haselmai, Martin Zuschin Marina Janjetić, Tihana Pensa, Igor Pejnović and Željka Šalvari**
The foraminiferal record of the northern Adriatic: Brijuni Islands and Piran bay (same depths, different geologic background).
- 12:30 **Anna Pint, Peter Frenzel, Judith Ewald and Max Engel**
Benthic foraminifers as indicators of Early Holocene palaeoenvironmental changes in northwestern Saudi Arabia.
- 12:45 **Kirti K Lal, Carla Bonetti, Colin D. Woodroffe and Kerry Lee Rogers**
Foraminifera-based palaeo-environmental reconstructions over the late-Holocene and its implications to sea-level rise: a case study of temperate south-east Australian coastal wetlands.
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13:00 -14:00 *Lunch in Restaurant*

Session XVII - Evolution, Stratigraphy and Geological Crisis

Conveners: **Rossana Martini, Roberto Rettori, Sylvain Rigaud**

- 14:00 **Haig, D. W.**
Conservatism and innovation among Late Paleozoic–Mesozoic Foraminifera in mid-continental shallow-marine shale basins.
- 14:15 **Haig, D. W.** (Continues)
- 14:30 **Lipps J. H.**
Skeletonization: Protists and Metazoans through time.
- 14:45 **Fordham B. G., Zehady Abdullah K., Ogg J. G.**
Visualising foram phylogenies.

15:00 – 16:00 ***Coffee Break – Poster Session in South Hall***

- 16:00 **Dubicka Z.**
Does mode of coiling correspond more closely to the high-rank phylogenetic classification of Foraminifera than wall ultrastructure?
- 16:15 **Kaminski M. A.**
The Early Silurian Diversification of Agglutinated Foraminifera.
- 16:30 **Richardson S. L.**
A Phylogenetic Perspective on the Evolution of Life History Traits in Fusulinacea.
- 16:45 **Gennari V., Rettori R., Ghorbani M.**
Permian smaller foraminifers from Central and NW Iran: biostratigraphic implications.
- 17:00 **Rashall J. M., Nestell G. P., Nestell M. K.**
Late Albian-Early Cenomanian Planktonic Foraminifera of the Cretaceous Washita Group in North Central Texas and Problems of Global Correlation.
- 17:15 **Wade B.S., Olsson R.K., Pearson P.N., Huber B.T., Berggren W.A., Spezzaferri S., Coxall H.K., Hernitz Kucenjak M., Premec Fućek V., Leckie R.M., Fraass A.J., King D., Premoli Silva I., Hemleben C., Kucera M., Edgar K.M., Smart C., Thomas E.**
The Atlas of Oligocene Planktonic Foraminifera.
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17:30 – 18:30 ***Cushman Reception in South Hall***

21:00 – 00:30 ***Ceilidh in South Hall***

Tuesday 19 June – Pentland West room

Session XII – Advances in Planktonic Foraminiferal Ecology and Population Dynamics

Conveners: **Michal Kucera, G-J Brummer**

- 11:00 **Haruka Takagi**, Tetsuichi Fujiki, Katsunori Kimoto, Kazuyoshi Moriya, Hiroaki Saito
Disclosing photosymbiosis in modern planktic foraminifers
- 11:15 **Daniel Gaskell & Pincelli Hull**
Symbiont arrangement and density may explain high $\delta^{13}\text{C}$ in Paleogene planktic foraminifera
- 11:30 **Maria Grigoratou**, Fanny Monteiro, Daniela N. Schmidt, Jamie Wilson, Ben A. Ward, Andy Rigdwell
A trait- based modelling approach to planktonic foraminifera ecology
- 11:45 **Flavia Boscolo Galazzo**, Katherine Crichton, Steve Barker, Bridget Wade, Paul Pearson
Planktonic foraminiferal niche evolution since the middle Miocene: new data from a global multispecies compilation
- 12:15 **Mattia Greco**, Lukas Jonkers, Jelle Bijma, Michal Kucera
Factors controlling the Vertical habitat of the planktonic foraminifer *Neogloboquadrina pachyderma*
- 12:30 **Meilland, J., Siccha, M., Jonkers, L., Morard, R., Kučera, M. and research cruise M140 participants**
Diurnal Vertical Migration in planktonic foraminifera: firm observations in a sea of uncertainties
- 12:45 **Chernihovsky Natalie**, Almogi-Labin Ahuva, Torfstein Adi
Seasonal flux patterns of planktonic foraminifera in a deep, oligotrophic, marginal sea: sediment trap time series from the Gulf of Aqaba, north Red Sea
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13:00 -14:00 **Lunch in Restaurant**

Session VI – Single-cell genomics of Foraminifera; from organismal interactions to integrative framework

Conveners: **Kate Darling, Magali Schweizer**

- 14:00 **Michal Kucera**, Raphael Morard, Nele Vollmar and Mattia Greco
Who is hiding in the plankton? The small, obscure and overlooked species
- 14:15 **Yoshiyuki Ishitani**, Yurika Ujiié, Euki Yazaki, Takashi Toyofuku, Yukiko Nagai, and Yuji Inagaki
Phylogenomic approach to the early evolution of Foraminifera
- 14:30 **Agnes Weiner and Laura Katz**
Using single-cell omics to approach genome evolution of uncultivable amoebae
- 14:45 **Julien Richirt**, Magali Schweizer, Aurélie Mouret, Frans Jorissen
Morphological distinction between three *Ammonia* phylotypes along European Atlantic coasts

15:00 – 16:00

Coffee Break – Poster Session in South Hall

Session VII – Environmental genomics of foraminifera: From global diversity of foraminifera and beyond

Conveners: **Raphael Morard, Jan Pawlowski**

- 16:00 **Jan Pawlowski, Tristan Cordier, Franck Lejzerowicz, Xyrus Maurer-Alcala, Roberto Sierra, Joana Pawlowska, Maria Holzmann, Emanuela Reo, Laure Apothéoz-PerretGentil**
Forams' omics: a new frontier
- 16:15 **Martina de Freitas Prazeres**
Bleaching-associated changes in the microbiome of *Amphistegina*
- 16:30 **Joanna Pawłowska, Franck Lejzerowicz, Marek Zajączkowski, Jutta Wollenburg, Jan Pawlowski**
A molecular fossil: Ancient environmental DNA as proxy for past climate and environmental changes.
- 16:45 **Fabrizio Frontalini, Mattia Greco, Letizia Di Bella, Franck Lejzerowicz, Emanuela Reo, Tristan Cordier, Antonio Caruso, Claudia Cosentino, Antonella Maccotta, Giovanna Scopelliti, Virginia Martins, Maria Teresa Losada, Eric Armynot du Châtelet, Rodolfo Coccioni, and Jan Pawlowski**
Assessing the effect of chromium pollution on benthic foraminiferal community: morphological vs. environmental metabarcoding approaches
- 17:00 **Myrsini Chronopoulou, Iines Salonen, Clare Bird, Gert-Jan Reichart, Karoliina A. Koho**
Metagenomics offer insights into the identity and feeding behaviour of intertidal foraminifera
- 17:15 **Alexandra-Sophie Roy, Christian Woehle, Nicolaas Glock, Tanita Wein, Julia Weissenbach, Philip Rosenstiel, Claas Hiebenthal, Jan Michels, Joachim Schönfeld & Tal Dagan**
Eukaryotic denitrification pathway of the benthic foraminifera *Globobulimina turgida* and *G. auriculata*
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17:30 – 18:30

Cushman Reception in South Hall

21:00 – 00:30

Ceilidh in South Hall

Tuesday 19 June – Pentland East room

Session XIV – Foraminifera; Bridging the Gap between ecology and palaeoecology

Conveners: **Elisabeth Alve, Bill Austin**

- 11:00 **Sergei Korsun, Olga Knyazeva, Wojciech Majewski, Maria Angelica Godoi, Tatiana Hromic, Marina Varfolomeeva, and Jan Pawlowski**
Temperate glaciated fjords of the Southern Hemisphere: benthic foraminifera in southern Patagonia, Chile.
- 11:15 **Wojciech Majewski, Philip J. Bart, and Austin J. McGlannan**
Sub-fossil foraminifera from sub-ice-shelf and grounding zone proximal settings of the eastern Ross Sea, Antarctica.
- 11:30 **Robin Fentimen, Andres Rüggeberg, and Silvia Spezzaferri**
Benthic foraminiferal assemblages in cold-water coral environments: new insights.
- 11:45 **Patrick Bukenberger, Petra Heinz, and Jutta Wollenburg**
Living inside a sponge: Foraminifera at the Karasik Seamount (Central Arctic Ocean).
- 12:15 **Agnieszka Kujawa, Natalia Szymańska, Małgorzata Kucharska, Joanna Pawłowska, Magdalena Łącka, and Marek Zajączkowski**
Benthic Foraminifera in fjords and open marine environment of Svalbard.
- 12:30 **Olga Kniazeva and Sergei Korsun**
Seasonal variations in the high-latitude benthic foraminiferal community of Kongsfjorden, Svalbard.
- 12:45 **Natalia Szymanska, Agnieszka Kujawa, Joanna Pawłowska, Magdalena Łącka, Małgorzata Kucharska, Marek Zajączkowski**
Foraminiferal carbon share in sedimentary carbon pool of Svalbard and Northern European fjords.
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13:00 -14:00 *Lunch in Restaurant*

- 14:00 **Robert P. Speijer**
Towards full exploitation of the foraminiferal toolbox in deep-time environmental reconstructions.
- 14:15 **Gábor Zsiborás and Ágnes Görög**
Aalenian–Bajocian foraminiferal assemblages at Tűzkövesárok section of Bakonycsérnye (Transdanubian Mountains, Hungary).
- 14:30 **S.H.M. Sousa, L. Licari, C. Yamashita, M.V.A. Martins, C. Millo, B. Kim, I. Montoya, R. Carreira, M.M. Mahiques**
Evaluation of contrasting canyons and open slope environments in the Campos Basin, eastern Brazilian continental margin, South Atlantic: living benthic foraminifera and stable isotopes analyses.
- 14:45 **Elena Lo Giudice Cappelli, William Austin, Jess Clarke and Craig Smeaton**
Can benthic foraminiferal assemblages record the carbon burial history of Shetland, Scotland?
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15:00 – 16:00 *Coffee Break – Poster Session in South Hall*

- 16:00 **Malcolm B. Hart, Giulia S. Molina, Christopher W. Smart, and Claire Widdicombe**
Benthic foraminifera in the plankton and how this might impact on paleo(ecological) interpretations.
- 16:15 **Eric Armynot du Chatelet, Fabio Francescangeli, Vincent M.P. Bouchet, and Fabrizio Frontalini**
Benthic foraminifera in transitional environments of the English Channel and the southern North Sea: proxies for regional-scale environmental and paleo-environmental characterisations.
- 16:30 **Flavia Fiorini and Stephen W. Lokier**
Recent Benthic Foraminifera from nearshore and intertidal environments of Abu Dhabi region (United Arab Emirates).
- 16:45 **Briony Mamo, Moriaki Yasuhara, Jonathan Cybulski, and David Baker**
Detritus and Pearls – Late Holocene and Anthropocene history of Hong Kong’s coastal ecosystems.
- 17:00 **Maria N. Sider and Laurel S. Collins**
Benthic Foraminiferal Response to Anthropogenic Coastal Change: Almirante Bay, Bocas del Toro, Panama.
- 17:15 **Janet E. Burke, Willem Renema, Michael J. Henehan, Leanne E. Elder, Catherine V. Davis, Amy Maas, Gavin L. Foster and Pincelli M. Hull**
Factors Influencing Porosity in Planktonic Foraminifera.

17:30 – 18:30 ***Cushman Reception*** in South Hall

21:00 – 00:30 ***Ceilidh*** in South Hall

Thursday 21 June – Pentland Suite

Plenary Session – Keynote lectures

- 08:30** **Bridget Wade**
Planktonic foraminifera and ocean drilling
- 09:00** **Mike Simmons**
Applied foraminiferal studies: back to basics?
- 09:30** **Anna Weinmann**
Distribution and dispersal of foraminifera in times of global change
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10:00 – 11:00 ***Coffee Break* – Poster Session in South Hall**

Thursday 21 June – Prestonfield room

Session IX – Foraminifera and ocean drilling; celebrating 50 years of discovery

Conveners: **Brian Huber, Paul Pearson, Dick Kroon**

- 11:00 **Knappertsbusch, M., and Thore Friesenhagen**
Prospecting patterns of morphological evolution in menardiform globorotaliids along Agulhas' trackway: Review and research in progress
- 11:15 **Stainbank, S., Andres Rüggeberg, Silvia Spezzaferri, Dick Kroon, Erica S. de Leau, and Christian Betzler**
South Asian Monsoon and surface water mass dynamics in a glacial–interglacial perspective
- 11:30 **Voigt, J., Hathorne E.C., Fietzke, J., and Pälike, H.**
Recrystallisation and reliability of geochemical proxy data from planktonic foraminifera
- 11:45 **Gallagher, Stephen J., Takuya Sagawa, Andrew Henderson, Mariem Saavedra-Pellitero, David de Vleeschouwer, Heather Black, Takuya Itaki, Sam Toucanne, Maria-Angela Bassetti, Steve Clemens, William Anderson, Carlos Alvarez-Zarikian and Ryuji Tada**
Paleoceanography and monsoonal history of the Japan Sea over the last 460,000 years
- 12:15 **Garcia-Gallado, Ángela, Patrick Grunert, Marlies Van der Schee, Francisco J. Sierro, Francisco J. Jiménez-Espejo, Werner E. Piller**
Foraminifera-based reconstruction of Pliocene Mediterranean-Atlantic exchange
- 12:30 **Baranwal Soma, Giuliana Panieri and Jochen Knies**
Mid-Pliocene history of Leeuwin Current and Australian climate controlled by the uplift of the Maritime continent: insights from Northwest Australian Shelf (IODP Exp. 356, Site U1463).
- 12:45 **Drury, A.J., G. P. Lee, W. R. Gray, M. Lyle, T. Westerhold, A. E. Shevenell, and C. M. John**
Late Miocene-early Pliocene isotopic and trace element insights into the mean climate state of the equatorial
-

13:00 -14:00 *Lunch in Restaurant*

- 14:00 **Thomas Ellen, Christopher W. Smart, James Super, Pincelli Hull**
Miocene Biseriate Planktic Foraminifera: Evolution and Environment
- 14:15 **Petrizzo, Maria Rose, Kirsty M. Edgar, Erik Wolfgring, Trine Edvardsen, David K. Watkins, Rodrigo do Monte Guerra, Brian T. Huber and IODP Expedition 369 Shipboard Science Party**
Cretaceous planktonic foraminifera in the Southern Ocean: Preliminary results from IODP Exp. 369 Australia Cretaceous Climate and Tectonics
- 14:30 **Falzone F., Petrizzo M.R., Aldeghi D., Pieraccini, G.**
Stable-isotope paleoecology of Campanian–Maastrichtian planktonic foraminifera from the equatorial Pacific Ocean (ODP Leg 198, Hole 1210B, Shatsky Rise)
- 14:45 **Huber, Brian T., Kenneth G. MacLeod, and David K. Watkins and Millard F. Coffin**
The Rise and Fall of the Cretaceous Hot Greenhouse Climate
-

15:00 – 16:00 *UK, IODP Reception – Poster Session in South Hall*

Session X – Deep time records of climate change impacts

Conveners: **Ellen Thomas, Daniela Schmidt**

- 16:00 **McDougall, K. and John, C. M.**
Benthic foraminiferal biotic events related to the Paleocene-Eocene Thermal maximum along the California Margin
- 16:15 **Stassen, P., Steurbaut, E., and Speijer, R. P.**
Foraminiferal response to early Eocene climate variability in the North Sea Basin.
- 16:30 **Evans, D., Cotton, L., Pearson, P., Rosenthal, Y., Rae, J., Erez, J., Müller, W., and Affek, H.**
Climate-Ocean chemistry interconnections over the Eocene-Oligocene Transition
- 16:45 **Brzelinski, S., Friedrich, O., and Bornemann**
Mechanisms of glacial/interglacial climate variability during the late Oligocene
- 17:00 **Renema, W.**
The contribution of Neogene large benthic foraminifera assemblage composition in the debate on timing of tectonic events critical to the evolution of modern climate system.
- 17:15 **Robinson, M. M., and Dowsett, H. J.**
Tracking Pliocene Indian Monsoon intensity through Bay of Bengal salinity changes reconstructed from planktic foraminiferal assemblages.
-

18:15 ***Bus to Symposium Dinner***

18:45 – 23:50 ***Symposium Dinner at Assembly Room***

Thursday 21 June – Pentland West room

Session I – Foraminiferal Biology in a Changing World

Conveners: **Sue Goldstein; Joan Bernhard**

- 11:00 **John L. Dowson and Scott G. Smithers**
Reef Island Futures Depend on Large Benthic Foraminifera
- 11:15 **Christiane Schmidt, Gurjit Theara, John Burt, Raphael Morard, Grace Vaughan, Masashi Tsuchiya and Michal Kucera**
Adaptation potential of coral reef benthic foraminifera to the extreme environment in the Persian Gulf
- 11:30 **Lukas Jonkers, Michael Siccha and Michal Kucera**
Global warming shapes modern planktonic foraminifera species assemblages
- 11:45 **Howard J. Spero, Charlotte LeKieffre, Ann Russell, Jennifer Fehrenbacher, Emmanuelle Geslin and Anders Meibom**
Carbon and nitrogen uptake and exchange between a photosynthetic symbiotic dinoflagellate and its planktonic foraminifera host
- 12:15 **Charlotte LeKieffre, Thierry Jauffrais, Jeremy Lothier, Anis M. Limami, Jorge Spangenberg, Bruno Jesus, Joan M. Bernhard, Olivier Maire, Helena L. Filipsson, Anders Meibom and Emmanuelle Geslin**
Cellular pathways of inorganic carbon and nitrogen uptake in benthic foraminifera: a comparison between kleptoplastic and non-kleptoplastic species
- 12:30 **Fabricio Guamán-Guevara, Natalie Hicks and William E.N. Austin**
Impacts of ocean acidification on feeding efficiency and carbon uptake by benthic foraminifera
- 12:45 **Anouk Klootwijk, E. Alve, S. Hess and P. Renaud**
Benthic foraminiferal response to carbon loading introduced by “jelly-falls”: An ex-situ experiment using material from Kaldjford (Northern Norway)
-

13:00 -14:00 ***Lunch in Restaurant***

- 14:00 **Iines Salonen, Myrsini Chronopoulou, Elina Leskinen, Clare Bird, Gert-Jan Reichart and Karoliina Koho**
Inside out – diversity and potential roles of the endobiont bacterial community of foraminifera
- 14:15 **Caitlin R. Keating-Bitonti, Joan M. Bernhard, Brian T. Huber and Alisha D. Anaya**
Micro-CT scans reveal size and growth patterns of benthic foraminifera across a modern oxygen gradient
- 14:30 **Susan T. Goldstein**
On the tandem evolution of the test and life cycle in marine, benthic foraminifera
- 14:45 **Joan M. Bernhard, Veronique Le Roux, Jonathan B. Martin, Jason Curtis and Giuliana Panieri**
Fake news? Benthic foraminifera record gas hydrate methane emissions
-

15:00 – 16:00 ***Coffee Break – Poster Session in South Hall***

Session XVIII – Foraminiferal Invasions as a Threat to the Environment

Conveners: **Mary McGann; Ahuva Almogi; Martin Langer**

- 16:00 **Martin R. Langer**
Invasive foraminifera: What do we know and where do we go next
- 16:15 **Kenneth L. Finger, Mary McGann and Janine Könen**
Tsunami-generated rafting of foraminifera across the North Pacific Ocean
- 16:30 **Orit Hyams-Kaphzan, Lidia Perelis Grossowicz, Shani Sultan- Levi, Irit Gefen, Gil Rilov and Ahuva Almogi-Labin**
Macroalgae dynamics control the distribution of alien epiphytic foraminifera in the Israeli Mediterranean rocky reefs
- 16:45 **Annekatriin J. Enge, Petra Heinz and Paolo G. Albano**
Persistence of Lessepsian-dominated foraminifera assemblages on the Israeli shelf
- 17:00 **R. Guastella, A. Marchini, A. Caruso, J. Evans, P. Balistreri, A. M. Mannino, M. Langer and N. Mancin**
Invasive Amphisteginids conquer the Sicily Channel and knock on the door of the Western Mediterranean Sea
- 17:15 **Noémie Deldicq, Elisabeth Alve, Magali Schweizer, Irina Polovodova Asteman, Silvia Hess, Kate Darling and Vincent M.P. Bouchet**
Is the foraminiferal species resembling *Nonionella stella* a non-indigenous species (NIS) in the Oslofjord (Norway)?
-

18:15 **Bus to *Symposium Dinner***

18:45 – 23:50 ***Symposium Dinner at Assembly Room***

Thursday 21 June – Pentland East room

Session XIII – Foraminifera in Applied Micropalaeontology (Industrial and Academic)

Conveners: **John Gregory; Haydon Bailey**

- 11:00 **Geraint Wyn Hughes**
A new thin-section based micropalaeontological biozonation for Jurassic shallow marine carbonates of the Arabian Platform
- 11:15 **Saleh Sfoog Al Enezi**
Chronostratigraphic update on the Sulaiy and the Yamama formations, Eastern Saudi Arabia
- 11:30 **Vlasta Čosović, Wojtek Nemeč, Ervin Mrinjek, Jelena Španiček, Igor Pejnović & Tihana Pensa**
The role of the Eocene larger benthic foraminifera in evolution of transient ramps in Dinaric Foreland Basin
- 11:45 **Emma Sheldon, Peter Alsen, Bodil Wesenberg Lauridsen & Jussi Hovikoski**
Lower Cretaceous Foraminifera and microfossils of the Wandel Sea Basin, North Greenland and their role in correlation with other Arctic hydrocarbon-prone basins.
- 12:15 **A. Piva, G. Knezaurek, E. Menichetti & S. Toricelli**
Integrated paleoecology as a tool for the definition of the paleoenvironmental evolution: an application from the Tertiary successions offshore Mozambique
- 12:30 **Adriane R. Lam, R. Mark Leckie**
A New High-Resolution Late Neogene Mid-Latitude Planktic Foraminiferal Biostratigraphy, Shatsky Rise, Northwest Pacific
- 12:45 **Poster presentations – 2 minutes of fame**
-

13:00 -14:00 ***Lunch in Restaurant***

- 14:00 **Matthias Kranner, Oleg Mandic, Mathias Harzhauser & Christine Jawetzki**
The terminal phase of the Sarmatian in the western Vienna Basin
- 14:15 **Holger Gebhardt, Bettina Schenk, Erik Wolfgring & Irene Zorn**
Cyclic paleo-salinity changes inferred from benthic foraminiferal assemblages in the Upper Burdigalian (Lower Miocene) Korneuburg Basin, Austria
- 14:30 **Alessio Fabbrini, Niccolò Baldassini, Chiara Caricchi, Agata Di Stefano, Jaume Dinarès-Turell, Luca Maria Foresi, Fabrizio Lirer, Leonardo Sagnotti, Simona Patricolo, Aldo Winkler**
IODP Site U1406: integrated analyses on planktic foraminifera and calcareous nannofossils for a bio-magnetostratigraphic revision
- 14:45 **Deniz Ibilioglu & André Poisson**
Biostratigraphy and stable isotope ($\delta^{18}\text{O}$ and $\delta^{13}\text{C}$) data of the late Paleocene-early Oligocene planktonic foraminifera of the western Taurides (NW Antalya, Turkey)
-

15:00 – 16:00 ***Coffee Break – Poster Session in South Hall***

- 16:00 **Ross Marchant**
An automated system for image-based identification of foraminifera using convolutional neural networks

- 16:15 **Eduardo A. M. Koutsoukos**
Benthic foraminifera and palaeobathymetric changes across the K/Pg boundary transition in SE Brazil
- 16:30 **Maria Luisa Machain-Castillo, A. Gracia, A. C. Ruiz-Fernández, J. A. Sánchez-Cabeza, P. Schwing, D. Hollander, H. Alexander-Valdez, A. Rodríguez-Ramírez, X.A. Nava-Fernández, L. Gómez-Lizárraga.**
Living with oil: The tale of foraminifera in the southern Gulf of Mexico
- 16:45 **Renata Moura de Mello & R. Mark Leckie**
Paleobathymetric Model of the Brazilian Marginal Basins for the Paleocene-Eocene
- 17:00 **Martin P. Crundwell**
A new method for interpolating ages between calibrated control points based on foraminiferal concentrations
- 17:15 **Robert Campbell**
The Role of Biostratigraphy to Support Drilling Around and Below Salt in the Gulf of Mexico
-

18:15 ***Bus to Symposium Dinner***

18:45 – 23:50 ***Symposium Dinner at Assembly Room***

Friday 22 June – Pentland Suite

Plenary Session – Keynote lectures

- 08:30** **Hidetaka Nomaki**
Foraminiferal ecology revealed by in situ and laboratory experiments
- 09:00** **Laia Alegret**
The benthic foraminiferal record of climate change and critical events across the Paleogene
- 09:30** **Maria Rose Petrizzo**
Planktonic foraminiferal evolution and climate change: understanding the late Turonian to early Campanian record from low to high latitudes
-

10:00 – 11:00 ***Coffee Break – Poster Session in South Hall***

Friday 22 June – Prestonfield room

TMS Spring Meeting

Conveners: **Lyndsey Fox, Kirsty Edgar, Martin Langer**

- 11:00 **Anne Förster, Olaf Elicki**
Morphological analyses of pre-Messinian foraminifera from Sardinia and Sicily: useful tool for recognition of palaeoecological changes prior to the Messinian Salinity Crisis?
- 11:15 **Ben Taylor, James Rae, William Gray, Kate Darling, Patrizia Ziveri, Rainer Gersonde, Andrea Abelmann, Edith Maier, Oliver Esper, Andrea Burke**
Planktic foraminiferal assemblages in the North Pacific
- 11:30 **Bruce W. Hayward, François Le Coze**
World Foraminifera Database in WoRMS (World Register of Marine Species) - Progress since FORAMS 2014
- 11:45 **Brent Wilson, Lee-Ann Hayek**
Quantifying assemblage turnover as a tool in deciphering past oceanic environmental change, illustrated using turnover among planktonic foraminifera at ODP Hole 926A, Ceara Rise, tropical Atlantic Ocean
- 12:15 **Gerald T. Rustic, Pratigya Polissar, Anna-Christina Ravelo, Sarah White, Vicky Yuan**
ENSO variability through the late Pleistocene from individual foraminifera
- 12:30 **Eleanor John, Caroline Lear, Paul Pearson**
Intra-test $\delta^{18}O$ variations in 'frosty' forams – implications for past sea surface temperature reconstructions
- 12:45 **Ágnes Görög, Roland Wernli**
Impact of palaeoenvironmental changes on the diversity and disparity of the protoglobigerinds during the Toarcian-Berriasian
-

13:00 -14:00 ***Lunch in Restaurant***

Session V – Foraminiferal Research Schools: The Past Can Inform the Future

Conveners: **Pamela Hallock Muller, Martin Langer**

- 14:00 **Martin R. Langer**
A Short History of Micropaleontology in Germany
- 14:15 **Michael A. Kaminski**
Applied Micropaleontology at the end of the 19th Century: The School of Józef Grzybowski
- 14:30 **C. Giles Miller, Tom Hill, Lyndsey Fox, and Stephen Stukins**
The foraminiferal collections at the Natural History Museum and their applications
- 14:45 **D.J. King, B.S. Wade, R.D. Liska, C.G. Miller, R.M. Leckie and B.T. Huber**
Revisiting the classic Caribbean Oligo-Miocene type localities: Taxonomic implications for planktonic foraminifera
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15:00 – 17:30 **CLOSING CEREMONY in Pentland Suite**

Friday 22 June – Pentland West room

Session XVI – Larger Benthic Foraminifera as Historical Archives of Deep Time Changes

Conveners: **Antonino Briguglio, Wolfgang Eder, Cesare Andrea Papazzoni**

- 11:00 **Johann Hohenegger**
Growth and Development in Foraminifera: Examples from Larger Foraminifera
- 11:15 **Charlotte Beasley, Laura Cotton, Aisha Al Suwaidi, Stephen Hesselbo & Kate Littler**
A new larger benthic foraminiferal biostratigraphic record from the Paleocene–Eocene of the UAE
- 11:30 **Pamela Hallock, Cesare A. Papazzoni & Mona Seddighi**
Bioherms characterized by large, flat, benthic foraminifers: paleoecological insights from biology and oceanography
- 11:45 **Yukun SHI**
A unique allometric growth of late Paleozoic larger benthic foraminifera; heterochrony and ecology
- 12:15 **Lorenzo Consorti & Esmeralda Caus**
Late Cretaceous Larger Foraminifera palaeobiogeography
- 12:30 **Beatrice Fornaciari, Cesare Andrea Papazzoni, Luca Giusberti, Eliana Fornaciari & Sara Marconato**
The Paleocene Tabiago section (Italy): integrated biostratigraphy and larger foraminifera evolution in a paleoclimatic perspective
- 12:45 **Simon F. Mitchell**
A Larger Benthic Foraminiferal Zonation for the Eocene of the Central American Region
-

13:00 -14:00 *Lunch in Restaurant*

- 14:00 **Laura J. Cotton, Jonathan R. Bryan & G. Harley Means**
Larger benthic foraminifera and the American Eocene-Oligocene Transition
- 14:15 **György Less, Gianluca Frijia, Ercan Özcan, Pratul K. Saraswati & Mariano Parente**
Larger benthic foraminifera and Sr-isotope data from the Oligocene of Kutch (western India) with chronostratigraphic and paleobiogeographic evaluations
- 14:30 **Antonino Briguglio, Sulia Goeting, Wolfgang Eder, Johann Hohenegger, Amajida Roslim & Laszlo Kocsis.**
Depth distribution and substrate selection of modern larger benthic foraminifera offshore Brunei Darussalam
- 14:45 **Meena Förderer & Martin R. Langer**
Modern Indo-Pacific larger foraminifera from two localities in the Coral Triangle
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15:00 – 17:30 **CLOSING CEREMONY in Pentland Suite**

Friday 22 June – Pentland East room

Session XV – Advances in Foraminiferal Experimental Studies

Conveners: **Sigal Abramovitch, Petra Heinz, Hiroshi Kitazato, Emmanuelle Geslin**

- 11:00 **Yanli Lei, Shuaishuai Dong, Man Lyu, Tiegang Li and Zhimin Jian**
Impacts of pH alteration on benthic foraminiferal communities under laboratorial culture conditions: uncoupling results revealed by classical and molecular methods
- 11:15 **Jutta Wollenburg, Zora Zittier and Jelle Bijma**
Insight into deep-sea life - *Cibicidoides pachyderma* environmental and pH-dependent behaviour
- 11:30 **Julia Wukovits, Annetkatrin Enge, Max Oberrauch and Petra Heinz**
Feeding strategies and carbon and nitrogen budgets in *Ammonia tepida* and *Haynesina germanica* - Evidence from laboratory stable isotope labeling studies
- 11:45 **Thierry Jauffrais, Charlotte LeKieffre, Emmanuelle Geslin, Magali Schweizer, Edouard Metzger, Joan Bernhard, Bruno Jesus, Helena Filipsson, Olivier Maire and Anders Meibom**
Kleptoplastic benthic foraminifera: Assimilation (or not) of inorganic C, N, and S studied with sub-cellular resolution
- 12:15 **Vincent Bouchet, Noémie Deldicq and Laurent Seuront**
New insights into the functional role of benthic foraminifera: an experimental quantification of bioturbation processes
- 12:30 **Anat Ash-Mor, Revital Bookman, Vincent Bouchet, Laurent Seuront, Zvi Ben-Avraham and Ahuva Almogi-Labin**
Going with the flow: re-suspension and fragmentation of foraminifera shells caused by high velocity currents.
- 12:45 **Thaise Freitas, Eduardo Bacalhau and Sibelle Disaró**
Framework for foraminiferal biomass assessment: incorporating geometric models and interspecific protoplasm occupancy
-

13:00 -14:00 **Lunch in Restaurant**

- 14:00 **Jan Goleń, Jarosław Tyszka, Ulf Bickmeyer, Jelle Bijma, Karina Kaczmarek, Markus Raitzsch and Max Janse**
Different patterns of actin cytoskeleton organisation in Foraminifera: Applications and constrains of SiR-actin live staining
- 14:15 **Danna Titelboim, Ahuva Almogi-Labin, Barak Herut, Sarit Ashckenazi-Polivoda and Sigal Abramovich**
Temperature sensitivity of benthic foraminifera as a limiting factor of biogeographic invasion and expansion of species.
- 14:30 **Marleen Stuhr, Achim Meyer, Claire Raymond, Gita Narayan, Vera Rieder, Jörg Rahnenführer, Michal Kucera, Hildegard Westphal, Pamela Hallock**
Are variations in thermal stress tolerance of different *Amphistegina* species linked to differences in symbiont type?
- 14:45 **Christiane Schmidt, Ayami Sekizawa, Atsushi Suzuki, Kazuhiko Sakai and Kazuhiko Fujita**
Combined effects of global and local stressors (high temperature and low light) on symbiont-bearing foraminifera from Okinawa, Japan
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15:00 – 17:30 **CLOSING CEREMONY in Pentland Suite**

18:30

Bus to St Andrews - *Workshops*

POSTER PRESENTATIONS

Monday 18 June – Poster Session, South Hall, 10:00 – 11:00

Session III – Biomineralisation and geochemistry of Proxies-Field calibrations Laboratory culture and Paleo oceanographic reconstructions

Conveners: **Jonathan Erez, Lennart de Nooijer, Takashi Toyofuku**

1. **Oscar Branson, Alex Gagnon**
Boron proxies and biomineralisation: the possible, the impossible and the likely
2. **James W.B. Rae, Oscar Branson, Alex Gagnon**
Boron isotopes and biomineralisation
3. **Hagar Hauzer, David Evans, Wolfgang Müller, Yair Rosenthal, Jonathan Erez**
Experimental calibration of Na and other trace elements partitioning in the calcitic foraminifer *Operculina ammonoides*
4. **Jenny Roberts, Karina Kaczmarek, Gerald Langer, Luke C. Skinner, Jelle Bijma, Harold Bradbury, Alexandra V. Turchyn, Frank Lamy, Sambuddha Misra**
Lithium isotopic composition of benthic foraminifera: A new proxy for paleo-pH reconstruction
5. **Angelina Ivkic, Linda K. Dämmer, Alice Webb, Lennart Jan de Nooijer, Gert-Jan Reichart**
Ocean acidification and foraminiferal calcification rates
6. **David Evans, Wolfgang Müller, Jonathan Erez**
Planktonic and large benthic foraminifera predominantly source Ca through vacuolisation
7. **Sarina Schmidt, Nina Keul**
Ion channels as a transport mechanism of seawater ions in benthic foraminifers (*Ammonia* sp. and *Amphistegina lessonii*)
8. **Siham De Goeyse, Lennart de Nooijer, Gert-Jan Reichart**
Benthic foraminifera, their preferred DIC source and proton pumping
9. **Takashi Toyofuku, Miki Y. Matsuo, Lennart Jan de Nooijer, Yukiko Nagai, Tetsuro Ikuta**
Proton pumping accompanies calcification in foraminifera

Session IV – Advances in Foraminiferal Biomonitoring

Conveners: **Frans Jorissen, Joachim Schoenfeld, Silvia Spezzaferri**

10. **Eric Armynot du Châtelet, Fabrizio Frontalini and Fabio Francescangeli**
Significance of replicates: are replicates a distortion of the reality of the environments in transitional areas?
11. **Margarette Bayron-Arcelay and Dimaris Acosta-Mercado**
Contrasting the spatial distribution of dead and live foraminiferal assemblages: applying geostatistics
12. **Jane Mamuaja, Royke Rampengan and Ezra Paringgi**
A preliminary finding on foraminifera from Bunaken Island, Manado – Indonesia
13. **Romana Melis, Billy Figus, Stefano Covelli, Elisa Petranich and Vincent Bouchet**
Benthic foraminifera as biomonitoring tools in the northern Adriatic Sea (Italy)
14. **Joachim Schönfeld and Isabel Mendes**
Environmental triggers of faunal changes revealed by benthic foraminiferal monitoring

15. **Patrick Schwing, Brian O'Malley, Maria Machain-Castillo, Maickel Armenteros and David Hollander**
Utilizing benthic foraminifera to assess the impacts of oil spills and environmental response in the Gulf of Mexico: Past, Present and Future
16. **Danna Titelboim, Aleksey Sadekov, Orit Hyams-Kaphzan, Ahuva Almogi-Labin, Barak Herut, Michal Kucera and Sigal Abramovich**
Foraminiferal single chamber analyses of heavy metals as a tool for monitoring permanent and short term anthropogenic footprints
17. **Kazumi Akimoto**
Taxonomy of recent benthic foraminifers for marine environmental monitoring in eastern Indian Ocean
18. **Mauro Alivernini, Johannes Biehler, Thomas Biehl, Olga Gildeeva, Thomas Wutzler, Lailah Akita and Peter Frenzel**
Combined application of Foraminifera and Ostracoda as bio-indicators to assess Ghanaian coastal water quality
19. **Erica Bicchi, Antonio Aveta, J. Engandzas, Y. Mong, Anna Sabbatini and Magali Schweizer**
Madagascar marine ecosystems ecological status: preliminary studies of benthic foraminifera as potential bio indicators
20. **Gregor Mathes**
Anthropogenic impacts on benthic foraminiferal assemblages, Oahu, Hawaii
21. **Virgínia Martins, Lazaro Laut, Fabrizio Frontalini, Maria Machado da Fonseca, Pierre Belart, Débora Raposo, Amanda Vilar, Renan Habib, Cintia Yamashita, Silvia Helena de Mello e Sousa, Sibelle Disaró, Egberto Pereira, Rene Rodrigues, Sergio Bergamashi and Maria Rodrigues**
Living benthic foraminiferal assemblages in gas charged sediment from the northern region of Guanabara Bay (RJ, Brazil)

Session XI – Foraminifera in Quaternary Research

Conveners: **Karen Luise Knudsen, Helena Filipsson**

22. **Angélica Ballesteros Prada and Emiliana Bernasconi**
Paleoenvironmental Inferences from a Late Quaternary marine Sequence in Samborombón Bay, Buenos Aires (South America).
23. **Emiliana Bernasconi**
Paleoenvironmental changes on a coastal plain, Buenos Aires Province, Argentina: last 2700 years.
24. **Anna Binczewska, Patrick Bukenberger and Andrzej Witkowski**
Environmental reconstruction from the coral reef foraminiferal fauna: a Florida Keys case study.
25. **Dorothea Bunzel, Gerhard Schmiedl, Sebastian Lindhorst, Andreas Mackensen, Jesús Reolid, Sarah Romahn and Christian Betzler**
Impact of Late Quaternary ocean and climate variability on benthic ecosystems of the Maldives, Inner Sea.
26. **Tatiana Hromic, Osvaldo Vidal and Nelson Silva**
Nutrient factors determining benthic foraminifera distribution in channels and fjords of Chilean Patagonia.
27. **Ekaterina A. Ovsepyan and Elena V. Ivanova**

Changes in benthic foraminiferal assemblages and carbon isotopes from the core AI-3152: implications for the Late Quaternary oceanographic conditions and regional correlations in the western South Atlantic.

28. **Thu Vu, Klaus Reicherter, Margret Mathes-Schmidt and Andreas Vött**
Foraminifera assemblages and their paleocological assessment in Crete, Greece.
29. **Mary McGann and James E. Conrad**
Faunal and stable isotopic analyses of benthic foraminifera from the Southeast Cold Seep on Kimki Ridge offshore southern California, USA.
30. **Christopher W. Smart and Ellen Thomas**
Holocene variations in seasonality of productivity in the North Atlantic as reflected in bathyal benthic foraminifera.
31. **Hauke-Tom Brandt, Dorothea Bunzel, Amalie Cordua, Sebastian Lindhorst, Yvonne Milker and Gerhard Schmiedl**
Intertidal foraminifera as proxy for the evolution of a historic polder on Eiderstedt peninsula, German North Sea coast.
32. **Kerstin Perner and Karen-Luise Knudsen**
Benthic foraminiferal assemblage change during the last 150 years on the North Icelandic shelf - and two new agglutinated species.
33. **Elizaveta Novikhina, Evgeny Gusev, Ekaterina Taldenkova, Anton Kuznetsov, Sergey Nikolaev and Anna Stepanova**
Past sedimentation rates and environmental conditions on the Mendeleev Rise (Arctic ocean).

Monday 18 June – Poster Session, South Hall, 15:00 – 16:00

Session III – Biomineralisation and geochemistry of Proxies-Field calibrations Laboratory culture and Paleo oceanographic reconstructions

Conveners: **Jonathan Erez, Lennart de Nooijer, Takashi Toyofuku**

34. **Yukiko Nagai, Takashi Toyofuku, Chong Chen, Katsunori Uematsu**
Formation Process of Organic membrane within calcareous test and early calcium carbonate deposition of benthic foraminifera *Ammonia*
35. **Alex Gagnon, Elisa Bonnin, Oscar Branson, Markus Rashke, Samuel Johnson**
Sub-micron heterogeneity in biominerals: what is the role of organic-mineral interactions?
36. **Zhoufei YU, Yanli LEI, Tiegang LI**
Proloculus Size, Mg/Ca and Sr/Ca in Benthic Foraminifera *Ammonia aomoriensis*: Based on Culture and field Studies
37. **Niklas Meinicke, Sze Ling Ho, Dirk Nürnberg, Aradhna E. Tripathi, Eystein Jansen, Trond Dokken, Ralf Schiebel and Anna Nele Meckler**
Studying the relationship between clumped isotopes and temperature in planktonic foraminifera
38. **Jassin Petersen, Christine Barras, Antoine Bézos, Carole La, Filip J.R. Meysman, Aurélia Mouret, Caroline P. Slomp, and Frans J. Jorissen**
Mn/Ca ratios of *Ammonia tepida* as a proxy for hypoxic events in coastal ecosystems: the case of Lake Grevelingen, The Netherlands
39. **Giuliana Panieri, Pierre-Antoine Dessandier, Haoyi Yao, Katarzyna Melaniuk, Andrea Schneider, Joan M. Bernhard, Jochen Knies, Aivo Lepland, Helge Niemann**
Benthic foraminifera in methane cold seeps: Biological and geochemical evidences from the Arctic
40. **Jessica G. M. Crumpton-Banks, Andrea Burke, James W. B. Rae, Rossanna Greenop, Andreas Mackensen**
A glacial-interglacial record of boron isotopes and trace elements in Southern Ocean foraminifera
41. **Michael Lis, Robert Thunell, Catherine Davis, Eric Tappa**
Glacial-Interglacial Changes in the Thermocline Structure of the Makassar Straits: Implications for Changes in the Indonesian Through Flow

Session IV – Advances in Foraminiferal Biomonitoring

Conveners: **Frans Jorissen, Joachim Schoenfeld, Silvia Spezzaferri**

42. **Débora Raposo, Amanda Vilar, Renan Habib, Pierre Belart, E. Volino, I. Clemente, Fabrizio Frontalini, Virginia Martins, L. Fontana and Lazaro Laut**
Foraminiferal seasonality as a baseline tool for environmental biomonitoring in the Itaipu Lagoon (Rio de Janeiro, Brazil)
43. **Luciana de Carvalho Santa-Rosa and Sibelle Trevisan Disaró**
Spatial and vertical distribution of living (stained) benthic foraminifera on the continental slope of the Potiguar Basin area (Brazilian Equatorial Margin)
44. **Pierre Belart, Renan Habib, Débora Raposo, Amanda Vilar, Virgínia Martins, I. Clemente, Fabrizio Frontalini, M. Figueiredo, M. Lorini and Lazaro Laut**
Benthic foraminiferal seasonality: a case study in the Saquarema Lagoon System (RJ, Brazil)

45. **Jean-Baptiste Champilou, Pia Nardelli, Christine Barras, Frans Jorissen, Aurélia Mouret, Grégoire Maillet, Agnès Baltzer, Ann Murat, Jean-Marc Rousset, Marine Reynaud and Édouard Metzger**
Foraminiferal faunas associated to *Haploops* spp. mats on the Atlantic French coast and effects of a wind farm installation on the area
46. **Emmanuelle Geslin, Constance Choquel, Magali Schweizer and Thierry Jauffrais**
Population dynamics of benthic foraminifera in an intertidal mudflat of the French West coast
47. **Renan Habib, Pierre Belart, Débora Raposo, Amanda Vilar, Virgínia Martins, I. Clemente, M. Figueiredo, M. Lorini and Lazaro Laut**
Population dynamics of benthic foraminifera in an intertidal mudflat of the French West coast
48. **Olga Koukousioura, Sofia Georgiou, Maria Triantaphyllou, Margarita Dimiza, Ioannis Michailidis, Elina Aidona, Miltiadis Seferlis, Christoforos Christoforidis and Manolis Evgenakis**
Living benthic foraminifera from Thermaikos Gulf, NW Aegean Sea
49. **Mélanie Portela, Maria Triantaphyllou, Margarita Dimiza, Olga Koukousioura, Aristomenis Karageorgis**
Environmental monitoring of benthic foraminiferal assemblages in the Saronikos Gulf (Greece, Eastern Mediterranean)
50. **Valeria Luciani and Marco Stefani**
Impact of trace elements pollution on the Goro Lagoon (PO Delta, NE Italy) on benthic foraminifera: a comparison between pre-industrial and recent assemblages
51. **Amanda Vilar, Débora Raposo, Renan Habib, Pierre Belart, I. Clemente, L. Fontana, E. Volino, Virgínia Martins, Fabrizio Frontalini and Lazaro Laut**
The impact of organic matter quantity and quality on living foraminifera distribution in Itajuru Channel, Araruama Lagoon, Brazil
52. **Yuval Zuckerman, Chen Kenigsberg and Sigal Abramovich**
The effect of salinity and temperature on growth of *Amphistegina lobifera* and *Peneroplis*
53. **Peter Frenzel, Stephanie Fürstenberg, Sascha Fürstenberg, Kate Strachan and Gemma Finch**
The Recent brackish water foraminifera of South Africa

Session XI – Foraminifera in Quaternary Research

Conveners: Karen Luise Knudsen, Helena Filipsson

54. **Yasmin Bokhari Friberg, Pallavi Anand, Kate Littler, Phil Sexton, Marci Robinson and Masafumi Murayama**
Reconstructing Indian Summer Monsoon variability during the Plio-Pleistocene transition.
55. **Anne E. van der Meer, M. Ziegler, and L. J. Lourens**
Plio-Pleistocene surface and deep sea temperature reconstructions for the South-West Indian Ocean and Eastern Mediterranean based on clumped isotopes in foraminiferal calcite.
56. **Markella Asimina Louvari, H. Drinia, A. Antonarakou, G. Kontakiotis, V. Frezza and L. Di Bella**
Late glacial to Holocene benthic foraminiferal shelf successions from the Central and Eastern Mediterranean Basin: A palaeoenvironmental and palaeobathymetric perspective.
57. **Romana Melis, E. Colizza, A. Polonia, A. Di Roberto and S. Manzan**

- Micropaelontological evidence for the seismic hazard assessment in the Calabrian Arc (Ionian Sea).
58. **Yvonne Milker, Frans J. Jorissen, Manuel F. G. Weinkauf, Jürgen Titschack, Marc Theodor and Gerhard Schmiedl**
Paleo-ecologic and neotectonic evolution of the island of Rhodes (Greece) during the early Pleistocene.
 59. **Shuai Zhang, Tiegang Li, Fengming Chang, Haixia Wang and Yiquan Qi**
The foraminiferal $\delta^{13}\text{C}$ records in the western Pacific warm pool during the last four glacial-interglacial cycle.
 60. **Eloise Littley, J. Rae, A. Burke, R. Greenop, H. Vogel and D. Thornalley**
North Atlantic CO_2 change during the rapid climate events of the last glacial period.
 61. **Nadine B. Quintana Krupinski, Andreas Mackensen, Yasmin Bokhari Friberg, Karen-Luise Knudsen, Anne-Sophie Fanget, Jeroen Groeneveld, Marit-Solveig Seidenkrantz and Helena L. Filipsson**
Marine environmental changes in front of the Scandinavian Ice Sheet during the last deglaciation.
 62. **Sev Kender, Ana Christina Ravelo, Melanie J. Leng, Hirofumi Asahi, Julia Becker, Henrieka Detlef, Savannah Worne, George E. A. Swann, Ivano W. Aiello, Dyke Andreasen and Ian R. Hall**
Bering Sea intermediate and surface water changes over the Middle Pleistocene Transition (MIS 21–29, 84 – 02 Ma).
 63. **Maciej M. Telesiński, Henning A. Bauch and Robert F. Spielhagen**
Arctic freshwater routing into the Nordic Seas during late Marine Isotope Stage
 64. **Helen K. Coxall, Veronica Carlson, Thomas M. Cronin, Kate Darling and Matt O'Regan**
The planktic foraminifera genus *Turborotalita* in the Central Arctic Ocean.
 65. **Rabecca Thiessen, Anna J. Pieńkowski, Mark F. A. Furze, Alix G. Cage and Naima El Bani Altuna**
Foraminifera: a tool for elucidating past and recent climate change in marine Arctic Canada.

Monday 18 June – Poster Session, South Hall, 17:30 – 18:30

Session II – Advances in Foraminiferal Geochemistry

Conveners: **Howie Spero, Jelle Bijma**

66. **Lennart de Nooijer, Takashi Toyofuku and Gert-Jan Reichart**
Foraminiferal calcification and CO₂.
67. **Jeroen Groeneveld, S.L. Ho, A. Mackensen, M. Mohtadi, and T. Laepple**
Mg/Ca and stable oxygen isotopes in individual foraminifera: Climate or ecology?
68. **Linda Dämmer, Jan Haak, Lennart de Nooijer and Gert-Jan Reichart**
Na/Ca in planktonic foraminifera as a proxy for salinity.
69. **Robert Poirier, Reinhard Kozdon, Morgan Schaller and Maureen Raymo**
Assessing potential for diagenetic overprinting of climatic signals in benthic foraminifera: Preliminary results.
70. **Rehemat Bhatia, Bridget S. Wade, David P. Matthey, Wolfgang Müller, David Evans and David J.R. Thornalley**
Palaeoecology of Eocene planktonic foraminifera inferred from paired isotopic and trace element signatures.
71. **Muhittin Gormus, Yusuf Kağan Kadioğlu, Huriye Demircan, Fuzuli Yağmurlu, Gözde Şen, Selda Bulut, Sinan Canbolat, Kıymet Deniz**
Geochemical and isotopic data of microborings and tests of the larger benthic foraminifera from the Ankara region, Turkey.
72. **Grit Steinhofel, Albert Benthien, Jelle Bijma, Markus Raitzsch and Klau-Uwe Richter**
In situ boron isotope analysis on single foraminifera shells by femtosecond LA-ICP-MS with application to the carbonate chemistry of the ocean.
73. **Julie Richey, Caitlin Reynolds, Jennifer Fehrenbacher and Howard Spero**
Environmental controls on barium incorporation in planktic foraminifer, *Globorotalia truncatulinoides*.
74. **Zarkogiannis S., Kontakiotis G., Antonarakou A., Drinia H., Mortyn P.G., Schmidt M.W., Schulbert, C.**
Dissolution assessment of surface Atlantic sediments using X-ray micro-computed tomography (μ CT)
75. **Schmitt A., Elliot M., La C., Bassinot F., Petersen.J, Movellan A**
Single foraminifera Mg/Ca of *G. ruber* morphotypes (LA-ICPMS): New insights into past seasonality and inter-annual variability of water column temperatures

Session VIII – Planktonic Foraminifera; a bridge between ecological and evolutionary dynamics in deep time

Conveners: **Andy Purvis, Tom Ezard, Isabel Fenton**

76. **Ágnes Görög, Marjorie Apthorpe, & Michael A. Kaminski**
Biogeographic disparity of the Western and Eastern Tethyan protoglobigerinds in the Middle Jurassic
77. **Christoph Hemleben, Richard K. Olsson, Vlasta Premec Fucek and Morana Hernitz Kucenjak**
Wall texture of Oligocene normal perforate and some microperforate planktonic foraminifera

78. **Katarína Holcová, Jakub Trubač, Jan Dudák, Jan Žemlička, Jakub Karch, Vojtěch Kovar, Eliška Rajmonová, Natália Hudáčková**
Morphological variability of globigerinids from the Early Miocene of the Central Paratethys
79. **Christopher W. Smart and Ellen Thomas**
Holocene variations in seasonality of productivity in the North Atlantic as reflected in bathyal benthic foraminifera
80. **Yamina Bourgeoini**
Lower Cretaceous (Aptian-Albian) sedimentary basin of Essaouira-Agadir: micropalaeontology and Biostratigraphy based on Foraminifera.
81. **Chaima Grira, Narjess Karoui- Yaakoub, Mohamed Hédi Negra, Eustoquio Molina**
Integrated biostratigraphy and bioevents during the Lutetian/Barthonian transition in the North East of Tunisia
82. **Thore Friesenhagen and Michael Knappertsbusch**
Evolutionary Prospection of *Globorotalia menardii*
83. **Jan Sotak**
Development of a supplementary apertures in Late Oligocene planktonic foraminifers of *Globigerinoides* lineage: ecological response to climatic warming?
84. **Jan Sotak**
Middle Eocene event of digitate planktonic foraminifera in the Western Carpathians: implications for hantkeninid phylogeny, biostratigraphy and paleoenvironments
85. **Adam Woodhouse**
How have macroperforate planktonic foraminifer ecogroup biogeographies varied through the Cenozoic?
86. **Vlasta Premec Fucek, Morana Hernitz Kucenjak, Brian Huber and Ines Galovic**
First evidence of triserial planktonic foraminifera *Jenkinsina columbiana* in Paleocene (Palmyride, Syria)

Session XI – Foraminifera in Quaternary Research

Conveners: **Karen Luise Knudsen, Helena Filipsson**

87. **Jennifer E. Hertzberg and Matthew W. Schmidt**
Tropical Pacific Mean State and ENSO Variability across Marine Isotope Stage 3: Results from Bulk and Individual Foraminifera Analyses.
88. **Ryan H. Glaubke, Matthew W. Schmidt, Jennifer E. Hertzberg, Lenzie Warner, Franco Marcantonio and Thomas S. Bianchi**
Utilizing Individual Foraminiferal Analysis to investigate the history of the El Niño – Southern Oscillation.
89. **Bruna B. Dias, Rut A. Díaz, Thatiele M. de Farias, Manuel Moreira, André Bahr and Ana Luiza S. Albuquerque**
Stable carbon isotope gradient of deep-sea benthic foraminifera under different trophic conditions at the Brazilian margin.
90. **Dharma Reyes-Macaya, Gema Martínez-Méndez, Babette Hoogakker, Mahyar Mohtadi, Jorge Cardich, Gerhard Schmiedl, Zeynep Erdem, Daniel McCorkle, Yusuke Yokoyama, Andrea Lückge, Macarena Vergara, Margarita Marchant, Raúl Tapia, Consuelo Martínez-Fontaine, Elisabeth Michel, Giuseppe Siani, Alan Mix, Ricardo De Pol Holz, James Ingle, Dimitri Gutierrez, Osvaldo Ulloa, Laura Farias and Dierk Hebbeln**
Stable Isotopic Composition (carbon and oxygen) of Benthic Foraminifera from the Equatorial and South East Pacific.

91. **Andres Rüggeberg, Claudio Stalder, Jorge E. Spangenberg, Jacek Raddatz, David Van Rooij, Sascha Flögel, Wolf-Christian Dullo, Anneleen Foubert and Silvia Spezzaferri**
Foraminiferal multi-species stable isotopes for palaeo-water mass reconstruction in the western Mediterranean Sea.
92. **Heather J. H. Johnstone, Stefan Mulitza and Heiko Paelike**
Comparison of Mg/Ca in *C. wuellerstorfi* and *Uvigerina* spp from a site in the tropical North Atlantic.
93. **Els Ufkes, Kay Beets, Maarten Prins, Martine Hagen, Colin Straathof, Martijn van Dijk, Joost Ruiter, Jesse Rodermans, Martine Hagen, Rineke Gieles and Jan-Berend Stuut**
Paleoproductivity proxies in the eastern equatorial Atlantic.
94. **Antje H. L. Voelker, Emilia Salgueiro and Pamela Martin**
A Mg/Ca – temperature calibration for *Cibicidoides pachyderma* within the domain of the Mediterranean Outflow Water.
95. **Emilia Salgueiro, A. H. Voelker, P. A. Martin, A. Alberto, A. Rebotim, T. Rodrigues, D. Zúñiga, M. Froján, F. de la Granda, N. Villaceros-Robineau, F. Alonso-Pérez, R. González-Álvarez, C. G. Castro and F. Abrantes**
Calibration of $\delta^{18}\text{O}$ and Mg/Ca thermometry in planktonic foraminifera: important outcomes to be considered for a coastal upwelling region.
96. **Rastislav Čvirik**
Analysis of bioerosion on recent Rose Bengal colored benthic foraminifera from Red Sea.
97. **Lóránd Silye, Gerard J. M. Versteegh and Karin A. F. Zonneveld**
The effect of a progressive oxygenation front on the Quaternary benthic foraminiferal abundance, diversity and preservation.
98. **Dorothea Bunzel, Katharina Müller-Navarra, Yvonne Milker and Gerhard Schmiedl**
Salt-marsh foraminifera as indicators for relative sea level and climate changes in the southeastern North Sea during the past 100 years.
99. **M. Mojtahid, A. Jouini, H. Howa, B. Lansard, E. Michel, O. Péron, A. Baltzer and M. P. Nardelli**
Benthic foraminiferal dissolution index for marine sediments in the Svalbard (Storfjorden).

Session XII – Advances in Planktonic Foraminiferal Ecology and Population Dynamics

Conveners: Michal Kucera, G-J Brummer

1. **Rehemat Bhatia, Bridget S. Wade, David P. Matthey and David J.R. Thornalley**
The mysterious palaeoecology of Eocene planktonic foraminiferal genus *Globigerinatheka*
2. **Catherine V. Davis, Robert C. Thunell, Karen Wishner**
Depth Stratified Planktic Foraminifera Assemblages from the Eastern Tropical North Pacific: Life Above and Below the Oxycline
3. **Thibault de GARIDEL-THORON**
Evaluating biodiversity changes of calcifying zooplankton in response to multiple stressors since the 1950's: the FORCIS database
4. **Naima El Bani Altuna, Pieńkowski Anna J., Eynaud Frédérique, Thiessen Rebecca**
The morphotypes of *Neogloboquadrina pachyderma*: isotopic signature and distribution patterns in the Canadian Arctic Archipelago and adjacent regions
5. **Holger Gebhardt**
Campanian to Maastrichtian planktic foraminifera of the Pálava Formation may point to southward flow of boreal waters into the Penninic Ocean
6. **Douglas Lessa, R. Reuter, A. Baumeister, A. L. Albuquerque, M. Kucera**
Vertical distribution of planktonic foraminifera across the Subtropical South Atlantic during the Late Summer 2016
7. **Andrew Mair, Kirsty Edgar and Tracy Aze**
A Morphometric Study of Planktonic Foraminifera size change at ODP Site 702B over the Middle Eocene Climatic Optimum
8. **Meilland, J., Howa, H., Hulot, V., Demangel, I., Terrien, S., Garlan, T.**
Modern planktonic foraminiferal assemblages in the Western Barents Sea, from plankton tow to core-top observations
9. **Paul Minton, Bridget Wade, David Thornalley, Melanie Leng, David King**
Is Paragloborotalia siakensis a Miocene mixed-layer proxy?
10. **Siri Ofstad, Katarzyna Zamelczyk, Katsunori Kimoto, Melissa Chierici, Agneta Fransson, Tine L. Rasmussen**
Polar planktonic foraminiferal tests and carbonate chemistry – a comparison between paleo-proxies and MXCT analysis
11. **Paul N. Pearson, Jonatan Isaksson, Luke Penny, Tom Ezard and IODP Expedition 363 Shipboard Scientific Party**
Species and speciation in *Pulleniatina* (planktonic foraminifera): genetic isolation and ecological confinement.
12. **Stephanie Stainbank, Silvia Spezzaferri, Dick Kroon, Erica S. de Leau and Andres Rüggeberg**
A new planktonic foraminifera morphospecies, *Globigerinoides eoconglobatus* n. sp.
13. **Andreia Rebotim, Antje H. L. Voelker, Lukas Jonkers, Michael Siccha, Michael Schulz, Michal Kucera**
Factors controlling the spatial and vertical distribution of living planktonic foraminifera in the subtropical eastern North Atlantic
14. **Manuel F. G. Weinkauff, Agnes K. M. Weiner and Michael Siccha**
Reproduction of planktonic Foraminifera: Mathematical modelling complements laboratory and field observations

Session XIV – Foraminifera; Bridging the Gap between ecology and palaeoecology

Conveners: Elisabeth Alve, Bill Austin

15. **Claudia Baumgartner-Mora, Antonino Briguglio, Laszlo Kocsis, Roksana Majewska, Amajida Roslim, Goran Andjic, and Peter O. Baumgartner**
Rafting on macro-algae (Sargassum) of symbiont-bearing Larger Benthic Foraminifera, key to their dispersal in recent and ancient oceans
16. **Constance Choquel, Helena Filipsson, Karen Luise Knudsen, Aurélia Mouret, Edouard Metzger, Thierry Jauffrais, Bruno Jesus, and Emmanuelle Geslin**
Distribution of benthic foraminifera in Gullmar Fjord (Sweden): comparison between oxic and hypoxic stations.
17. **Elena Romano, L. Bergamin, L. Di Bella, V. Frezza, A. Marassich, C. Provenzani**
Benthic foraminifera as proxies of environmental variability in the Orosei submarine cave system (Sardinia, Italy).
18. **V. Frezza, M. Biancone, L. Di Bella, M.A. Baldassarre, P. Bellotti, G. Calise, M. D'Orefice, R. Raffi, C. Tarragoni, and L. Davoli**
Benthic foraminiferal assemblage from Natural Reserve of Torre Flavia Marsh (Central Italy).
19. **Robin Fentimen, Andres Rüggeberg, Anneleen Foubert, Aaron Lim, Sébastien Bertrand, David van Rooij, Andrew Wheeler, Silvia Spezzaferri**
Comparison between living and dead benthic foraminiferal assemblages in a cold-water coral environment: the Moira Mounds (North-east Atlantic).
20. **Carles Ferràndez-Cañadell**
Symbiosis between serpulids and larger foraminifers in the Eocene.
21. **Patrick Grunert, Ángela García Gallardo, Antje H.L. Voelker, Isabel Mendes, and Werner E. Piller**
Re-evaluation of benthic foraminifera as indicators of bottom current strength.
22. **Janine Könen, Martin R. Langer, Herbert K. Dreiner, and Philip Bechtel**
Biometric analysis of modern Miliolid benthic foraminifera using high-resolution micro-computer tomography.
23. **Lazaro Laut, M.V.A. Martins, F. Frontalini, M.L. Figueiredo, and M.L. Lorini**
Foraminifera and thecamoebians as proxies for the classification of hydrothermal conditions: the experience in Brazilian estuaries.
24. **Durdica Pezelj**
Evidence of seasonality in Middle Miocene Central Paratethys shallow marine shelf – recorded by benthic foraminifera.
25. **Filip Scheiner, Katarína Holcová, Rastislav Milovský, Henning Kuhnert**
Temperature and isotopic composition of seawater in the epicontinental sea (Central Paratethys) during the Middle Miocene Climate Transition based on foraminiferal Mg/Ca, $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$.
26. **Raquel Bryant, Adriane R. Lam, R. Mark Leckie, Khalifa Elderbak, Chris Lowery, and Amanda Parker**
Environmental distribution of foraminiferal morphotypes through the onset of OAE2 in the Western Interior Seaway.

Session XVII - Evolution, Stratigraphy and Geological Crisis

27. **Burgeoini Y.**
Lower Cretaceous (Aptian-Albian) sedimentary basin of Essaouira-Agadir: micropalaeontology and Biostratigraphy based on Foraminifera.
28. **Cannings T., Kroon D., Robertson A.H.F., Coletti G., Spezzaferri S., Balmer E., Raffi I.**
Geological development and palaeoceanographic implications of Miocene deep-water carbonates of the Polis basin, west Cyprus.
29. **Chroustová M., Holcová K., Hradecká L., Uličný D.**
Foraminifera assemblages and lithological variability, Upper Turonian, Bohemian Cretaceous Basin.
30. **Consorti L., Boix C., Cruz-Abad E., Nafaieh E., Caus E.**
New data on the evolution and systematic of the Superfamily Soritoidea.
31. **Crundwell M. P.**
Apertural features reveal new morphospecies and insight into the phylogeny of *Truncorotalia* and *Ggloboconella*.
32. **Dameron S. and Leckie M.**
Going off the deep end: A review of Jurassic and Early Cretaceous deep-sea benthic foraminiferal evolution.
33. **Gennari R., Darling, K. F., Lugli, S., Manzi, V., Reghizzi, M., Rossi, F.P., Roveri, M. and Smart, C.W.**
Biserial foraminifera in the Messinian Lago Mare of the Western Mediterranean: the tythropelagic lifestyle as a proxy of ephemeral marine connections.
34. **Gilabert V., Arz J. A., Arenillas I., Robinson S. A.**
Changes in seawater temperature and carbonate dissolution linked to latest Maastrichtian Deccan eruptions: influence on planktic foraminifera at Caravaca, Spain.
35. **Hernitz Kučenjak M., Premec Fuček V., Krizmanić K., Tadej J., Zlatař S., Matošević M.**
Karpatian and Badenian transgressions in Croatian part of the Pannonian Basin System (biostratigraphy and paleoenvironments).
36. **Karoui-Yaakoub N., Grira Ch., Negra M. H., Molina E.**
Foraminifera associations of the palaeoenvironment conditions at the Lutetian/Barthonian boundary In the Northeast of Tunisia.

Session XIV – Foraminifera; Bridging the Gap between ecology and palaeoecology

Conveners: **Elisabeth Alve, Bill Austin**

37. **Alix G. Cage and Anna J. Pieńkowski**
Comparative analysis of *Cassidulina* and *Islandiella* foraminiferal taxa from the Arctic-Atlantic ocean region.
38. **Joice Dissenha Gonçalves, Sibelle Trevisan Disaró, José Rodolfo Angulo, Luciana Cristina de Carvalho Santa-Rosa**
Incrusting foraminifers: are we properly estimating this almost hidden fauna?
39. **John Sebastian Poveda-Hurtado, Fabrizio Frontalini, Martino Giorgioni, Raúl Andres Trejos, Monica Duque, Lina Osorio, Flavia Fiorini, and Andres Pardo-Trujillo**
Benthic foraminifera as paleoenvironmental proxies of Miocene Northern Andean uplift (Colombia).
40. **Elena Golikova, Marina Varfolomeeva, and Sergei Korsun**
A subarctic salt marsh and its unexpectedly high foraminiferal abundance, White Sea, northern Europe.
41. **Fabricio Guamán-Guevara, G. Kannan, F. Müller, and W.E.N. Austin**
Short-term effects of high pCO₂ /low pH levels on post-mortem dissolution of benthic foraminifera.
42. **Malarkodi Nallamuthu, C. S. Bhargava Sharma, and S. Chethan Kumar**
Palaeocene Foraminifera from the Pondicherry Area, Cauvery Basin, southern India.
43. **Irene Peñalver-Clavel, Hugo Corbí, and Paul Blanchon**
Benthic foraminiferal assemblages from Puerto Morelos fringing reef (Caribbean sea, Mexico).
44. **Kerstin Perner**
Exploring the recent temperate to sub-arctic benthic foraminiferal assemblages on the eastern Canadian shelf: the size fraction and sample preparation issue.
45. **Calypto Racine, Jérôme Bonnin, Jacques Giraudeau, Sébastien Zaragosi, and Thierry Garlan**
Distribution of living benthic foraminifera in the western Barents Sea.
46. **M.S.S. Jesus, R.R. Oliveira, S.H.M. Sousa, B. Kim, E. Siegle, P.A.L. Ferreira, R.C.L. Figueira, C. Yamashita, M.V.A. Martins**
Environmental quality status evaluation based on multiple proxies of the Flamengo Bay (Ubatuba, Brazil) over the last century.
47. **Julia Wukovits, Annkatrin Julie Enge, Max Oberrauch, and Petra Heinz**
Combined effects of phytodetritus quality and environmental temperature on carbon and nitrogen cycling in *Haynesina germanica*.
48. **Cintia Yamashita, Silvia Helena de Mello e Sousa, Naira Yamamoto, Rubens Cesar Lopes Figueira, Marcia Caruso Bicego, and Michel Michaelovitch de Mahiques**
Environmental assessment of the south-eastern Brazilian continental slope based on taphonomic processes on benthic foraminifera.

Session XVII - Evolution, Stratigraphy and Geological Crisis

Conveners: **Rossana Martini, Roberto Rettori, Sylvain Rigaud**

49. **Kendall S., Schmidt D. N., Gradstein F., Ball A., Cunningham J., Jones C.**
The origin of planktic foraminifera – novel methods to an old question.
50. **Kranner M., Harzhauser M., Mandic O., Piller W., Strauss Ph., Siedl W.**
Foraminifera as tool for biostratigraphic cross-correlation of major oilfields in the Vienna Basin.
51. **Nestell G. P., Nestell M. K., Barrick J. E.**
Foraminiferal populations in the Kasimovian/Gzhelian boundary transition interval of an Upper Pennsylvanian cyclothem in the lower part of the Graham Formation, North Central Texas, U.S.A.
52. **Rigaud S., Granier B., Martini R., Masse J.-P.**
Aragonitic foraminifers: A new type of wall!
53. **Robinson N. and. Mitchell S. F.**
Quantitative and qualitative evaluation of mid Eocene *Yaberinella* from Jamaica and implications for trans-Atlantic migration in the Eocene
54. **Robles-Salcedo R., Vicedo V., Parente M., Caus, E.**
A new siderolite from the late Maastrichtian of Italy.
55. **Stulpinaite R.**
Taxonomy, test material and environmental analysis of agglutinated foraminifera from the *Mergelstetten* Formation of the Swabian Alb (SW-Germany).
56. **Tadir R., Ashckenazi-Polivoda S., Abramovich S.**
Evolutionary trends of Late Cretaceous planktonic foraminifera species *Pseudotextularia nuttalli*.
57. **Vicedo V. and Robles-Salcedo R.**
The larger foraminifera of the K-Pg transition in Jabal Ja'alan (Oman Mountains).

Session VI – Single-cell genomics of Foraminifera; from organismal interactions to integrative framework

Conveners: **Kate Darling, Magali Schweizer**

58. **Kate Darling, Raphael Morard, Mattia Greco, Michael Siccha, Michal Kucera**
The Antarctic marine plankton diversity hub and the Arctic dead-end
59. **Maria Holzmann, Jan Pawlowski**
An updated classification of rotaliid foraminifera based on molecular phylogeny
60. **Andrew Gooday, Maria Holzmann, Clemence Caille, Aurélie Goineau, Olga Kamenskaya, Alexandra Weber, Jan Pawlowski**
The protistan megafauna of the deep sea: new observations on xenophyophores (Foraminifera) in the abyssal eastern Pacific Ocean
61. **Chiara Borrelli, Yubo Hou, Jan Pawlowski, Maria Holzmann, Miriam Katz, Thomas Chandler, and Samuel Bowser**
Testing SSU rDNA barcodes in foraminifera: a case study using *Bolivina quadrata*
62. **Ivan Voltzki, Agnes Weiner, Masashi Tsuchiya, Hiroshi Kitazato**
Syringamina limosa sp. nov. and other xenophyophores from the north-west Pacific (the Sea of Okhotsk and Kuril-Kamchatka Trench region)
63. **Ferry Siemensma, Laure Apothéloz-Perret-Gentil, Maria Holzmann, Steffen Clauss, Eckhard Völcker and Jan Pawlowski**
Taxonomic Revision of Freshwater Foraminifera with the Description of Two New Agglutinated Species and Genera
64. **Mattia Greco, Raphael Morard, Michal Kucera**
Assessing the occurrence and the origin of SSU rDNA Intragenomic polymorphism in Planktonic Foraminifera

65. **Dmitrii Mikhailov, Maria Holzmann, Elena Golikova, Jan Pawlowski, Sergei Korsun**
Molecular analyses reveal a paraphyletic origin for Trochamminidae
66. **Magali Schweizer, Théo Marchand, Sophie Quinchar, Laurie Brethous, Julien Richirt, Bruno Bombed, Edouard Metzger, Frans Jorissen, Martial Taillefert, Christophe Rabouille**
Comparison between DNA barcoding and morphological identification of foraminifers from oxic and anoxic sites in the Gulf of Mexico
67. **Wojciech Majewski, Aneta Majda, Tomasz Mamos, Michał Grabowski, Samuel Bowser, Maria A. Godoic and Jan Pawłowski**
Molecular population structure of Antarctic shallow-water benthic foraminifera: The window to biogeography and dispersal patterns
68. **Laure Apothéloz-Perret-Gentil, Maria Holzmann and Jan Pawlowski**
Single cell high-throughput sequencing unveils different patterns of intragenomic polymorphism in ribosomal RNA genes of Foraminifera

Session VII – Environmental genomics of foraminifera: From global diversity of foraminifera and beyond

Conveners: **Raphael Morard, Jan Pawlowski**

69. **Ines Barrenechea Angeles, Raphaël Morard, Michal Kucera, Stefan Mulitza, Jan Pawlowski, and Daniel Ariztegui.** Comparing foraminifera microscopic assemblages and environmental DNA in northwestern Atlantic sedimentary cores
70. **Magali Schweizer, Sophie Quinchar, Thierry Jauffrais, Emmanuelle Geslin**
What is on the menu of foraminifers from the Bay of Bourgneuf, an intertidal mudflat on the French Atlantic coast?
71. **Marleen Stuhr, Bernhard Blank-Landeshammer, Laxmikanth Kollipara, Claire E Reymond, Albert Sickmann, Michal Kucera, Hildegard Westphal**
Proteomics allow novel insights into stress responses of foraminifera and their photosymbionts
72. **Raphaël Morard, Christiane Schmidt, Paul Debray, Javier Del Campo, Franck Lejzerowicz, Yoann Dufresne, Jan Pawlowski and Michal Kucera**
Stress-induced modifications of the eukaryotic microbiome in *Amphistegina lobifera* and *Pararotalia calcariformata*
-

17:30 – 18:30 Cushman Reception

21:00 – 00:30 Ceilidh

Session IX – Foraminifera and ocean drilling; celebrating 50 years of discovery

Conveners: Brian Huber, Paul Pearson, Dick Kroon

1. **McKnight, Mike J., Kirsty M. Edgar, Tom Dunkley-Jones, Carina M. Hoorn, Adam D. Woodhouse**
The Impact of Tasman Gateway Opening on Early Paleogene Climate and Oceans: Preliminary findings from IODP Exp. 369
2. **Edvardsen, Trine, Erik Wolfgring, Michael A. Kaminski, Kirsty M. Edgar, Rodrigo do Monte Guerra, Brian T. Huber, Maria Rose Petrizzo, David Watkins and the IODP Expedition 369 Scientific Party**
Taxonomic study of agglutinated foraminifera from the Cretaceous southern high-latitude IODP Site U1512 (Great Australian Bight)
3. **Wolfgring, Erik, Trine Edvardsen, Michael A. Kaminski, Kirsty M. Edgar, Brian T. Huber, Rodrigo do Monte Guerra, Maria Rose Petrizzo, David K. Watkins, IODP Expedition 369 Shipboard Scientists**
New insights into the paleogeographic evolution of Australian-Antarctica break-up - A high southern-latitude record of Cretaceous agglutinated foraminifera from IODP Site U1512 (Great Australian Bight)
4. **Baranowski, Ulrike, Tom Dunkley Jones, Kirsty Edgar, Heiko Moossen, Ian Boomer, James Bendle and Stephen Jones**
Eocene palaeoenvironmental reconstructions of the Rockall Trough, with a focus on sea surface temperature (SST) proxies
5. **Lübbers, Julia, Wolfgang Kuhnt, Ann E. Holbourn, Clara T. Bolton, Emmeline Gray, Karlos G.D. Kochhann, Nils Andersen**
Middle to late Miocene evidences of climate change in the Indian Ocean (IODP Site 1443)
6. **Bogus, K.A., Kender, S., Fox, L.R., and Leng, M.J.**
Stable isotopes from Miocene to Pliocene planktonic and benthic foraminifera from IODP Sites U1450 and U1451
7. **King, D.J., B.S. Wade, C.G. Miller, A. Foubert, S. Stainbank, R.M. Leckie, and S. Spezzaferri**
The Paragloborotalia mayeri-siakensis Conundrum: New Taxonomic Perspectives
8. **Zhang, Manlin, Dirk Kroon, Laetitia Pichevin, Chilcott Colin, Tereza Kunkelova, Erica de Leau, Andres Rueggeberg, Stephanie Hayman-Stainbank, Silvia Spezzaferri, Jacek Raddatz**
The Monsoonal Evolution in the Late Pleistocene from the Maldives
9. **Bubenshchikova, N., Nürnberg D., Schönfeld J., Pavlova G.**
Variations in intermediate water properties in the Okhotsk Sea around Last Interglacial based on Mg/Ca ratios and stable isotopes of benthic foraminiferal *Uvigerina* spp.
10. **Lopes, A., M. Alonso-Garcia, C.N. Rodriguez-Diaz, E. Salgueiro, T. Rodrigues, H. Kuhnert, J. Groeneveld, C. Alvarez-Zarikian, C. Herrero, W. Soares, F. Fatela, A.H.L. Voelker, F.J. Sierro, J.A. Flores, F. Abrantes**
Mediterranean Outflow Water changes during the Late Pliocene-Early Pleistocene: a benthic foraminifer perspective
11. **Ding, X., Duo Wang, Li Gong, Tao Sheng, Liping Zhou**
Glacial-interglacial variations of foraminiferal assemblage characteristics since ~300 ka at two IODP 353 sites
12. **Bubenshchikova, N., Schönfeld J., Nürnberg D.**
Paleoenvironmental conditions in the Okhotsk Sea around Last Interglacial
13. **Christensen, B., David DeVleeschouwer, Rebecca Smith, Isla Casteneda, Jorijntje Henderiks, Jeroen Groeneveld, Willem Renema, Kara Bogus, Mark Maslin, Richard W. Murray**

- Investigating zonal Indian Ocean Circulation: Insights from IODP Site U1463 and ODP Site 1085
14. **Markus Raitzsch, Jelle Bijma, Torsten Bickert, Michael Schulz, Ann Holbourn, Michal Kučera**
Atmospheric carbon dioxide excursion following middle Miocene Antarctic glaciation

Session XIII – Foraminifera in Applied Micropalaeontology (Industrial and Academic)

Conveners: **John Gregory; Haydon Bailey**

15. **Claudia Cetean, Jim P. G. Fenton & David Hulks**
Late Jurassic - Early Cretaceous palaeoenvironments in the Flemish Pass Basin, offshore Newfoundland, Canada
16. **Kirsty M. Edgar, Maria Rose Petrizzo, Rodrigo do Monte Guerreiro, David K. Watkins, Trine F. Edvardson, Erik Wolfgring, Yong-Xiang Li, Carl Richter, Brian T. Huber, Richard W. Hobbs, Kara A. Bogus, Emma M. Hanson and the IODP Expedition 369 Scientific Party**
Testing Paleogene planktic foraminiferal biozonation schemes with new sediments from IODP Expedition 369
17. **Thaise R. Freitas, Eduardo Bacalhau & Carla C. Bonetti**
An automated method for foraminiferal biomass estimate
18. **Meral Kaya Sari & Deniz Ibilioglu**
Foraminiferal biostratigraphy of the Upper Paleocene sequences in the Sinop Basin, Central Black Sea region, Turkey
19. **Nicoletta Mancin, A. Di Giulio & G. Toscani**
Paleogeographic evolution and subsidence analysis from micropalaeontological constraints: the case of a shared Cenozoic foreland basin.
20. **Kristin McDougall & Adriana Yanet Miranda-Martínez**
Transition of the Bouse Formation from a marine estuary to saline lake in the late Miocene to early Pliocene in California and Arizona, USA
21. **Cian McGuire, Mike Rogerson & Dan Parsons**
A foraminiferal solution to the Contourite / Turbidite problem
22. **Michiko Miwa, Yumi Kaneko and Tetsuya Yamamoto**
Foraminiferal assemblages application to high resolution reservoir correlation- an example from Miocene Onnagawa Formation, Akita, Japan.
23. **Danuta Peryt, Zofia Dubicka & Ireneusz Walaszczyk**
Foraminiferal bioevents within the Turonian-Coniacian boundary interval in Central Europe
24. **Anna Pint, Martin Seeliger, Peter Frenzel, Stefan Feuser, Christopher Berndt, Felix Pirson & Helmut Brückner**
The environs of Elaia's ancient harbour – a reconstruction based on microfaunal evidence
25. **Sadie Samsoukar, Brent Wilson & Lee-Ann C. Hayek**
Benthic foraminifera of the inter-fingering Ciperó and Nariva Formations, South Trinidad, SE Caribbean
26. **Emma Sheldon, Ulrik Gregersen & Morten Sparre Andersen**
Microfossil biostratigraphy of the Cretaceous–Paleocene of recently drilled exploration wells offshore SW Greenland
27. **Brian T. Huber**
PF@Mikrotax: A new online taxonomic database for planktonic foraminifera
28. **Jens M. Thissen, C. Daniel Cuciniello, and Juan P. Pérez Panera**
Oligo-Miocene foraminiferal and calcareous nannofossil assemblages from the southern Austral Basin, Tierra del Fuego, South America

Session I – Foraminiferal Biology in a Changing World

29. **Francesca Caridi, A. Sabbatini, C. Morigi, R.G. Lucchi, A. Bartolini, A. Dell'Anno, D. Dissard, M. Lo Martire and A. Negri**
Living benthic foraminifera in the Kveithola Trough, influence of organic matter and hypoxia
30. **Bruna B. Dias, Cátia F. Barbosa, Gabrielle R. Faria, José Carlos S. Seoane and Ana Luiza S. Albuquerque**
Phytodetritus disturbances on benthic foraminiferal community of a Western Boundary Upwelling System, Brazil
31. **Fabrizio Frontalini, Maria Teresa Losada, Takashi Toyofuku, Jarosław Tyszka, Jan Goleń, Lennart de Nooijer, Barbara Canonico, Erica Cesarini, Yukiko Nagai, Tetsuro Ikuta, Remi Tsubaki, Stefano Papa, Rodolfo Coccioni, Jelle Bijma and Joan M. Bernhard**
Foraminiferal ultrastructure: a perspective from fluorescent and fluorogenic probes
32. **Nicolaas Glock, Julia Wukovits and Alexandra-Sophie Roy**
Carnivorous behaviour and predatory strategies of *Globobulimina auriculata* (Bailey, 1984)
33. **Michael Martínez-Colon and Benjamin Ross**
Morphological descriptions of Turbellaria cocoons attached to numerous benthic foraminifers from Apalachicola Bay, Florida
34. **Olugbenga T. Fajemila, Martin R. Langer and Jere H. Lipps**
Catalogue of tropical shallow-water benthic foraminifera from Moorea (Society Islands, French Polynesia)
35. **Lyndsey Fox, Tom Hill, Stephen Stukins, Giles Miller and Epi Vaccaro**
CHALLENGER REVISITED: Can historical collections provide new insights into anthropogenic climate change?
36. **Christopher W. Smith and Susan T. Goldstein**
Effects of selected heavy metals on shallow-water benthic foraminiferal assemblages from Sapelo Island, Georgia and Little Duck Key, Florida (USA): An investigation using the propagule method
37. **Karoliina A. Koho, Iina Salonen, Hidetaka Nomaki, Myrsini Chronopoulou, Dewi Langlet and Masashi Tsuchiya**
A comprehensive look on the putative endobiotic community and ecology of deep-sea foraminifera *Bolivina subornata*

Session I – Foraminiferal Biology in a Changing World

Conveners: **Sue Goldstein; Joan Bernhard**

38. **Helena Guerra Alcaide, G.S. Molina, B.B. Dias and A.L. Albuquerque**
Opportunistic benthic foraminifera as indicators of changes in organic carbon deposition in the Southwestern Atlantic since the Last Glacial period
39. **Charlotte LeKieffre, Thierry Jauffrais, Emmanuelle Geslin, Karoliina A. Koho, Masashi Tsuchiya, Anders Meibom and Joan Bernhard**
Cellular ultrastructure in benthic foraminifera: general observations and focus on kleptoplasts
40. **Giulia S. Molina, Malcolm B. Hart and Christopher W. Smart**
Foraminifera of the Fal Estuary (Cornwall)
41. **Fabricio Guamán-Guevara, Fiona Müller, Gunasekaran Kannan and William E.N. Austin**
Combined effect of increased temperature and increased $p\text{CO}_2$ concentration on benthic foraminifera growth and calcification
42. **Hidetaka Nomaki, Masashi Tsuchiya, Akihiro Tame and Takuya Matsuzaki**
Variation in foraminiferal cytoplasm structures and its possible relationships between environmental conditions
43. **Cintia Yamashita, Silvia Helena de Mello e Sousa, Thaisa Marques Vicente, Rubens Cesar Lopes Figueira, Nancy Kazumi Taniguchi, Marcia Caruso Bicego, Michel Michaelovitch de Mahiques and Maria Virginia Alves Martins**
Living (rose Bengal stained) benthic foraminiferal in the southeastern Brazilian continental margin

Session X – Deep time records of climate change impacts

Conveners: **Ellen Thomas, Daniela Schmidt**

44. **Baliniak, W., and Malata, W.**
Foraminiferal assemblages across the Paleocene-Eocene transition: a case study from the hemipelagic deposits of the Fore-Magura Thrust Sheet (Polish Outer Carpathians)
45. **Doubrawa, M., Stassen, P., Robinson, M., and Speijer, R. P.**
Shelf ecosystems prior and during the PETM
46. **Fung, M. K., Katz, M. E., Miller, K. G., Browning, J. V., Wright, J. D., and Schaller, M. F.**
Exploring Early Eocene Hyperthermals on the New Jersey Paleo-Continental Shelf (ODP 174AX)
47. **Gayne, S., Schmidt, D. N., and Thomas, E.**
Strategies in times of crisis – the Eocene hyperthermal event 2 (ETM2)
48. **Schmidt, D. N., Authier, E., Sanders, D., Ridgwell, A., and Thomas, E.**
Strategies in times of crisis – insights into the benthic foraminiferal record of the PETM
49. **Warren, B., Schmidt, D. N., and Lauretano, V.**
Benthic foraminiferal response to the Early Eocene Climatic Optimum
50. **D’Onofrio, R., Luciani, V., Giusberti, L., Fornaciari, E., Sabatino, N., and Calderone, G.**
The ETM2 in the Tethys realm: planktic foraminiferal dwarfism and upper water column disruption
51. **Giusberti, L., Mancin, N., and Kaminski, M. A.**
Bathyal large litiolids from the Thanetian of northeastern Italy and their extinction at the Paleocene/Eocene boundary

52. **Moriya, K., Ishimura, T., Wilson, P. A., Oyama, T., Kino, K., and Kaneko, S.**
Assessment of sea surface temperature range in the Eocene with individual planktic foraminiferal isotope analyses
53. **Moura de Mello, R., Leckie, R. M., and Thomas, E.**
End Paleocene Benthic Extinction Event: Contrast between the Brazilian Continental Margin and the SW Atlantic Deep Ocean
54. **Nwojiji, C.**
Using Biological Trait Analysis (BTA) to understand the intensity of ecological perturbation in the foraminiferal communities across the PETM at Walvis Ridge, SE Atlantic Ocean
55. **Peñalver-Clavel, I., Diz, P., Corbí, H. and Mena, A.**
Benthic foraminiferal assemblages during the Middle Pleistocene Transition in the East Equatorial Pacific
56. **Piga, E., Pearson, P., Lear, C., Hill, T., and Stukins, S.**
A glimpse into the early Eocene Warm Pool
57. **Rivero-Cuesta, L., and Alegret, L.**
Benthic foraminiferal assemblages across the Middle Eocene Climatic Optimum at South Atlantic ODP Site 702
58. **Schrader, C., Lauretano, V., Zachos, J. C., and Lourens, L. J.**
Temperature - carbon cycle interactions during the Early Eocene Climatic Optimum (ODP Site 1263, Walvis Ridge)
59. **Stassen, P., Thomas, E., and Speijer, R. P.**
Shelf dynamics during the PETM along the New Jersey Coastal Plain
60. **Suzuki, T., Hayashi, H., Sasaki, O., Matsui, H., and Nishi, H.**
Temporal size change of the Middle Miocene index species *Paragloborotalia siakensis* (LeRoy)
61. **Todd, C., Schmidt, D. N., and Robinson, M.**
Foraminiferal reaction to changes in Pliocene Climate
62. **Vahlenkamp, M., Niezgodzki, I., De Vleeschouwer, D., Bickert, T., Harper, D., Kirtland Turner, S., Lohmann, G., Sexton, P., Zachos, J., and Heiko Pälike, H.**
Astronomically paced changes in deep-water circulation in the western North Atlantic during the middle Eocene
63. **van der Weijst, C., Sangiorgi, F., Reichert, G.-J., Peterse, F., and Sluijs, A.**
Late Pliocene equatorial Atlantic Ocean temperature reconstructions linked to thermocline depth variability

Session XVIII – Foraminiferal Invasions as a Threat to the Environment

Conveners: **Mary McGann; Ahuva Almogi; Martin Langer**

64. **Sabbatini, M. Agostini, J. Lattanzio, J. Päßler, F. Caridi, A. Negri and P.G. Albano**
A multiproxy approach to understand the Lessepsian invasion of foraminiferal species: The record from two sedimentary cores off the Israeli coast
65. **Gloria Quell, Matthias Nagy, Annetkatrin J. Enge, Petra Heinz and Paolo G. Albano**
Temporal variations in foraminiferal assemblages at a shallow-water site in the Eastern Mediterranean Sea (Northern Israel)
66. **Akram El Kateb, Claudio Stalder, Robin Fentimen, Stephanie Stainbank and Silvia Spezzaferri**
Amphistegina spp. in the Gulf of Gabes (Tunisia, Mediterranean Sea): Distribution of an alien species in response to marine pollution
67. **Guillem Mateu-Vicens, Maria Holzmann, M. Victòria Nadal, Anna Khokhlova, Pere Ferriol, Samuel Pinya, Antoni Sureda, Silva Tejada, Beatriz Alvira and Pamela Hallock**
First occurrence of the large benthic foraminifer *Parasorites* sp. in the Mediterranean

68. **Mary McGann, Gregory M. Ruiz, Anson H. Hines and George Smith**

Ballast sediment as a vector for foraminiferal invasive species introductions: Single- and multiple-source ballasting

Session XVI – Larger Benthic Foraminifera as Historical Archives of Deep Time Changes

Conveners: **Antonino Briguglio, Wolfgang Eder, Cesare Andrea Papazzoni**

1. **Claudia Baumgartner-Mora & Peter O. Baumgartner**
Palaeocene-earliest Eocene *Ranikothalia*-bearing carbonate palaeo- environments of Costa Rica and W-Panama (S-Central America)
2. **Antonino Briguglio, Stjepan Ćorić & Fred Rögl**
Integrated stratigraphy of Burdigalian sediments from the Channa Kodi (Quilon Formation) section of Padappakkara, Kerala, India
3. **Giovanni Coletti, Stephanie Stainbank, Alessio Fabbrini, Silvia Spezzaferri, Anneleen Foubert, Dick Kroon & Christian Betzler**
Micro-CT biostratigraphy: larger benthic foraminifera from the Maldives
4. **Lorenzo Consorti, Christopher Ronald James Kavazos, Cliff Ford, Margaret Smith & David W. Haig**
High productivity of *Peneroplis* including aberrant morphotypes, in an inland pond at Lake Macleod, Western Australia
5. **Laura Cotton & Caitlin Keating-Bitonti**
When forams go big: drivers of extreme size in the genus *Nummulites*
6. **Vasiliki-Grigoria Dimou, Olga Koukousioura, V. Maria Triantaphyllou, D. Margarita Dimiza & George Syrides**
The Eocene-Early Oligocene Nummulitids from Greece: a biometric analysis approach
7. **Carles Ferràndez-Cañadell & Telm Bover-Arnal**
Oligocene *Sorites* from the western Tethys. Implications for systematics and paleobiogeography
8. **Szabolcs Attila Kövecsi, Lóránd Silye, György Less & Sorin Filipescu**
The facies distribution and a depositional model for the Eocene (Bartonian) *Nummulites perforatus* banks within the Transylvanian Basin (Romania)
9. **L. Martens, P. Stassen, E. Steurbaut, & R.P. Speijer**
Geochemistry of nummulites as proxy for Eocene climate change in the Southern North Sea Basin
10. **Cesare A. Papazzoni, Annalisa Ferretti, Luca Medici, Mona Seddighi & Sorin Filipescu**
An unusual nummulite-iron ooid association from the Middle Eocene of Transylvania (Romania)
11. **E.Yu. Zakrevskaya, F.A. Hayrapetyan**
Correlation of the Bartonian Larger Benthic and Planktonic Foraminiferal Zonations elaborated in the Armenian sections

Session XV – Advances in Foraminiferal Experimental Studies

Conveners: **Sigal Abramovitch, Petra Heinz, Hiroshi Kitazato, Emmanuelle Geslin**

12. **Joan Bernhard, Luke Fisher, Megan Reilly, Hayley DeHart, Ann Bucklin, Veronique Le Roux and Pieter Visscher**
Can freshwater foraminifera impact stromatolite fabric?
13. **Laurie Charrieau, Helena Filipsson, Yukiko Nagai, Sachiko Kawada, Karl Ljung, Emma Kritzberg and Takashi Toyofuku**

Combined impacts of ocean acidification and desalination: culture experiments on the coastal species *Ammonia* sp. and *Elphidium crispum*.

14. **Annekatrien Enge and Petra Heinz**
How (not) to store foraminiferal cytoplasm before stable isotope analysis.
15. **Thierry Jauffrais, Charlotte LeKieffre, Bruno Jesus, Edouard Metzger and Emmanuelle Geslin.**
Kleptoplast distribution, photosynthetic efficiency and cellular ultrastructure over time in the benthic foraminifer, *Elphidium williamsoni*.
16. **Murtaza Kulaksiz, Anke Oertel and Petra Heinz**
Quantitative determination of the physiological stress response of foraminifera by Hsp70 protein analysis in larger benthic foraminifera (*Heterostegina* sp.)
17. **Haruka Takagi, Tetsuichi Fujiki, Katsunori Kimoto and Kazuyoshi Moriya**
Experimental study of growth and photophysiology of *Globigerinoides sacculifer* to understand host-symbiont trophic interactions
18. **Anna Weinmann, Susan Goldstein, Maria Triantaphyllou, Martin Langer**
New insights from propagule experiments in a shallow-water lagoon in Corfu (Greece, Ionian Sea)

TMS Spring Meeting

Conveners: **Lyndsey Fox, Kirsty Edgar, Martin Langer**

19. **Emma M. Hanson, Kirsty Edgar, Brian Huber, Richard Hobbs, Kara Bogus, Tom Dunkley Jones, and the IODP Expedition 369 Scientific Party**
The Impact of Tasman Gateway Opening on Early Paleogene Climate and Oceans: Preliminary findings from IODP Expedition 369
20. **Tanja Kouwenhoven, Maria Tulbure, Walter Capella, Wout Krijgsman, Frits Hilgen, Lucas Lourens**
The Messinian salinity crisis from a Rif Corridor perspective
21. **Mary McGann, Brian McGann, Stan Pratt III, Sean Hastings**
ForamSampler: Web-Based Microfossil Sampling Data Management Software
22. **Kasper H. Blinksberg, Emma Sheldon, and Lars Stemmerik**
Testing timing of silicification horizons in Danian North Sea chalk using nanofossil biostratigraphy
23. **Lyndsey Fox, Tom Hill, Stephen Stukins, Giles Miller, Epi Vaccaro**
Challenger Revisited: Can historical collections provide new insights into anthropogenic climate change?
24. **Sibelle Trevisan Disaró, Elis Regina Ribas, Violeta Totah, Silvia Watanabe**
Leptohalysis scottii (Chaster, 1892) and Carterina spiculotesta (Carter, 1877): hidden diversity on tiny details

Session V – Foraminiferal Research Schools: The Past Can Inform the Future

Conveners: **Pamela Hallock Muller, Martin Langer**

25. **Angélica Ballestros Prada, John Ballestros Prada, Miguel Angel Pagliaro**
Didactic strategies for teaching the use of microfossils to children and adults

26. **Luciana Cristina de Carvalho Santa-Rosa, Elis Regina Ribas, Giovanna Rosa Silverio da Silva, Joice Dissenha Gonçalves, Isabela Santos Kropiwiec, Helenita Catharina Dalla-Lana Forcelini, Sibelle Trevisan Disaró**
Foraminifers – single cells with many lessons to offer
27. **Pamela Hallock**
Why foraminiferal research became “Geology” and how technology rejuvenated biological studies