



The Foraminifera and Nannofossil
Groups'
Joint Spring Meeting 2009

*“Integrated Studies of evolution, taxonomy, ecology and
geochemistry”*

Thursday 4th & Friday 5th June, 2009
in Zürich, Switzerland

hosted by the
Eidgenössische Technische Hochschule, Zürich
- Geologisches Institut

Talks and Posters



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

The meeting is followed by a 1-day field trip to Sihlsee
6th June, 2009

The Micropalaeontological Society

Meeting Program

Wednesday, 3rd June		
	18:00 – 21:00	Registration and Icebreaker in ETH NO D, Sonneggstrasse 5, 8092 Zürich
Thursday, 4th June		
	8:30	On-site Registration - Scientific programme in NO C 60
	8:45	Welcome by Hans Thierstein and Michal Kucera
Kate Darling	9:10	Martine Couapel <i>High-resolution vertical distribution of coccolithophores in the top 276 m of the water column at the south western border of the South Atlantic Gyre (AMT18 cruise)</i>
	9:30	Paula Diz <i>Applicability of benthic foraminiferal oxygen stable isotopes in subtidal environments as proxies of past salinity and temperature variations</i>
	9:50	Sophie Retailleau <i>Distribution of planktic foraminiferal species along an offshore-onshore gradient in the South of the Bay of Biscay</i>
	10:10	Yurika Ujiie <i>Pulleniatina obliquiloculata cryptic species: new proxy of tropical and subtropical waters</i>
	10:30	Coffee Break
	11:00	Sandra Herrmann <i>How old is the inverse macroecological size trend of coccoliths versus planktic foraminifers</i>
	11:20	Joachim Schönfeld <i>Neogene evolutionary patterns of modern oceanic foraminiferal faunas</i>
	11:40	Jawad Afzal <i>Faunal response of larger benthic foraminifera to environmental changes through the latest Paleocene-earliest Eocene interval, Indus Basin, Pakistan</i>
	12:00 – 13:00	Lunch Break
	13:00 – 14:30	Poster Session
Daniela Schmidt	14:30	Paul Bown <i>Paradise lost: Preservation (or not) of calcareous microfossils from Tanzania to the equatorial Pacific</i>
	15:00	Tim Bralower <i>History of upper Cretaceous nannofossil investigations</i>
	15:30	Dave Lazarus <i>Morphometric and database micropaleontology research at the ETH</i>
	16:00	Coffee Break
	16:30	Gerold Wefer <i>Proxies in Paleoceanography</i>
	17:00	Jeremy Young <i>Distinguishing genotypic and. ecophenotypic variation in Emiliana huxleyi; perspectives from integration of molecular and morphological data from culture, plankton and palaeontological samples</i>
	17:30	Helmut Weissert <i>Cretaceous Palaeoceanography</i>
	19: 00	Meeting dinner in the Linde Oberstrass, Universitätstrasse 91

Friday, 16th May		
Tom Dunkley Jones	9:00	Gretta Bartoli <i>Geochemical use of benthic foraminifers for reconstructing Pliocene North Atlantic bottom water temperature</i>
	9:20	Stephan Steinke <i>Multi-species planktonic foraminiferal Mg/Ca palaeothermometry off NW-Africa for the last 50 kyr: How important are seasonal proxy data in palaeoclimate research?</i>
	9:40	Mariem Saavedra <i>A new approach to estimate SST using coccolithophores: an example from the South Pacific</i>
	10:00	Frédérique Eynaud <i>Infra-millennial changes in sea-surface temperature of the Alboran Sea during the last 15 CAL-ka: planktonic foraminiferal evidence</i>
	10:20	Coffee Break & Poster Session

	11:30	García Alonso <i>Climatic variability in the North Atlantic during the mid Pleistocene based on isotopes and trace elements measured on planktonic foraminifera</i>
	11:50	Linda Rossignol "Praeorbulina"-like specimens in sediments of the Northern Arabian Sea during the last glacial period
	12:10	Chaimi Benjamin <i>Planktic foraminiferal acmes linked to global climate in the late Maastrichtian of the Tethys</i>
	12:30 – 13:30 13:30 – 15:00	Lunch Break Poster Session
Robert Speijer	15:00	Mike Rogerson <i>Benthic foraminiferal approaches to reconstructing past changes in strong bottom current</i>
	15:20	M.E. Bylinskaya <i>Integrated Foraminiferal and Nannofossil Studies: from Zonal Stratigraphy to the Polar Atlantic Paleoenvironmental Change</i>
	15:40	Elena Ivanova <i>Millennial-scale variability of foraminiferal and coccolithophore assemblages in the Tropical Pacific: evidences for changes in productivity during the last 90 ka</i>
	16:00	Coffee Break & Poster Session
	16:40	Phuong Nguyen <i>Elimination of taphonomic bias in late Paleocene to early Eocene paleoenvironmental reconstructions by means of experimental dissolution studies on foraminifera</i>
	17:00	Claudius Pirkenseer <i>Reworked planktonic Foraminifera from the Late Rupelian of the southern Upper Rhine Graben and their palaeogeographic and biostratigraphic implications</i>
	17:20	Antonino Briguglio <i>Mathematical evaluation of the benthic larger foraminifera transport</i>
Saturday, 17th May		
	9:00	Field trip to Sihlsee (Santonian Amdener-marls, early Eocene Nummulite-limestone, middle Eocene Globigerina-marls, lower Cretaceous marls and limestones); participants meet at the NO Building, Entrance Clausiusstrasse

Posters

- Abdolalipour, S. Biozonation and biofacies analyses of Sarvak formation in South of Iran
Aurahs, R. et al. Morphometric and molecular genetic evidence for the paraphyletic nature of *Globigerinoides ruber*
- Baumann, K.-H. et al. Abrupt millennial-scale variations in North Atlantic surface-water circulation (ODP Site 980) during the last 20,000 years as revealed by coccolithophorid assemblages
- Baumann, K.-H. et al. Coccolith Fluxes in the North Atlantic: Assemblage composition and carbonate supply
- Bicchi, E. et al. Benthic foraminifera as bio-indicators of offshore oil and gas drilling activities. Case studies off western Africa
- Briguglio, A. Hydrodynamic behaviour of nummulitids: numerical explanation and discussed results
- Caley, T. et al. Automated measurements of *Orbulina universa* (d'Orbigny, 1839) diameter in a marine core from the SW Indian Ocean: toward a proxy of sea-surface temperatures
- Caromel, A. et al. A new methodology for investigating the form of planktic foraminifera
Cotton, L. et al. Extinction of larger benthic foraminifera at the Eocene-Oligocene boundary in Tanzania: a preliminary study
- Darling, K. et al. Planktonic foraminiferal cool water genotypes off the Oman Margin
Darvishzad, B. & The Cretaceous- Tertiary transition and faunal turnover in Galanderud area, north of Iran
Khajetash, R.
- de Garidel-Thoron, T. Morphological and geochemical signatures of *Pulleniatina obliquiloculata*
et al. cryptic species
- Drinia, H. Assessment of benthic foraminiferal assemblages from Oligocene Afales Basin, Ithaki Island, western Greece, and palaeoceanographic implications
- Dunkley Jones, T. et al. Calcareous plankton assemblages of the equatorial Pacific - a 53 million year history from IODP Expedition 320
- Enge, A. et al. Benthic foraminiferal assemblage at a North Pacific deep-sea site
- Fielding, S. et al. Assessing the applicability of *Emiliania huxleyi* coccolith morphology as a sea surface salinity proxy
- Friedrich, O. et al. Millennial-scale fluctuations in North Atlantic surface-water temperatures and salinities during MIS 100
- Harbers, A. & Planktonic foraminifera in the tropical Atlantic Ocean
Schönfeld, J.
- Herrmann, S. et al. Glacial-Interglacial abundance variations in small vs. large coccoliths – an approach to assess macroecological response to climate change
- Hoffmann, R. et al. A sediment trap investigation of coccolithophore, calcareous dinoflagellate and other fine particle at 3000m water depth under the Azores Front (33°N 22°W)
- Holcová, K. Response of calcareous nannoplankton assemblages to transgression and regression events in the Oligocene and Miocene of the Central Paratethys
- Howa, H. et al. Recent variations of temperature in the Bay of Biscay detected by planktic foraminifera
- Kitazato, K. & Evolution of feeding strategy among deep-sea benthic foraminifera in relation
Nomaki, H. to plankton evolution during the Mesozoic: Evidences from ecological observations and experiments for modern deep-sea foraminifera
- Knappertsbusch, M. Anatomy of morphological evolution: Old Data seen in new light
Knappertsbusch, M. AMOR – A new system for automated imaging of microfossils for morpho-
et al. metric analyses
- Kuhnt, T. et al. Seasonal production and flux pattern of planktic foraminifera in the Southern Bay of Biscay
- Lloyd, G. et al. Comparing land-based and deep-sea rock and fossil records of microplankton

- for bias in diversity patterns
- Marten, R. et al. Total protein contents and analysis for the stress protein Hsp70 in living shallow-water benthic foraminifera
- Mikhalevich, V. Ultrastructure of Antarctic miliolid shell wall and its comparison with the fusulinoid shell wall structure (Foraminifera)
- Nguyen, P. et al. Differential dissolution susceptibility in late Paleocene to early Eocene planktonic foraminiferal assemblages: comparing experimental and distributional data from Shatsky Rise (Pacific Ocean)
- Nomaki, H. et al. Benthic foraminiferal lipid compositions and their isotopic compositions: are they clues to foraminiferal feeding habits?
- Pea, L. et al. The Middle Eocene Climatic Optimum (MECO) as Recorded by Calcareous Nannofossils at ODP Site 702, South Atlantic
- Phipps, M. et al. Biodiversity trends of benthic foraminiferal faunas along a bathymetrical transect on the Portuguese Margin
- Pirkenseer, C. et al. Early Eocene biota (ostracoda, foraminifera) and paleoenvironment in the Corbières (Aude, France): building a framework for the identification of early Eocene hyperthermals in continental margin records.
- Pirkenseer, C. et al. A reevaluation of the lineage development of *Pararotalia* and *Praepararotalia*? including new material from the Rupelian of the southern Upper Rhine Graben
- Polovodova, I. et al. Foraminiferal shell loss in the Kiel Bight (SW Baltic Sea): evidence for the ocean acidification
- Scherrer, S. et al. Analyses of single coccospheres: Taxonomic identification in SEM followed by isolation from filter for genetics in a light microscope
- Schmidt, D. et al. Ocean Acidification at the Palaeocene Eocene boundary
- Schweizer, M. et al. Morphometrical analysis of tests from selected cibicidids (Foraminifera) to compare morphological and genetic variability
- Simon, M. et al. Benthic foraminifera record in the Eastern Mediterranean Sea during the Marine Isotopic Stages 11 and 12
- Speijer, R. et al. Benthic turnover (foraminifera and ostracoda) across the K/T boundary at Brazos River, Texas
- Sprong, J. et al. Was the Latest Danian Event a precursor of the PETM?: a comparison at Gebel Qreiya, Egypt
- Ujiié, Y. et al. Echophenotypic differentiation within a planktonic foraminiferal cryptic species: *Globorotalia truncatulinoides* Type II
- Vautravers, M. Oceanic circulation and tele-connection in the latest Messinian
- Vautravers, M. & Barker, S. Planktonic foraminifera faunal variability and carbonate preservation in the South Atlantic during the last 40Kyr: Extending the record of Atlantic seesaw climate variability
- Villa, C, Gadaleta, A. et al. Calcareous nannofossil evidence for Marine Isotope Stage 31 (1 Ma) in the AND-1B Core, ANDRILL McMurdo Ice Shelf Project (Antarctica)
- Zúñiga-Rival, M. et al. Ecological and geochemical analysis in benthic foraminifera from fjord Madre de Dios (Chile): Holocene paleoenvironmental reconstruction