

Monday, September 6, 2010

Session A3:

Lecture Room 10

Session A3: Experimental approaches in foraminiferal research: towards better understanding both their biological features and sensitive proxy developments

Convenors: Hiroshi Kitazato, Emmanuelle Geslin, Jelle Bijma, Petra Heinz, Joan Bernhard

- 09:00 **Annekatrin J. Enge, Hidetaka Nomaki, Nanako O. Ogawa, Ursula Witte, Markus M. Moeseneder, Gaute Lavik, Naohiko Ohkuchi, Hiroshi Kitazato, Petra Heinz, Michal Kucera:** Diversity and short-term processing of phytodetritus by benthic foraminifera in the abyssal NE Pacific
- 09:20 **Hidetaka Nomaki, Takashi Toyofuku, Lennart J. de Nooijer, Hisami Suga, Hiroshi Kitazato:** Onboard and in situ incubation experiments for understanding deep-sea benthic foraminiferal ecologies
- 09:40 **Tim Haarmann, Ed C. Hathorne, Jeroen Groeneveld, Mahyar Mohtadi, Torsten Bickert:** Seasonality of surface and thermocline seawater recorded by Mg/calcium in single specimens of planktonic foraminifera
- 10:00 – 10:20 **Coffee break**
- 10:20 **Helena L. Filipsson, Joan M Bernhard, Sara A. Lincoln, Daniel C. McCorkle:** $\delta^{18}\text{O}$ and Mg/Ca results from a multi-temperature culture study of benthic foraminifera
- 10:40 **Takashi Toyofuku, Lennart de Nooijer, Hidetaka Nomaki, Masashi Tsuchiya, Hiroshi Kitazato:** 2-D pH observation on foraminiferal cell under stable environmental condition
- 11:00 **Jutta Wollenburg, Ralf Tiedemann:** Novel autoclave aquaria facilitates high-pressure culture experiments on deep-sea benthic foraminifera
- 11:20 **Emmanuelle Geslin, Nils Risgaard-Petersen, Fabien Lombard, Dewi Langlet, Edouard Metzger, Frans Jorissen:** Oxygen respiration rates of benthic foraminifera measured under laboratory conditions using oxygen microelectrodes
- 11:40 **Christiane Schmidt, Nikolas Vogel, Michal Kucera, Petra Heinz, Sven Uthicke:** Physiological effects of temperature stress on selected larger benthic Foraminifera
- 12:00 – 13:20 **Lunch break**
- 13:20 **Jarosław Tyszka, Samuel S. Bowser, Jeffray L. Travis, Paweł Topa:** Self-organization of foraminiferal morphogenesis
- 13:40 **Thi Minh Phuong Nguyen, Maria Rose Petrizzo, Peter Stassen, Robert Pieter Speijer:** Experiments on differential dissolution susceptibility of Paleocene-Eocene planktic foraminifera from the North Pacific Ocean (Allison Guyot, ODP Site 865 and Shatsky Rise, ODP Sites 1209, 1210 and 1212)
- 14:00 **Nicoletta Mancin, Elena Basso, Camilla Pirini:** Multi-proxy analysis on Neogene specimens of *Colominella Popescu, 1998* (Agglutinated Foraminifera): Shell architecture, wall microstructure and test chemical-mineralogical characterization

Poster Presentations (Session A3)

Posters for this session will be presented from Sunday, September 5, to Tuesday, September 7. Numbers refer to poster board numbers

- 32 **Adriana Borcic, Danijela Bogner, Sinisa Popadic:** Using artificial neural networks (ANN) and Self Organizing Maps (SOM) for better understanding of recent benthic foraminifera distribution
- 33 **Chiara Borrelli, Anna Sabbatini, Gian Marco Luna, Roberto Danovaro, Alessandra Negri:** Determination of the metabolically active fraction of benthic foraminifera by means of Fluorescent in situ Hybridization (FISH)
- 34 **Carles Ferràndez-Cañadell:** Multispiral growth in Nummulites
- 35 **Roman A. Marten, Linshy Valiyparambil Nanappan, Timo Haap, Emmanuelle Geslin, Heinz R. Köhler, Petra Heinz:** Total protein and 70 kD stress protein (Hsp70) analysis in living shallow-water benthic foraminifera
- 36 **Hiroshi Kitazato, Hidetaka Nomaki, Takashi Toyofuku:** Feeding strategies among deep-sea benthic foraminifera: Evidences from TEM observations and in-situ experiments for modern deep-sea foraminifera
- 37 **Azumi Kuroyanagi, Regine E. da Rocha, Jelle Bijma, Howard Spero, Ann D. Russell, Stephen Eggins, Steve Doo, Hodaka Kawahata:** Effect of dissolved oxygen concentration on planktonic foraminifera: Results from laboratory experiments
- 38 **Nicoletta Mancin, Iacopo Trattenero:** Deep-sea benthic foraminiferal response to Pleistocene climate changes in the SW Pacific (New Zealand): controlling factors revealed by multivariate analysis
- 39 **Marianna Musco, Angela Cuttitta, Sergio Bonomo, Antonio Mazzola, Salvatrice Vizzini, Luca Saporito, Enza Quinci, Salvo Mazzola:** Morphometric analysis of the shells of the genus *Bolivina* of the Gulf of Gela (Sicilian Channel, Italy): a valid classification instrument?
- 40 **Maria P. Nardelli, Anna Sabbatini, Alessandra Negri:** How do heavy metals influence Foraminifera biology? Evidences from experimental contamination
- 41 **Loic Pillet, Jan Pawlowski:** Molecular characterization of kleptoplastidy in foraminifera
- 42 **Stefanie Schumacher, Frans J. Jorissen, Andreas Mackensen, Andrew J. Gooday:** Ontogenetic effects on stable isotopes in tests of live (Rose Bengal stained) benthic foraminifera from the Pakistan continental margin
- 43 **Laura Wegener Parfrey:** Genome dynamics are influenced by food source in *Allogromia laticollaris* strain CSH (foraminifera)