

EuroMARC

**European Collaboration for Implementation of
Marine Research on Cores**

FIRST EUROMARC CONFERENCE, 14-17 SEPTEMBER 2008

Belambra Clubs, La Colle-sur-Loup (near Nice), France

PROGRAMME

last update: 08 September 2008

On line at <http://www.esf.org/euomarc>

Sunday 14 September 2008

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| 16.00 | Registration at the hotel and at ESF desk |
| 19.30 | Welcome drink |
| 20.00 | Dinner |

Monday 15 September 2008

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| 08.45 | Conference Opening
Didier Hauglustaine (EUROCORES Programme Coordinator, ESF) |
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Session 1: Variability of the Atlantic Meridional Overturning Circulation

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| 09.00 | Claire Waelbroeck (Laboratoire des Sciences du Climat et l'Environnement, Gif-Sur-Yvette, France)
<i>Unraveling North and South Atlantic benthic foraminifera isotopic time series over the last deglaciation</i> |
| 09.30 | Stefan Mulitza (University of Bremen, Germany)
<i>Stratification of eastern South Atlantic (25°S) upper water masses during the</i> |

Last Glacial Maximum

- 10.00 **Luke Skinner** (University of Cambridge, United Kingdom)
Unlocking the deep ocean: towards a solution to the de-glacial radiocarbon 'mystery'
- 10.30 Coffee break
- 11.00 **Eystein Jansen** (University of Bergen, Norway)
Meridional overturning strength and climate forcing - conflicting ideas
- 11.30 **Catherine Kissel** (Laboratoire des Sciences du Climat et de l'Environnement, Gif-Sur-Yvette, France)
Holocene Variations in the Strength of the North Atlantic Deep Water, a Magnetic Approach
- 12.00 **Mara Weinelt** (University of Kiel, Germany)
Monitoring interglacial variability of Atlantic Meridional Overturning Circulation (AMOC) in the subtropical North Atlantic (38° N)
- 12.30 Lunch
- 15.30 **Helga Flesche Kleiven** (Bergen University, Bjerknes Centre for Climate Research, Norway)
New constraints on North Atlantic Meridional Overturning Circulation during the Holocene and the last interglacial.
- 15.50 **Aline Govin** (Laboratoire des Sciences du Climat et de l'Environnement, Gif-Sur-Yvette, France)
Evidence for a lead of deep-water changes in the Southern Ocean over the deep North Atlantic during the last glacial inception

Session 2: Poster presentation

- 16.10 **Presentation of posters**
1 or 2 slides by each poster presenter
- 17.00 Coffee break
- 17.30 **Official Poster Session** (with authors in attendance)
- 19.30 Dinner
- 21.00 **Poster session**

Tuesday 16 September 2008

Session 3: Accessing palaeo-archives in carbonate systems

- 09.00 **Trevor Williams** (Columbia University, Lamont-Doherty Earth Observatory, Palisades , United States)
Cold-Water Coral Mounds Revealed: IODP Expedition 307, Porcupine Drilling
- 09.45 **Mieke Thierens** (University College Cork, Ireland)
Unraveling the Depositional Sequence throughout a NE Atlantic Cold-water Coral Carbonate Mound : Implications for the Environmental Controls on Challenger Mound Development (IODP Exp.307).
- 10.05 **Anneleen Foubert** (University of Leuven, Leuven, Belgium)
Challenger Mound: a first key to unravel the impact of early diagenesis on the palaeo-environmental record registered in carbonate mounds
- 10.25 Coffee break
- 11.00 **Terrence M. Quinn** (The University of Texas at Austin, United States)
Skeletal Geochemistry of Corals as Climate Proxies: Past Successes and Future Challenges
- 11.45 **Gilbert Camoin** (CNRS, Aix-en-Provence, France)
Reef accretion during the post-glacial sea-level rise at Tahiti (French Polynesia): I.O.D.P. #310 expedition «Tahiti sea level »
- 12.15 **Martin Koelling** (University of Bremen, Germany)
Freshwater geochemistry and its impact on reef growth and reef alteration
- 12.45 Lunch

Session 3: Accessing palaeo-archives in carbonate systems (continued)

- 15.30 **Pierre Deschamps** (Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement, Aix-en-Provence, France)
Sea-Level during the Last Deglaciation: New Insights from the IODP 310 "Tahiti Sea-Level" Expedition
- 16.00 **Wolf-Christian Dullo** (Christian Albrechts Universität, IFM-GEOMAR, Kiel, Germany)
Hydrographic control of cold water coral habitats on the Atlantic continental margin of Europe

- 16.30 **Andres Rüggeberg** (Leibniz-Institut für Meereswissenschaften, Kiel, Germany)
Stable strontium isotopes (88/86Sr) in cold-water corals – a new proxy for reconstruction of intermediate ocean water temperatures
- 16.50 Coffee break
- 17.20 **Nicolas Durand** (Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement, Aix-en-Provence, France)
New insight into the radiocarbon calibration based on 14C and U-series ages of corals drilled offshore Tahiti (IODP Expedition 310)
- 17.40 **Katrin Heindel** (Bremen University, Germany)
A geochemical and geobiological study of microbialites in post-LGM reefs off Tahiti (IODP 310)
- 18.00-18.20 **Alexander Thomas** (Oxford University, United Kingdom)
Coral U-Th chronology: Prospects for the Great Barrier Reef
- 19.30 Aperitif
- 20.00 Conference dinner

Wednesday 17 September 2008

Session 4: Reconstruction of climate variability at different time scales

- 09.00 **Paul Wilson** (National Oceanography Centre, Southampton, United Kingdom)
Palaeo-greenhouses & Palaeo-icehouses: Understanding changes in global climate- the past 100 Myr
- 09.45 **Ralph Schneider** (Christian-Albrechts-Universität, Kiel, Germany)
First Results from the GLOW project
- 10.15 **Gerard Versteegh** (Universität Bremen, Germany)
Polynomorph distribution in surface sediments off Southern Italy: relations to environment
- 10.45 Coffee break
- 11.15 **Arne Leider** (University Bremen, Germany)
Recent environmental conditions at the Gallipoli shelf (Eastern Mediterranean) based on lipid biomarker analyses
- 11.35 **Anna-Lena Grauel** (ETH Zurich, Switzerland)
High resolution isotope stratigraphy: Reconstructing climate change at sub-decadal resolution from sediment cores in the Mediterranean Sea

- 11.55 **Brice Robert** (Utrecht University, Netherlands)
Geochemical analysis of near-coastal Mediterranean sediments to assess their suitability for further paleoclimatic investigations
- 12.15 **Elisa Malinverno** (University of Milano-Bicocca, Italy)
Present-day coccolithophore and diatom fluxes in the Ionian Sea
- 12.35 Lunch
- 14.00 Scientific Committee Meeting

Session 4: Reconstruction of climate variability at different time scales (continued)

- 15.30 **Bas Van Geel** (University of Amsterdam, Netherlands)
Solar forcing of Holocene climate and cultural change, with a focus on 850 BC

Session 5: The deep biosphere

- 16.15 **Ingunn Thorseth** (University of Bergen, Germany)
The deep biosphere; background, news and implications
- 17.00 **Tamara Baumberger** (ETH Zurich, Switzerland)
Geochemistry of the rift valley sediments at the Arctic Mid-Ocean Ridge: An overview of preliminary results of the H2DEEP expedition to the southern Knipovich Ridge at 73°N
- 17.20 Coffee break

Session 6: General Discussion

- 17.50 **Jean-Pierre Henriët** (Universiteit Gent, Belgium)
NE Atlantic Carbonate Mounds: provinces, processes and products
- 18.35 **Bonnie Wolff-Boenisch** (Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement, Aix-en-Provence, France)
Overview of ESSAC activities
- 19.05 **General discussion**

20.00 Dinner

Thursday 18 September 2008

07.30 Breakfast and departure

All posters will be on display during the whole duration of the conference

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