

Start time duration

COCCOLITHOPHORES 2014 - CRETE - SCHEDULE

SUNDAY 5TH OCTOBER

19:00 120 Ice-Breaker, Cretaquarium (meeting point 18:30, hotel reception)

MONDAY 6TH OCTOBER

09:00 30 Registration

09:30 15 Maria T etc. Opening words

Coccolithophore phylogeny, species-concepts and molecular genetics

Chairs: Maria Triantaphyllou, Jeremy Young

09:45 15 Aubry Evolutionary origin of the living coccolithophores: A tango in two keys.

10:00 15 Bendif Morphogenetic characterization of new *Gephyrocapsa* isolates suggests introgressive hybridization in the *Emiliana/Gephyrocapsa* complex (Haptophyta)

10:15 15 Cros Exploring the complexity of life cycles. The case of *Rhabdosphaera clavigera*

10:30 15 Thomsen *Papposphaera* species diversity and generic circumscription – polar and non-polar forms

10:45 15 Young Nannotax - update on plans, progress and potential

11:00 15 Probert Interesting stuff with cultures (no abstract)

11:15 30 COFFEE

The paleontological agenda for extant coccolithophore research

Chairs: Clara Bolton, David Bord

11:45 15 Bown The coccolithophore family tree: tracking modern groups back through time using exceptionally preserved fossil records

12:00 15 Bord A Comparative Morphometric Study between Living and Extinct Coccolithophores: Physiological or genetic signal?

12:15 15 Gibbs Cocosphere geometry as a proxy for cellular behaviour: linking modern and palaeo observations

12:30 15 Saavedra-Pellitero Living and fossil coccolithophore assemblages along a latitudinal transect in the western Pacific Southern Ocean

12:45 15 Sheward Ancient coccolithophore cells: life in both greenhouse and icehouse worlds

13:00 90 LUNCH

Coccolithophore biocalcification and Ocean Acidification

Chairs: Ros Rickaby, Sebastain Meier

14:30 15 Beaufort Change in calcification state of *Emiliana huxleyi* in the Western Mediterranean Sea during the last century

14:45 15 Daniels Species-specific calcite production in the Arctic Ocean reveals *Coccolithus pelagicus* as a key calcifier.

15:00 15 Fuertes Monitoring coccolithophore assemblages variability, calcification and carbonate production in Subantarctic sediment traps

15:15 15 Heurreux Investigation of kinetic variation in ribulose-1,5-biosphosphate carboxylate/oxygenase (RuBisCO) in marine Haptophytes

15:30 15 Lee Coccolithophores put a CAP on calcification

15:45 30 COFFEE

16:15 15 McClelland A coccolithophore PIC:POC proxy: Investigating algal biology in the sedimentary laboratory

16:30 15 Meier Adaptation of coccolithophores to high pCO₂ in the Kiel Fjord (SW Baltic Sea)?

16:45 15 Perrin Coccolithophores growing conditions in the deep ecological niche of the South Pacific Gyre.

17:00 15 Poulton Pelagic calcite production: cellular calcification, growth rates and ecophysiological factors

17:15 15 Skeffington Discovering components of the calcification machinery in coccolithophores using time-resolved, quantitative proteomics

TUESDAY 7TH OCTOBER

Coccolithophore life-cycles, ecology and biogeography

Chairs: Elisa Malinverno, Jose Flores

09:30	15	Rivero-Calle	Have coccolithophores abundance increased in the North Atlantic over the last 50 years? Evidence from the Continuous Plankton Recorder
09:45	15	Baumann	Distribution of extant coccolithophore populations in a meridional transect in the North Atlantic
10:00	15	Young	Mid-photic nannofossil communities revisited
10:15	15	Malinverno	Coccolithophore assemblage distribution along a temperate to polar gradient in the Southern Ocean
10:30	15	Blanca-Ausin	Coccolithophore distribution from seawater column samples along the western Iberian margin during a late summer situation
10:45	30	COFFEE	
11:15	15	Triantaphyllou	The composition and distribution of living coccolithophores in the northeastern Mediterranean Sea
11:30	15	Godrijan	Coccolithophores succession in the coastal waters of Rovinj, north-east Adriatic
11:45	15	Šupraha	Dominance of holococcolith phase in an estuarine winter coccolithophore community
12:00	15	Hagino	Seasonal change in living coccolithophores in the coastal waters of Japan
12:15	15	Hernández-Becerril	Composition, abundance and distribution of coccolithophores of the Mexican Pacific and the southern Gulf of Mexico
12:30	15	Jordan	Coastal coccolithophorid assemblages from tropical islands
12:45	45	LUNCH	
13:30			Excursion to Spinalonga Island (approx. duration: 6 hrs, there will be also some afternoon-snack in a box)

WEDNESDAY 8th OCTOBER

Workshop session on research methods in study of extant coccolithophores

Lead by: Ian Probert (U. Caen), Mehdi Bendif (Plymouth Marine Lab), Kyoko Hagino (Sapporo), Jeremy Young (University College London), Maria Triantaphyllou (U Athens)

THURSDAY 9th OCTOBER

Review and discussion sessions on each of the four themes

09:30	80		1. Coccolithophore biocalcification and Ocean Acidification. Facilitators: Luc Beaufort, Sebastian Meier, Ros Rickaby, Alex Poulton
10:50	30	COFFEE	
11:20	80		2. The paleontological agenda for extant coccolithophore research. Facilitators: Paul Bown, Clara Bolton, David Bord, Samantha Gibbs
12:40	90	LUNCH	
14:10	80		3. Coccolithophore phylogeny, species-concepts and molecular genetics. Facilitators: Marie-Pierre Aubry, Helge Thomsen, Ian Probert, Mehdi Bendif, Kyoko Hagino
15:30	30	COFFEE	
16:00	80		4. Coccolithophore life-cycles, ecology and biogeography. Facilitators: Ric Jordan, Karl-Heinz Baumann, Jose Flores, Lluisa Cros, Elisa Malinverno
17:20	10		Finishing words
20:00			CONFERENCE DINNER (Cretaquarium)