



--- DAY1 ---

## 12<sup>th</sup> of September

11:30 -12:30 ECR Coffee hour

12:30 - 13:30 Lunch for on-site participants

### 13:30 - 14:00 Welcome & Introduction

#### Session 1: Ecosystems (14:00 – 18:00 CEST)

Chair: Kyle Mayers, NORCE

14:00 - 14:40 **Barney Balch - Keynote:** "Can coccolithophores keep up with global change?"

14:40 - 14:45 Break (5 minutes)

14:45 - 15:05 **Flora Vincent:** "Viral impacts in the marine world: from single-cells to planktonic ecosystems"

15:05 - 15:25 **Nelle Manon Vollmar:** "Modern morphology of *Emiliana huxleyi* (*Gephyrocapsa huxleyi*) in the Atlantic Ocean"

15:25 - 15:30 Break (5 minutes)

15:30 - 15:50 **Falilu Adekunbi:** "Environmental control on seasonal coccolithophore distribution off Lagos"

15:50 - 16:10 **Ian Probert**: “Addressing the phenotype gap for marine phytoplankton”

16:10 - 16:25 Break (15 minutes)

16:25 - 16:35 Flash talks:

- **Francesca Lozar**: “Environmental changes at the beginning of the Messinian Salinity Crisis: Calcareous Nannofossils response”
- **Joost de Vries**: “Coccolithophore diversity and standing stocks are decoupled”

16:35 - 16:40 Break (5 minutes)

16:40 - 17:10 **Discussion Round 1**

17:10 - 17:15 Break (5 minutes)

17:20 - 17:50 **Discussion Round 2**

**17:50 - 18:00 Round-up of Session1/Day 1**

**18:00 - 19:00 Open zoom breakout rooms available for continued informal discussions on-line (1 hour)**

18:00 - Dinner for in-person participants

**--- DAY2 ---**

**13th of September**

08:50 Meeting ‘housekeeping’ (please join if this is your first session)

**Session 2: Cell biology (09:00 – 12:15 CEST)**

**Chair: Glen Wheeler, Marine Biological Association**

**09:00 - 09:20 MOVED (available on YouTube 13/09/2023)**

09:20 - 09:40 **Assaf Gal**: “Cellular and structural controls over coccolith formation”

09:40 - 09:45 Break (5 min)

09:45 - 10:05 **Katerina Kersting**: “Development of a CRISPR/Cas gene editing technique for the coccolithophore *Chrysothila carterae*”

10:05 - 10:25 **Xiaoxu Ma**: “Unveiling the cellular energy partitioning towards coccolithophore calcification: evidence from varying seawater Mg/Ca ratio”

10:25 - 10:40 Break (15 min)

10:40 - 10:55 Flash talks:

- **Frederic Chaux:** "Photosynthetic performances and photoprotection strategies in life cycle stages of the coccolithophore *Calcidiscus leptoporus*"
- **Oz Ben-Joseph:** "Unraveling the Formation Environment of Holococcolith Calcite"
- **Tzu-Tong Kao:** "Multiomic insights into haploid and diploid phases of *Emiliana huxleyi*"

10:55 - 11:00 Break (5 minutes)

11:00 - 11:30 **Discussion Round 1**

11:30 - 11:35 Break (5 minutes)

11:35 - 12:05 Discussion Round 2

**12:05 - 12:15 Round-up of Session 2**

**13:00 - 16:00 Mesocosm Field Trip (in person)**

16:55 - 17:00 Meeting 'housekeeping' (please join if this is your first session)

**Session 3: Climate change (17:00 – 19:00 CEST)**

**Chair: Joost De Vries, University of Bristol**

17:00 - 17:20 **Kristen Krumhardt:** "Examining the impacts of climate change and variability on coccolithophores using the Community Earth System Model"

17:20 - 17:40 **Tom Dunkley Jones:** "Size-fraction coccolith oxygen isotopes in palaeoceanographic reconstructions"

17:40 - 17:45 Break (5 min)

17:45 - 18:05 **Fanny Monteiro:** "Revealing the ecological impact of coccolithophore diversity through novel trait-based approaches"

18:05 - 18:25 **Alison Taylor:** "A multifunctional organelle coordinates phagocytosis and autophagy in a diploid coccolithophore."

18:25 - 18:40 Break (15 minutes)

18:40 -18:55 Flash talks:

- **Arianna Krinos:** "Shared genes and thermal response among *Gephyrocapsa huxleyi* strains"
- **Manuela Bordiga:** "Cultured and fossil *Helicosphaera carteri*: a tool for studying coccolithophores' resilience during past (Last Interglacial) and future climate"
- **Shramik Patil:** "The Southern Indian Ocean calcifying nanoplankton in the changing climate"

**18:55 - 19:00 Round-up of Session 3/Day 2**

19:30 Dinner at Pygmalion Økocafe (in-person)

**--- DAY 3 ---**

**14th of September**

08:50 Meeting 'housekeeping' (please join if this is your first session)

**Session 4: Biogeochemistry (9:00 – 12:05 CEST)**

**Chair: Jelena Godrijan, Institut Ruđer Bošković**

09:00 - 09:20 **Griet Neukermans:** "Coccolithophores and the open ocean carbonate pump"

09:20 - 09:40 **Nishant Chauhan:** "Carbon Supply and Demand: Unravelling Vital Effects in Coccolithophores"

09:40 - 09:45 Break (5 min)

09:45 - 10:05 **Hilde Oliver:** "The dynamics controlling Southern Ocean coccolithophore growth: observations and models"

10:05 - 10:25 **Mariem Saavedra-Pellitero:** "Comparison of satellite and coccolithophore PIC: insights from two latitudinal transects in the Pacific sector of the Southern Ocean" (this talk can't be moved)

10:25 - 10:40 Break (15 min)

10:40 -10:55 Flash talks:

- **María Isabel Amorín:** "Study of the Coccolithophore occlusion into calcite crystals."

- **Emma Hanson:** “Size-fraction coccolith stable isotopes and Sr/Ca ratios from the Miocene to Recent”
- **Hongrui Zhang:** “Surface ocean cooling led freshening on the Iberian Margin during the abrupt cooling events in Marine Isotope Stage 6”

10:55 - 10:50 Break (5 minutes)

10:50 - 11:20 **Discussion Round 1**

11:20 - 11:25 Break (5 minutes)

11:25 - 11:55 **Discussion Round 2**

11:55 - 12:05 **Round-up of Session 4**

12:05 - 12:30 **Closing meeting remarks + Best Student Talk Award**