



Advances in Coccolithophore Research
Marine Biological Association, Plymouth, UK
September 9th-11th 2025

Programme Overview
(All times British Summer Time BST)

Tuesday 9th September

- 10:30 Optional: workshop on global coccolithophore datasets (CASCADE database)
- 12:30 Lunch and arrival
- 14:00 **Session 1- Cell biology**
- 18:00 Dinner
- 19:00 Poster session
- 20:30 end

Wednesday 10th September

- 09:00 **Session 2- Ecosystems**
- 12:50 Lunch
- 14:00 **Session 3- Climate Change**
- 17:00 Discussion + posters
- 19:30 Dinner

Thursday 11th September

- 09:00 **Session 4- Ecosystems**
- 12:30 Lunch
- 14:00 Departure

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Tuesday 9th September

10.30	Optional discussion group	CASCADE Database Workshop (Discussions of the development of the global coccolithophore species distribution database)
12.30	Lunch + Arrival	

Day 1 (9/9) PM session

	14.00	Introduction		
Cell Biology	14.10	Colin Brownlee (Keynote)	IP	Elucidating the ins and outs of coccolithophore calcification
	15.00	Andre Scheffell	IP	Proteomic and Genetic Analysis of Coccolithophores: Insights into Scale Formation
	15.30	Break		
	16.00	Fabio Nudelman	IP	Dynamic change of calcium-rich compartments during coccolithophore biomineralization
	16.20	Jan Janouskevec	IP	An update on haptophyte evolution
	16.40	Chiara Bonatelli	IP	Insights into Biomineralization and Intracellular Organization in Highly Calcified Coccolithophores
	17.00	Talia Shaler	ON	Mapping the transcriptomic landscape of <i>G. huxleyi</i> resistance to lytic viral infection
	17.15	Discussion		
	18.00	Dinner (MBA Common Room)		
	19.00	Poster session		

Wednesday 10th September

Day 2 (10/9) AM session

	9.00	Kyoko Hagino	ON	Taxonomic re-evaluation of <i>Braarudosphaera bigelowii</i> species complex (Prymnesiophyceae)
Ecosystems	9.30	Benjamin Gustafson	IP	Pelagic calcifiers' diversity and relative contributions to production and export of CaCO ₃
	9.50	Catarina V. Guerreiro	IP	Impacts of aeolian dust deposition in the ocean: a coccolithophore perspective

	10.20	Nir Joffe	ON	Using comparative genomics to uncover resistance to viral infection in <i>Gephyrocapsa huxleyi</i>
	10.40	Break		
	11.10	Boris Karatsolis	ON	Reconstructing paleoclimate and paleoproductivity across the warm Late Miocene to Pliocene using calcareous nannofossils
	11.40	Frederic Chaux	ON	Exploring the metabolic interplay between phytoplankton and bacteria: case study of B vitamins in a coccolithophore's phycosphere
	12.00	Alastair Skeffington	IP	Do coccolithophores watch the clock? Circadian rhythms in coccolithophores and other haptophytes.
	12.30	Pauline Béziat	IP	Interactions Between Coccolithophores and Selenium Biogeochemistry
	12.50	Lunch Break + Posters		
Day 2 (10/9) PM session	14.00	Ros Rickaby	IP	TBC
Climate Change	14.30	Alex Poulton	IP	Climate Stressor Impacts on Coccolithophores and the Carbonate Pump
	15.00	Gerald Langer	IP	Are coccolithophores less vulnerable to Ocean Acidification than aragonitic calcifiers?
	15.20	Break		
	15.50	Hongrui Zhang	IP	Mid-Brunhes Coccolithophore Acme Event: from driving mechanism to carbon cycle effect
	16.20	Vivien Bauer	IP	Revisiting the UK' ₃₇ Proxy: Accounting for Habitat-Depth and Seasonality Effects
	16.40	Abha Singh	ON	Integrated biostratigraphy and palaeoenvironment from western Garo Hills, Meghalaya, northeast India
	17.00	Group Photo		
	17.10	Discussion/Poster		
	19.30	Dinner (Cosmic Kitchen)		

Thursday 11th September

Day 3 (11/9) AM session	9.00	Alba Gonzalez-Lanchas	IP	Environmental controls on coccolithophore calcite production
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Biogeochemistry	9.30	Sarah Cryer	IP	Coccolithophore physiology and 2024 bloom dynamics in the Iceland Basin
	9.50	Blanca Ausin	ON	Beyond the bloom: assessing lateral transport biases in coccolith paleorecords
	10.20	Jessica Walker	IP	Mapping variation in coccolith Sr/Ca ratios using synchrotron X-ray fluorescence
	10.40	Break		
	11.10	Borna Branimir Vukovic	IP	Tracking coccolithophore calcification – first steps towards a PIC estimation model
	11.30	Patrizia Ziveri	IP	Not all calcifying plankton groups are alike
	11.50	Griet Neukermans	ON	Towards autonomous observations of the open ocean's carbonate pump
	12.20	Closing Remarks + Prizes		
	12.30	Lunch Break		

IP = in person presenter

ON = online presentation