

Advances in Coccolithophore Research
Plymouth, UK | 9-11 September 2025



Where to find us

The Marine Biological Association, Plymouth UK, PL1 2PB

The MBA is situated on Plymouth Hoe seafront, next to the historic Royal Citadel. It is a 20 minute walk from Plymouth railway station, or a short bus or taxi ride.

Parking – limited visitor parking is available (2 spaces). Please email reception@mba.ac.uk with your car registration and details if you wish to use these spaces. As space at Citadel Hill is limited booking of parking is first come first served. Alternatively there is pay and display on the surrounding streets, in the nearby [Elphinstone Car park](#) or [Theatre Royal Car Park](#)

Registration

Registration will take place at 12.30-2 pm on Tuesday 9th September. Please come to the MBA Reception. Lunch will be served in the MBA Resource Centre.

Talks

We will be running talks from a central computer. Could you please upload your talk onto the computer before the start of your session. There will be a USB stick available if needed.

Online speakers please join the Zoom call and you will be asked to share your screen at the scheduled time.

Please allow 5 minutes for questions within your allotted time.

Posters

All posters should be A0 portrait. Fastenings will be provided. Please put posters up when you arrive as the main poster session will be on Tuesday evening.

Online content

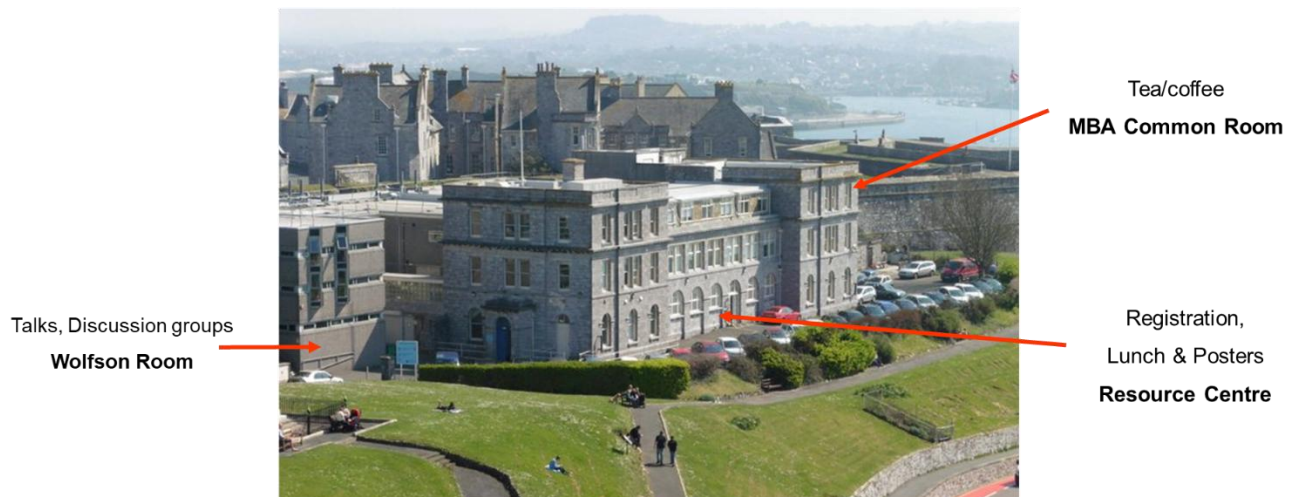
Zoom links will be provided to ticket holders by email before the event.

Venues within the MBA

Talk + discussion sessions will be held in the Wolfson Room

Tea and coffee will be served in the MBA Common Room

Poster sessions and lunch will be held in the MBA Resource Centre



Dinner

Tuesday 9th September, 6 pm

MBA Common Room

Buffet (provided by Cosmic Kitchen)

Wednesday 10th September, 7.30pm

Cosmic Kitchen (<https://cosmickitchen.co.uk/>)

We will meet at Cosmic Kitchen (Palace Street, Plymouth, PL1 2AY) for an evening meal at 7.30pm.

The restaurant is a short 10 minute walk from the MBA.

A big thank-you to our sponsors



The BPS are pleased to announce their Annual Conference will be held in January 2026 in Aberystwyth

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**
17:15 Discussion groups
18:00 Dinner (MBA Common Room)
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 Posters
18.00 Seafront walk to Barbican (weather permitting)
19:30 Dinner (Cosmic Kitchen)

Thursday 11th September

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

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

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

| | | | | |
|--------------|-------|--------------------------|----|---|
| Cell Biology | 14.00 | Introduction | | |
| | 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) |
|------|--------------|----|--|

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|--------------------------------|-------|-----------------------|----|---|
| 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 | Putting physiology into the carbon isotopic record of coccolithophores |
| 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 | ON | 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 | | |

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|-------|----------------|---|
| 17.10 | Poster session | |
| 18.00 | Free time | Optional seafront walk to Barbican (weather permitting) |
| 19.30 | Dinner | Cosmic Kitchen, Palace St, PL1 2AY Vegan, Middle Eastern-inspired dishes |

Thursday 11th September

| | | | | |
|--------------------------------|-------|-----------------------------|----|---|
| Day 3 (11/9) AM session | 9.00 | Alba Gonzalez-Lanchas | IP | Environmental controls on coccolithophore calcite production |
| 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 | Nicola Wiseman | IP | Subtropical gyres dominate calcite production by coccolithophores |
| | 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

Organising committee

Glen Wheeler
Jelena Godrijan
Nishant Chauhan
Nicola Wiseman
Debs Tangunan
Assaf Gal
Kyle Mayers
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MBA Events team

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