

Bad Honnef Physics Summer School

“Physic of the Ocean”

2-7 July 2023 at the Physikzentrum Bad Honnef, Germany

Sunday, 02/07/23: Arrival, Reception, and Introduction	
15.00 – 18.00	Arrival of participants at the “ Physikzentrum Bad Honnef ”, Hauptstr. 5, 53604 Bad Honnef, Germany
16.30 – 18.00	Registration, room allocation, coffee and pastries available Welcome reception (Martin Visbeck & David Marshall)
18.00 – 20.00	<i>Dinner</i>
20.00 – 21.30	Introduction to the Summer School and ‘Speed Dating’
Monday, 03/07/23: Large Scale and Coastal Oceanography	
08.00 – 09.00	Breakfast
09.00 – 09.10	Plan of the Day
09.10 – 10.40	Lecture #1: Eleanor (or Helen) Ocean circulation - observations (let E & H decide order)
10.40 – 11.10	<i>Coffee break</i>
11.10 – 12.40	Lecture #2 Helen (or Eleanor) Ocean circulation - theory
12.40	<i>Lunch</i>
14.00 – 15:30	Lecture #3 Sabrina - Southern Ocean
15.30 – 16:00	Introduction to Super Problems (Martin Visbeck/ David Marshall/ Sabrina Speich)
16.00 – 16.30	<i>Coffee break</i>
16.30 – 18.00	Exercises / Discussions (posters on display)
18.00 – 20.00	<i>Dinner</i>
20.00 – ...	Welcome Evening (welcome party)
Tuesday, 04/07/23: Regional and Operational Oceanography	
08.00 – 09.00	<i>Breakfast</i>
09.00 – 09.10	Plan of the Day
09.10 – 10.40	Lecture #4: Peter - Tropical oceanography
10.40 – 11.10	Coffee break
11.10 – 12.40	Lecture #5: David - Mesoscale dynamics
12.40	Lunch
14.30 – 15.30	Lecture #6: Eleanor (research lecture)
16.00 – 18.00	Exercises / Discussions
18.00 – 20.00	<i>Dinner</i>
20.00 – 21.30	Participants Poster Session

Wednesday, 05/07/23:	
Regional Oceanography and Observing Systems	
08.00 – 09.00	<i>Breakfast</i>
09.00 – 09.10	Plan of the Day
09.10 – 10.40	Lecture #7: Arne - Ocean General Circulation Modelling
10.40 – 11.10	<i>Coffee break</i>
11.10 – 12.10	Lecture #8: Sabrina (research lecture)
12.30 – 14.30	<i>Lunch - is it possible to bring lunch forward further for excursion?</i>
14.30 – 18.00	Excursion (hiking and work on Super Problem)
18.30 – 20.00	<i>Dinner</i>
20.00 – 21.30	Evening Lecture: e.g. Decade of Ocean Science for Sustainable Development (Martin Visbeck)
Thursday, 06/07/23:	
Small Scale Ocean Physics and Mixing	
08.00 – 09.00	<i>Breakfast</i>
09.00 – 09.10	Plan of the Day
09.10 – 10.40	Lecture #9: Camile - Arctic
10.40 – 11.10	<i>Coffee break</i>
11.10 – 12.40	Lecture #10: Erik - currents shaping ecosystems
12.40	<i>Lunch</i>
14.30 – 15:30	Lecture #11: Helen (research lecture)
16.00 – 16.30	<i>Coffee break</i>
16.30 – 18.00	Exercises / Discussions
18.00 – 20.00	<i>Dinner</i>
20.00 – 21.30	Presentations of Super Problem Results
Friday, 07/07/23:	
Ocean Biochemistry	
08.00 – 09.00	<i>Breakfast</i>
09.00 – 09.10	Plan of the Day
09.10 – 10.40	Lecture #12: Martin - Ocean Observing Systems and Digital Twins
10.40 – 11.10	<i>Coffee break</i>
11.10 – 12.10	Lecture #13: Erik (research lecture)
12.10 – 12:40	Summary of the Week (Martin Visbeck & Sabrina Speich & David Marshall)
12:40	<i>Lunch</i>
14.30	End of summer school