

# ClimEco8



**Sustaining the ocean we need for the future we want**

**19-24 June 2023**

**ZRS-Mediterranean Institute for Environmental Studies, Koper, Slovenia**

The United Nations declared 2021-2030 as the UN Decade of Ocean Science for Sustainable Development. The objective is to motivate international efforts to improve ocean health by providing the science necessary for 'The ocean we need for the future we want'. Achieving this requires more than 'just new knowledge'. It will require new approaches to understand and tackle complex socio-ecological problems and build ocean literacy and public support for ocean futures. Scientists and decision-makers will need to facilitate the use of available science and encourage the uptake of behaviours and the implementation of policies—at individual, local and global scales. This is a challenging task, that will require scientists to be able to work across disciplines, across knowledge systems, and with a diversity of stakeholders.

To this end, IMBeR will convene its 8th International ClimEco Summer School (ClimEco8), in Slovenia, to help develop the next generation of marine researchers who will be at the forefront of addressing ocean challenges. Under the guidance of a group of internationally recognised experts, participants will develop a strong theoretical and applied understanding of different disciplines, and how they can be integrated to help generate solutions to the grand challenges facing the world's oceans. Participants will also gain practical skills in science communication and how to operate effectively at the science-policy-society interface, so that they can influence decision-making processes and help secure the ocean we need, for the future we want.

## Lecturers

- Jessica Blythe – Brock University, Canada
- Laurent Bopp – LSCE, France
- Chris Cvitanovic – University of New South Wales, Australia
- Beth Fulton – CSIRO, Australia
- Gretta Pecl – IMAS and CMS at University of Tasmania, Australia
- Jerneja Penca – ZRS Koper, Slovenia
- Ingrid van Putten – CSIRO and University of Tasmania, Australia
- Rashid Sumaila – University of British Columbia, Canada

## Practical Sessions and workshops

The summer school will include lectures and workshops. Workshops will build the practical skills that can help early career researchers build a thriving career. Topics will include:

- How to write a winning research grant
- How to write scientific papers (and to know where to target them)
- How to develop a policy pitch and policy brief
- How to work across disciplines (and collaborate well)
- How to build successful careers both inside, and outside of, academia

## Topics to be covered

The topics covered in this summer school fall under five broad themes.

### Climate change and the world's oceans

- Delineating the issues of climate change and impacts to marine ecosystems
- Biogeochemical impacts of climate change on the world's oceans
- Social and economic impacts of climate change in marine ecosystems
- Prioritising adaptation options, including social acceptability
- Adaptation in practice: case studies from around the world

### Managing marine resources

- Governing marine systems; key concepts and strategies
- Justice, equity and inclusion in marine governance and management
- Unexpected management outcomes (and how to avoid them)
- The role of science in marine governance
- Principles for co-producing knowledge for marine governance
- Foresighting as a tool to inform futures governance

### Modelling the socio-ecological marine system

- Overview of ecological modelling types (inc. coupling models)
- Economic and bio-economic modelling
- Network modelling
- Qualitative modelling
- Climate modelling, projections and uncertainty
- Key considerations when engaging decision-makers with models

### Social and economic research methods

- Introduction to social science, and quantitative methods
- Qualitative social science research methods
- Behavioural economics and social psychology
- Ethics in the social sciences

### Just and equitable ocean futures

- Blue justice and environmental (in)justice in the ocean
- The potential to advance equitable marine conservation
- Transformations towards ocean equity/just transitions
- Towards an equitable blue economy
- Data justice
- Gender equality in the marine sciences

## Who should apply

ClimEco8 welcomes applications from students and early career researchers from any marine science discipline who are interested in the future of global oceans. Come and find out about practical ways to deal with the challenges arising from working across social and natural science disciplines.

A registration fee (amount to be announced soon) will be charged to cover costs of the training course. Accommodation and travel costs are not included in the registration fee and must be paid by the participant