

Ocean Acidification: What does it mean for New Zealand?

This workshop will explore the science behind ocean acidification, what relevance it has to New Zealand's marine ecosystems, fisheries and aquaculture industries, and discuss knowledge needs and research priorities for the future.

Who is the workshop aimed at?

The workshop is aimed primarily at government and private sector agencies that have an interest in climate change, the marine environment, fisheries and aquaculture. It is intended as a two-way dialogue: to inform agencies of the key scientific and technical issues, and to inform the scientific community of the most important priorities in terms of knowledge gaps and hence future research.

Guest speakers

Professor John Raven, FRS, University of Dundee.

John Raven is an international expert on marine photosynthesis and was the chair of the Royal Society of London Committee on Ocean Acidification and lead author of their landmark 2005 report.

Professor John Beardall, Monash University.

John Beardall is head of the School of Biological Sciences and an international expert in the effects of elevated CO₂ and UV-B radiation on the photosynthetic performance of microalgae, and on interactions between photosynthesis and nutrient acquisition by algae

Workshop format:

The first part of the workshop will involve invited talks from the Guest speakers, and other scientists from NIWA and the University of Otago, focused on different aspects of the science underlying ocean acidification.

This will be followed by small group discussions that will be reported back in a plenary session. These discussions will focus on New Zealand-specific questions and future research needs.

It is anticipated that written proceedings of the workshop will be published soon after.

Date and venue etc

To be filled in; registering interest etc

Suggested format:

9.00-9.20	Keith Hunter University of Otago	Welcome, introduction to physical science behind OA
9.20-10.10	John Beardall Monash University	Biological responses to Ocean Acidification
10.10-10.40	John Raven University of Dundee	The EPOCA programme
10.40-11.00		Morning tea
11.00-11.20	Laura Parker University of Western Sydney	Effects of high CO ₂ on Sydney rock oysters
11.20-11.40	Abby Smith University of Otago	Biogenic marine CaCO ₃
11.40-12.00	Catriona Hurd University of Otago	Ocean acidification in NZ coastal waters
12.00-12.20	Cliff Law NIWA, Wellington	Ocean acidification in NZ offshore waters
12.20-12.40	Andrew Forsyth NIWA Wellington	NZ Aquaculture industry
12.40-1.40		Lunch
1.40-2.00	Christina McGraw and Kim Currie University of Otago & NIWA, Dunedin	Current NZ research activities
2.00-2.30	Philip Boyd NIWA Dunedin	Future knowledge needs
2.30-3.30		Group discussions
3.30-3.45		Afternoon tea
3.45		Plenary session
4.30		Close of workshop