

Ministry for Primary Industries  
Manatū Ahu Matua



**Attendance is free!**  
For more information, and to register, please contact  
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# Future proofing New Zealand's shellfish aquaculture:

monitoring and adaptation  
to ocean acidification

*A two-day workshop aimed at improving the understanding of future changes in ocean chemistry and the challenges they pose for our shellfish industry.*

**Rutherford Hotel, Nelson, NZ  
December 3rd and 4th, 2013**



## Topics to be covered

- An overview of ocean acidification and state of knowledge for NZ
- Adaptation and mitigation measures successfully employed by the U.S. industry
- Monitoring, mitigation and adaptation priorities for NZ
- The technical needs and costs of ocean acidification monitoring
- The biological metrics required to assess ocean acidification impacts on shellfish



## Facilitators:

Dr John Guinotte, Marine Biogeographer, U.S

Dr Todd Capson, Science & Policy Advisor,  
Global Ocean Health Programme, U.S

## US speakers include:

Mr Bill Dewey, Taylor Shellfish Farms;

Mr Alan Barton, Whiskey Creek Shellfish  
Hatchery,

Dr George Waldbusser & Prof Burke Hales,  
Oregon State University,

Prof Emily Carrington, Friday Harbor,  
University of Washington

OCEAN ACIDIFICATION (caused by the ocean absorbing excess atmospheric CO<sub>2</sub>) is a major threat to marine ecosystems worldwide. To what extent might NZ seas be affected? What might it mean to our shellfisheries? What can we do?

Visiting U.S. scientists and aquaculture industry representatives will share knowledge gained from their recent experience of ocean acidification: an 80% decline in the production of Pacific oyster larvae caused by the upwelling of CO<sub>2</sub> rich water off the U.S. Pacific Northwest coast.

NZ scientists, government agency representatives, and aquaculture industry participants will describe our region's ocean chemistry and ongoing ocean acidification research, and its relevance to local aquaculture.

## New Zealand speakers from:

Ministry of Primary Industries;

NZ Aquaculture Industry;

National Institute of Water and Atmospheric  
Research (NIWA);

Cawthron Institute

## Open discussion sessions will be included



Photo: Norman Ragg



Photo: Dave Allen