

# COMMUNICATING AND TEACHING OCEAN SCIENCE AND CLIMATE CHANGE FOR SECONDARY SCHOOL YRS 9-12 WORKSHOP

## WHEN

December 8, 2015  
9am – 4pm

## WHERE

Freycinet Room  
Building 1  
CSIRO Marine Laboratories



Tasmanian scientists from CSIRO, IMAS and UTAS are involved in a global project looking at understanding and creating awareness around food security for coastal communities in a changing climate. **The project is called Global Learning for Local Solutions: Reducing vulnerability of marine-dependent coastal communities (GULLS) and is funded by the Belmont Forum. Engaging communities in education about the ocean in general, and food security in a changing climate, will instil knowledge, understanding, and ownership, all of which ultimately lead to responsible actions for a sustainable future.**

As part of the GULLS project we are offering a workshop for Year 9-12 teachers interested in communicating and teaching ocean science and climate change. **The workshop will be based on the Communicating Ocean Sciences course which was developed by the Lawrence Hall of Science, California, USA and is being taught at more than 30 universities (<http://reflectiveeducators.org/about/about-communicating-ocean-science/>)**

Participants will be introduced to the curricula modules and they will get help in customizing the syllabus for the local setting and needs. The curricula and activity modules are designed to develop students' ocean literacy by teaching age appropriate science concepts and building inquiry skills in the compelling context of ocean science. For Years 9-12, students investigate climate change through the evolution of the ocean and atmosphere throughout Earth's history; movement of the atmosphere and ocean through density, air, and water currents; the carbon cycle; and the ocean's relationship to climate and climate change.

Module contains 3 units:

- Unit 1: How Do the Ocean and Atmosphere Interact?
- Unit 2: How Does Carbon Flow Through the Ocean, Land, and Atmosphere?
- Unit 3: What Are the Causes and Effects of Climate Change?



## INSTRUCTORS

Adina Payton & Catherine Halversen  
(USA)

## RSVP

1<sup>st</sup> December 2015  
Ben Arthur  
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## SPONSORS

BELMONT FORUM  
National Science Foundation (USA)  
CSIRO  
University of Tasmania  
Institute for Marine & Antarctic Studies

## WHAT YOU CAN GET OUT OF IT

This workshop will provide guidance on how to introduce ocean science content in kindergarten through high-school classrooms as well as in informal science education institutions, like museums, community centers, afternoon programs or public events.

Following the workshop participants will be ready to go into classrooms or other venues and teach individual lessons or a sequence of classes related to the ocean and climate.

Morning Tea and Lunch will be provided

