

## Program of the Climate Change Monitoring symposium

**When:** 12 December 2008  
**Time** 8:00 am - 6:00 pm  
**Where:** Webster Theatre, Veterinary Science Conference Centre, University of Sydney

### Program's Timetable

|                     |  |
|---------------------|--|
| 8:00 - 9:00 am      | Registration   |
| 9:00 - 10:25 am     | Morning session 1 (Co-chairs: Dr. John You and Prof. Mark Adams) |
| 10:25 - 10:45 am    | Morning Tea  |
| 10:45 - 11:15 am    | Special Session (Chair: Dr. John You)                            |
| 11:15 am – 12:30 pm | Morning session 2 (Chair: Dr. Tony Press)                        |
| 12:30 - 1:10 pm     | Lunch break  |
| 1:10 - 3:15 pm      | Afternoon session 1 (Chair: Prof. Matthew England)               |
| 3:35-6:00 pm        | Afternoon session 2 (Chair: Prof. Ann Henderson-Sellers)6:05 pm  |
| 6:05-7:00           | pm after symposium entertainment with beer and wine              |

### Detailed Program's Timetable

|               |   |
|---------------|---|
| 8:00-9:00 am  | Registration  |
| 9:00-10:25 am | Morning session 1 (Co-chairs: Dr. John You and Prof. Mark Adams)  |
| 9:00-9:10 am  | Opening speech by the minister for Climate Change Penny Wong (invited) and Acting Deputy Vice Chancellor for Research Prof. Merlin Crossley, University of Sydney, jointly opening speech the symposium |

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- 9:10-9:35 am** Acting Deputy Vice Chancellor for Research Prof. Merlin Crossley invites Hon Penny Wong MP to present an open speech  
Title: Open speech by Hon Penny Wong MP, briefing the current state of Australian climate change and government action.
- 9:35 -10:00 am** Dr. Tony Press (Director of Australian Antarctic Division, Hobart)  
Title: Antarctic Climate Science: Australia's efforts in the icy frontier and what we can learn about the future
- 10:00-10:25 am** Prof. Ann Henderson-Sellers (Climate Change Risk CORE, Macquarie University; Former Director of World Climate Research Program)  
Title: How Seriously Are We Taking Climate Change: Monitoring Climate Change Communication
- 10:25-10:45 am** **Morning Tea**

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**10:45-11:15 am Special Session (Chair: Dr. John You)**

**10:45-10:50 am,** Announcement of a special issue of Progress in Oceanography in honour of Prof. Matthias Tomczak retirement (Acting Deputy Vice Chancellor for Research Prof. Merlin Crossley is invited to hand over the special issue to Prof. Tomczak)

**10:50:11:00 am** Speech by Dr. John Church (editorial team)

Title: Appraisal of Prof Tomczak as a famous international oceanographer and teacher

**11:00-11:15 am** Speech in response and presentation by Prof. Matthias Tomczak (former Professor and Director of Flinders Institute of Atmosphere and Marine Sciences, Adelaide; and former academic staff and associate professor of the University of Sydney)

Title: Barrier layer permeability and its consequence for ocean/atmosphere climate models (co-authored with Juliette Mignot and Clément de Boeyer Montégut)

**11:15 am – 12:30 pm Morning session 2 (Chair: Dr. Tony Press)**

**11:15-11:40 am** Prof. Mark Adams and Prof. Alex McBratney(Dean of Faculty of Agriculture, Food and Natural Resources, University of Sydney)

Title: Monitoring soil carbon and emissions: natural and anthropogenic influences

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- 11:40 am -12:05 pm** Dr. Helen A. Cleugh (Deputy Director of Centre for Australian Weather and Climate Research, Melbourne)  
Title: An Australian climate change and Earth observatory
- 12:05-12:30 pm** Dr. Janice Lough (Principal Research Scientist, Research Leader for Climate Change, Australian Institute of Marine Science (AIMS), Townsville)  
Title: A changing climate for the Great Barrier Reef: physical observations and biological responses
- 12:30-1:10 pm** Lunch break
- 1:10-3:15 pm** **Afternoon session 1 (Chair: Prof. Matthew England)**
- 1:10-1:35 pm** Dr. John Church (Chief Principal Research Scientist, Project Leader of Sea Level Rise, CSIRO Marine Research, Hobart, Past Chair of Joint Scientific Committee of the World Climate Research Programme)  
Title: Understanding sea-level rise and its implications
- 1:35-2:00 pm** Prof. Iain Suthers (Professor, School of Biological, Earth and Environmental Sciences (BEES), UNSW & Sydney Institute of Marine Science (SIMS)) and Prof. Gary Meyers (Director of Integrated Marine Observing System, University of Tasmania, Hobart)  
Title: Australian Integrated Marine Observing System (IMOS)
- 2:00-2:25 pm** Prof. Maria Byrne (Director of One Tree Island Research Station, University of Sydney)  
Title: Impact of climate change on benthic marine invertebrates

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- 2:25-2:50 pm** Prof. Graeme Pearman (GP Consulting and Senior Honorary Research Fellow, Monash University, Melbourne; former Director of CSIRO Division of Atmospheric Research)  
Title: Complexity and urgency: Elements of the climate-change issue
- 2:50-3:15 pm** Dr. David Walland (Senior climatologist, National Climate Centre, Bureau of Meteorology, Melbourne)  
Title: Monitoring the atmosphere and hydrosphere
- 3:15-3:35 pm** **afternoon tea break**
- 3:35-6:00 pm** **Afternoon session 2 (Chair: Prof. Ann Henderson-Sellers)**
- 3:35-4:00 pm** Dr. Matthew England (Co-director, Climate Change Research Centre, Federation Fellow, UNSW)  
Title: Ocean's role in climate and climate change
- 4:00-4:25 pm** **Dr. Johannes Karstensen** (IFM-GEOMAR, Leibniz-Institute für Meereswissenschaften an der Universität Kiel, Germany)  
Title: Why do we care about oxygen minimum zones?
- 4:25-4:50 pm** Dr. Peter Cowell (School of Geosciences, University of Sydney) Title: Coastal impacts of sea level rise
- 4:50-5:15 pm** Dr. Joachim Ribbe (Associate Professor in Climatology, University of Southern Queensland, Toowoomba)  
Title: Observing the impact of climate variability on Hervey Bay
- 5:15-5:40 pm** Dr. Neil Holbrook (Associate Professor in Climatology and Climate Change, University of Tasmania, Hobart)  
Title: South Pacific Ocean climate dynamics

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**5:40-6:05 pm**

Dr. John You (University of Sydney Institute of Marine Science)

Title: Introducing an international ocean climate program, PACSWIN, and using submarine cable for cost-effective long-term climate monitoring

**6:05 pm**

**symposium close**

**6:05-7:00**

**pm after symposium entertainment with beer and wine**