



**CHANGE IN LAKE ILLAWARRA:
LINKING RESEARCH AND
MANAGEMENT**

Symposium, 3-4 December, 2009

**University of Wollongong Function
Centre**

Organisers and Sponsors

**GeoQuEST Research Centre, University of
Wollongong
and the
Lake Illawarra Authority**

DRAFT PROGRAM

SYMPOSIUM PROGRAM

Thursday 3 December, 2009

Opening Session

Chair: John Morrison (UoW)

- 9.15 Welcome – Professor Gerard Sutton, Vice-Chancellor, University of Wollongong
- 9.25 The importance of Lake Illawarra for the region – Noreen Hay, Member for Wollongong
- 9.35 Opening address – Hon Tony Kelly, Minister for Lands
- 9.45 Estuarine Management in NSW – current directions – Tony Roper (NSW DECCW)
- 10.15- 10.45 Morning Tea

Session 1 – State of the Lake and Impending Pressures

Chair: John Morrison (UoW)

- 10.45 Ecological changes in Lake Illawarra and assessment of current condition – Cassie Baxter (LIA)
- 11.20 Wollongong City Council's planned development in the Lake Illawarra catchment, measures to mitigate the impacts on the Lake, and likely research needs– WCC rep
- 11.50 Shellharbour City Council's planned development in the Lake Illawarra catchment, measures to mitigate the impacts on the Lake, and likely research needs – Andrew Williams
- 12.20-1.15 Lunch

Session 2 – Studies relating to Eutrophication of Lake Illawarra

Chair: Garry Clarke (NSW DNR)

- 1.15 Planktonic primary production; a decisive tool for monitoring the health of Lake Illawarra – Samantha Kneeshaw (Newcastle University)
- 1.45 Macroalgae in Lake Illawarra and their role in nutrient cycling– Karin Rutten/Ron West/John Morrison (UoW)
- 2.15 Fisheries Issues in Lake Illawarra - Trevor Daly (NSW DII)

2.45 Isotopic studies on nitrogen cycling in the Lake Illawarra area – Dianne Jolley/Anne Mills/Steve Wilson (UoW)

3.15 Microbial diversity in Lake Illawarra changes over time – Dongyan Liu (Yantai Institute for Coastal Zone Research, China)

3.35-4.00 Afternoon Tea

Workshop Sessions

4.00 - 5.00

Three workshops will run focussing on specific areas of research with the aim of trying to assess current state of knowledge, knowledge gaps and identify priority areas for the LIA in its Research Plan

Workshop 1: Climate Change and Lake Illawarra – Facilitator Colin Woodroffe

Workshop 2: Eutrophication and other ecological issues – Facilitator Ron West

Workshop 3: Social and Economic Issues – Facilitator tbc

5.00-6.00 Poster Session with drinks

Friday 4 December 2009

Session 3 – Management Issues for Lake Illawarra – social and economic issues

Chair: Ron Hales (LIA)

8.30 Reflections and perspectives on the changing role of the Lake Illawarra Authority – Doug Prosser (LIA)

9.00 Economic valuation of the management of the Lake – Anne Hodgkinson (UoW)

9.30 The outcomes of the MAP project – Phil Crawford

10.00 Community expectations about the Lake – Simon Pomfret (IRIS)

10.30-11.00 Morning Tea

Session 4 – Geoscientific Studies in the Lake Illawarra area

Chair: Trevor Daly (NSW DII Fisheries)

- 11.00 Sedimentation studies in the Lake Illawarra catchment system – Brian Jones (UoW)/Carl Hopley (WCC/UoW)
- 11.30 Trace element studies in Lake Illawarra – Mark O’Donnell (UoW)
- 12.00 Industrial pollution of Lake Illawarra – Yasaman Jafari/Brian Jones/John Morrison (UoW)
- 12.30-1.30 Lunch

Session 5

Current and Future Issues in the Management of Lake Illawarra and the Associated Research Needs

Chair: Brian Dooley (NSW DoL and LIA)

- 1.30 Sea level rise impacts on Lake Illawarra – Louise Collier (CLT)
- 2.00 On the linkages between research and management for estuaries – Melissa Thompson (UoW)
- 2.30 Open discussion of the Research Needs and the LIA Research Plan
Facilitator: John Morrison
Reports from the Workshop Sessions
Participant comments
- 3.15 Closing Address – Brian Dooley, Executive Officer, Lake Illawarra Authority
- 3.30 Afternoon Tea/Depart

NB Each speaker is asked to summarise the state of knowledge in their area of interest and to suggest research that needs to be completed for better management of the Lake

All presentations that authors wish to be published should be accompanied by a written paper – suggested length max 10 pages, 12 pt Times New Roman – Arrangements have been made for refereed papers submitted to be refereed and published in Wetlands (Australia), either as individual papers or as a special issue.

Opportunities are available for poster presentations