

Short CV Kathleen Bowmer

Contact:

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Qualifications:

- PhD (Nottingham), 1969; BSc (Hons), 1966 (Agricultural and soil science specialisations); Member of the Royal Australian Chemical Institute; Fellow of the Australian Institute of Company Directors.

Areas of expertise:

- Water policy analysis;
- Natural resources management, public participation, catchment governance including practical on-ground facilitation in water-sharing planning;
- Aquatic ecology, irrigation, ecotoxicology, water quality,
- River operations and management;
- Writing and editing;
- Teaching and learning.

Awards and Distinctions:

- Pol Eureka Prize for Environmental Research, 1995;
- University of Nottingham, E and J D Marsden Prize.

Current appointments:

- Professor of Water Policy, Charles Sturt University (part time; 2004 - date);
- Adjunct Professor Griffith University Law School (Member of core team for National Water Commission National Water Planning Project);
- Honorary Research Fellow, CSIRO Land and Water;
- Research Fellow Charles Sturt University E H Graham Centre for Agricultural Innovation;
- State Water Corporation, Board Member; Member of Audit and Compliance and Business Innovation Committees;
- Kathleen Bowmer and Associates, principal - science and water policy consultant to government agencies, industry and universities.

Previous appointments:

- Chief Research Scientist and Business Director, CSIRO Land and Water, 2001 – 2004;
- Chair, Murrumbidgee River Management Committee, September 1996 - February 2003;
- Deputy Vice-Chancellor (Academic and Research), Charles Sturt University; concurrently Principal/Head of Campus (1996-2001) and Director of Research Office (1996, 2000)
- Business Director/Deputy Chief CSIRO land and Water (2001-2004)
- Assistant /Deputy Chief, CSIRO Division of Water Resources (1989-1996)
- Australian Research Council Earth Sciences Large Grants and Fellowships Committee, 1998 – 2000 (Chair, 1999 - 2000);
- Research Fellow Charles Sturt University Institute for Land Water and Society.

Previous boards and advisory panels:

- NSW Department of Natural Resources, Science and Information Advisory Board/Council (2005 -7);
- Nature Conservation Water Trust, Member of the Scientific Advisory Panel;

- CRC Sustainable Rice Production Board; CRC Freshwater Ecology Board; Murray Darling Freshwater Research Centre Board; National Rivers Consortium (Land & Water Australia) Board;
- Charles Sturt University Board of Governors;
- Trustee Australian Museum;
- Advisory Committee for the Consortium for Integrated Resource Management, Queensland;
- Board of the Centre for Groundwater Studies, Adelaide;
- Member of the Pratt Water Integration Team: Murrumbidgee Valley Water Feasibility Efficiency Project;
- Technical Adviser, Rice Research Committee;
- CSIRO representative, Natural Resource Management Ministerial Council Programs Committee;
- Prime Minister's Science and Engineering Council.

Algal blooms, CSIRO multidivisional programs and representation:

- Coordinated the initiation of CSIRO's 3.5 million dollar multi-divisional program on algal blooms;
- Murray Darling Basin Commission working party on algal blooms strategy and chaired technical advisory group on bioremediation;
- CSIRO spokesperson, Senate Standing Committee on Management of Australia's Water Resources.

Peer reviewer:

- Qatar National Research Fund; the Australian Research Council and six journals;
- Judge, Young Water Scientist of the Year (Brisbane Riversymposium 2007).

Guest keynote speaker:

- ABARE Conference . Conflict management in regional water sharing: opportunities for social learning, March 2007;
- ANU International Symposium on Sustainable Water Management, September, 2005;
- International Hydrology and Water Resource Symposium, Wollongong, November 2003;
- Fenner Conference, August 2002.

Editor:

- Guest Editor *Gender and Water, Special Issue of Rural Society Journal*, 2008;
- Managing Editor for *Water Innovation: A New Era for Australia*, book commissioned by Australian Government Department of Agriculture, Fisheries and Forestry and 30 agencies/universities/industry groups (September 2004);
- Co-editor *Australian Stream Management Conference*, Albury, 2007.

Teaching and learning:

- Subject coordinator *Water Policy and Management*, Charles Sturt University; Member;
- Co-supervisor Charles Sturt University PhD project '*How is social justice embedded in Australian water governance institutions?*' (current);
- Ph D examiner for seven Universities;
- Supervisor to completion of twelve Ph D and Masters for ten Universities;
- TAFE accreditation program for salinity education (chair of panel; NSW Department of Primary Industries);
- CSIRO Task Group on Relationship Management with Tertiary Education Institutions;

Recent research grants and consultancies:**2009**

- DEWHA member of expert panel to review the *National Water Knowledge and Research Strategy* (October 2009 continuing);
- National Water Commission. *Costs and Benefits of Pulsing Flows in Rivers* (with the Institute for Land Water and Society, Charles Sturt University);
- EH Graham Centre, Charles Sturt University. *Stubble Farming and Ecosystem Services: Effects on Water Quality and Quantity Downstream*. Research Fellowship, 2009, (monograph and two papers in preparation);
- Wentworth Group of Independent Scientists: advice on environmental water needs across the Murray- Darling Basin;
- NSW Natural Resources Commission, *Our landscapes our futures*. Workshop and consultancy, July 2009.

2008

- Institute for Land Water and Society Research Fellowship; Guest editor for *Rural Society*.

2007

- James Cook University Townsville *Review of Australian Centre for Tropical Freshwater Research*, November 2007;
- Land & Water Australia. Environmental Water Allocations and their Governance for *Delivering the National Water Initiative* Conference held at Parliament House December 2006;
- Ord Irrigation Co-operative and National Action Plan, April 2007, Plant Biomass Management (with G R Sainty and Associates).

2006

- NSW Natural Resources Advisory Council, Overview and Strategic Evaluation of the National Water Initiative, June 2006;
- CRC for Irrigation Futures Third Year Review of Performance and Progress (chair of panel, for DEST);
- Independent peer review of Macro Water Sharing Planning, NSW Department of Natural Resources (panel chair), August 2006.

Publications:

- Two patents, six book chapters, over 90 refereed publications and over 60 technical and consulting reports. (see full cv for details). Publications over last five years are listed below.

Refereed journals:

- Bowmer, Kathleen H. (2008). Water and Gender. Guest Editorial. *Rural Society*: 18 (3) 147-149.

Consultancy reports:

- Tan, Poh-Ling, Whelan J., Baldwin, Claudia. Bowmer, Kathleen H., Jackson, Sue, Mackenzie, J., White, I., George, D., and Mooney, Carla. (2009). Water Planning Tools. Draft National Water Planning Guidelines. Milestone 2 Report to National Water Commission, April 2009, 24pp.
- Tan, Poh-Ling, Whelan J., Mackenzie, J., Bowmer Kathleen H., Baldwin, Claudia; Jackson, Sue; Mooney, Carla; White, I., and Ayre, Margaret. (2009). Water Planning Tools. Initial Fit for Purpose Framework. Milestone 2 Report to National Water Commission, April 2009, 27pp.

- Watts, R.J., Allan, C., Bowmer, Kathleen H., Page, K.J., Ryder, D.S., and Wilson, A.L. (2009) Pulsed Flows: a review of environmental costs and benefits and best practice, Waterlines Report, National Water Commission, Canberra.
<http://www.nwc.gov.au/www/html/2376-pulsed-flows---no-16.asp?intSiteID=1>)
- Fishburn, G., Hillman, T., Bowmer, Kathleen H., Stuart, I. and Parmenter, M. (2008). *Lake Brewster Water Efficiency Project. Independent Review*. Prepared for the Lachlan Catchment Management Authority. Parsons Brinkerhoff: Sydney.
- Bowmer, Kathleen H. (chair), Malcolm, D., Fenemor, A. and Green, D. H. (2006), Third year review of performance and progress: report of the independent panel to the Board 42 pp.
- Bowmer, Kathleen H., Bennett, J., Hillman, T. and Flett, D. W. (2006). *Peer review of the NSW Macro Water Sharing Planning Approach*, Report to the NSW Department of Natural Resources, 14 August 2006, 54pp.

Refereed conference proceedings:

- Bowmer, Kathleen H. (2007) Water and conflict resolution: from smoke-filled rooms to public participation. In Wilson, A. L., Dehaan, R. L., Watts, R. J., Page, K. J., Bowmer, Kathleen H., and Curtis, A. (Eds). *Australian Rivers: making a difference. Proceedings of the 5th Australian Stream Management Conference* 21-25 May 2007, Thurgoona, New South Wales, pp.25-30.
[http://www.csu.edu.au/research/ilws/news/events/5asm/docs/proceedings/Bowmer_Kathleen_25.pdf]
- Bowmer, Kathleen H., Eberbach, P. E., Murphy, T. and Harris, E. (2007) Science to support water sharing planning in New South Wales, In Wilson, A. L., Dehaan, R. L., Watts, R. J., Page, K. J., Bowmer, Kathleen H., and Curtis, A. (Eds). *Australian Rivers: making a difference. Proceedings of the 5th Australian Stream Management Conference* 21-25 May 2007, Thurgoona, New South Wales, pp.31-36.
[http://www.csu.edu.au/research/ilws/news/events/5asm/docs/proceedings/Bowmer_Kathleen_31.pdf]
- Bowmer, Kathleen H. (2003) Look after the land and the rivers: Reflections on water sharing. *28th International Hydrology and Water Resources Symposium*, 10 - 14 Nov 2003, Wollongong. The Institution of Engineers, Australia, Keynote Papers, pp 26 – 33.
- Bowmer, Kathleen H. (2003) Learning from existing practice. Reflections on developing a water sharing plan. In Wilson, B. P. and Curtis, A. (Eds), *Agriculture for the Australian Environment. Proceedings of the 2002 Fenner Conference*. Johnstone Centre, Charles Sturt University, Albury, pp 201 - 222.

Books and book chapters:

- Gardner, A. and Bowmer, Kathleen H. (2007) Environmental water allocations and their governance. Chapter 4. In (Hussey, K. and Dovers, S. Eds.) *Managing Water in Australia: The Social and Institutional Challenges*. Melbourne:CSIRO Publishing pp. 43-57.
- Bowmer, Kathleen H. and Davis, R. (2004) Managing Australian water for the future. In *Water Innovation: A New Era for Australia*. Sydney: CL Creations, chapter 1, pp 12 -43.
- Williams, J., Bowmer, Kathleen H. and Gascoigne, H. (2004). Healthy rivers and catchments. In *Water Innovation: A New Era for Australia*. Sydney: CL Creations, chapter 3, pp 80 - 103.

- Meyer, W. S .and Bowmer, Kathleen H. (2004). Sustainable irrigation. In *Water Innovation: A New Era for Australia*, Sydney: CL Creations, chapter 4, pp 104 - 125.
- Bowmer, Kathleen H. (1999). Water: quantity and quality. Chapter 3. In Pratley J E and Robertson A I (Eds), *Agriculture and the Environmental Imperative*. Melbourne: CSIRO Publishing, Melbourne. pp 36 - 39.

Policy and strategy:

- Bowmer, Kathleen H. (2005). Invited response to a position paper 'Sustainable Options for an Urban Water Supply' by Professor Nancy Millis for the JointNational Academies' Internt Forum on Sustainability Assessment (September 2005), 7pp.
- Murrumbidgee River Management Committee (2002) Draft Water Sharing Plan for the Murrumbidgee Regulated Water Source. Minister for Fair Trading and Minister for Land and Water Conservation New South Wales, 64pp +App.
- Chartres, C., Bowmer, Kathleen H., and Stewart, B. (2004). Science advice on natural resource management:. A report to the Natural Resource Management Ministerial Council, CSIRO and Bureau of Meteorology. 66 pp.