



## Robert WRAY

Position:	Honorary Fellow	
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### Research Interests

Robert Wray is an earth scientist with interests in geomorphology, particularly of sandstones. He is very interested in solutional weathering and karstic landforms and processes, especially those on quartzose rocks. His other interests include pseudokarst landforms, long-term landscape evolution, and fluvial processes.

- Geomorphology of sandstone landforms, landscapes and landform processes, and particularly the effects of solutional weathering of quartzose sandstones.
- Karst processes and landforms on both carbonate and quartzose lithology.
- Human impacts and management of karst terrains.
- Long-term landscape evolution of the Sydney Region and NSW South Coast, and the geomorphology of central Queensland sandstones, and the Namoi River floodplain of northern NSW.

### Representative Publications

Hamilton-Smith, E., Houshold, I, Grimes, K., Osborne, A., Spate, A., Webb, J., and Wray, R.A.L., (*in prep*), National Framework for Pseudokarst Values Workshop Report, Department of Environment and Water Resources, Canberra.

Young, R.W., Young, A.R.M., and Wray, R.A.L., (*in prep*), Sandstone Landforms, Cambridge University Press.

Doerr, S., and Wray, R.A.L., 2004, *Pseudokarst*, entry in Goudie, A., *ed.*, Encyclopaedia of Geomorphology, Routledge



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Young, R.W., Young, A.R.M., Price, D.M., and Wray, R.A.L., 2002, Geomorphology of the Namoi alluvial plain, northwestern New South Wales, *Australian Journal of Earth Sciences*, Vol. 49, pp.509–523

Young, R.W., and Wray, R.A.L., 2000, Contribution to the Theory of Scarpland Development from Observations in Central Queensland, Australia, *The Journal of Geology*, Vol.108, pp. 705–719.

Morrison, R.J., Wray, R.A.L., Dever, S., and Dunstan, L, 2000, Workshop on Waste Management for Developing Countries, 11th – 14th September 2000, Environmental Science, University of Wollongong, Environmental Science, University of Wollongong.

Young, R.W., and Wray, R.A.L., 2000, The Geomorphology of Sandstones in the Sydney Region, Hydrology, in McNally, G.H., and Franklin, B.J., (Eds.), Sandstone City: Sydney's Dimension Stone and other sandstone geomaterials, Monograph No.5 Environmental, Engineering and Hydrogeology Specialist Group, Geological Society of Australia, pp55–73.

Wray, R.A.L., 1999, Opal and chalcedony speleothems on quartz sandstones in the Sydney region, southeastern Australia, *Australian Journal of Earth Sciences*, Vol. 46 No.4, pp.623–632.

Wray, R.A.L., 1997, A Global Review of Solutional Weathering Forms on Quartz Sandstone, *Earth Science Reviews*, Vol. 42. pp. 137–160.

[Searchable Publications](#)

## Current Students

Nil

## Suggested Topics for Future Students

Nil

## Abbreviated CV

PhD (University of Wollongong), BSc(Hons 1), GDipSci, BCom