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DEPARTMENT OF CIVIL ENGINEERING
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Integrated Modelling and Decision Support for Water Resource Management

by

Prof. Tony Jakeman
Australian National University

Date: October 5, 2018 (Friday)
Time: 4:00 pm - 5:00 pm
Venue: Room 6-12B, Haking Wong Building, HKU

ABSTRACT

Water resource problems tend to be wicked ones where issues are complex and contested, and uncertainty is pervasive. This talk will begin with an illustration of key water resource issues in Australia and discussion of the top-down policy environment, known as the National Water Initiative, instituted in 2004 to deal with it. It will then go on to talk about the features of complementary bottom-up approaches based on modelling and engagement with stakeholders. Experiences with several modelling paradigms will be presented as case studies involving social, economic and ecological components. Some of the major lessons will be indicated.

ABOUT THE SPEAKER

Tony Jakeman is Professor, Fenner School of Environment and Society, and Director of the Integrated Catchment Assessment and Management Centre, The Australian National University. He leads the integration program in Australia's National Centre for Groundwater. Interests include integrated assessment methods and decision support systems for water and associated land resource problems, including modelling and management of water supply and quality problems in relation to climate, land use and policy changes and their effects on biophysical and socioeconomic outcomes.

He has held visiting positions at Stanford, Cambridge and Lancaster Universities, CSIRO, Cemagref/IRSTEA in France and the US Geological Survey. Scientific and organisational activities include: Honorary Editor-in-Chief, Environmental Modelling and Software (Elsevier); Foundation President, International Environmental Modelling and Software Society (2000-2006) and elected Fellow (2004); Past President and Fellow, Modelling and Simulation Society of Australia and New Zealand, Inc.; Vice-President, International Association for Mathematics and Computers in Simulation. He is a Fellow of the American Geophysical Union and a Clarivate Highly cited Researcher.

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