



**Southern Cross  
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Presentation to CALC Workshop  
10<sup>th</sup> February 2011

Prof Bill Boyd



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Innovations Research Centre, Southern  
Cross University



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# About the Research Centre

## \* Aims:

- \* Understanding environmental and human behavior w.r.t environmental and natural resource management
- \* Application to contemporary environmental and natural resource management, policy development and practice
- \* Interface between environmental science, social science, environmental management and public policy
- \* Regional, national and international



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# Foundation

## Grand Challenges in Global Sustainability Research:

A Systems Approach to  
Research Priorities for the Decade



**ICSU**

International Council for Science

Pre-publication version



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June 2010





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# The Grand Challenge

- \* “Science needs to deliver useful and reliable information that will directly and effectively inform and support the responses and actions of decision-makers and citizens in all regions of the world.”
- \* The five Grand Challenges in Global Sustainability Research

## ■ The Grand Challenges in Global Sustainability Research

- Challenge 1: Forecasting.....
- Challenge 2: Observations.....
- Challenge 3: Thresholds.....
- Challenge 4: Responses.....
- Challenge 5: Innovation.....



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# The SCU response: Environmental Innovations

- \* Multi- and cross-disciplinary research team
  - \* Broad-based experience and expertise
  - \* Capacity to merge disciplinary expertise
  - \* Capacity to work across disciplines
- \* Apply integrated environmental science and social science to socio-environmental needs



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# The web site

\* <http://www.scu.edu.au/enviro-innovations/>

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Southern Cross Environmental Innovations Research Centre

Riparian restoration on the Wilsons River

Southern Cross Environmental Innovations Research Centre

Southern Cross Environmental Innovations is a newly formed research centre engaging academics from across the sciences and humanities to produce research designed to address the urgent environmental management needs of the 21st Century.

About the Centre

Events

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Research Themes

Water Resources and Coastal Management

Forests, Plants and People

Geoinformatics and Decision Support Systems

People, Policy and Governance

Ecology and Biodiversity

Landscapes, Sustainability and Climate Change

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[www.scu.edu.au/environno-innovations/](http://www.scu.edu.au/environno-innovations/)

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# Research themes

- \* Water Resources and Coastal Management
- \* Forests, Plants and People
- \* Geoinformatics and Decision Support Systems
- \* People, Policy and Governance
- \* Ecology and Biodiversity
- \* Landscapes, Sustainability and Climate Change



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# The Researchers

\* <http://www.scu.edu.au/en-viro-innovations/index.php/>

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1. Aquatic survey, 2. Subtropical Rainforest, 3. Mine site rehabilitation, 4. Border Ranges World Heritage Area

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Researchers

19 Researchers  
17 Research Papers

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# Publications

\* [http://epubs.scu.edu.au/eirc\\_pubs/](http://epubs.scu.edu.au/eirc_pubs/)

\* [Over 200 papers since 2006](#)



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Southern Cross Environmental Innovations Research Papers | Southern Environmental Innovations Research Centre | Southern Cross University 9/02/11 2:30 PM

## ePublications@SCU

### SOUTHERN CROSS ENVIRONMENTAL INNOVATIONS RESEARCH PAPERS <sup>1</sup>

#### **Papers from 2011**

Bridging the gap from skills assessment and problem-based learning: lessons from the coalface of scholarly engagement with curriculum development <sup>2</sup>, William E. Boyd

Customer response to carbon labelling of groceries <sup>3</sup>, Jerome K. Vanclay, John Shortiss, Scott Aulsebrook, Angus M. Gillespie, Ben C. Howell, Rhoda Johanni, Michael J. Maher, Kelly M. Mitchell, Mark D. Stewart, and Jim Yates

#### **Papers from 2010**

A combined phase I and II open label study on the effects of a seaweed extract nutrient complex on osteoarthritis <sup>4</sup>, Stephen P. Myers, Joan O'Connor, J Helen Fitton, Lyndon O. Brooks, Margaret I. Rolfe, Paul A. Connellan, Hans Wohlmuth, Phillip A. Cheras, and Carol A. Morris

Activating the teaching-research nexus in smaller universities: case studies highlighting diversity of practice <sup>5</sup>, William E. Boyd, Meg O'Reilly, Daniel J. Bucher, Kath Fisher, Anja Morton, Peter Lynton Harrison, Elaine Nuske, Rebecca Coyle, and Karyn Rendall

A forced titration study of the antioxidant and immunomodulatory effects of Ambrotose AO supplement <sup>6</sup>, Stephen P. Myers, Lesley M. Stevenson, Phillip A. Cheras, Joan M. O'Connor, Lyndon O. Brooks, Margeret I. Rolfe, Paul A. Connellan, and Carol A. Morris

A workshop and software package to reduce environmental and financial impacts – StockPlan <sup>7</sup>, M.J. McPhee, Michael B. Whelan, B.L. Davies, G.P. Meaker, P. Graham, and P.M. Carberry

Direct male parental care observed in wild sugar gliders <sup>8</sup>, Ross L. Goldingay

Engaging complex geographical issues: An evaluation of mind mapping as an interactive learning tool <sup>9</sup>



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# Conference coming up

2011-2021 Strategic challenges for  
environmental management in the 21<sup>st</sup>  
century - environment, society, integration

Researchers, policy developers and decision makers

- \* Identify strategic needs and challenges of Australian environmental management over the next decade.
- \* Contribute to developing an integrated socio-environmental research agenda 2001-2021.

\*Lismore, June 2011



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