



UNSW Research Showcase
Climate Change and Environmental Sustainability Program
18 & 19 May 2009

Monday, 18 May 2009

8.30 am: Welcome & Introduction – Professor Les Field, Deputy Vice Chancellor (Research)

Time	Presenter	School/Centre	Presentation Title
Session 1: Climate Science		CHAIR: Steven Sherwood	
9.00 am	Matthew McCabe	Civil and Environmental Engineering	<i>Remote sensing based observations for improved Earth system understanding</i>
9.10 am	Fiona Johnson	Civil and Environmental Engineering	<i>How dry is it going to be? Correcting GCM rainfall across Australia for future drought predictions.</i>
9.20 am	Andy Pitman	Climate Change Research Centre	<i>Overview of research at the Climate Change Research Centre</i>
9.30 am <i>Open Forum: Questions and discussion</i>			
9.45 am	Matthew England	Climate Change Research Centre	<i>Trends in Southern Hemisphere climate variability and impacts on Australian rainfall</i>
9.55 am	Steven Phipps	Climate Change Research Centre	<i>Understanding the link between El Niño and global climate change</i>



10.05 am	Jason Evans	Climate Change and Research Centre	<i>Regional Climate Modelling of South-East Australia</i>
10.15 am	Gab Abramowitz	Climate Change and Research Centre	<i>Model independence in climate and environmental prediction</i>
10.30 am Open Forum: Questions and discussion			
10.45am Tea Break and posters			
Session 2: Energy Systems and Alternative Technology		CHAIR: Regina Betz	
11.15 am	Mark Diesendorf	Institute of Environmental Studies	<i>The Future of Renewable Electricity in Australia</i>
11.25 am	Christoph Heinzel	Centre for Energy and Environmental Markets	<i>Distorted time preference and structural change in the energy industry</i>
11.35 am	David Leary	Law	<i>Climate change and renewable energy from the sea: the new challenges for international and national environmental law and policy</i>
11.45 Open Forum: Questions and discussion			
12.00 am	Phillia Restiani	Centre for Energy and Environmental Markets	<i>Penalty Design in Emissions Trading Scheme</i>
12.10 pm	Sean Li and Michael Ferry	Material Science and Engineering	<i>Development of Advanced Materials for Green Car Applications</i>
12.15 pm	Kondo-Francois Aguey-Zinsou	Chemical Sciences and Engineering	<i>Nano-Assembled Energy Stores: Designing the First Generation</i>
12.30 Open Forum: Questions and discussion			
1.00 pm Lunch and posters			

Session 3: Greening Industry and New Technology **CHAIR: Rosemary Rayfuse**

2.00 pm	Peter Neal	Cooperative Research Centre for Greenhouse Gas Technologies	<i>Economic comparison of different carbon storage sites</i>
2.10pm	Minh Ho	Petroleum Engineering	<i>Cost of CO2 Capture from Australian Industrial Emissions Sources</i>
2.20 pm	Simit Raval	Mining Engineering, Surveying and Spatial Information Systems, BEES	<i>Advances in Monitoring for Sustainable Mining</i>
2.30 pm <i>Open Forum: Questions and discussion</i>			
2.45 pm	James Dongmin Jang	Sustainable Materials Research & Technology (SMaRT@UNSW)	<i>Emerging Ironmaking Technology for reducing Greenhouse Gas Emissions</i>
2.55 pm	Stuart Dever	Water Research Centre	<i>Reducing landfill gas emissions using microbial methane oxidation</i>
3.05 pm	Elisabetta Magnani and Adeline Tubb	Economics	<i>Green R&D, Technology Spillovers and Market Uncertainty</i>
3.15 pm <i>Open Forum: Questions and discussion</i>			
3.30 pm Tea Break and Posters			



Session 4: Climate Change Adaptation and Environmental Policy CHAIR: John Merson			
4.00 pm	Ron Cox and James Carley	Australian Climate Change Adaptation Research Network for Settlements and Infrastructure, Water Research Laboratory	<i>Adaptive coastal management for climate change – case study Clarence Tasmania</i>
4.10 pm	Alicia Bergonia	Institute of Environmental Studies	<i>NSW Sea Level Rise Policy: Challenges, Needs and Opportunities</i>
4.20 pm	Duncan McDuire-Ra	Social Science and International Studies	<i>Climate Change and the Politics of Environmental Degradation in the Pacific</i>
4.30 pm	Li Wang	Institute of Environmental Studies	<i>Climate Change and Agricultural Sustainability—Case study of Yellow River Basin in China</i>
4.40 pm	David Anning	Biological, Earth and Environmental Sciences	<i>Valuing Sydney beaches to inform the management response to climate change impacts</i>
4.50 pm	<i>Open Forum: Questions and discussion</i>		
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Time	Presenter	School/Centre	Presentation Title
Session 1: Re-envisioning the Built Environment CHAIR: Veena Sahajwalla			
9.00 am	Venny Chandra	Built Environment	<i>Greening users of green campus</i>
9.10 am	Linda Corkery and Ann Quinlan	Built Environment	<i>Speculations on the City of Sydney's Vision for Sustainability: a Research-Teaching Nexus Approach</i>
9.20 am	Martin Loosemore and Venny Chandra	Built Environment	<i>Assessing the adaptive capacity of hospital facilities to cope with climate-related extreme weather events</i>
9:30 am	Darcy Wentworth	Photovoltaics and Renewable Energy	<i>Sustainable Urban Transport</i>
9.40 am	Renu Varshney	Built Environment	<i>Sustainable urban design using Information Technologies: Building Information Modelling and Geographical Information System</i>
9.50 am <i>Open Forum: Questions and discussion</i>			
10.30am Tea Break and posters			



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Session 2: Social and Cultural Impacts of Climate Change			CHAIR: Deo Prasad
11.00 am	Grant McCall	Social Science and International Studies & South Pacific Studies Resource Centre	<i>Rapanui (Easter Island): The real story</i>
11.10 am	Carlyle Thayer	Humanities and Social Sciences (ADFA)	<i>Climate Change and Its Impact on Australia's National Security: Vietnam Case Study</i>
11.20 am	Jennifer Hamilton	English, Media and Performing Arts	<i>Narrating the weather</i>
11.30 <i>Open Forum: Questions and discussion</i>			
11.45 am	Steven Sherwood	Climate Change Research Centre	<i>Humidity and heat stress in future warm climates</i>
11.55 pm	Bin Jalaludin	Public Health and Community Medicine	<i>Effects of bushfires and heatwaves on health</i>
12.05 pm	Cat Kutay	Computer Science and Engineering	<i>Renewable Tamagotchi</i>
12.15 pm	Shamas-ur-Rehman Toor	Built Environment	<i>Leadership for sustainable development</i>
12.25 <i>Open Forum: Questions and discussion</i>			
1.00 pm Lunch and posters			

Session 3: Ecosystems and the Natural World CHAIR: Matthew England

2.00 pm	Michael Short	Civil and Environmental Engineering	<i>Nitrous oxide emissions from marine wastewater disposal—no laughing matter</i>
2.10pm	Alexandra Campbell	Centre for Marine Bio-Innovation, Ecology and Evolution Research Centre	<i>Climate change and emerging disease: bleaching and bacterial infection of a macroalga</i>
2.20 pm	Fan Zhang	Physical, Environmental and Mathematical Sciences, ADFA	<i>Analysing the Socio-economic Benefits of NSW-IMOS</i>
2.30 pm	Wen Wu	Physical, Environmental and Mathematical Sciences, ADFA	<i>Australian Defence Force Activities in Marine Protected Areas: Environmental Management of Shoalwater Bay Training Area</i>

2.40 pm *Open Forum: Questions and discussion*

3.00 pm Tea Break and Posters**Session 4: Ecosystems and the Natural World CHAIR: Paul Brown**

3.30 pm	Mike Archer	Biological, Earth and Environmental Sciences	<i>Drying and dying in ancient Australia: discovering innovative conservation strategies to confront the threats of climate change</i>
3.40 pm	Alex Sen Gupta	Climate Change and Research Centre	<i>Jellyfish, fisheries and climate models</i>
3.50 pm	Daniel Ramp	Biological, Earth and Environmental Sciences	<i>Managing for ecosystem change in the Greater Blue Mountains World Heritage Area</i>
4.00 pm	Ross McMurtrie	Biological, Earth and Environmental Sciences	<i>Optimal function explains plant responses to climate change</i>
4.10 pm	John Triantafilis	Biological, Earth and Environmental Sciences	<i>terraGIS: A web-based natural resource management tool for cotton growing areas</i>

4.20 pm *Open Forum: Questions and discussion*

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