



Australian
National
University

Newsletter

Energy Change Institute and Climate Change Institute

February 2015

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**The CCI community mourns Professor
Michael Raupach**
FAA FTSE (1950-2015)

Professor Raupach was a world-class researcher who was appointed Director of the ANU Climate Change Institute (CCI) in early 2014, after a long and productive career at CSIRO.

He passed away this February after a brief illness. He was 64.

Vice-Chancellor Professor Ian Young AO said Professor Raupach was an eminent climate scientist who made a tremendous contribution to climate research, and to the ANU during his time at the University.

"Mike was a dedicated scientist and wonderful science communicator. He will be deeply missed by his many friends and colleagues both at the ANU and throughout Australia's science community," he said.

In 2014, Mike joined the ANU as the Director of the ANU Climate Change Institute (CCI), which draws together the significant and diverse research efforts from across the ANU.

Former CCI Director Professor Will Steffen led the tributes to Professor Raupach. "Mike was an outstanding scientist, always rigorous and insightful," Professor Steffen said.

"He was brilliant at connecting his science with the policy community and with society generally, always with respect, dignity and thoughtfulness. He was a wonderful human being. We are all going to miss him very much."

Professor Ken Baldwin, Director of the ANU Energy Change Institute and a Deputy Director of the ANU Climate Change Institute, said:

"Mike will always be remembered, not just as one of Australia's preeminent scientists, but also as a supportive and generous colleague, and a great communicator with people everywhere. He made the Institute, the University and the scientific and wider community a much richer and better place."

Professor Michael Roderick, from the Research School of Biology and Research School of Earth Sciences, said Professor Raupach was a man with great knowledge across a range of scientific fields.

"Mike Raupach was a Renaissance man. It is rare for someone to have skills that range from the fundamentals of turbulence, all the way to carbon uptake by vegetation, and more recently, to changes in the global carbon cycle," Dr Roderick said.

"He was using that great intellect in his most recent role as Director of the Climate Change Institute, and he will be sadly missed."

Mike's colleagues at the ANU Climate Change Institute and Energy Change Institute Secretariat recall him not only as being a brilliant scientist, but just as importantly a brilliant

communicator who conveyed scientific facts from the heart. In the office, his dedication to his work inspired everyone. As one colleague said:

“Mike had great enthusiasm for the Institute, and we aim to continue this dedication in memory of him. Mike was just a really nice guy and an absolute pleasure to work for”.

Please find the fuller version of the CCI tribute [here](#).

If you'd like to add a tribute to Professor Michael Raupach, we will continue adding these on our websites. Please email hedda.ransan-cooper@anu.edu.au

Energy Change Institute News

ACT Wind Auction: a Windfall for ANU

One of the winning bidders of the ACT Government's wind energy auction will contribute to energy research and education at the ANU. As part of its successful bid, auction-winning company Windlab will partner with the Energy Change Institute to develop and deliver a new Masters unit in Wind Development for ANU students. Windlab Limited's Coonooer Bridge Wind Farm will produce around 10 per cent of the 200MW that will power the ACT from the wind energy auction. The project aims to help the capital territory meet its ambitious 90 per cent renewable energy target for 2020.

Australian-Indonesia energy change research links strengthened

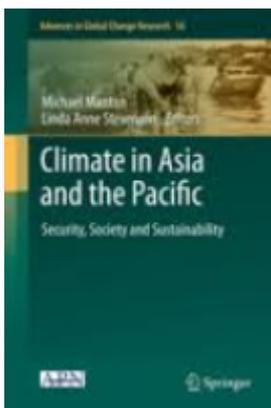
The ECI is leading the Energy Cluster program funded by the Australia-Indonesia Centre (AIC). The Energy Cluster will bring together the energy research capability of ANU, Monash University, University of Melbourne, University of Sydney, CSIRO, and seven Indonesian partner universities. The ECI is tasked with leading the development of the research investment strategy for ~ \$2.2M in Energy Cluster funding schemes which aim to address common issues faced by the Australian and Indonesian energy sectors. The Cluster Investment planning project complements [three small research projects awarded to ECI researchers in 2014](#).



Climate Change Institute News

Work begins on improving resilience and adaptive capacity to climate change in the Hindu Kush-Himalayan (HKH) region

The ANU Climate Change Institute has been awarded a [Public Sector Linkages Program \(PSLP\) project](#) (Australian Aid, DFAT) to develop a climate change adaptation toolkit for Nepal. The aim of this project is to use participatory approaches to identify the risks, vulnerabilities and opportunities arising from climate change impacts on small upstream communities in Nepal and India, and downstream communities in Bangladesh. The project will improve communities' capacity to cope better with risks and vulnerabilities associated with climate change. This work has involved a significant collaboration between ANU researchers and other researchers from the region and Australia.



Climate Change Institute contributes to book publication

A number of ANU authors have contributed to the latest Springer series on Global Change Research entitled "[Climate in Asia and the Pacific: Security, Society and Sustainability](#)". The chapter on "[Climate and Security in Asia and the Pacific \(Food, Water and Energy\)](#)" provides a detailed synopsis on the current status of climate and security in the Asia-Pacific region.

Upcoming events

Seminar: Dr Helen Locher

2 March 2:30-3:30 Innovations Lecture Theatre

Greening of the Hydropower Sector? What Difference does a Voluntary Sustainability Assessment Tool Make?

Public Lecture: Tomasz Chruszczow, Special Envoy for Climate Change, Poland

Details TBC

ANU Energy White Paper Forum

Look out for an event hosted by the ECI to reflect on the Federal Government's Energy White paper, set to be released sometime in April.

Catching up on past events

The ECI has had a busy time in the past few months, hosting and co-hosting a number of high profile events:

ARENA Chair Greg Bourne spoke at the annual Solar Oration sharing his views on the future of renewables from both a technological and commercial perspective. [View](#).

At the OSA Congress of Light, Energy and Environment, Professor Martin Green spoke about the potential of perovskites and other non-conventional Materials ([view](#)) and Professor Steven Chu shared his views the current status and future prospects of photovoltaic and solar thermal energy, as well as biofuels and the conversion of sunlight/electricity to fuel. [View](#).

The annual ECI Energy Update covered a number of themes with many eminent speakers including Ian Cronshaw from the International Energy Agency, Mr Hans Josef-Fell (Former Member of Parliament of the Federal Republic of Germany, architect of the Renewable Energy Act) and Dr Adi Paterson (CEO, Australian Nuclear Science and Technology Organization) among many others. View the sessions on [Nuclear energy](#) and [Energy Investment](#) and Mr Cronshaw's [world energy outlook](#).

Most recently, we had MIT Professor Donald Sadoway speak about the benefits of massive electricity storage and the potential of liquid metal batteries to provide the solution. [View](#).



Professor Steven Chu, former Energy Secretary to President Obama presented at a number of ECI events

Introducing new staff at ECI and CCI

We have recently welcomed new staff members to our team:

Professor Mark Howden is taking on the position of interim director of the Climate Change Institute for six months from February 2015. Prof Howden is an expert in the area of climate change and agriculture and was lead author of the



IPCC report's Chapter 7 on Food Security and on the IPCC Synthesis Report. Mark will be working at CCI for two days a week and will keep working in his ongoing role at CSIRO as a research scientist and providing leadership on climate adaptation and linking this with mitigation and sustainable development. Please see [here](#) for Mark's full bio and publications list.

Dr Mike Smith is leading a collaborative Cambridge University Press book project for CCI and ECI to be published later this year. The book brings 40+ researchers together to provide a "how to manual" to achieve sustainable development, climate change mitigation and adaptation. Mike also leads ANU's contribution to the development of an Energy Productivity Roadmap for Australia in partnership with A2SE and UTS.



Dr Hedda Ransan-Cooper has taken up a full time position with ECI and CCI as research fellow at CCI. She will also be managing communications for both institutes. She completed her PhD at ANU in 2013 on the topic of environmental migration. Her research interests include climate change adaptation and the science-policy interface. Hedda will be going on maternity leave in April 2015. We'll keep you updated with who takes on the role of communications for the remainder of this year.

Dr Geraldine Li has started as a research fellow at CCI and will be working one day a week with Dr Lance Heath on the Asia Pacific Network for Global Change Research project that will develop a climate change adaptation toolkit for Uttarakhand in India. She completed her PhD in 2007 on the topic of climate risk, social policy and public perception. Her research interests include climate change impacts, vulnerability and adaptation and sustainable development.

