

Tom Davies MEIANZ CEnvP



Presentation

Climate Change SIS update

Biography

Chairman and Co-founder of Edge Environment and Edge Ambiental, Chair of the Environment Institute Climate Special Interest Section and Advisory Board Member for The Settlements and Infrastructure node of the National Climate Change Adaptation Research Facility. I am working towards more sustainable and resilient economies with my work on building an industrial ecology network and working towards more resilient built environments. My experience and work is very practical as I work with all sectors of business establishing links for industrial ecology, and all levels of government and industry working on projects related to shaping resilient built environments. My favourite projects are projects where we have created something new/have resolved a problem with an innovative solution that our clients and partners are proud of and derive value from as innovators. Some recent examples of this include: NSW Environment Protection Agency & Sydney Industrial Ecology Network. Over the last year we have worked as a team to establish a network of industrial ecology activity in Sydney. An example of some of our activity is the work with the Better Buildings Partnership to address building deficit waste. We have proven that we can increase the rate of recycling from 20% resource recovery from building deficit to 60% relatively easily and established a target of 80% for the industry. This is one of many examples we have created in Sydney. Ballina Shire Council " Resilient Housing Investigations and Options Study " An Edge team worked with Ballina Shire Council to investigate options for resilient housing in Ballina. Ballina's population will grow significantly over the next decades as Australia's population grows towards 38 Million by 2050. Our project was part of Ballina's Major Regional Centre Strategy and established an adaptive building response for Ballina as an alternative to filling land to address the risk of flooding. The Resilience Program.

We have been working with the Insurance Council of Australia as the main supporters of a Resilience Program designed to drive and shape a more resilient built environment for Australia. We have created web based and Application tools to enable homebuyers to do their own due diligence when buying their homes with regards to the vulnerability of their home to natural hazards. I believe that we can enable a more resilient built environment and commensurately a more resilient Australia by enabling the markets with information; our tools and information will enable this change. I have a Bsc (Hons) in Chemistry from Bristol University in the United Kingdom, and a Master of Environmental Management from UNSW (2006). I came from a career as a British Army Officer and value professionalism. I now contribute to the Environment Institute of Australia and New Zealand because I believe that the Environment and Sustainability Professional is a growing community that requires the same support that our colleagues in planning, architecture, accountancy and law enjoy.

I have a passion for Edge Environment and growing a company with a clear purpose into a new and emerging "implementation" economy. I also love to build things, and am currently on a mission to build 1000 sustainable homes that will ultimately be net positive. I believe that we are in an historic era which will be referred to and compared with the Industrial revolution in history lessons in 200 years time as the most exciting period of ingenuity, industry and growth. I believe the world will carry 10 Billion people and that it is our job to shape a world that can do that in an ecologically sustainable way. I don't have any spare time, I think the concept is unusual. I have a son that I hope will create more time, and I hope to live again vicariously through him.



Environment Institute of
Australia and New Zealand Inc.

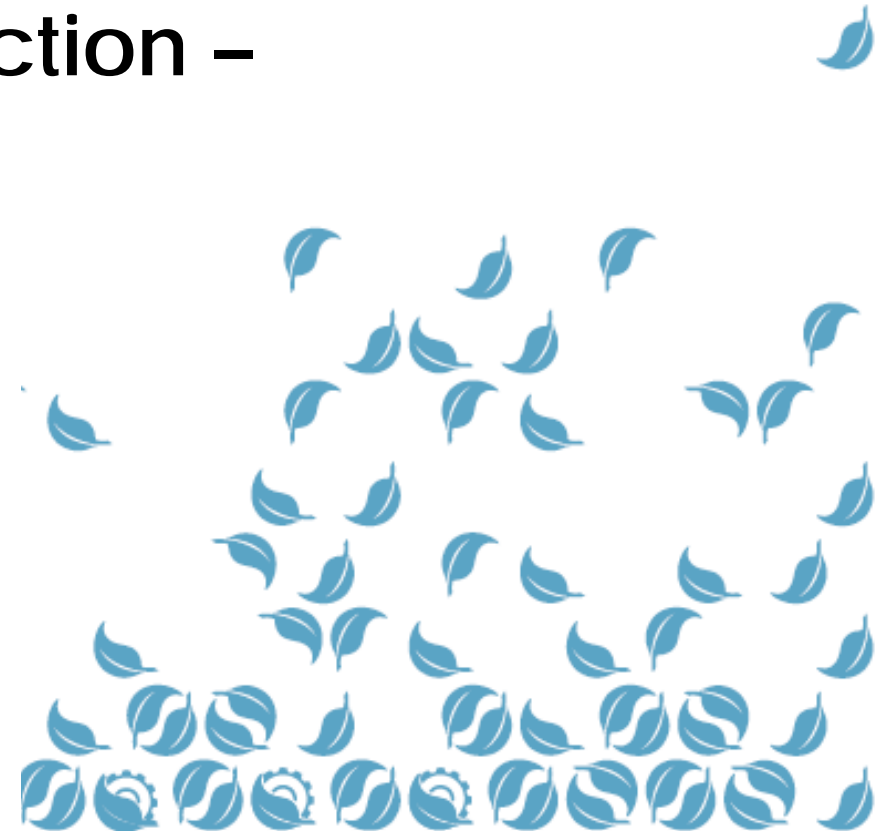
Climate Change Special Interest Section – Professional Development

Foundations for Tomorrow Brisbane 2016

Tom E A Davies

Chair, Climate Change Special Interest Section

EIANZ



Climate Change Special Interest Section

The Foundation

- CCSIS Governance
- Capacity Building
- Certification
- Advocacy
- Communications

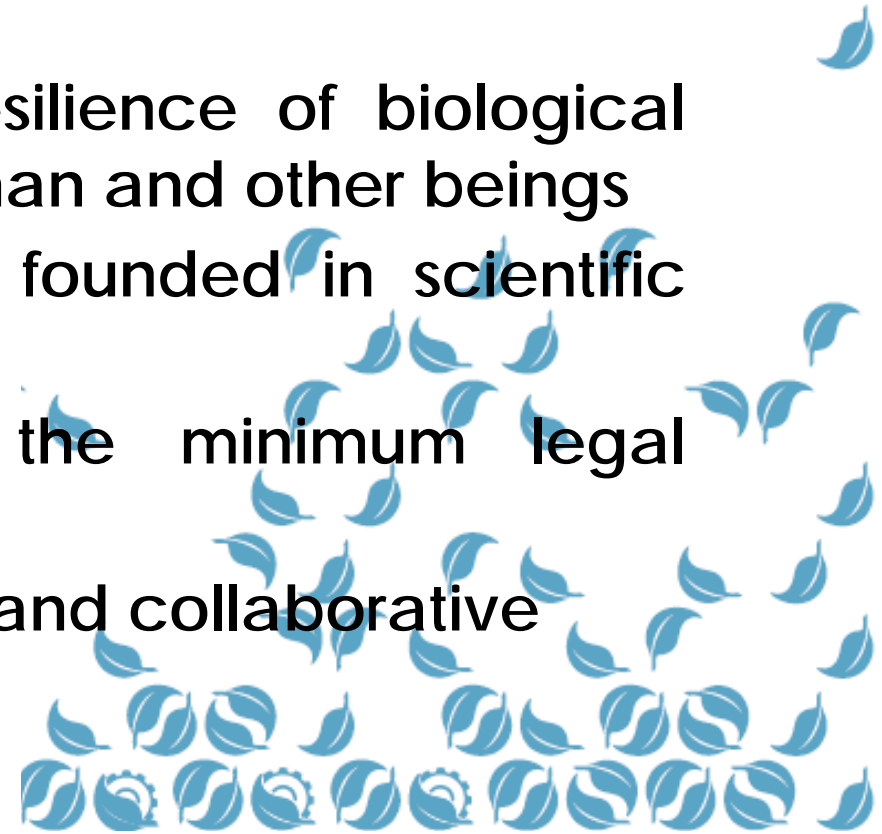
Tomorrow



Vision, Values and Strategy

“Excellence in environmental practice”

- protection and enhancement of the environment for future generations through avoidance and mitigation of harms and adaptation to change
- preference given to the integrity and resilience of biological systems that are essential to sustaining human and other beings
- environmental practice is objective and founded in scientific evidence
- environmental practice goes beyond the minimum legal requirements
- environmental practice is multidisciplinary and collaborative



Purpose

The purposes of a Special Interest Section shall be directed towards:

- (a) the development and promotion of knowledge about specialised areas of environmental practice;
- and (b) the advancement of the professional standing and recognition of specialist environmental practitioners.



Governance

- EIANZ By-law 15
- Chair, Management Committee, 10 other members
- Business Plan, 3 months prior to each financial year
- Report

By-law 15

15. SPECIAL INTEREST SECTIONS

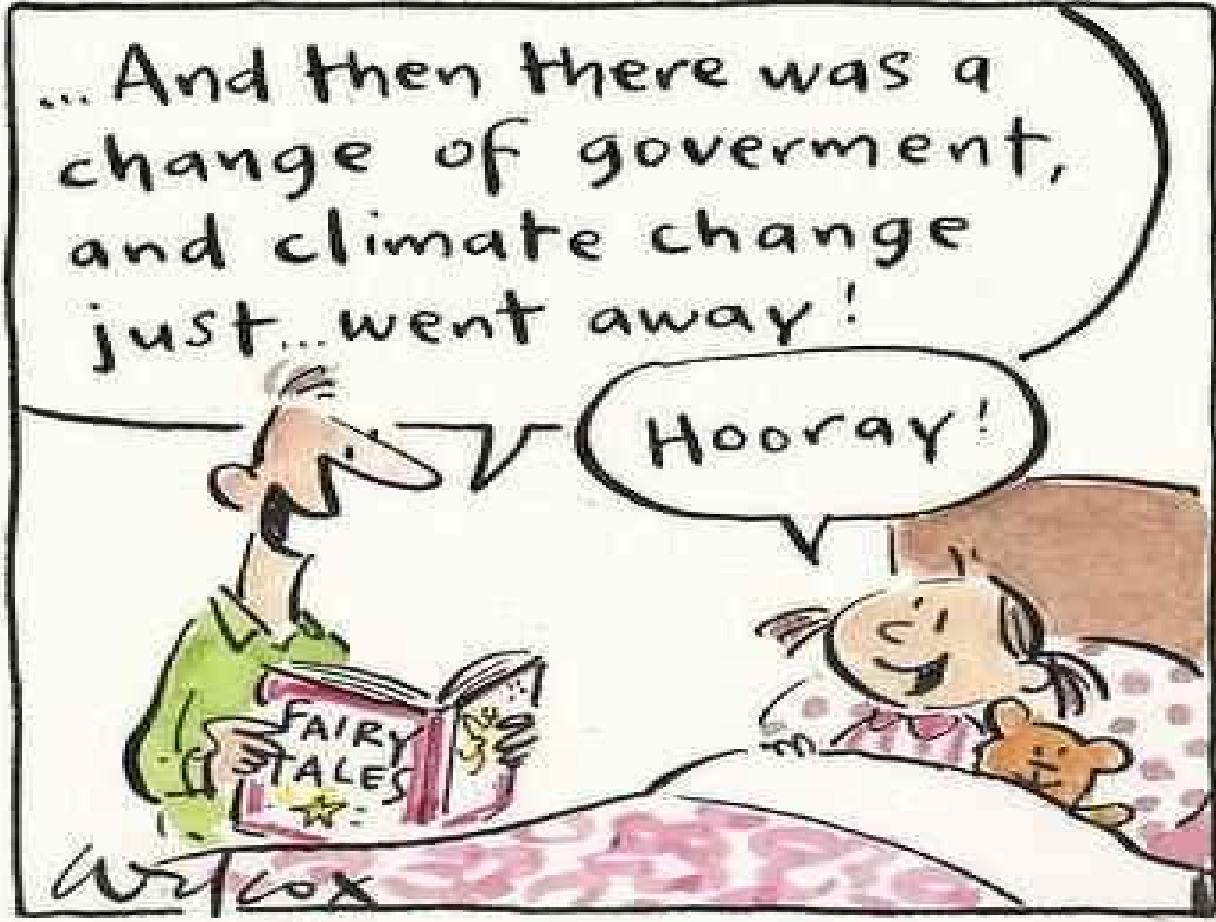
In accordance with Rule 85 of the EIANZ Rules of Association, this By-law is prescribed by the Board of the Association to give better effect to Rule 75; which provides for the establishment by the Board of Special Interest Sections.

15.1 Establishment and Purpose

- (1) The establishment of a Special Interest Section shall be approved by resolution of the Board.
- (2) The purposes of a Special Interest Section shall be directed towards:
 - (a) the development and promotion of knowledge about specialised areas of environmental practice; and
 - (b) the advancement of the professional standing and recognition of specialist environmental practitioners.
- (3) The Board shall only consider a proposal to establish a Special Interest Section where the proposal is accompanied by a business plan that includes as a minimum:
 - (a) a proposed name for the Section;
 - (b) a statement for the Section setting out its proposed purpose, function and activities;
 - (c) a statement of any eligibility criteria that may apply to membership of the Section;
 - (d) the names of a proposed Chair, a management committee, and at least ten (10) other Ordinary or Fellow members of the Institute who have committed, in writing, to actively support and promote the operation of the Special Interest Section;
 - (e) an estimate of the required budget for conducting the activities of the Special Interest Section over its first three (3) years of operation, and proposed sources of revenue to sustain the budget projections.

15.2 Names





CCSIS Business Plan

- Produced in 2010 - Current Version June 2016
- Governance, Capacity Building, Certification, Advocacy, Communications
- Australian Greenhouse office to Department of Environment and Energy (and everything in between)
- To Address CC - Need for consistency and leadership.
- Where we are now:
 - Expanded exec, clear business plan, working groups, a clear direction with momentum



Capacity Building

Develop climate change skills of professionals and practitioners





» Learning to Adapt: **The Climate of the Future**

Professional development on
climate change adaptation for business

30TH APRIL 2010

FRIDAY 8AM - 6PM

UNIVERSITY OF NEW SOUTH WALES SCIENTIA COMPLEX



ENVIRONMENT
INSTITUTE OF
AUSTRALIA AND
NEW ZEALAND

Learning to Adapt The Climate Of the Future



This professional development event will heighten the awareness of business and environmental leaders dealing with climate change, it will identify gaps in understanding and provide the tools and techniques required to help business adapt to the climate of the future. An outstanding line up of speakers and facilitators from across the sciences, the public and the private sector offer you a rare opportunity to get to the forefront of climate change adaptation.

Printed on 100% post consumer recycled stock

foreword »

There are two main categories of human responses to climate change: mitigation and adaptation. Both types of response help to reduce the risks of climate change. As Governments around the world struggle with this 'inconvenient truth', business efforts to reduce emissions show leadership. However, it seems certain that this is not going to be enough - businesses now need to learn to adapt to the climate of the future.

Climate change will affect a broad array of human and natural systems, with consequences for human health, food production, water supplies, and many other areas vital to our economic and social well being. Adaptation consists of actions undertaken to reduce the adverse consequences of climate change, as well as to harness any beneficial opportunities. Adaptation actions aim to reduce the impacts of climate stresses on human and natural systems. Business leaders in built environment, infrastructure and natural resource management will be needed to prepare our society and economy for the climate of the future. To adapt these leaders will need knowledge and support.

NCCARF and the EIANZ recognise a responsibility to prepare environment professionals to help businesses adapt. This professional development event will heighten the awareness of business and environmental leaders dealing with climate change, it will identify gaps in understanding and provide the tools and techniques required to help business adapt to the climate of the future. An outstanding line up of speakers and facilitators from across the sciences, the public and the private sector offer you a rare opportunity to get to the forefront of climate change adaptation.

Tom Davies
EIANZ NSW Division President

Dr. Fabian Sack
Chair Organising Committee

Prof. Ron Cox
Convener ACCARNSI



» sponsors



Environment,
Climate Change
& Water

» Platinum Sponsor DECCW is the lead NSW Government department with responsibility for protecting and caring for our environment, managing water resources and developing and coordinating programs to address the impacts of climate change in NSW. DECCW employs over 4000 staff, many working in regional areas. These staff bring an exceptional range of expertise to DECCW's work, including policy, science, education, regulation, planning, communication, land management and fire fighting. We respect Aboriginal culture, both traditional and contemporary, and the special relationship that Aboriginal people have with Country. We seek to incorporate their knowledge, insights, values and involvement in our efforts to conserve and protect the environment. DECCW works in partnership with people in government, business and the community to develop and deliver sustainable environmental and conservation solutions.



ZURICH

» Gold Breakfast Sponsor ZURICH FINANCIAL SERVICES AUSTRALIA Globally, Zurich is an insurance-based financial services provider with a global network of subsidiaries. Founded in 1872, the Group is headquartered in Zurich, Switzerland. It employs approximately 60,000 people serving customers in more than 170 countries. Zurich Financial Services Australia Ltd (ZFSA) is the only global financial services company operating in Australia in our core lines of business - general insurance, life risk, investment and superannuation products. Today, ZFSA employs over 1000 people and has offices in every Australian state and is headquartered in Sydney. David Smith is the Chief Executive, and Terry Paradine is Chair of the board of directors. Zurich Australian Insurance Limited and Zurich Australia Limited - the organisation's general insurance and life risk arms - both currently have a Standard & Poor's A+ rating for their claims paying ability. This rating reflects a strong capacity to meet claims.

Manidis Roberts

» Gold Plenary Sponsor MANIDIS ROBERTS is a leading Australian consultancy specialising in the challenges of urban growth. For more than 21 years, we have worked successfully with clients on a broad spectrum of environmental and sustainability issues pertaining to government- and private-sector projects. More recently we have been committed to providing our clients with effective solutions for climate change adaptation. A core strength Manidis Roberts brings to the challenges of climate change is our ability to translate science and policy into project delivery. Our approach assists our clients to increase their capacity to adapt to risk, enabling them to make informed decisions in the present, avoid increased operation and maintenance costs in the future, improve their understanding of climate change and its relationship with socio-economic scenarios, and avoid early retirement of their infrastructure and services.



WorleyParsons
resources & energy

» Gold Infrastructure Stream Sponsor WORLEY PARSONS As one of the world's largest global engineering and project delivery firms, WorleyParsons is uniquely positioned to help our clients manage the risks and maximise the opportunities of the emerging low-carbon economy. We believe that in order to develop an effective climate change, carbon management strategy, business will need to draw on and integrate skills from the planning, environmental, engineering, financial and societal disciplines. WorleyParsons provides a broad range of technological, engineering and management solutions to meet this carbon challenge. Each provides a component of a complete carbon management strategy for our clients in the hydrocarbons, power, mining and metals, and infrastructure sectors. Our Carbon Consulting Practice provides the front end solution, underpinned by our strong technical excellence delivering long term profitability for our clients.



VIOCORP
get it out there

» Vodcast Sponsor VIOCORP is Asia Pacific's leading full service Internet broadcasting company. Over the years they have assembled a team of highly skilled experts throughout their key business areas focussing on their Products and Professional Services. Supporting their core product "Viostream", they have a complimentary suite of applications which provide their clients with flexible and affordable solutions for publishing and distributing video and audio content digitally through the web, IPTV platforms and mobile.



Australian Government
Department of Climate Change
and Energy Efficiency

This professional development event is supported by financial assistance from the Australian Government.



Ian Kiernan

» **MC**
Ian was born on the shores of Sydney Harbour and became a builder specialising in historic restorations. Ian is also a passionate yachtsman, and through his passion whilst representing Australia in the ROC challenge, became appalled at the amount of rubbish choking the world's oceans. The rest of the story is familiar; Clean Up Australia was born in 1989 as a simple community based action focused NGO. Ian has since pioneered Clean Up the World, which has now evolved a "Fix Up" aspect. Ian has been well, including the Order of Australia medal, Communicator of the Year by the Public Relations Institute of Australia and a series of awards from UNEP. Ian has been described as a National Living Treasure is now concerned about the need to adapt to the unavoidable consequences of climate change.



David Smith

» **Breakfast Key Note Speaker**
David Smith is Chief Executive of Zurich Financial Services Australia, which has businesses in general insurance, life risk and investment and superannuation products. Mr Smith has been with Zurich since May 2006. He has over 30 years experience and an MBA from the Massachusetts Institute of Technology. He has a passion for corporate responsibility and sustainability and has been a leader in the insurance industry in this area. Previously David was CEO, IAG NZ Limited and President Insurance Council of NZ. David is a Fellow of both the Australian and the New Zealand of Institute of Management.



Andy Pittman

» **Breakfast Panelist**
Andy Pittman is a Professor in climate science and co-director of the Climate Change Research Centre at the UNSW. His expertise is in climate modelling, with broad interests extending across climate change, climate impacts and land cover change. He has been a lead author on the Intergovernmental Panel on Climate Change, national lead of the International Geosphere Biosphere Program, Chair of a major committee of the World Climate Research Program and the convener of the ARC Research Network for Earth System Science. He is a member of the advisory board of Risk Frontiers - an industry funded centre that explores questions of climate, volcanic and hydrological risk for the insurance industry.



Tony Westmore

» **Breakfast Panelist**
Tony Westmore is the Senior Policy Officer - Energy and Climate Change for the Australian Council of Social Service. Tony's work at ACSOSS is focused on issues affecting low income households in the national energy markets, including regulation of retail customer matters, affordability, energy efficiency and amenity, the roll-out of smart meters and climate change and related policy responses. Tony has worked for non-government, not-for-profit organisations for twenty-five years, mostly in legal services, public policy and research.



Amanda McCluskey

» **Breakfast Panelist**
As Head of Sustainability and Responsible Investment Amanda focuses on developing and delivering Colonial First State Global Asset Management's strategy on sustainability and climate change issues. Amanda is the founding Deputy Chair of the Investor Group on Climate Change, a non-executive director of the Great Barrier Reef Foundation and a non-executive director of the Climate Change and Business Centre. Previously Amanda was on Portfolio Partners as Investment Manager Sustainability and has also worked at BT Financial Group as Manager Investment Governance. Amanda has a Bachelor of Economics with Honours in International Relations and is undertaking a Graduate Diploma in Finance Markets and Investments.



Veena Sahajwala

» **Breakfast Moderator**
Scientia Professor Veena Sahajwala is the leader of research into Sustainable Materials as the Director of Sustainable Materials Research & Technology at the UNSW. Veena's research interests are in sustainability of materials and processes with an emphasis on environmental and community benefits. She has invented an environmentally friendly process of recycling plastics and rubber tyres in steelmaking. She has collaborated with Australian companies and overseas companies/institutions. She has published in excess of 190 papers in journals and conference proceedings. She was elected as a Fellow of the Australian Academy of Technological Sciences and Engineering (ATSE) in 2007.



Lisa Corbyn

» **Plenary Platform Speaker**
Ms Lisa Corbyn is the Director General of the NSW Department of Environment, Climate Change and Water. The Department brings together a range of climate change, environmental protection, water resources, coastal, biodiversity, conservation and natural resources agencies and programs, including the National Parks and Wildlife Service, Environment Protection Authority, the Botanic Gardens Trust, the NSW Office of Water. Ms Corbyn has had a varied career as a senior manager in both the public and private sectors in Australia where she has also worked with AWA Limited, the Sydney Water Board and the Department of Planning and was a Commissioner of the Murray Darling Basin Commission. She currently chairs the NSW Climate Change Science Network which advises on science priorities for adaptation to climate change.



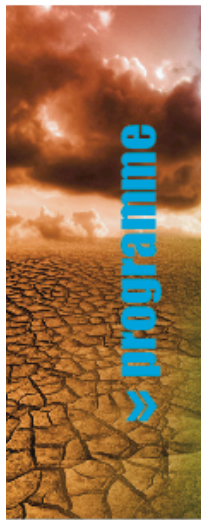
John McAneney

» **Plenary Platform Speaker**
Professor John McAneney is the Director of Risk Frontiers, an independent research centre at Macquarie University. Risk Frontiers helps insurers, reinsurers and their broking intermediaries better understand and price catastrophe risks in the Asia-Pacific region. Risk Frontiers is also increasingly involved in research devoted to emergency management. John's specialist expertise is in quantitative risk assessment and decision analysis. His research background includes environmental physics, weather risk and financial risk modelling. He recently led the NCCARF study assessing the lessons learned from Cyclone Tracy, the engineering and institutional responses it invoked and the relevance of these lessons to a world threatened by global climate change.



Brendon Baker

» **Plenary Platform Speaker**
Brendon Baker is the Acting Director Planning Approvals at Sydney Metro, focused on obtaining the necessary government approvals for the Sydney Metro Network. Brendon joined the NSW Department of Planning in 2004, undertaking independent assessments and compliance roles for major infrastructure, including the Epping to Chalfontwood Rail Link. Brendon moved from a regulatory role to the delivery focused Transport Infrastructure Development Corporation in 2006. In 2007, Brendon began working on the planning for the North West Rail Link. Since joining Sydney Metro 2008, Brendon has been largely focused on obtaining and managing the planning approval for Stage 1 of the Metro Network.



7-45 am	Registrations for breakfast
Executive Breakfast	
8.00 am	MC's opening Ian Kiernan Executive Chairman of Clean Up Australia Ltd Welcome to country - Chicka Madden - Gadigal Aboriginal Elder President's Welcome & Breakfast - Tom Davies President ELANZ NSW
8.30 am	KEYNOTE PRESENTATION: The business case for climate change adaptation David Smith, Chief Executive of Zurich Financial Services Australia
9.00 am	EXPERT PANEL DISCUSSION Moderated by Professor Veena Sahajwala, Director of the UNSW Centre for Sustainable Materials Research & Technology Implications of climate change for our environments Prof Andy Pittman, Co-Director Climate Change Research Centre, UNSW Social implications of climate change Tony Westmore, ACSOSS Senior Policy Officer for Climate Change and Utilities Economic implications of climate change Amanda McCluskey, Head of Sustainability and Responsible Investment Colonial First State Global Asset Management

10.00 am	Registration for plenary and workshop
Plenary Session: The business context for climate change adaptation	
10.30 am	MC's opening comment Ian Kiernan Executive Chairman of Clean Up Australia Ltd
10.35 am	Regulatory context for climate change adaptation Lisa Corbyn, Director-General of NSW Department of Environment, Climate Change and Water
11.15 am	Climate change & property damage – risks for business to adapt Professor John McAneney, Director Risk Frontiers, Macquarie University
11.50 am	Climate change adaptation in business planning Brendon Baker Director – Project Approvals, Sydney Metro
12.30 pm	Chairs closing comments Nick Thomas ELANZ NSW
12.45 pm	LUCH

Workshops	
Stream 1 – Learning to adapt: Natural Resource Management	Chaired by Dr John Williams, NSW Natural Resources Commissioner
Stream 2 – Learning to adapt: Built Environment	Chaired by Dr Peter Graham UNSW and Greg Johnson, National Corporate Responsibility & Sustainability Manager Stocklands Commercial Property
Stream 3 – Learning to adapt: Infrastructure	Chaired by Professor Ron Cox ACCARNIS and Rick Walters, Australian Green Infrastructure Council
1.45 pm	Chairs' introductory comments
2.00 pm	Case studies and issues
2.30pm	Prioritisation of adaption pathways
AFTERNOON TEA	
4.00 pm	Report back on prioritised adaption pathways Moderated by Kath Elliott Canberra Region Manager, Manikis Roberts
4.15 pm	Day's wrap up & thanks Dr. Fabian Saek ELANZ NSW
4.25 pm	Closing remarks Robyn Williams, Science Journalist and broadcaster
DRINKS	
4.45 pm	



John Williams

» **Chair Breakfast Stream 1**
John is one of Australia's most respected scientists, and has led the national debate about sustainable land management. Prior to joining the Natural Resource Commission in 2006, he was Chief Scientist and Chair of the Department of Natural Resources' Science and Information Board and Adjunct Professor in Agriculture and Natural Resource Management at Charles Sturt University. He retired from CSIRO as Chief of Land and Water in 2004. In 2006, he was awarded the prestigious Farrer Memorial Medal for achievement and excellence in agricultural science. John has extensive experience in providing national and international thought leadership in natural resource management, particularly in agriculture production and its environmental impact.



Peter Graham

» **Co-Chair Breakfast Stream 2**
Peter Graham is a senior lecturer in Architecture at the University of New South Wales, Australia, coordinator of the built environment node of NCCARF – Settlements & Infrastructure network and Technical Coordinator for the United Nations Environment Programme's Sustainable Building and Construction Initiative (www.unep.org/sbc). In these roles Peter works closely with the public, civil, research and private sectors to assist the global transition to a sustainable building and construction industry. His PhD focused on sustainable design education in Architecture. He is author of the book "Building Ecology: First Principles for a sustainable built environment" published in 2003 by Blackwell, U.K. which is now available in Mandarin.



Greg Johnson

» **Co-Chair Breakfast Stream 2**
Greg Johnson is the National Environment Manager, Stockholm. With 30 years of experience in the property industry in building services and asset management, Greg has been responsible for the development and implementation of sustainability policy and strategy over the last 8 years, and at Stockland since February 2007. Greg has a comprehensive understanding of the issues of measuring the performance of buildings and the integration of sustainability into operations for existing buildings and in design for new developments. Greg and his team are in the very early stages of determining what climate change adaptation means for Stockland's Commercial Property business in the years to come and how buildings may be made more resilient.



Ron Cox

» **Co-Chair Breakfast Stream 3**
Ron Cox has been associated with the Water Research Laboratory and UNSW for over 35 years. He has a long history of worldwide research in water, coastal and environmental engineering including the early development of Australian Guidelines for Responding to the Effects of Climate Change in Coastal and Ocean Engineering. Ron took up his present position at UNSW in January 2009 as the National Convener for the Federal Government funded Australian Climate Change Adaptation Research Network for Settlements and Infrastructure ACCARNIS. Ron has been a member of the team that has prepared the National (Climate Change) Adaptation Research Plan for Settlements and Infrastructure which is scheduled for release early in 2010.



Rick Walters

» **Co-Chair Breakfast Stream 3**
Rick graduated in science and engineering at Monash University in 1991, worked for Rio Tinto and then Port Kembla Copper, moving into the role of Environment Manager. Along the way, Rick completed an MBA through Deakin University. In 2004 Rick took up the role of Environment Operations Manager on the Lane Cove Tunnel, setting new benchmarks in environmental management of road projects. Two years ago Rick joined Wocley/Parsons, to lead the Sustainability and Climate Change business across NSW, Vic, SA and Tas. Rick has been involved with the Australian Green Infrastructure Council since its inception in 2007. He was a founding Board Director and leads the Product Design and Development Working Group, overseeing the development of a new rating tool for sustainable infrastructure in Australia.



Robyn Williams

» **Closing Speaker**
Science journalist and broadcaster, Robyn Williams, presents Radio National's Science Show, Ockham's Razor and In Conversation. Although he graduated with a Bachelor of Science (Honours) in England, Robyn admits to spending as much time acting as studying. Early in his career he made guest appearances in The Goodies, Monty Python's Flying Circus and Dr Who and studied in for Tom Jones for four months in his TV series. He has conducted countless interviews with scientists on ABC TV on programs such as Quantum and Catalyst, narrated the Nature of Australia series and appeared in World Safari with David Attenborough. Outside the ABC, Robyn has served in various capacities, including President of the Australian Museum Trust, Chairman of the Commission for the Future, and President of the Australian Science Communicators. In 1987, he was proclaimed a National Living Treasure.



Tom Davies

» **Breakfast Chair**
Tom is President of NSW ELANZ and a director of Edge Environment. He holds a Masters in Environmental Management from UNSW, and a BSc in Chemistry from Bristol (UK). Tom left the British Army in 2003 to turn his hand to the environment agenda. Tom founded the Environmental Professionals Forum and has contributed to ELANZ to promote and build the profession. Tom project managed the House of the Future for the Timber industry in 2004, contributed to "Your Home", "Your Development", Residential Mandatory Disclosure for the Federal Government, as well as sitting on advisory committees for Adaptation to Climate Change (NCCARF). Tom is a founding member of Australasian Industrial Ecology Network. As an Eco Diver and surfer Tom understands the need to adapt now.



Nick Thomas

» **Plenary Chair**
Nick Thomas is a highly regarded expert in environment, planning, water, government and climate change law. He has extensive experience in climate change law and policy, renewable energy, green buildings and infrastructure, and the full spectrum of environment, planning and government laws. He has been advising on sustainability issues for almost a decade. Nick works with clients on transactions, assessment and approvals processes, operations and compliance, and incident management. He advises on corporate governance and risk management. He also has a strong background in dispute resolution. Nick's clients include major corporations in the resources, energy, construction, transport, property development, manufacturing and finance sectors, as well as Commonwealth, State and Local government agencies.



Fabian Saek

» **Closing Chair**
Fabian has been a thought leader in corporate responsibility, environmental governance and sustainability over 15 years. He led Sydney Water's sustainability change management program for a decade and also served on their business ethics committee. Fabian has held senior private and public sector roles working on climate change and stakeholder engagement in the infrastructure and energy sectors. He has a PhD in corporate environmental ethics and has contributed to a number of journal articles on ecological footprinting. Fabian is a member of the St Vincent's Human Research Ethics Committee and has been a member of the ELANZ for many years, sitting on the Policy and Practice and NSW Divisional committees.



» Learning to adapt 2: **Australia's future services**

Professional development breakfast
climate change adaptation for infrastructure

16TH NOVEMBER 2010

TUESDAY 8AM - 10AM

L'AQUA, DARLING HARBOUR

PROGRAM LAUNCHED OCTOBER 18TH, 2010.

TO REGISTER EMAIL BENEADIE@LEARNINGTOADAPT.ORG.AU

For more information: www.eianz.org



ENVIRONMENT
INSTITUTE OF
AUSTRALIA AND
NEW ZEALAND



» Learning to adapt 3: Climate Change Adaptation for the Built Environment

23RD JUNE 2011
THURSDAY 8AM - 10.30AM
L' AQUA, DARLING HARBOUR

foreword

Following a very positive response to our November Executive Breakfast seminar - **Learning to Adapt: Australia's future services**, EIANZ NSW division and Australian Climate Change Adaptation Research Network for Settlements and Infrastructure (ACCARN SI) are again partnering to deliver extended professional development on climate change adaptation, this time focused on the Built Environment.

For some time business and Government have been looking for ways to reduce building's contribution to climate change. Now their focus is shifting to adapting the built environment to the emerging realities of a changed climate. **Learning to Adapt 3** will facilitate discussions between leading scientists, engineers, professionals and managers on managing the risks climate change poses to the built environment.

We invite business leaders and Professionals committed to advancing the climate change adaptation agenda to join us for a breakfast event featuring some of Australia's leading thinkers in planning for a sustainable future.

Dr. Fabian Sack
EIANZ NSW Division President

Liz Floyd
Chair Organising Committee

Prof. Ron Cox
UNSW, NCCARF

program

7.30 - 8.00am	Registration
8.00 - 8.15am	Introduction by Dr Fabian Sack - EIANZ NSW President
	Welcome by MC - James O'Loughlin - ABC presenter and Media Personality
8.15 - 8.45am	Keynote address - The Honourable Tom Roper - ASBEC President
8.45 - 9.00 am	Breakfast served
9.00 - 9.10am	Panel Speakers introductions
9.10 - 9.25am	Panel Speaker 1 - Anthony Kiem - Hydroclimatologist Uni of Newcastle - <i>Latest Climate Change Science</i>
9.25 - 9.40am	Panel Speaker 2 - Karl Sullivan - General Manager Risk at Insurance Council of Australia
9.40 - 9.55am	Panel Speaker 3 - Craig Roussac - General Manager - Sustainability, Safety & Environment, Investa
10.00 - 10.30am	Questions from Audience to Panel
10.30 - 11.00am	Optional networking/ coffee



Learning to adapt 4 »
**Climate Change
Adaptation -
Natural Resources**



PROFESSIONAL DEVELOPMENT BREAKFAST

MARCH 21ST, 2012

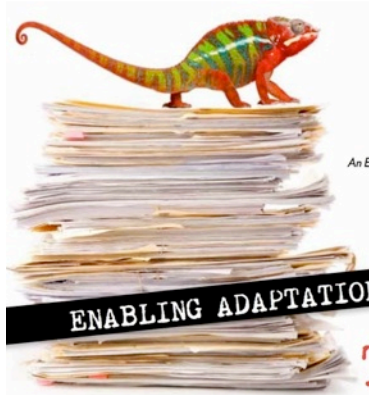
8AM - 10.30AM

L'AQUA, DARLING HARBOUR

REGISTRATIONS OPEN SOON

FOR MORE INFORMATION: nsw.events@ianz.org





An EIANZ New South Wales Event



Environment
Institute of
Australia and
New Zealand

ENABLING ADAPTATION TO CLIMATE CHANGE:

The role of Policy & Regulation

"The scientific advice is that even with a moderate degree of warming in the coming decades, there are serious risks to Australia's water resources, coastal settlements and biodiversity. We cannot afford to delay action on adaptation because decisions we are making today will affect our vulnerability to climate change in the future." (Combat Sep 2011).

The Productivity Commission is currently conducting an inquiry into regulation and policy settings that would enable effective climate change adaptation. The Environment Institute of Australia and New Zealand (EIANZ) continues to run professional development training for environmental practitioners who are contributing to tackling climate change related environmental issues.

EIANZ NSW would like to invite you to a panel discussion to listen and then discuss ideas and points of view as to how we can make our contribution to the adaptation agenda.

PANEL

Nick Thomas, Partner, Clayton Utz: Nick is a highly regarded expert in environment, planning, water, government and climate change law. His clients include major corporations in the energy, resources, construction, property development and finance sectors, as well as commonwealth, state and local government agencies. He was a key member of the NSW Committee of EIANZ for several years, and he is a long-time member of the Governance and Finance Working Group of the Australian Green Infrastructure Council.

Christopher Lee, Manager, Climate Change - Impacts and Adaptation, NSW Office of Environment and Heritage: Chris Lee is the Manager of Climate Change Impacts and Adaptation in the NSW Office of Environment and Heritage. Chris has held a range of positions in government and the university sector, after a stint in publishing he returned to the public sector in 2006. Chris led the NSW Government's regional vulnerability assessment in the South East and is currently developing a project to deliver an adaptation strategy for Sydney.

Karl Sullivan, General Manager - Policy - Risk & Disaster, Insurance Council of Australia: As General Manager Policy of the Risk and Disaster Planning Directorate, Karl is responsible for the facilitation of industry policy and initiatives regarding emerging risks, as well as coordinating the industry's response and partnership with Government following significant disaster events. Karl is leading insurance industry initiatives to build more resilient houses and communities.

Neil Byron, Commissioner, Productivity Commission: Dr Neil Byron has been appointed as a part-time Associate Commissioner to assist with the Commission's inquiry into the regulatory and policy barriers to effective Climate Change Adaptation. Neil is a Director of Earthwatch Australia, a Member of the Independent Science Panel for the Great Barrier Reef, previously a Wentworth Scientist and is an Adjunct Professor in Environmental Economics at the Crawford School of Economics and Government.

The panel will be facilitated by

Tom Davies, Director, Edge Environment, CC SIS EIANZ: Tom has been leading the NSW Environment Institute's "Learning to Adapt" series and is working with Government and Industry on practical measures to enable more resilient communities. Immediate past president of NSW EIANZ, Advisory Council for NCCARF Settlements and Infrastructure node.

VENUE The Board Room, Clayton Utz, 1 Bligh Street

ON Tuesday 29th November 5.30pm - 9pm

The panel discussion will run from 6.00pm - 7.00pm and there will be canapés and drinks served up until 9pm.

COST Members - \$40

Non Members - \$60

Students - \$30

TO REGISTER ONLINE [CLICK HERE](https://eianz3a.eventarc.com/6229) <https://eianz3a.eventarc.com/6229>



LEARNING TO ADAPT 5

18:30 - 19:00

THURSDAY 3 AUGUST 2017
EDINBURGH
UNIVERSITY OF EDINBURGH
19:00 - 19:30

For more information visit www.ed.ac.uk/learning-to-adapt

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Evolution of Partnership with NSW OEH.....L2A 6 - 8

LEARNING TO ADAPT
CLIMATE CHANGE ADAPTATION TRAINING

A partnership between EIANZ NSW Division, the EIANZ Special Interest Section on Climate Change & the NSW Office of Environment and Heritage

Environment Institute of Australia and New Zealand | NSW GOVERNMENT | Office of Environment & Heritage

THREE MODULES

1. Applying the science of climate change impacts
12 March 2014
2. Assessing and managing climate change risks
14 May 2014
3. Applying and communicating climate change adaptation policy and standards
11 June 2014

Supported by  INSTITUTE OF ENVIRONMENTAL STUDIES  ISCA Infrastructure Sustainability Council of Australia

UNSW CBD Campus Level 6, 1 O'Connell Street, SYDNEY

LEARNING TO ADAPT

PARTICIPANT'S GUIDE

Welcome! Thank you for being part of Learning to Adapt Training. We think that innovative, structured professional development is an important response to the challenge that climate change represents for the delivery and management of Australia's Infrastructure.

Conservative estimates put the annual cost of unmitigated climate change on Australia's infrastructure at about \$9 billion in 2020 rising exponentially thereafter. According to a Climate Institute Report in 2012 market signals to encourage smarter management of climate-change related risks are weak or non-existent. Information is fragmented, dispersed and often not accessible. We hope that by participating in this training you can help to change this.

We have structured a course that will allow you and a select group of colleagues to research current best practice, engage with leading practitioners in the field of climate change adaptation for infrastructure and then apply your new found knowledge in the real world. The course is designed to suite different learning styles and to be flexible in the face of your other commitments.

We are sure that you and a network of colleagues will leave this course confident in applying skills that will help steer Australia's infrastructure into the future.

Above all we hope that this learning experience is fun!

A partnership between EIANZ NSW Division, the EIANZ Special Interest Section on Climate Change & the NSW Office of Environment and Heritage

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UNSW CBD Campus Level 6, 1 O'Connell Street, SYDNEY

A National Roll out

Delivered in NSW, Vic,
Queensland and ACT

EXPRESSION OF INTEREST FOR REGIONAL LOCAL GOVERNMENT SCHOLARSHIPS



Environment
Institute of
Australia and
New Zealand



Office of
Environment
& Heritage

A partnership between the Environment Institute of Australia and
New Zealand and the NSW Office of Environment and Heritage

LEARNING TO ADAPT

NATIONAL CLIMATE CHANGE ADAPTATION
PROFESSIONAL DEVELOPMENT PROGRAM 2014

THREE MODULES:

- | | |
|--|------------------|
| 1. Applying the science of climate change impacts | 22 October 2014 |
| 2. Assessing and managing climate change risks | 19 November 2014 |
| 3. Applying and communicating climate change adaptation policy and standards | 10 December 2014 |

LEARNING TO ADAPT is a climate change adaptation professional development program for established environmental professionals delivering practical, hands on skills and knowledge at the postgraduate level.

LEARNING TO ADAPT is run over 3 separate full days of intensive collaborative learning with opportunities to apply your learning with your peers.

LEARNING TO ADAPT is designed by experienced sustainability educators to engage participants in case studies and exercises presented by recognised expert guest speakers in climate change adaptation.

UNSW CBD Campus

Level 6, 1 O'Connell Street, SYDNEY

SUPPORTED BY



INSTITUTE OF
ENVIRONMENTAL
STUDIES



green building council australia

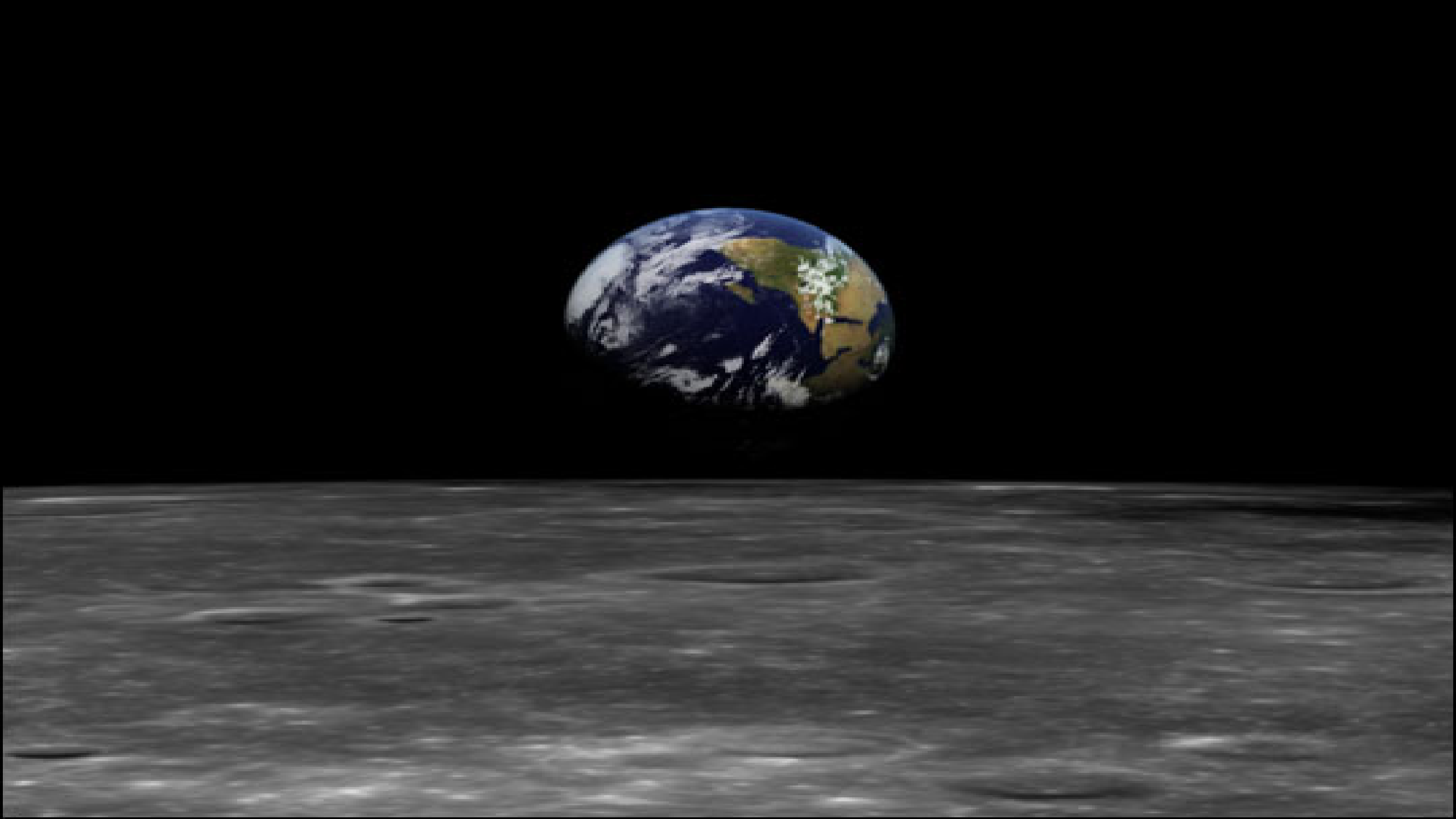


ISCA Infrastructure
Sustainability
Council of Australia

Summary

- L2A developed over 6 years
- Evolved and taught 500+ professionals
- Evolved into 3 x 1 day course
- Developing capacity and knowledge in an era of inaction
- 10+ partners across 5 years
- Linked to a certified Professional development course
- Being delivered Nationally in 2015
- The intent is to continually evolve and support professional practice over next 5 years.





Accreditation/Certification

.....Set up a credible Certification Scheme





opics



Certified Climate Change Practitioner

Certified Environmental Practitioner (CEnvP)

Certification provides a greater level of assurance to the community, employers, clients and professional associates of the credentials and peer recognition of an environmental professional.

CEnvP has been extended to offer a Climate Change practitioner specialty.

Maintaining high quality and ethical outputs of practitioners not only has positive environmental and social outcomes, but can lead to economic gains by enhancing sector effectiveness.

The CEnvP Scheme was established in 2004 as an initiative of EIANZ. It is Australasia's first certification scheme for general environmental practice and has existing Ecology and Impact Assessment specialties.

Creating the CEnvP CC in 2014 is probably a world first in recognition of both Climate Change mitigation and adaptation specialists.

There are
over 500 CEnvPs
across Australia
and New Zealand.

You could be one of the first
specialising in Climate Change

Source: CEnvP as at Oct 2013

Photo by Ian Wiseman, CEnvP

Where has the CEnvP CC specialty come from?

The Certified Environmental Practitioner Scheme is an initiative of the Environment Institute of Australia and New Zealand (EIANZ). Developed in (2003-04) it now recognizes over 500 certified practitioners in General, Impact Assessment and Ecology specialty areas.

The EIANZ's purpose is to:

- facilitate interaction among environmental professionals;
- promote environmental knowledge and awareness; and
- advance ethical and competent environmental practice.

The breath of 'environmental practice' and the complex nature of the industry is logically extended to include a Climate Change specialty



Application Form and Guidance Notes

Visit www.cenvp.org/apply

Application Form



Guideline Notes for Climate Change Specialist Applications



Guidance Notes for Standard Applications



Guidance Notes for Impact Assessment Specialist Applications



Guidance Notes for Ecology Specialist Applications

www.CEnvP.org/apply



Is CEnvP CC and EIANZ a 'Closed Shop'?

It is not necessary to be a member of EIANZ to be a CEnvP CC.

The Scheme is open to all climate change professionals who can meet the requisite competency criteria of training, experience, professional conduct and ethical behaviour.



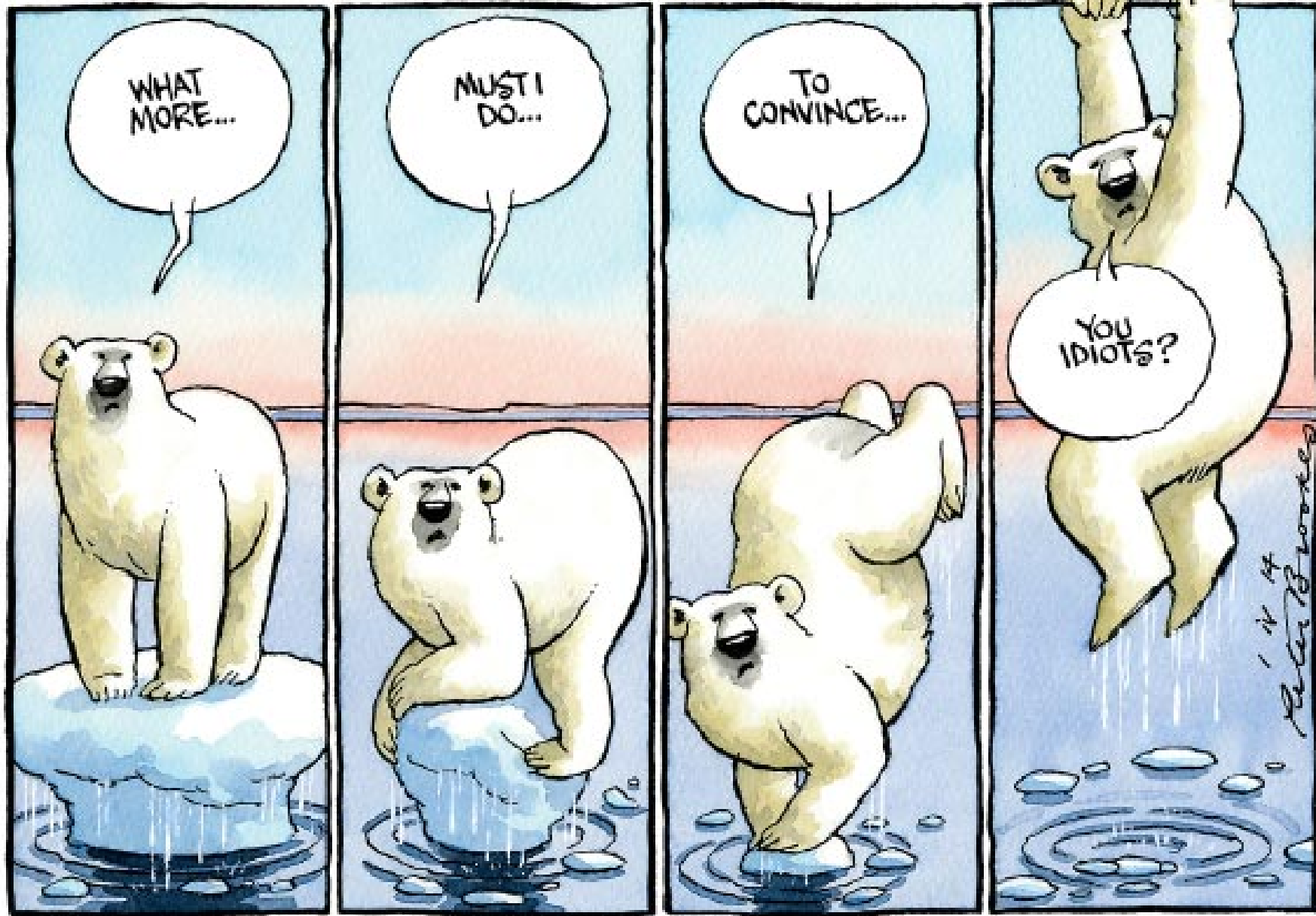
THIS IS THE SOLUTION
WE'VE DEvised FOR DEALING
WITH THE FLOODING CAUSED
BY CLIMATE CHANGE.



Advocacy

Effective climate change advocacy with key decision-makers and professional stakeholders





WHAT MORE...

MUST I DO...

TO CONVINC...

YOU IDIOTS?

14/11
Peter Hooke



Advocacy

- EIANZ CC Position Statement
- Constructively raise the profile of outcomes for Australia's participation in the COPs and other regular meetings
- Targeted Advocacy for CEnvP Certification
- Targeted Advocacy for Learning to Adapt

Call to Action.

- As the peak body for Environmental Professionals, the EIANZ and its members have a central role in informing and advising governments, businesses and civil society about suitable climate change action.

Communications

Improve communication of climate change science, issues and CC SIS business



Communications

- Linked In Group (292 members)
- Conferences, Events
- Targeted comms supporting Advocacy and all objectives in business plan
- Comms working group

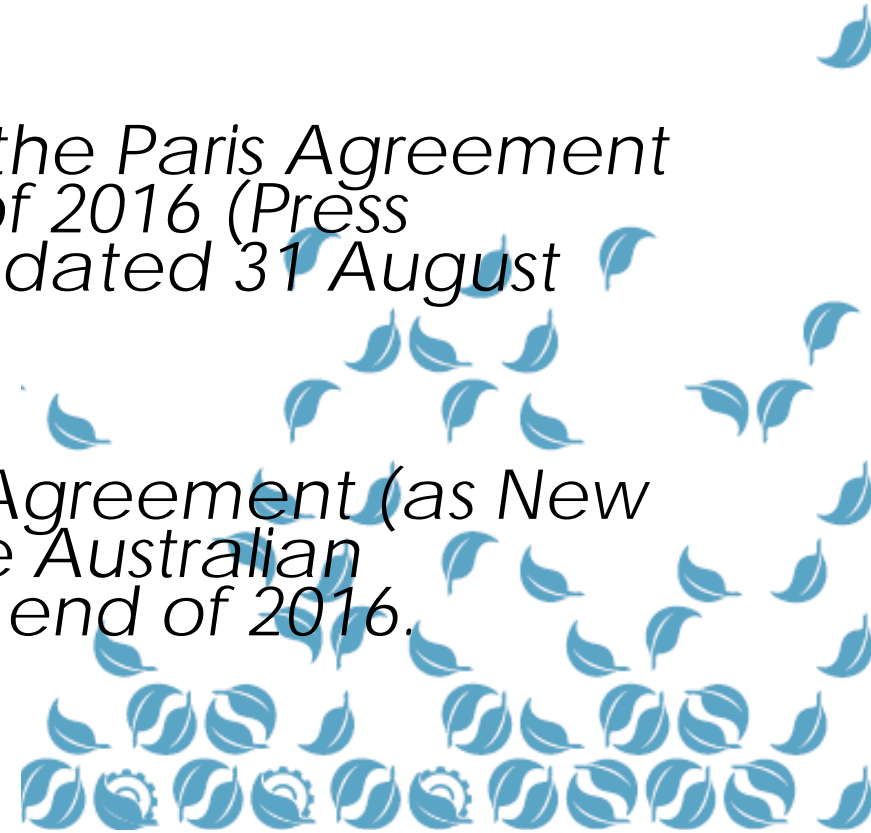


Communications

The Paris Agreement has now been ratified by at least 87 Parties and on 5 October 2016, the threshold for entry into force of the Agreement was achieved. The Paris Agreement will enter into force on 4 November 2016.

The Australian Government has yet to ratify the Paris Agreement but has committed to doing so by the end of 2016 (Press Release by Ministers Bishop and Frydenberg dated 31 August 2016).

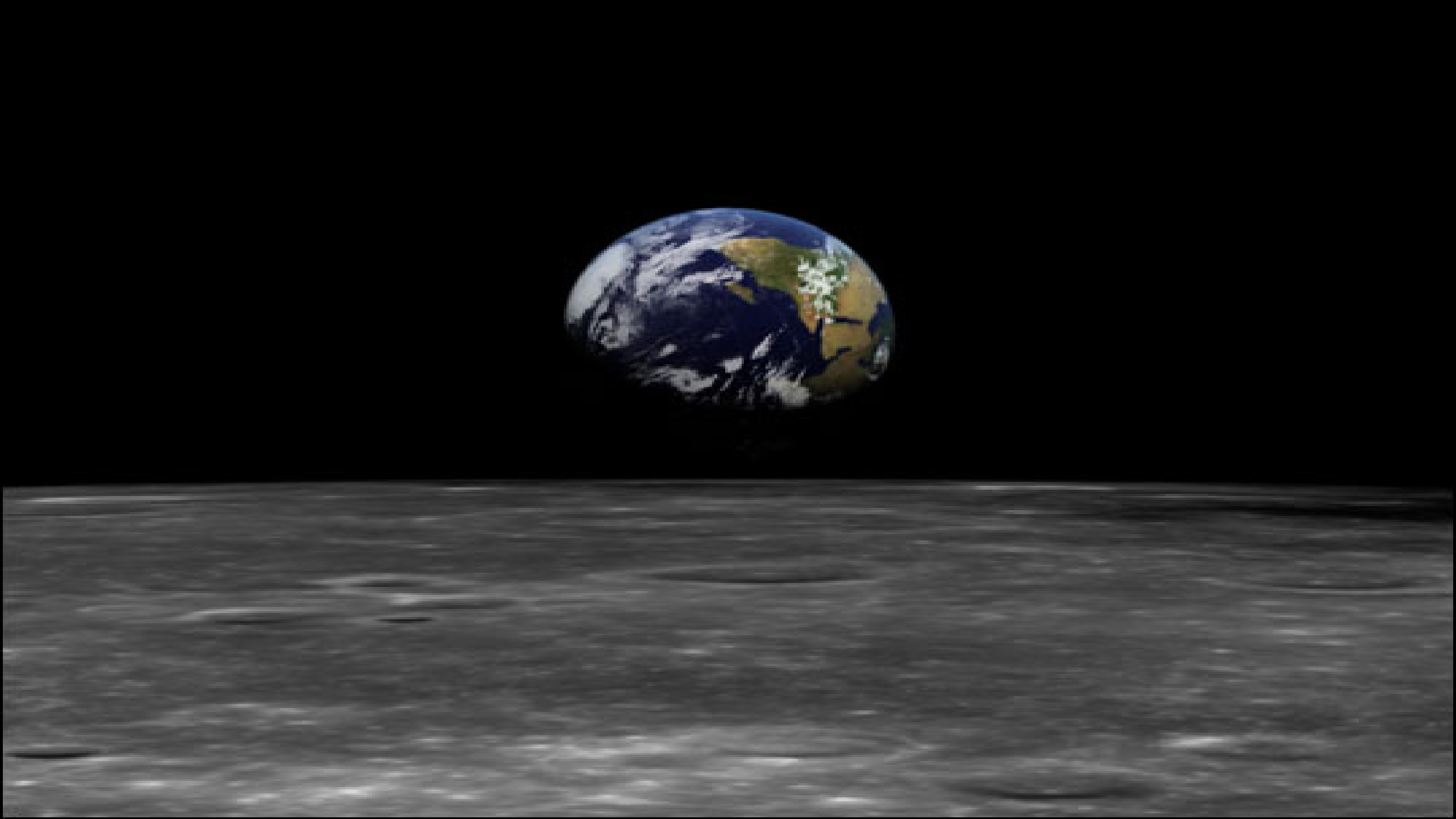
EIANZ supports Australian ratification of the Agreement (as New Zealand has already done so) and urges the Australian Government to ratify the Agreement by the end of 2016.



Foundations for Tomorrow

- We have established a foundation for professionalism in Climate Change practice
- More activity – a larger exec, a growing membership, an expanding Capacity building program, an expanding certification scheme
- More advocacy – more impact.
- Innovation Fund!
- Think Big, Think Long Term





Regulatory Arrangements

- The EIANZ is an incorporated not for profit association under the *Associations Incorporation Reform Act 2012* (Vic)
- It is a registered charity under the *Australian Charities and Not-for-profits Act 2012* (Cwth)
- It operates across Australia under the *Corporations Act 2001* (Cwth) as a Registrable Australian Body
- It operates in New Zealand under the *Companies Act 1993* (NZ) as an Australian entity registered to operate in that country

