



Office of
Environment
& Heritage



Environment Institute of
Australia and New Zealand Inc.

LEARNING TO ADAPT

NATIONAL CLIMATE CHANGE ADAPTATION
PROFESSIONAL DEVELOPMENT PROGRAM



SYDNEY 2016



Infrastructure
Sustainability
Council of Australia



SUPPORTED BY

UNSW
AUSTRALIA



NCCARF

National
Climate Change Adaptation
Research Facility

National Adaptation Network
SETTLEMENTS AND INFRASTRUCTURE



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



LEARNING TO ADAPT: CLIMATE CHANGE ADAPTATION PROFESSIONAL DEVELOPMENT

SYDNEY 2016

As climate change continues to impact Australia's communities, buildings, infrastructure and ecosystems, organisations increasingly need to be on the front foot in incorporating climate variability into their policies and programs. Learning to Adapt is a training program designed to up-skill professionals on climate change adaptation planning and communication, and is run over 3 separate days of intensive collaborative learning. The program builds the necessary skills for climate change adaptation projects, including applying climate change science, assessing and managing climate change risks and implementing and communicating adaptation actions.

The course has been designed by experienced sustainability educators to engage participants in case studies presented by recognised expert guest speakers in climate change science and adaptation. Participants apply their learning by working together to deliver group projects.

Date	Module	Venue	Registration	Start/Finish
17 August 2016	<i>Applying the science of climate change impacts</i>	Room: T2 Level 6 UNSW CBD Campus	8.30am onwards	9am 5pm
14 September 2016	<i>Assessing and managing climate change risks</i>	Room: T3 Level 6 UNSW CBD Campus	8.30am onwards	9am 5pm
19 October 2016	<i>Applying and communicating climate change adaptation action</i>	Room: T7 Level 6 UNSW CBD Campus	8.30am onwards	9am 5pm

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LEARNING TO ADAPT PROGRAMME

SYDNEY 2016

17 AUGUST 2016 – MODULE 1

APPLYING THE SCIENCE OF CLIMATE CHANGE IMPACTS

At end of Module One you will be able to:

- Understand the relevance of climate science to infrastructure by analysing an organisation's interactions with the environment
- Determine the significance of projected climate impacts relevant to infrastructure and express this in a report
- Contribute to an appropriate response for each interaction by determining the applicability of climate projections and expressing this in business documents

Fiona Gainsford – NSW Division President	Welcome from the EIANZ NSW Division
Laura Hamilton – Sydney Fellowship Program Facilitator, Centre for Sustainability Leadership	Leadership in climate change adaptation
Chris Lee – Senior Team Leader, Impacts and Adaptation, Office of Environment & Heritage	Government's role in climate change adaptation
Associate Professor Jamie Pittock – Course Convenor Climate change vulnerability and adaptation, ANU	Back to the basics – what are climate change impacts, vulnerability, adaptive capacity and risks?
Associate Professor Jason Evans – Climate Change Research Centre, UNSW	Climate modelling for NSW – NARCLiM
Professor Ron Cox – School of Civil and Environmental Engineering, UNSW	Responding to the coastal impacts of climate change and the NSW coastal reforms
Using Climate Models – Small Group Exercise	
Polly Mitchell – Senior Program Officer, Office of Environment & Heritage	Case study: The Impacts Program
Group work based project.	



14 SEPTEMBER 2016 – MODULE 2

ASSESSING AND MANAGING CLIMATE CHANGE RISKS

At the end of Module Two you will be able to:

- Assess activities for risks resulting from climate change and develop a prioritised management response
- Lead periodic review of climate change risks, management response and communicate as appropriate
- Facilitate implementation of prioritised management response to climate change risks

Dr Mark Stafford Smith - Chief Coordinating Scientist-Adaptation, CSIRO, Chair Science Committee, Future Earth	Understanding how to address climate change adaptation in planning processes
Ken Lundy - Principal Consultant, Edge Environment Dr. Henrique Togashi - Senior Consultant, Edge Environment	Simulated climate risk assessment workshop
Rohan Hamden - Associate, Climate Risk	Case study: Adapt Infrastructure and the Cross Dependency Initiative
Kirsty Bauer - Case Manager, Infrastructure Sustainability Council of Australia	Case study: Considering climate change adaptation in the ISCA rating tool
Chris Royal - Environmental Specialist, Sydney Trains	Case study: Sydney Trains Climate Change Risk Assessment and Adaptation Masterplan
Progressing the group work based project.	

19 OCTOBER 2016 – MODULE 3

IMPLEMENTING AND COMMUNICATING CLIMATE CHANGE ADAPTATION ACTION

At the end of Module Three you will be able to:

- Develop strategy in response to emerging climate change adaptation policy, industry standards and international best practice
- Communicate climate change adaptation policy and industry compliance requirements to management
- Communicate possible organisational responses to climate change impacts to relevant staff and stakeholders

Group presentations on work based projects.

John Connor – CEO, The Climate Institute	Framing action on climate change
John Cook - Climate Communication Fellow, Global Change Institute, The University of Queensland	Making sense of climate denialists
Emma Herd - CEO, Investor Group on Climate	The business case for climate change adaptation: Valuing risk mitigation
Karl Sullivan - General Manager, Policy Risk and Disaster, Insurance Council of Australia	The business case for climate change adaptation: Pricing climate change risk
Tom Davies – Director, Edge Environment	The business case for climate change adaptation: Implementing and communicating
Group discussion - The business case for climate change adaptation.	
Sharon Pope - Manager, Integrated Planning, Lake Macquarie City Council	Case study: Preparing a community for sea level rise
Group reflection – where to from here?	



ABOUT OUR PARTNERS



Environment Institute of Australia and New Zealand (EIANZ)

The Environment Institute is a leading professional body in Australia and New Zealand for environmental practitioners, and promotes independent and interdisciplinary discourse on environmental issues. On all issues and all projects the Institute advocates best available environmental practices to be delivered by competent and ethical environmental practitioners.

The Institute was formed in 1987 to meet the needs of environmental practitioners. It is a non-profit, politically independent professional association. The Institute is multi-disciplinary in membership and provides scope and opportunity for professional and academic interchanges across all sectors of the diverse environmental industry.

In 2011 interest from members drove the formation of a Special Interest Section on Climate Change, which has developed an EIANZ Climate Change Action Plan addressing:

- Advocacy
- Accreditation/Certification
- Capacity Building
- Communication, and
- Governance.

EIANZ has been a national leader in providing high quality professional development events on climate change adaptation. Since 2010 EIANZ has orchestrated a series of Learning to Adapt conferences that have attracted strong interest from environmental professionals in Government, local government and the consulting industry. Most recently the Institute has led the development of this national program of professional development delivered in Sydney, Melbourne, Brisbane and now in Canberra.



The Office of Environment and Heritage

We're a government agency that protects and conserves the natural environment, Aboriginal country, culture and heritage, and built heritage. Working with the community, OEHS cares for and protects NSW's environment and heritage, which includes the natural environment, Aboriginal country, culture and heritage, and built heritage. OEHS supports the community, business and government in protecting, strengthening and making the most of a healthy environment and economy in NSW.



ABOUT OUR SUPPORTERS



Infrastructure Sustainability Council of Australia

The Infrastructure Sustainability Council of Australia (ISCA) is a member-based not-for-profit public and private industry council. ISCA is the peak industry body for advancing sustainability outcomes in infrastructure.

ISCA specialise in the facilitation and development of industry led performance based integrated triple-bottom-line governance and reporting frameworks, decision tools and rating tools; generating communities of practise throughout the lifecycle from funding, planning, procurement, design and delivery to operations and maintenance.

The means by which ISCA is advancing sustainability outcomes in infrastructure is through the development and facilitation of the IS rating scheme. IS rating scheme is an industry-compiled voluntary sustainability performance rating scheme evaluating planning, design, construction and operation of all infrastructure asset classes in all sectors linking industry, communities and commerce beyond regulatory standards. Since launching in 2012, over \$50 billion in infrastructure and civil works projects or assets across Australia and New Zealand have either been certified or registered for an IS rating. The IS rating scheme is Australia's only comprehensive rating scheme for evaluating sustainability across design, construction and operation of infrastructure.



ACCARNSI, UNSW

The Australian Climate Change Adaptation Research Network for Settlements and Infrastructure (ACCARNSI) is hosted by the School of Civil and Environmental Engineering at the University of New South Wales (UNSW).

ACCARNSI is one of four Adaptation Research Networks hosted by the National Climate Change Adaptation Research Facility (NCCARF), Griffith University as part of their Phase 2 program funded by the Australian Federal Government.

ACCARNSI will continue to initiate and develop effective strategies to respond to climate change through mitigation, adaptation and implementation. Having built a brand base and reputation that is now well known and acknowledged Australia wide, ACCARNSI will bring together researchers and stakeholders with an interest in climate change adaptation for coastal settlements, public and private infrastructure, the built environment and urban and regional planning. Research direction will assist government, the private sector and vulnerable regions and communities to make informed decisions on how best to educate, plan and manage adaptation for the risks of climate change on coastal settlements, urban and regional built environments and infrastructure.



ABOUT OUR PROGRAM



Climate Adaptation Champions for 2015-16

NCCARF recognises that adaptation to climate change is all about the people, the businesses and the governments that do it. Often those who understand that climate change is real, and that something needs to be done about it, receive little or no recognition. Through making these awards, NCCARF seeks to go some way towards demonstrating that adaptation can take place now, can make a difference, and that there are already successful activities being undertaken to address climate change.

In 2016 NCCARF recognised EIANZ by awarding them as Climate Adaptation Champion within the Business Category. This association has been building capacity amongst environmental professionals for more than three decades. With more than 400 participants to date, its Learning to Adapt Program has become the most continuous and longest running course relating to climate change in Australia.



ABOUT OUR FACILITATORS

Sustainably Pty Ltd

Sustainably works with people who are passionate about acting sustainably, often in collaborative partnerships across sectors. Sustainably are specialists in:

- Vocational education and training (VET) sustainability
- Capacity building and training on climate change adaptation
- Technical analysis for sustainability reporting
- Policy analysis for sustainability strategy.

Sustainably delivers by facilitating stakeholder engagement, strategic leadership, collaborative research and innovative training.



Dr Fabian Sack – Strategic Director, Sustainably Pty Ltd

Fabian has been a thought leader in sustainability for over two decades. He led Sydney Water's sustainability change program for ten years and has since held senior private and public sector roles building capacity in the infrastructure and energy sectors.

He currently sits on the Total Environment Centre (TEC) management committee and on the National Climate Change Adaptation Research Facility (NCCARF) project review committee. Fabian sat for 4 years on the St Vincent's Human Research Ethics Committee (HREC) and for 3 years was secretary to the Sydney Water Business Ethics Committee.

Fabian's doctoral research was in corporate environmental ethics. He is an Honorary Associate of the University of Sydney and he has published research on corporate environmental ethics, skills for sustainability, ecological footprinting and social assessment. He leads a range of vocational and professional courses. He is a Fellow and active member of the Environment Institute of Australia and New Zealand (EIANZ) and is recognised as a Certified Sustainability Professional by the International Society of Sustainability Professionals (ISSP).

Contact Fabian@sustainably.net.au

Web www.sustainably.net.au

Tel 0408 600 015



Judy Turnbull – Program Director, Sustainably Pty Ltd

Judy specialises in delivering innovative and transformational projects. She has two decades experience working with key national and international partners from the NGO, public, private and research sectors. Through her long involvement in developing and delivering skills programs for young people, Judy has evolved a passion for skills and sustainability.

After an early foray into the Japanese education and telecommunications sectors, Judy transitioned to the not-for-profit sector. Judy has designed, managed and delivered a series of projects focusing on young peoples' transitions between the world of work and education. Judy has also conceived, designed and managed the implementation of a series of collaborative partnerships, each resulting in programs that continue to thrive today with a progression of partners and supporters. These are Trade Secrets, the Gen Green research series and Green Team.

Judy has been a Director with Sustainably since 2013, has a Bachelor of Arts (ANU), a Graduate Diploma in Employment Relations (UTS) and a Certificate IV Training and Assessment (Sydney Institute of TAFE).

Contact Judy@sustainably.net.au

Web www.sustainably.net.au

Tel 0408 861 394



ABOUT OUR GUEST SPEAKERS



Fiona Gainsford – Principal, Gainsford Consulting and President, EIANZ NSW Division

Fiona Gainsford is the Principal of Gainsford Environmental Consulting, a Certified Environmental Practitioner and Fellow of the Environment Institute of Australia and New Zealand (EIANZ). She has over 20 years' experience in environmental impact assessment, project management, and strategic planning; navigating the often complex route to obtain planning approvals for infrastructure projects in NSW. In the last five years, Fiona has worked extensively with government agencies on major program deliveries. Fiona's work typically involves peer reviews of environmental impact assessments and the provision of strategic advice on a range of planning and environmental aspects. Fiona has been a volunteer member of EIANZ's NSW Division committee since 2009, and she is currently the NSW Division President.



Laura Hamilton – Sydney Fellowship Program Facilitator, Centre for Sustainability Leadership

Laura grew up in the wild spaces of South Africa and cares deeply about land, including the people and animals who live there. She has a life long love affair with learning and has over a decade of facilitation experience across NGOs, SMEs, Corporate and Government sectors. She has a Master's in Education (Social Ecology), as well as, a Bachelor of Commerce (Business Strategy and Law). In addition, she completed the CSL fellowship program in 2013. Laura is genuinely incapable of containing her enthusiasm for helping others learn and delights in supporting them to realise their vision for a fairer, more sustainable future.



Chris Lee – Senior Team Leader Impacts and Adaptation, Regional Operations Group, Office of Environment and Heritage

Chris has Bachelor of Arts (Hons) from the University of NSW, specialising in development economics and a Masters in Environmental Management from Macquarie University. He has a broad background having worked at the Reserve Bank, universities in Australia and Singapore, and his own publishing company. Since 2005 he has worked for the NSW Office of Environment and Heritage in its many forms, firstly as an economist in Economic Services and more recently in climate change policy. Chris leads Climate Change Adaptation program development and delivery in NSW. He has led the development of methodologies and implementation of Integrated Regional Vulnerability Assessments and managed the delivery of regional climate projections for NSW. His team works to build resilience in communities across NSW, as well as developing and delivering climate information and supporting action on adaptation.



Associate Professor Jamie Pittock – Fenner School of Environment and Society, Director of International Programs, UNESCO Chair in Water Economics and Transboundary Water Governance, The Australian National University

Dr Pittock is Associate Professor in the Fenner School of Environment and Society at The Australian National University. He is also Director of International Programs for the UNESCO Chair in Water Economics and Transboundary Water Governance at ANU. Dr Pittock worked for non-government environmental organisations in Australia and internationally from 1989-2007, including as Director of WWF's Global Freshwater Programme from 2001-2007. His research focuses on better governance of the interlinked issues of water management, energy and food supply, responding to climate change and conserving biological diversity. Dr Pittock directs research programs on irrigation and water management in Africa, and on hydropower, food and water in the Mekong region. He is deputy chair of the board of Water Stewardship Australia.



Jason Evans – Associate Professor, Climate Change Research Centre, University of New South Wales

Jason received degrees in mathematics and science from Newcastle University before completing a PhD at ANU in regional climate and hydrology. He spent 6 years as a research scientist at Yale University in the USA, before returning to UNSW Australia where he is currently an Associate Professor in the Climate Change Research Centre. He is co-Chair of the GEWEX Hydroclimate Panel and AustralAsia coordinator for the Coordinated Regional climate Downscaling Experiment, both elements of the World Climate Research Programme. He is an expert in the science of the climate system particularly in regards to land-atmosphere interactions, the water cycle and regional climate change.



Associate Professor Ron Cox – Water Research Laboratory, Civil and Environmental Engineering, University of New South Wales, Convenor ACCARNSI (Australian Climate Change Adaptation Research Network for Settlements and Infrastructure)

Associate Professor Ron Cox has extensive experience in water, environmental and coastal engineering and coastal zone management, working with industry and government, (local, state and federal) both within Australia and overseas. In 2008 Ron received the Engineers Australia Sir John Holland Award for Civil Engineer of the Year, in recognition of his long standing and continuing contribution to the profession and community. Since 2009 Ron has led the Australian Climate Change Adaptation Research Network for Settlements and Infrastructure. He currently sits on the NSW Coastal Expert Panel advising on Coastal Policy Reforms.



Polly Mitchell – Senior Program Officer, Office of Environment and Heritage

Polly Mitchell is a Senior Program Officer in the Office of Environment and Heritage. Her background is in biodiversity conservation, and has been working in climate change impacts and adaptation for the past 6 years. She lead the delivery of the AdaptNSW website and NSW and ACT Regional Climate Model project, and now works to help stakeholders understand and use climate change information.



Dr Mark Stafford Smith – Chief Coordinating Scientist – Adaptation, CSIRO (and Chair, Science Committee, Future Earth)

Dr Mark Stafford Smith is based in Canberra, Australia, and looks after coordinating Adaptation Research across CSIRO. He interacts regularly with national and international policy issues around adaptation. In 2013 he was appointed Chair of the inaugural Science Committee for Future Earth, which aims to help coordinate research towards global sustainability worldwide. By background, he lived in Alice Springs for 20 years and, as a desert systems ecologist and past CEO of the Desert Knowledge Cooperative Research Centre (CRC), focusing on the science of desert living and sustainable management of outback environments.



Ken Lundy – Principal Consultant, Edge Environment

Ken has over a decade of experience in developing and implementing solutions in the environmental and sustainability space. Ken works with clients in the private and public sector and across property, resources, planning and transport infrastructure. His primary interest is in integrated sustainability management and he works with his clients to manage the multiple sustainability issues across their organisation. He has worked on a range of climate change risk and adaptation projects from the development of climate change adaptation plans as part of the local adaptation pathways program to the integration of climate change risk in the management of major property portfolios. Most recently, he has worked on climate change risk and adaptation with Charter Hall, DEXUS Property Group, Brookfield Multiplex, Sydney Light Rail, Sydney Metro Northwest, UTS and WestConnex.

**Dr Henrique Furstenau Togashi – Senior Sustainability Consultant, Edge Environment**

Henrique is a Senior Sustainability Consultant at Edge Environment with over 7 years experience assessing projections of environmental impacts derived from climate change scenarios across natural ecosystems, and the water, energy, transport, housing and local government sectors. Henrique brings a depth of technical experience with multi-disciplinary expertise in Big Data management and analytics, Geographic Information Systems – GIS, climate change projections, integrated risk assessment, and scientific disclosure. With a technical background in Environmental Sciences, Biology and Geography as well as a major in Communications, he has exceptional ability in translating complex technical climate data into usable and meaningful project inputs. At Edge Environment Henrique is responsible for delivering projects in the climate resilience space focusing on the Buildings Resilience Rating tool and climate risk assessments for infrastructure clients.

**Rohan Hamden – Associate, Climate Risk**

Rohan began his career in Government as a fire fighter. After nearly 20 years, his last role in Government was as the Director of the Climate Adaptation Program for South Australia.

He designed and led the implementation of the States multi-award winning climate change adaptation program. This program has seen a transformation in how communities and industries work together to adapt to climate change.

For two years he was the inaugural chair of the international Adaptation Working Group of The Climate Group States and Regions Alliance.

Since 2014 he has run his own company and works with governments in Australia, the Americas, the Pacific and Europe on their climate change policies. He works in areas as diverse as indigenous communities in the tropics through to state and commonwealth governments globally.

**Kirsty Bauer – Case Manager, VIC, SA & ACT, ISCA**

Kirsty joined ISCA as part of the Technical Team in August 2015. She is primarily responsible for supporting IS registered ratings through the rating process, facilitating the use of the IS rating tool and assisting with a number of very important tool development projects.

Kirsty has over 10 years experience delivering environmental, energy and sustainability project support in a range of sectors including public, utilities, legal, logistics, financial, automotive, retail, hotels and resorts, commercial, healthcare, and education. Kirsty's skills also include project management, environmental auditing, legal compliance, due diligence, waste management, energy and carbon management, corporate reporting, developing and implementing energy and carbon strategies.

**Chris Royal – Environmental Specialist, Corporate SEQR Directorate, Sydney Trains**

Chris Royal is a Principal environmental scientist with over 15 years' experience working in environmental assessment, energy and resource efficiency, climate change, renewable energy and sustainability. He has a degree in environmental science and a masters in international environmental law. He has worked extensively within private and public sectors, in highways, rail, aviation, ports, buildings, tunnels and bridges, energy generation, and mining and resources industries. Chris's international experience includes over 100 projects in UK, France, Canada, Greece, Australia, Kuwait and Saudi Arabia, and he was recently awarded the CSIRO Climate adaptation champions award for developing a Climate Change Masterplan for Sydney Trains. Sydney Trains have developed and implemented a three-stage, systematic, evidence-based Climate Change Risk Assessment and Adaptation Masterplan, which quantifies and ranks the costs, impacts and risks of past extreme weather events to Sydney Trains' rail infrastructure, services and customers, and uses climate change projects, patronage projections and cost-benefit analysis to identify the most efficient adaptation strategies up to 2100.

**John Connor – CEO, The Climate Institute**

Whilst qualified as a lawyer, John has spent over twenty years working in a variety of policy and advocacy roles with organisations including World Vision, Make Poverty History, the Australian Conservation Foundation and the NSW Nature Conservation Council.

Since joining The Climate Institute as CEO in 2007 John has been a leading analyst and commentator on the rollercoaster that has been Australia's domestic and international carbon policy and overseen the Institute's additional focus on institutional investors and climate risk.

John has worked on numerous government and business advisory panels currently including the NSW Government's Climate Council. He is a graduate of the Australian Institute of Corporate Directors and a Board member of the Environment Defenders Office and the Asset Owners Disclosure Project. He is also a "Governator" with the Australian Youth Climate Coalition.



John Cook – Climate Communication Fellow, Global Change Institute, University of Queensland

John Cook is the Climate Communication Fellow for the Global Change Institute at the University of Queensland. He created the website SkepticalScience.com, which won the 2011 Australian Museum Eureka Prize for the Advancement of Climate Change Knowledge and 2016 Friend of the Planet Award from the National Center for Science Education. John co-authored the college textbooks *Climate Change: Examining the Facts* and *Climate Change Science: A Modern Synthesis* as well as the book *Climate Change Denial: Heads in the Sand*. In 2013, he published a paper analysing the scientific consensus on climate change that has been highlighted by President Obama and UK Prime Minister David Cameron. He is currently completing a PhD in cognitive psychology, researching how people think about climate change, and developed a MOOC on climate science denial (<http://sks.to/denial101x>).



Emma Herd – Chief Executive Officer, Investor Group on Climate Change (IGCC)

Emma is Chief Executive Officer at the Investor Group on Climate Change (IGCC).

Prior to IGCC, Emma spent 15 years at Westpac Banking Corporation where she had a range of roles across carbon finance and emissions trading, ESG Risk assessment, public policy and sustainability strategy development.

Emma has participated in a number of key public forums, government and industry bodies relating to climate change and the environment. Emma is a Non-Executive Director of the Carbon Market Institute and a member of the Cornerstone Capital Global Advisory Council. She holds a Bachelor of Asian Studies (Thai) Hons.



Karl Sullivan – General Manager Policy Risk & Disaster, Insurance Council of Australia

As General Manager for the Policy, Risk and Disaster Planning Directorate, Karl is responsible for the facilitation of industry policy and initiatives regarding emerging risks as well as coordinating the industries response and partnership with government following a significant disaster event.

Karl brings with him significant experience in the disaster planning and risk management field. Prior to joining the Insurance Council, Karl was responsible for global Disaster Planning, Response and Mitigation for the Qantas Group of Companies. In conjunction with that role, Karl was active in international and domestic forums focused on a wide range of disaster events and emerging risks. Prior to Qantas, Karl enjoyed a career in the Royal Australian Air Force, including several operational flying tours and appointments responsible for consequence management and disaster planning.



Tom Davies – Founding Director and Chairman, Edge Environment

Over the last decade Tom has enjoyed a series of professional experiences focused on environment and sustainability issues. In 2008 Tom established Edge Environment with two co-founders. Currently Tom's two key areas of work at Edge Environment are developing more resilient built environments and promoting industrial ecology as a means to reduce the Life Cycle impacts of products and close waste loops. Tom also makes contributions to a series of advisory councils, committees, boards and working groups, including the Green Building Council, National Climate Change Adaptation Research Facility, Energy and Water Ombudsman of NSW. Tom has contributed extensively to the Environment Institute of Australia and New Zealand over a decade, including as President of the NSW Division and as Chair of the Climate Change Special Interest Section. For contributions made to the EIANZ Tom was awarded the Mary Lou Morris award for outstanding contributions to the EIANZ in 2013.



Sharon Pope – Manager, Integrated Planning, Lake Macquarie City Council

Lake Macquarie City Council is one of the biggest and more diverse council areas in Australia. Sharon's team of staff consider and plan the way the council area will grow, where jobs will be provided, what new infrastructure will be required, bushland areas kept, and more recently, how they will deal with increases in flooding due to sea level rise. Sharon has been in this role for 7 years, and at Lake Macquarie City Council for nine. Before becoming a Manager, she also had 22 years experience working as a Development Assessment Planner or a Strategic Land Use Planner for a number of Councils in New South Wales, Australia. Sharon is also a certified practicing planner with the Planning Institute of Australia.



COURSE OUTLINE 2016

The EIANZ's Learning to Adapt professional development programme has been developed in response to extensive feedback from industry, federal, state and local government and the research community. The programme was piloted in 2014 in partnership with the NSW Office of Environment and Heritage and has since ran again in Sydney, in Melbourne (in partnership with the City of Melbourne) and in Brisbane in 2015. In 2016 the program has been run in Canberra supported by the Australian Government. Feedback from each of these deliveries has contributed to the ongoing improvement of the programme. In 2016 the Learning to Adapt program was recognized by NCCARF as a *Climate Adaptation Champion for 2015 – 2016* in the Business category.

Course Objectives

Develop professional climate change adaptation capability through:

- Applying the science of climate change impacts
- Assessing and managing climate change risks
- Implementing and communicating climate change adaptation action.

Delivery

The course is delivered as three (3) stand-alone modules, allowing learners to choose to enrol in only one aspect of the course. These modules are also coordinated to offer an integrated course. Each module includes:

1. An on-line forum discussing a series of pre-readings to ensure that participants can make the best use of the guest speakers
2. A one-day intensive delivered at a city location, featuring expert guest speakers leading the group through worked case studies
3. Group tasks applying the skills in a workplace context.

1. Online forum

One week before each one day intensive, participants are invited to join the online forum. A number of readings and links, suggested by the speakers, are posted and participants invited to start a conversation.

2. One-day intensive

The full day intensive component of each module is held at UNSW CBD Campus, Level 6, 1 O'Connell Street, Sydney and is fully catered. Registration is at 8.30am and the course will conclude around 5pm. Each intensive will feature an expert introduction on the module content followed by case studies delivered by very experienced practitioners. The sessions will be interactive, allowing for group discussion and working through examples.

3. Workplace group tasks

Following the one-day intensive participants are invited to work in small groups on workplace projects to embed the course learning outcomes and establish an ongoing peer reference group. To ensure sufficient time for these group tasks the modules are separated by three to four weeks. Organisations volunteering to host workplace projects (this could be participant's own workplace) benefit by having expert projects delivered without cost, aside from the time of any staff member engaged in the group project.

Assessment

As the course is not accredited no formal assessment will be undertaken. However course design will deliver on a strategy of:

- Peer review and supervisor feedback in relation to the workplace learning project; and
- Observation of group-work in class

Accreditation

- This is a non-accredited course run through ACCARNSI, University of New South Wales resulting in a Certificate of Attendance from ACCARNSI, University of New South Wales.
- The course content is aligned to the Units of Competence (UoCs) MSS017001A *Analyse and determine organisational risk areas in sustainability* and MSS017004A *Lead sustainable strategy deployment, contextualised for climate change adaptation*. The course content should attract recognition of prior learning for these UoCs through any suitably endorsed RTO.

Completion of the course will attract recognition:

- 150 CPD points under the Certified Environmental Practitioner Scheme; and
- ISCA Climate Change Adaptation Module



VENUE DETAILS

Location

UNSW CBD Campus
Level 6
1 O'Connell Street
Sydney, 2000

Public Transport

The campus is conveniently located close to Wynyard, Martin Place and Circular Quay train stations.

Parking

CBD Campus guests' can receive a discounted all day rate for parking at Secure Park – Sofitel Wentworth. The parking is located at 61-101 Phillip Street with entry and exit via Bligh Street.

All day parking is \$43 for entry and departure between 6.00am and midnight the same day. If taking advantage of this parking please go to CBD Campus Reception on Level 6 to have your ticket stamped.

Please note Early bird rates are also available via the Secure Park – www.secureparking.com.au/car-parks/australia/nsw/sydney/sofitel-wentworth-hotel. You do not need to have your ticket stamped for the early bird parking rate.

Stay in touch

Become a member of EIANZ or ISCA, and join their LinkedIn groups or twitter feeds. Visit www.eianz.org/membership for more information.

