

THE BIG ISSUES



What does Climate Change mean for us?
Sat Sept 22

Presented by MBIE's Science + Innovation Group,
three events explore the Big Issues facing Antarctica.

What does Climate Change mean for us?

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Experts from science, policy, and industry will discuss the implications of Climate Change for New Zealand, the economy, and our everyday lives. The discussion will also shed light on how science is used in decision-making, and how, as a country, we can respond to the impacts of a changing climate.

MC: Kathryn Ryan
Radio New Zealand National

Kathryn joined Radio New Zealand in 1999 and became Radio New Zealand's political editor before taking up the Nine to Noon role in 2006. The top-rating show's long-form interview format traverses a full range of topics, including science and environmental subjects.

Professor Tim Nalsh
Antarctic Climate Scientist

Tim is Director of the Antarctic Research Centre at Victoria University of Wellington. He is a leading paleoclimatologist and has participated in 9 expeditions to Antarctica. He is a lead author on the Intergovernmental Panel of Climate Change and received the New Zealand Antarctic Medal and the New Zealand Science and Technology Medal for fundamental contributions to Antarctic climate change research.

Professor Dave Frame
Climate Change Expert

Dave is Director of the New Zealand Climate Change Research Institute at Victoria University of Wellington and an expert on how scientific innovation can inform real world policy. He has also worked as a policy analyst in the New Zealand Treasury and as an academic visitor in the UK's Department of Energy and Climate Change.

Dr Adrian Macey
Climate Negotiator

Formerly NZ's first Climate Change Ambassador, Adrian has wide experience of climate change policy at both the domestic and international level. He runs a "think tank" on climate change policy at Victoria University of Wellington.

Simon Tucker
Dairy Industry

As General Manager, Policy and Advocacy, for DairyNZ Simon leads a team which protects and enhances the interests of New Zealand's dairy farmers by working with regional and central government across a range of policy, legislative, regulatory and investment issues.

Roger Sutton
Energy Fan

Before being appointed to his position at CERA, Roger was the Chief Executive Officer of Orion New Zealand Limited, the electricity utility company servicing Canterbury. He is a former chairman of the Energy Efficiency Conservation Authority (EECA), a former Director of Energy Developments, an ASX-listed renewable energy developer, and Director of a number of small technology and energy-related businesses. He is also a keen cyclist and runner.

Dr Bronwyn Hayward
Social Scientist

Bronwyn is a senior lecturer in politics at the University of Canterbury, a Trustee of the Foundation for Democracy and Sustainable Development, London, a visiting fellow with the Sustainable Lifestyles Research Group, UK and co-researcher of the Voices of the Future Project about children and climate change at the University of Oslo, Norway.

Dr David Wratt
Climate Scientist

David has a PhD in Atmospheric Physics and has carried out research in the USA, Australia and New Zealand on climate and meteorology. He is a senior scientist at NIWA and a member of the Bureau of the Intergovernmental Panel on Climate Change and is a Companion of the Royal Society of New Zealand. He was recently awarded the Queen's Service Order for services to science.

Protection of the Last Ocean – is New Zealand leading the way?

Sat Sept 29

In October 2012, the international body responsible for management of the Ross Sea (CCAMLR) will assess New Zealand's proposal for a Marine Protected Area (MPA). If successful, this will be the largest MPA anywhere in the world. Is New Zealand leading the way in conservation, is it enough, and what political and international sensitivities will influence the decision?

Including clips from new documentary *The Last Ocean* (Peter Young/FishEye Films).

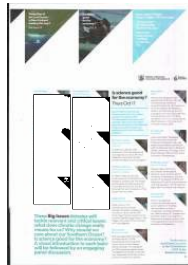
MC: Samantha Hayes
TV3

Samantha is an environment reporter and presenter for 3 News, with a Bachelor of Arts in International Relations and Media Studies from Wellington's Victoria University.

Peter Young
Filmmaker and Director

Peter Young is an award winning Christchurch based documentary cameraman/producer and co-founder of the Last Ocean charitable Trust. He recently shot and directed a feature documentary, *The Last Ocean*, that follows the campaign to protect the Ross Sea.





Dr Ben Sharp
Fisheries Scientist

Ben is a principal scientist with the NZ Ministry for Primary Industries and NZ representative to CCAMLR. An ecologist by training, since 2005 Ben has led NZ's scientific contribution to developing a system of Marine Protected Areas (MPAs) in the CCAMLR Area, including the scientific design of a NZ MPA scenario for the Ross Sea region.



Prof Denzil Miller
Former Executive Secretary CCAMLR

Denzil has a PhD in marine biology from the University of Cape Town and is an Honorary Research Professor at the University of Tasmania and Professorial Fellow at the University of Wollongong. He received a South African Antarctic Medal in 1995 and the prestigious Duke of Edinburgh Conservation Medal in 2007. He is the Director of Antarctic Tasmania.



Barry Weeber
Environmental Advocate

Barry is Co-Chairperson of the Environment and Conservation Organisations (ECO) and was previously a researcher at Forest and Bird for 15 years. He has worked with a range of environmental groups on marine, fisheries, and Antarctic issues focusing on science, policy and implementation. He is a Board member of the Antarctic and Southern Ocean Coalition (ASOC) and has attended several CCAMLR meetings.



Carolyn Schwalger
Antarctic Diplomat

Carolyn is Divisional Manager, Environment Division, with MFAT. She is responsible for New Zealand's international environment work programme, which includes New Zealand's interests in Antarctica and the Southern Ocean. She has most recently been working on international environment issues, including oceans, whales, biodiversity and Antarctica.



Rebecca Bird
WWF

Rebecca leads a team of five dedicated staff to work on marine conservation issues in NZ waters. She also works with the WWF International Antarctic and Southern Ocean Initiative to ensure this great ocean wilderness is protected now and for the future.



Greg Johansson
Fishing Industry

Greg is the General Manager Operations at Sanford Limited and a 26-year veteran of the seafood industry. Greg has been involved in the development of exploratory fishery in the Ross Sea and has attended 11 CCAMLR meetings as a member of the New Zealand delegation. He also Chairs the Industry Toothfish Committee.





Is science good for the economy? Thurs Oct 11

Investment in research and development is directly related to growth of national GDP. This discussion will explore how and why science and innovation grows the economy in New Zealand, things we could do better, and lessons we can learn from other countries.

MC: Chris Laidlaw
Radio New Zealand National

In addition to being a radio announcer, Chris has experience as a regional councillor, MP, Race Relations Conciliator, Rhodes Scholar, All Black, and living legend.

Dr Helen Anderson
former governmental advisor on science

Dr Helen Anderson was the Chief Executive of the Ministry of Research, Science and Technology and the government's key advisor on science issues. She is Chair of Fulbright NZ, and Companion of the Queens Service Order.

Roger Dennis
Serendipity Architect

Roger works in the boundaries and overlaps between foresight, strategy and innovation. He co-led the 2007 Technology Futures programme for the Shell GameChanger team in The Hague, and is part of the core team for Future Agenda.

Rob Fenwick
Business Leader

Rob was appointed chairman of Antarctica NZ in 2008 following his work to save the historic huts on Ross Island. Rob is a founder of Living Earth Ltd, NZ's principal organic waste management business, which this year celebrated diverting a million tonnes of waste from landfills.

Murray Bain
MBIE

Murray was inaugural chief executive at the former Ministry of Science and Innovation. He was formerly the chief executive of the Foundation for Research, Science and Technology and has a background in banking, beginning his working life with Trust Bank Canterbury. He is now Acting Deputy Chief Executive of the Science & Innovation Group, MBIE.

Dr Julia Lane
Economist

Julia is the Senior Managing Economist at the American Institutes for Research. She was senior vice president and director with the National Opinion Research Center, University of Chicago, and is also Professor of Economics at the University of Strasbourg.

Dr Wendy Lawson
Dean of Science

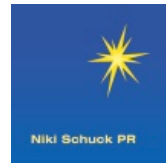
Wendy is Dean of Science and Director of Geospatial Research and Innovation at the University of Canterbury. She has served on the Boards of NIWA and Antarctica NZ, and is very concerned with adding value to NZ through the application of science and research.

Dr Grant Ryan
Entrepreneur

Grant is an addicted inventor and entrepreneur, and in addition to YikeBike, he's founded a number of companies including GlobalBrain.net, RealContacts, SLI Systems and EurekaStar. Grant has a degree in Mechanical Engineering and a PhD in Ecological Economics from the University of Canterbury.

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at the Christchurch
i-SITE in the
Botanic Gardens





Three Big Issues debates will tackle relevant and critical issues: what does climate change really mean for us? Why should we care about our Southern Ocean? Is science good for the economy? A visual introduction to each topic will be followed by an engaging panel discussion.