Coral Reef Targeted Research & Capacity Building for Management

Coral Reef Targeted Research Program
Future Leaders Forum

December 10-14, 2007

To develop the network of the future leaders in marine and coral reef ecosystem research and management; assist in building their capacity to understand global issues impacting on these ecosystems; and to develop new knowledge and skills to assist them in their current and future roles.

Hawken Engineering Building (50)
The University of Queensland

www.gefcoral.org

Inspiration

Day 1

Monday, December 10, 2007

"The ultimate measure of a man is not where he stands in moments of comfort, but where he stands at times of challenge and controversy."

- Civil rights leader Martin Luther King, Jr

Day 1 – Inspiration

Day One Purpose: To inspire students to feel they share a passion with, and are not unlike, the legends of coral reef science; to feel that the success of their heroes is within their own reach.

Setting the Scene

Chair: Professor Paul Greenfield, Senior Deputy Vice Chancellor (The University of Queensland).

8:20am	**Participants to be seated**
8:30am	**Official Welcome**
	Welcome to participants from the official host of the Forum.
	Professor Paul Greenfield, Senior Deputy Vice Chancellor (The University of Queensland).
8:45am	**Forum Introduction**
	An overview of how the week will unfold; outline of the four themes and what students can expect to take home.
	Ms Melanie King, CRTR Executive Officer (The University of Queensland).
9:00am	**Why you're here today – the CRTR Program**
	What the CRTR Program is about and how it started, where it is at, and why the journey continues to inspire them.
	Dr Marea Hatziolos, World Bank Team Leader (World Bank) & Mr Andy Hooten, Executive Secretary–Synthesis Panel & US Coordinator (AJH Environmental Services).
9:15am	**Keynote Address**
	Mr Robyn Williams, Presenter ABC Radio National's "The Science Show".
	Facing the Future
	Who thought, before 1989, that South Africa would free itself of apartheid, the Berlin Wall would crash, the Cold War end and Northern Ireland would turn to peace?
	Who, in the grim ending of 2007, can believe human beings will transform how we live and thus save the natural world - and our place in it?
	The warning signs are unmistakeable. We are trashing the Earth. Yet we know enough, through science and human understanding, to reverse the catastrophe. In the 19th century night soil was thrown from bedrooms into the street below. I shall list my 21st century equivalents of night soil (private cars in cities being one) and show how young people can make all the difference.
	Q&A Session
	Moderated by Professor Paul Greenfield, Senior Deputy Vice Chancellor (The University of Queensland).
10:30am	**Morning Tea**
11:00am	**Participant Presentation**
	Jackie Padilla-Gamino (BWG), Aldo Croquer (DWG), Rollan Geronimo (MDSWG), Charles Boch (RRWG) and Heidi Schuttenberg (ACoE).

The Turning Point

Aim: To show students who among them is inspired by similar events, ideas; to show them that they have things in common with their research 'heroes' and their peers globally.

Chair: Professor Peter Sale, Chair – Connectivity Working Group (University of Windsor).

11:15am	**What inspires me personally**
	A personal testimony on what inspired him initially to be involved in coral reefs and fish, and what continues to inspire him after so many years.

Inspiration

Day 1

11:30am	**Meet the CRTR Family: What has been their inspiration?**
	A panel of CRTR representatives talk about their 'turning points'.
11:45am	**Breakout Session: Ordinary people have extraordinary stories!**
	Participants to explore their inspirations and what they have in common.
12:30pm	**Whole-Group Session: What inspires us!**
	Participant nominees to report back to the Forum.
12:45pm	**Lunch**
1:45pm	**Participant Presentations**
	Mark Dondi Arboleda (SE CoE), Angela Mojica (CWG), Kathryn Rosell (DWG), Deborah Cleland (MDSWG) and Alan Lim (RSWG).

A Time Bomb is Ticking

Aim: To generate awareness in students of the collective, global analysis of the state of coral reefs and stimulate debate about what this means to them.

Chair: Professor Richard Kenchington, Director – RAC Marine Pty Ltd; Chair of Board of International Coral Reef Action Network (ICRAN) & Visiting Professor – Australian National Centre of Ocean Resources and Security, Faculty of Law, University of Wollongong.

2:00pm	**Key issues facing coral reefs today and in the future?**
	Professor Ove Hoegh-Guldberg, Chair - CRTR Bleaching Working Group & Australasian Centre of Excellence (Director, Centre for Marine Studies – The University of Queensland).
2:25pm	**What do managers want most from coral reef science?**
	Dr David Wachenfeld, Director – Science & Technology & Information Group (Great Barrier Reef Marine Park Authority).
2:45pm	**How to meet this challenge: It's not enough to be a scientist**
	Open Forum
	Facilitator: Professor Richard Kenchington, Director – RAC Marine Pty Ltd.
3:30pm	**Afternoon Tea**

Our world beyond 2020

Aim: To encourage students to think about their work and science, generally, in the context of the future, at approximately half-way through their working lives.

Chair: Dr Roberto Iglesias-Prieto, Chair of the MesoAmerican Centre of Excellence & Member of the Bleaching Working Group (Unidad Académica de Sistemas Arrecifiales, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México)

4:00pm	**What awaits you beyond 2020?**
	A wild ride through the 21st Century: a glimpse into the future.
	Richard Fidler, ABC Radio; former host of ABC TV's Aftershock.
4:30pm	**Breakout Session: Scientists: where to from here?**
	Groups to decide on what the future means to their work – how they practice, what are their priorities, which areas they work on, and who they will work with.
5:10pm	**Whole-Group Session: The way we see our future**
	Participant nominees report back to Forum: moderated by Richard Fidler.
5:30pm	**Day One Wrap-up**
	A brief wrap-up of Day One.
	Melanie King, CRTR Executive Officer (The University of Queensland).
5:35pm	**Close and Drinks**

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Vision

Day 2

Tuesday, December 11, 2007

"You can't make someone else's choices. You shouldn't let someone else make yours."

- US Secretary of State, Colin Powell.

Day 2 – Vision

Day Two Purpose: To challenge students to see the 'big picture' of coral reef science and see the opportunity to create a vision for their science that is brave and relevant to the needs of the wider world.

8:30am **Participant Presentations**

Derek Hogan (CWG), David Idip (RSWG), Candice Lomibao (SE CoE), Paul Fisher (MCoE), Maria Rodrigues (DWG) and Jessica Melbourne -Thomas (MDSWG).

Dream, believe, succeed

Aim: To demonstrate to participants the link between setting goals and achievement, and to develop their skills in creating a personal vision that motivates not only themselves but their colleagues.

Chair: Professor Bette Willis, Co-Chair Disease Working Group (James Cook University & the ARC Centre of Excellence Coral Reef Studies).

8:45am **Coral Reefs. For Life.**

Why having a vision is so important. A look at the World Bank's vision to alleviate poverty through improved coastal and coral reef management.

Dr Marea Hatziolos, World Bank Team Leader (World Bank).

9:15am **Keeping the dream alive**

Professor Gomez will discuss the challenges that face researchers on-ground, looking at his experiences in the Philippines. How did he set goals and aspire to reach his vision and goals in developing MSI and the station at Bolinao?

Emeritus Professor Ed Gomez, Chair – Southeast Asian Centre of Excellence (Marine Science Institute, University of the Philippines).

9.45am **Why it's important that scientists share their vision!**

Lessons from the Yucatan and what the future might hold if we don't act now.

Dr Roberto Iglesias-Prieto, Chair – MesoAmerican Centre of Excellence (Unidad Académica de Sistemas Arrecifiales, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México).

10:30am **Morning Tea**

11:00am **Participant Presentations**

Eileen Penaflor (RSWG), Isabel Porto Morales (CWG), Guillermo Jordan Garza (DWG), Tak Fung (MDSWG), Patrick Cabaitan (RRWG) and Sonia Bejarano (RSWG).

Turning dreams into reality

Aim: To demonstrate to participants a simple methodology they can use to set goals, identify barriers and make plans, so that they can turn their dreams for the future into reality.

Chair: Emeritus Professor Ed Gomez, Chair Southeast Asian Centre of Excellence (Marine Science Institute, University of the Philippines).

11:15am **How to bring a vision to life**

An interactive session that begins by asking participants who they want to be, how they want to feel and what they want to be doing in 10 years time.

Andy Hooten, Executive Secretary – Synthesis Panel & U.S Coordinator (AJH Environmental Services).

12:00pm **Participant Presentations**

Marcos Rangel Avalos (RRWG), Suzanne Arnold (CWG), Mark Vergara (SE CoE), Juliet Karisa (BWG) and Mohammed Mohammed (EA CoE).

Vision

Day 2

12:15pm **Lunch**

Making sense of complex systems

Aim: To urge participants to consider the 'big picture' surrounding environmental systems, and to consider the necessity of bringing economic and social factors into their research.

Chair: Dr Marea Hatziolos, World Bank Team Leader (World Bank).

1:15pm **The issues of complexity and systems thinking**

Our planet is a vast, complex and interactive system, challenging us to anticipate environmental, economic and social outcomes that we dare not leave to 'trial and error'.

Dr David Newth, Research Scientist (CSIRO Centre for Complex Systems).

1:55pm **Breakout Groups: Reef Game**

A practical, interactive look at how complexity and systems thinking is linked to coral reef ecosystems.

Modelling & Decision Support Working Group participants to lead.

3:15pm **Afternoon Tea**

3:45pm **Participant Presentations**

Kareen Vicentuan (RRWG), Scott Hook (ACoE), Leonard Jones (EA CoE), Pablo Saenz Agudelo (CWG) and Carmen Villegas Sanchez (CWG).

Applying the science – the Moreton Bay experience

Aim: To provide an understanding of the current issues facing Moreton Bay and to set the scene for the fieldtrip

Chair: Mr Geoff Dews, Australasian Centre of Excellence

4:00pm **MPAs & the Moreton Bay experience**

A look at how research into Marine Protected Areas has been linked to the practical world through the Moreton Bay experience.

Dr Suzanne Pillans, Senior Planner, Marine and Coastal Planning (Environmental Protection Agency).

4:20pm **Healthy Waterways Initiative**

A look at the Healthy Waterways Initiative and its impact on Moreton Bay.

Dr Eva Abal, Scientific Coordinator (Healthy Waterways).

4:40pm **Fieldtrip Summary**

Andrea Moyle, Project Executing Agency (The University of Queensland).

4:50pm **Day Two Wrap-up**

Melanie King, CRTR Executive Officer (The University of Queensland).

5:00pm **Close and Drinks**

Field trip

Day 3

Wednesday, December 12, 2007

Day 3 – Field Trip (Moreton Bay & Stradbroke Island)

Day Three Purpose: To enable all Forum participants to get to know each better, have fun and to see a practical demonstration of research projects and management applications for local issues.

7.30am	**Start**
	Group One: 4WD Tour with Kingfisher Tours. Group Two: Diving – North Stradbroke Island. Group Three: Marine Park and Sea Grass Tour of Moreton Bay.
5.30pm	**Return**
Evening	**BBQ**

North Stradbroke Island

Background

North Stradbroke Island, situated 20 kilometres off the coast of Brisbane, in the invaluable Moreton Bay, is a place of natural wonders and diversity. The island is one of South East Queensland's most valued locations, and due to its varied species of fauna and flora, and an abundance of marine life, this is hardly surprising.

North Stradbroke is the second largest sand island in the world and is 40 kilometres in length and 11 kilometres wide. The eastern side of the island is fringed by Moreton Bay, whilst the western side is surrounded by the vast Pacific Ocean.

Moreton Bay is teaming with marine life and is one of the few unique waters that is home to the critically endangered dugong. This animal was once a traditional food source for local indigenous people, however in recent years emphasis has been placed on conservation of these gentle animals and their habitats.

North Stradbroke is also a vantage point for the many scientists and visitors who travel to the easterly township of Point Lookout to watch for the endangered humpback whale. From the platform of the North Gorge, many people have the opportunity to view this spectacular animal in its natural state on its annual migration to the warmer birthing waters of Hervey Bay and the Lower Great Barrier Reef region. The University of Queensland conducts the Department of Environment and Water Resources' survey of the Australian population of humpback whales, and it is estimated that numbers are 10,000 strong.

One of the many ways to experience this diverse island is from an educational and scientific perspective. Activities such as 4WD touring: taking in the island's flora and fauna, diving on the surrounding reefs and visiting Marine Park and Go Slow Zones within the bay, allow visitors an opportunity to admire this natural wonder.

The fieldtrip on Wednesday, 12 December will encompass three options:

1. 4WD Tour with Kingfisher Tours
2. Diving off North Stradbroke Island
3. Marine Park and Sea Grass Tour of Moreton Bay.

1 Reference: Department of Natural Resources and Water website.

Option 1: 4WD Tour with Kingfisher Tours

A 4WD tour of North Stradbroke will allow the visitor to experience the natural wilderness with a focus on the island's fresh water lake systems. On the tour you will visit many of the fresh water lakes, visit the Pacific Ocean and enjoy the natural surroundings of this island.

The tour begins by driving on a sandy track through the Australian scrub to one of the island's many fresh water lakes. Along the way, you will see varieties of native trees such as eucalyptus, banksia and black boys. Once at Brown Lake, you will have the opportunity to go for a swim in the therapeutic tea tree waters that the lake is renowned for. Being a perched lake situated above the island's water table, the excess rain water that drains into the lake not only helps maintain the water level, but also carries with it tea tree leaves and tannins that create the water's colour, hence the name, and give the water its reputed therapeutic qualities.

Photo Reference: Redland Shire Council Website

Field trip

Day 3

A swim in this lake will keep you refreshed for hours and revitalised for the rest of the island tour. From here, you will continue across to the eastern side of the island until you reach Eighteen Mile Swamp. This swamp is often referred to as the 'back bone of the island' as it is the island's main water course stretching almost the total length of the island. It is home to many plant and animal species and is also the source for the water that is pumped to the mainland by the local shire.

Photo Reference –The University of QLD website

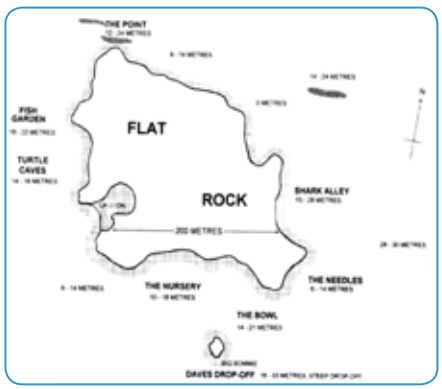
The next stop is the island's Main Beach which runs the full length of the eastern side of the island. The 4WD drive tour will continue up the beach where you can admire the Pacific Ocean on the right and the island's sand dunes on the left. There will be a chance to get out and stretch your legs, go for a swim or dig for Eugaries (more commonly referred to as pipis), which are still a common food source amongst visitors to the island.

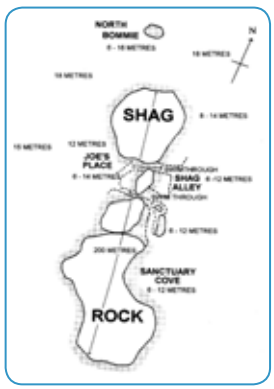
Next is the traverse along the spectacular rocky headland around the North and South Gorge where you will experience 180 degree views of the Pacific Ocean. This is the location that becomes a platform for many whale watching enthusiasts during the winter months. The summer period often allows the visitor to see turtles, dolphins and rays, along with uncompromising views. This is definitely one place to take a spectacular photo.

Then it is back to Dunwich to reconvene with the rest of the group and depart from the island. However there is one last treat along the way, as the group will stop off at Myora Springs, which is natural water spring, fed on the island. Here you can wade in the refreshing waters, along side the resident freshwater crayfish and prawns or mooch around subtropical rainforest that is abundant with bungwal fern and other plant foods. Traditionally, Myora was also a meeting place for local aboriginal people who would meet for celebrations and make the most of the abundant food source. At Myora you will see a midden, which is sacred mound of discarded shellfish and other hunting remnants that is testimonial to their use of this place.

Option 2: Diving off North Stradbroke Island

Experience wonderful North Stradbroke Island under the sea. This diving trip will take you to two of the many dive sites that are located within 15 minutes from shore. After a 20 minute drive from Dunwich you will arrive at Point Lookout where the skipper and staff from Manta Lodge Scuba Centre will be ready to sort out your diving needs.





The potential dive sites include (weather permitting):

1. Flat rock and its nursery is an area where you will see all of the "little guys" compared to the other three dive sites at the Nursery. This area is teaming with Nudibranchs, 100's of fish species, eagle rays and octopus.

2. Shark Alley is also located at Flat Rock and is home to the endangered grey nurse shark. The population of this animal on the East Coast is expected to be approximately 300 with Flat Rock being one of the very few spots where these animals are found. Unfortunately they do not inhabit the area the whole year around and can only be seen from June to October.

3. The Bowl also located at Flat Rock, is home to a large variety of species of coral and offers great reef formation. It is in the shape of a bowl and has the extra form of the 34 metre drop that allows divers to experience leopard, white tip, grey nurse sharks, turtles and schools of rays.

4. Shag Rock is an exposed rocky reef that is only minutes from the shore. This site is well protected with little current and home to the well known "swim through" cave. At this dive site, you are likely to see wobbegong and bamboo sharks, eagle and bull rays, turtles, octopus, eels, nudibranchs, stonefish, sea urchins, numerous hard and soft corals, and a large variety of tropical fish species. It is also possible to see leopard sharks, manta rays and grey nurse sharks passing by in their respective seasons.

5. Manta Bombie is one of the island's premier sites and is voted one of Australia's top 10 dive sites. It is often referred to as the "cleaning station" for the migratory mantas that frequent this area from November to April. Other animals that you can expect to see at this dive site include: leopard sharks, guitar sharks, turtles and wobbegongs plus much more.

Images courtesy of Manta Lodge and Scuba Centre website

6. Middle Reef is located 1.5 nautical miles off Adder Rock and is known for the dome shaped underwater "Ayers Rock" that sits just nine metres below the surface. This site is for the more advanced diver due to the strong current. This site is home to a resident Queensland groper, soft corals, moray eels and nudibranchs.

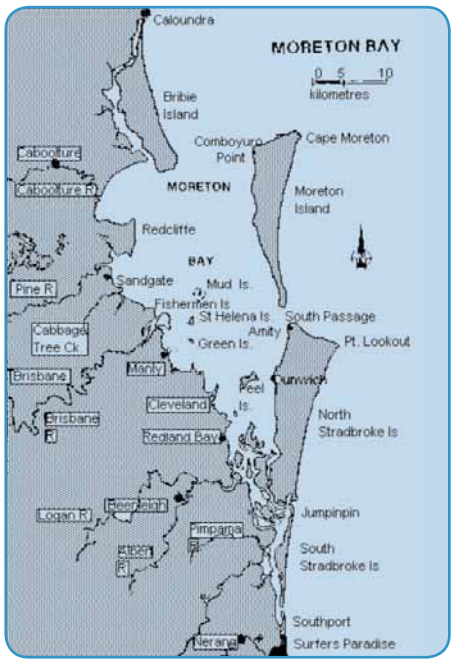
Visibility around summer is usually around 15 to 20 metres, and the water temperature ranges from 25 to 27C during this time. The dive locations will be decided by the skipper and determined by the weather on the day and the experience and qualifications of the people participating in this tour.

Field trip

Day 3

Option 3: Marine Park and Sea Grass Tour of Moreton Bay

Experience the wonders and beauty of the waters surrounding North Stradbroke Island by exploring parts of the Moreton Bay Marine Park and having an up close and personal look at sea grass.



Moreton Bay is a vast body of water stretching 125 kilometres from Caloundra to the Gold Coast seaway. It is located right on Brisbane's doorstep and encompasses many islands, internationally recognised wetland areas, sea grass and mangrove areas. To manage this diverse resource the State Government's Environmental Protection Agency, has divided some of this waterway into various regions or zones that determine the kind of activity that takes place in each area. Throughout the day you will be travelling through the Bay's five Marine Park zones: General Use, Habitat, Conservation, Buffer and Protection zones. You will also visit one of the six designated EPA areas; the dugong and turtle protection area, know as the "Go Slow" area which is implemented to protect the turtles and dugongs that inhabit that area.

First of all we will head to Eastern Banks, located on the northern end of Stradbroke Island, which is considered to have excellent water quality and ecosystem health. This diverse ecosystem includes coral communities, sea grass beds and mangrove habitats. At Eastern Banks, UQ researchers will take you to some sites of their current sea grass project, and explain the dynamics of the sea grass and its importance to the ecosystem. This part of the tour will include, walking through the mangroves to the sea grass site, plus you will have the chance to touch, smell and taste the seagrass. Depending on what group you are in, you may end up snorkelling to the sea grass site. From here, we will head to Moreton Banks for possible dugong and turtle sightings, which are two of the many animals that feed from the seagrass meadows.

From here we will head to Peel Island for a snorkel at the coral communities that surround this historic Island. Moreton Bay has a rich early settlement history as amongst many other things, Peel Island used to be Quarantine Station in 1874. Here we will stop for lunch and have a chance to warm up if needed. There is plenty of exploring to be done here as the old rangers hut is still standing and the beach at Horseshoe Bay allows for people to get out and stretch their legs. The rocky headland provides a different habitat and the Platypus Wreck makes a superb backdrop.

From Peel Island we will travel south to Russell Island in search of the dugong exploring the southern end of Moreton Bay. During this part of the tour, our local aboriginal ranger will provide an insight into indigenous perspectives of the bay. You will learn about the special significance that Moreton Bay has to the indigenous people, along with various resource management techniques that were practised. There are many indigenous stories involving the bay, and this part of the tour allows for you to gain understanding of this.

Reference: Peter Ludlow website

Discovery

Day 4

Thursday, December 13, 2007

"When you make the finding yourself - even if you're the last person on Earth to see the light - you'll never forget it."

- US astronomer Carl Sagan

Day 4 – Discovery

Purpose: To enable students to more effectively communicate their knowledge, so that more people of influence recognise the value of their work and respond to it sooner.

8:30am **Participant Presentations**

Vanessa Baria (RRWG), Simon Albert (ACoE), Rachel Gotanco (SE CoE), Yves-Marie Bozec (MDSWG) and Juan Carlos Ortiz (BWG).

Making science 'sexy'

Aim: To educate students that their work appeals to different people in different ways and how they can 'talk' about science in a way that appeals to others.

Chair: Professor Ove Hoegh-Guldberg, Chair - CRTR Bleaching Working Group & Australasian Centre of Excellence (Director, Centre for Marine Studies – The University of Queensland)

8:45am **Keynote Address**

What has communication to do with me? What scientists sometimes forget! Why is communication so important?

Dr Bruce Munday, CRTR Communication Coordinator.

9:00am **Communicating science: 'Message received, not message sent'**

What you need to consider in communicating with different audiences and what channels are available when communicating your research.

Dr Eva Abal, Scientific Coordinator (Healthy Waterways).

9:30am **Breakout Groups**

The Breakout Groups will explore different scenarios for communicating.

10:10am **Whole Group Discussion**

Making your message sexy

Facilitator: Dr Eva Abal

10:30am **Morning Tea**

11:00am **Participant Presentations**

Kirk Kilfoyle (RRWG), Gilberto Acosta Gonzalez (MDSWG), Eva Salas De La Fuente (CWG), Courtney Couch (DWG) and Victor Ticzon (RSWG).

Practical Skills: Lights, camera, action

Aim: To develop students' confidence in making presentations and improve their capability to transfer knowledge and influence attitudes in such a forum.

Chair: Mr Mark Paterson & Dr Bruce Munday, Communications Team, CRTR Program.

11:15am **How to be a 'rock star'**

Develop confidence in making presentations and improve your capabilities to transfer knowledge and influence attitudes in various forums.

Mark Paterson & Dr Bruce Munday, CRTR Communication Coordinators (Currie Communications).

Discovery

Day 4

Thursday, December 13, 2007

12:30pm **Lunch**

Practical Skills: How to get published

Aim: To reveal to students the best-kept secrets to getting your work in print.

Chair: Dr Michelle Riedlinger, Econnect Communication Pty Ltd.

1:30pm **'Getting into print'**

An overview as to how an early career researcher should go about building a portfolio of publications for a range of audiences, how to select publication venues, dealing with editors, reviewers, networking with editorial boards, citation statistics and impact factors, and issues arising from co-authorship.

Professor Terry Hughes, Director, ARC Centre of Excellence Coral Reef Studies.

3:30pm **Afternoon Tea**

4:00pm **Participant Presentations**

Miahnie Pueblos (SE CoE), Cesar Coronado (MCoE), Nong Kongjandtre (ACoE), Robert Canto (RSWG) and Nathaniel Alvarado (CWG).

Practical Skills: Making your science stand out in the crowd

Aim: Develop participants' skills in communicating their science in different types of mediums.

Chair: Dr Eva Abal, Scientific Coordinator (Healthy Waterways).

4:15pm **Breakout Groups**

Group 1: Product Development.

Group 2: Media Training.

Group 3: Networking – how to build, nurture and maintain networks.

Group 4: Presentations.

5:15pm **Day Four Wrap-up**

Mark Paterson, CRTR Communication Coordinator (Currie Communications).

5:30pm **Close and Drinks**

Leadership

Day 5

Friday, December 14, 2007

"Leadership: The art of getting someone else to do something you want done because he wants to do it."

- US President Dwight D. Eisenhower

Day 5 – Leadership

Day Five Purpose: To raise awareness among students of practical leadership skills and to encourage them to pursue their careers with pride, purpose and courage, and in partnership.

Demonstrating leadership

Aim: To see leadership in action through the CRTR chairs participating in a media conference which is highlighting the latest synthesised research product from the CRTR Program.

Chair: Mark Paterson, CRTR Communication Coordinator (Currie Communications).

8:30am **CRTR Media Conference**

Media conference for the CRTR *Science* journal article with seven of the key authors present and local media.

10:00am **Morning Tea**

10:30am **Participant Presentations**

Gidi Levy (RRWG), Nsajigwa Mbije EA CoE), Ainhoa Leon Zubillaga (CWG), Alma Ridep-Morris (DWG), Dexter dela Cruz (RRWG).

The power of networks

Aim: To encourage students to recognise that they 'know' more people worldwide than they would have thought and that technology makes it easy to stay in touch.

Chair: Andy Hooten, Executive Secretary, Synthesis Panel & US Coordinator (AJH Environmental Services).

10:45am **The Great Barrier Reef Foundation and the importance of relationships**

The GBRF and why relationships are a cornerstone of successful research ventures and how to develop, nurture and maintain them.

Judy Stewart, Managing Director of the Great Barrier Reef Foundation.

11:15am **Six degrees of separation**

How IT has made the world 'smaller' and easier for scientists to maintain friendships, networks, transfer knowledge and influence opinion.

Professor Stuart Phinn, Reader/Associate Professor – School of Geography, Planning and Architecture (The University of Queensland).

11:45am **Breakout Groups: Your network of influence – How do you keep it going?**

Participants to map their network of influence and examine practical applications of how we (as CRTR members) might enhance networking through technical options or other options.

12:30pm **Lunch**

Dare to be brave

Aim: To take students out of their comfort zones and encourage them to consider that courage is an essential ingredient for a scientist aspiring to be a true leader.

Chair: Mark Paterson, CRTR Communication Coordinator (Currie Communications).

Leadership

Day 5

Friday, December 14, 2007

1:15pm **Tackling moments of truth**

Wisdom, advice and a performance, which includes student participation – how to be brave, have fun and be your best when defining moments in your life arrive.

Theatre Sports.

3:15pm **Afternoon Tea**

The pursuit of excellence

Aim: Appreciating the value and importance of good science and good scientists.

Chair: Professor Ove Hoegh-Guldberg, Chair - CRTR Bleaching Working Group & Australasian Centre of Excellence (Director, Centre for Marine Studies – The University of Queensland).

3:45pm **Good Science – the best response to the sceptics**

Politicians and policy-makers often claim to base their decisions in relation to natural resource management on "good science". But what makes some science good and some not so good?

Professor Barry Brook: Professor of Climate Change – Research Institute for Climate Change and Sustainability (University of Adelaide).

4:45pm **Weekly Wrap-up**

A wrap-up of what has come out of the week and where we go from here.

Melanie King, CRTR Executive Officer (The University of Queensland).

5:15pm **Close**

Evening **Cocktail Reception at Customs House**

The Final Word (Professor Ove Hoegh-Guldberg) and the Award presentations (Best Poster, Best Presentation, Best Abstract)

Acknowledgement

The Coral Reef Targeted Research & Capacity Building for Management Program (CRTR) is a leading international coral reef research initiative that provides a coordinated approach to credible, factual and scientifically-proven knowledge for improved coral reef management.

The CRTR Program is a partnership between the Global Environment Facility, the World Bank, The University of Queensland (Australia), the United States National Oceanic and Atmospheric Administration (NOAA), and approximately 40 research institutes and other third parties around the world.

We would like to thank the following organisations for their support. Without it this Forum would not have occurred.

- Coral Reef Targeted Research Program
- Global Environment Facility
- World Bank
- The Oceans Foundation
- The University of Queensland
- Centre for Marine Studies, The University of Queensland

GEF

The Ocean Foundation

The University Of Queensland AUSTRALIA

Coral Reef Targeted Research & Capacity Building for Management