



SYMPOSIUM
ON CLIMATE
CHANGE AND COASTAL ZONE
MANAGEMENT

Prince Edward Island,
Canada
19th-21st June 2018



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BACKGROUND

Climate change is known to impact coastal areas in a variety of ways. According to the 5th Assessment Report produced by the Inter-Governmental Panel on Climate Change (IPCC), coastal zones are highly vulnerable to climate change and climate-driven impacts may be further exacerbated by other human-induced pressures

Apart from sea level rise which poses a threat to both human well being and property, extreme events such as cyclones and storm surges lead not only to significant damages to property and infra-structure, but to salt water intrusion, the salinisation of groundwater, and intensification of soil erosion, among many other problems. There are also many negative impacts to the natural environment and biodiversity, which include damages to important wetlands and habitats that safeguard the overall ecological balance, and consequently the provision of ecosystem services and goods on which the livelihoods of millions of people depend.

In particular, the fact that climate change impacts coastal areas in so many different ways means that along with climate change mitigation and adaptation strategies, innovative approaches towards coastal zone management are needed. They can assist in reducing the vulnerability and in increasing the resilience of coastal areas. The recent months, characterised by severe hurricanes and tropical storms in North America, the Caribbean and in South Asia show the pressing need to combined coastal zone management and climate change adaptation measures and initiatives.

The above state of affairs illustrates the need for a specialist event where we can not only better understand how climate change affects coastal areas and communities, but also to identification and discuss processes, methods and tools which may help in coastal zone management. There is also a perceived need to showcase successful examples of how to cope with the social, economic and political problems posed by climate change in coastal regions.

It is against this background that the “**SYMPOSIUM ON CLIMATE CHANGE AND COASTAL ZONE MANAGEMENT**” is being organized by the University of Prince

Edward Island in Canada, the Research and Transfer Centre “Applications of Life Sciences” of the Hamburg University of Applied Sciences (Germany), and the International Climate Change Information Programme (ICCIP). Samoa. The Symposium will be a truly interdisciplinary event, mobilizing scholars, social movements, practitioners and members of governmental agencies, undertaking research and/or executing climate change projects in coastal areas and working with coastal communities.

The “**SYMPOSIUM ON CLIMATE CHANGE AND COASTAL ZONE MANAGEMENT**” will focus on “making coastal areas more resilient to climate change”, meaning that it will serve the purpose of showcasing experiences from research, field projects and best practice to foster climate change adaptation and coastal zone management in such vulnerable areas and communities, which may be useful or implemented elsewhere.

AIMS

Consistent with the need for more cross-sectoral interactions among the various stakeholders working in the field of climate change adaptation in coastal areas and communities, the aims of the “**SYMPOSIUM ON CLIMATE CHANGE AND COASTAL ZONE MANAGEMENT**” are:

- i. to discuss the influences of, the damages and the threats posed by climate change to estuaries and coastal communities;
- ii. to introduce approaches, methods, initiatives and projects which demonstrate how coastal zone management can assist communities in coastal areas to successfully meet the challenges climate change poses to them. Here, an emphasis will be on the latest research, but also on infra-structure projects, demonstrations on the use of technologies and natural and artificial means to reduce the impacts of extreme events and sea level rise to coastal communities;
- iii. to introduce funding schemes and mechanisms which can finance climate change adaptation in coastal areas and
- iv. to network the participants, disseminate examples of best practice and foster collaboration in this very important field.

Last but not least, a further aim of the event will be to document and disseminate the wealth of experiences available today. To this purpose, papers accepted to the Symposium will be published in the “**Handbook of Climate Change Resilience**”. This will be a further volume of the award-winning book series “Climate Change Management” published by Springer, which since its creation in 2008 has become

the world's leading book series on climate change management. The decision of the editors as to which papers may be selected and undergo peer review for the book is final.

ORGANISERS

Co-Chairs

- Professor Walter Leal, Hamburg University of Applied Sciences (Germany) and Manchester Metropolitan University (UK)
- Professor Adam Fenech, University of Prince Edward Island (Canada)

Scientific Committee

- Dr Rongshuo Cai, Third Institute of Oceanography, State Oceanic Administration of China
- Dr. Luke He, Meteorologist, Climate Prediction Center, NCEP/NWS/NOAA, USA
- Dr. Aysin Dedekorkut-Howes, Griffith University, Australia
- Dr. Brent Jacobs, University of Technology, Sydney, Australia
- Professor Y. Kuleshov, Australian Bureau of Meteorology, Australia
- Dr. Ajal Kumar, The University of the South Pacific, Fiji
- Professor Dan Orcheron, Fiji National University, Fiji
- Dr. Antoine de Ramon N'Yeurt, European Union Global Climate Change Alliance Project (EUGCCA), The University of the South Pacific, Fiji
- Dr Sarah Hemstock, Pacific Community
- Prof. Anirudh Singh, The University of the South Pacific, Fiji
- Dr Arthur Webb, Kiribati Adaptation Program (KAP III), Kiribati

Scientific Support

- Ms Svenja Scheday, International Climate Change Information Programme (ICCIP)

Cooperating Organisations

- United Nations Environment Programme (UNEP)
- World Health Organisation (WHO)
- World Meteorological Organisation (WMO)
- International Climate Change Information Programme (ICCIP)

PROFILE OF PARTICIPANTS

Delegates attending the “**SYMPOSIUM ON CLIMATE CHANGE AND COASTAL ZONE MANAGEMENT**” will come from a cross-sectoral range of areas. These are:

1. members of NGOs working with climate change and coastal communities;
2. researchers at universities and research centres;
3. teaching staff at universities;
4. representatives from companies;
5. representatives from UN and national development and aid agencies working with climate change adaptation and funding/ executing projects on the ground;
6. members of social movements;
7. project officers and consultants;
8. other people interested in the topic.

It is believed that this wide range of participants will help to outline the need for and the usefulness of integrated approaches towards climate change adaptation in coastal regions and communities, and hence contribute to the further consolidation of this thematic area.

STRUCTURE OF THE EVENT

The “**SYMPOSIUM ON CLIMATE CHANGE AND COASTAL ZONE MANAGEMENT**” will be organised in two main strands:

Strand 1: the poster sessions

Participating organisations will be able to put-up posters describing their works and projects and to distribute the relevant information to the participants. The poster sessions will be a complement to the presentations and will allow close, one-to-one contacts between the participants and the exhibitors.

Strand 2: the presentations

A set of presentations, distributed over a set of themes will be organised, distributed over parallel sessions dealing with some of the issues of strategic value in the field of climate change adaptation in coastal region and communities. Some of the topics to be tackled in the event include:

- Planning processes, activities and measures to increase resilience of coastal areas and communities
- Measurements and management of flood risks in coastal areas
- Early warning systems and management of storm surges and storm water
- Environmental impact evaluation and support to reconstruction efforts
- Coastal zone management initiatives
- Measures to monitor and reduce erosion of coastal areas

- Community-based actions to handle coastal zone depletion due to climate change
- Financial incentives and financial means to support green infra-structures
- Key future impacts and vulnerability

The plenary and parallel sessions, as well as the social events, will provide participants with an outstanding opportunity to interact, network and learn about the latest ideas, projects and practices, mainstreaming climate change adaptation in coastal regions.

DEADLINES

Deadline for submission of abstracts: 20th January 2018

Deadline for submission of papers: 20th March 2018

Deadline for the submission of revised papers: 30th April 2018

Deadline for registrations: 30th April 2018

Since the book is expected to be launched shortly after the event, the deadlines need to be followed.

FEES AND CHARGES

A discounted fee of Euro 250 (professionals) or Euro 100 (for students) plus 19% VAT, will be charged to those who register until 30th January 2018 (early bird registration). After that, delegates will need to pay the full fee of Euro 300 and Euro 150 respectively (plus 19% VAT). The fee includes lunches and coffee breaks on day 2 and day 3 as well as the evening reception on day 2. Furthermore, the fee includes a **on-line copy of the “Handbook of Climate Change Resilience”**, to be made available to the participants whose papers have been submitted and accepted.

Organisations or individuals not able to pay this fee should contact the Secretariat, so that it may be reduced in special cases. Interested people and organisations are encouraged to register by completing the application form provided. **This is a self-funded event and the organisers are unable to pay any travel or accommodation costs** of any kind. They are however happy to issue letters of invitation to support delegates to request funding for their participation.

TIME-TABLE

The “**SYMPOSIUM ON CLIMATE CHANGE AND COASTAL ZONE MANAGEMENT**” will be held on 19th-21st June 2018 in Charlottetown, Prince Edward Island, Canada. Charlottetown is served by a local airport. The schedule is as follows:

Day 1 –19 th June 2018	Day 2 – 20 th June 2018
<p>Afternoon: Arrival and set-up of displays</p> <p>Evening: free</p>	<p>All day: Exhibition and visit to displays</p> <p>Morning: Plenary and parallel sessions</p> <p>Afternoon: Plenary and parallel sessions</p> <p>Evening: Reception: get-together of participants for informal chats and networking</p>
Day 3 – 21 st June 2018 (morning)	Day 3 – 21 st June 2018 (afternoon)
<p>Morning: Plenary and parallel sessions</p> <p>Exhibition and visit to displays</p>	<p>Afternoon: Plenary and parallel sessions</p> <p>Exhibition and visit to displays Conclusions with the hand over of the Awards for the best papers</p>

In order to ensure an efficient use of the time, delegates are kindly asked to organise their travel in a way that allows them to arrive in the course of 19th June 2018, and travel back on or after 21st June 2018, so they can fully take part in the Symposium.

REGISTRATION AND CONDITIONS OF PARTICIPATION

Registrations are now open and are possible until the 30th April 2018. Regrettably, logistical limitations mean that registrations after the deadline will not be possible. Since the space for displays and the time for presentations is limited, **delegates are advised to register as soon as possible**. The organisers will notify any interested delegate or organisation in case there are any limitations with time for presentations or space for displays. Registered delegates will then receive further details on the payment of the fees and updated information on the preparations for the event. The decision as to which papers will be accepted for presentation will be taken by the Chairpersons, following consultation with the organising committee. Participants registering to the event will do so under the condition that they will cover their own travel, accommodation and incidental costs (e.g. visa fees) related to their trip to Samoa. **This is a self-funded event and the organisers are unable to pay any travel or accommodation costs of any kind**. Letters of invitation to enter Canada can only be sent to bona fide, registered delegates, who have paid their fees and need a document to show their employers. For cancellations of registrations up to 45 days before the event, a 50% refund may be made. For cancellations afterwards, no refunds will be possible. Registrations are now open and may be made on-line at: www.haw-hamburg.de/en/ftz-nk/events/coastal2018.

CONTACT POINTS FOR SCIENTIFIC INPUTS AND STRATEGIC COOPERATION

All questions related to scientific inputs and strategic partnerships, as well as the book, should be sent to:

Walter Leal (BSc, PhD, DSc, DPhil, DEd, DLitt, FSB, FRGS, FLS)
Professor of Environment and Technology
Hamburg University of Applied Sciences (Germany) and Manchester Metropolitan University (UK)
E-mail: info@iccip.net

or to

Adam Fenech, Ph.D.
Associate Professor, Environmental Studies
Director, Climate Research Lab
University of Prince Edward Island
Prince Edward Island, Canada
E-mail: afenech@upei.ca

CONFERENCE ADMINISTRATION AND CONTACT POINT FOR FURTHER DETAILS

All questions related to abstracts and registrations should be sent to:

Svenja Scheday
International Climate Change Information Programme
E-mail: svenja.scheday@haw-hamburg.de

HOW TO SUBMIT AN ABSTRACT

An abstract should be up to 200 words, it should describe the rationale and aims of the paper, and some of its results. General descriptions of broad contexts should be avoided. The full contact details about the author(s) need to be provided. Abstracts should be written in the third person and not in the first or second one (e.g. I, me, or my paper). Please see a sample abstract on page 10. Authors whose abstracts have been accepted, will receive further details about how to submit their full papers, and further logistical information. Please send your abstract to Svenja Scheday: svenja.scheday@haw-hamburg.de

SAMPLE ABSTRACT

Climate Change and Integrated Coastal Management: risk perception and vulnerability in the Luanda Municipality (Angola)

Bernardo Castro^{@ 1,3} Walter Leal Filho²

Fernando J.P. Caetano^{3,4} Ulisses Miranda Azeiteiro¹

Climate change has imposed significant changes in the structure and natural dynamics of coastal ecosystems, compromising their resilience capabilities. The socio-environmental vulnerability in many coastal areas is aggravated by the inadequate articulation of an integrated territorial management and policies and plans to adapt to climate change. This work was carried out in the municipality of Luanda where erosion, floods and mass movements are an increasingly worrying reality. The research methodology for this study was based on questionnaire surveys and semi-structured interviews, with a focus on qualitative aspects, applied to policy makers, population and NGOs. The results indicate a lack of active participation of citizens, training and taking initiatives in environmental policies and integrated management of the coastal zone, and a lack of environmental information and integrated coordination of institutions with environmental responsibility.

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4 Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Portugal