Manchester, UK, 2-4 September 2015

SYMPOSIUM INFORMATION AND PRELIMINARY PROGRAMME
WORLD SYMPOSIUM ON CLIMATE CHANGE ADAPTATION (WSCCA-2015)

Manchester, UK, 2-4 September 2015

/// BACKGROUND

Climate change is among the major challenges of modern times. As the Fifth Assessment Report (AR5) produced by the Intergovernmental Panel on Climate Change (IPCC) has shown, there are still many challenges ahead and many needs to be met, calling for action not only from government, but also from various stakeholders.

Apart from the knowledge offered by modelling and forecasts which allows us to understand the problem and how it develops in the future, we need to know more about approaches, methods and tools, which may help us to cope with the social, economic and political problems posed by climate change now. In other words, we need to speed up developments in the field of climate change adaptation.

It is against this background that the “World Symposium on Climate Change Adaptation” is being organised. The event is a joint initiative by Manchester Metropolitan University (UK), the Research and Transfer Centre “Applications of Life Sciences” of the Hamburg University of Applied Sciences (Germany) and the Baltic University Programme in Uppsala (Sweden), in cooperation with the International Climate Change Information Programme (ICCIP) and the United Nations University initiative “Regional Centres of Expertise on Education for Sustainable Development” (RCE). The Symposium will be a truly interdisciplinary event, covering some of the key areas in the field of climate change adaptation.

The “World Symposium on Climate Change Adaptation” will focus on “innovative approaches to implement climate change adaptation”, and will contribute to the further development of this fast-growing field.

/// AIMS

Consistent with the need for more cross-sectoral interactions among the various stakeholders working in the field of climate change adaptation, the aims of the “World Symposium on Climate Change Adaptation” are as follows:

i. to provide research institutions, universities, NGOs and enterprises all round the world with an opportunity to display and present their works in the field of climate change adaptation;

ii. to foster the exchange of information, ideas and experiences acquired in the execution of climate change adaptation projects, especially successful initiatives and good practice;

iii. to discuss methodological approaches and experiences deriving from case studies and projects, which aim to show how the principles of climate change adaptation may be implemented in practice;

iv. to network the participants and provide a platform so they can explore possibilities for cooperation.
Last but not least, a further aim of the event will be to document and disseminate the wealth of experiences on climate change adaptation available today across the world. To this purpose, the book “Innovative Approaches to Implement Climate Change Adaptation” will be published, with all accepted papers. 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.

In addition, a set of papers selected by the coordination team will be published in a special issue of the International Journal of Climate Change Strategies and Management (a fully indexed journal, also at ISI/Thomson Reuters), under the title “Towards Innovative Climate Change Adaptation Practices”. The decision of the editors as to which papers may be selected - and undergo peer review- for the book and for the special issue of the journal, is final.

/// PROFILE OF PARTICIPANTS

Delegates attending the “World Symposium on Climate Change Adaptation” will come from a cross-sectoral range of areas, from both industrialised and developing countries. They are:

i. officials at city, regional and national level concerned with climate change
ii. members of NGOs working with climate change;
iii. researchers at universities and research centres;
iv. teaching staff at universities;
v. representatives from companies
vi. representatives from development agencies working with climate change adaptation and executing projects on the ground;
vii. project officers and consultants;
viii. other people interested in the field.

The participation of doctoral students is warmly encouraged and supervisors/advisers are kindly requested to facilitate their participation. The sort of international exposure and the rich content of this Symposium will be beneficial to their work, and their careers.

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 and, hence contribute to the further consolidation of this thematic area.

/// STRUCTURE OF THE EVENT

The “World Symposium on Climate Change Adaptation” is organised in two main strands:

**Strand 1: the displays**

Participating and organisations will be able to put-up displays and videos describing their works and projects, and to distribute the relevant information to the participants. The displays will be the backbone of the event and will allow close, one-to-one contacts between the participants and the exhibitors. The videos may document projects and initiatives on the ground.
Strand 2: the presentations
A set of presentations, divided into six main themes will be organised, distributed over parallel sessions dealing with some of the issues of strategic value in the field of climate change adaptation. These are:

Session 1: Technological approaches to Climate Change Adaptation
Session 2: Implementing Climate Change Adaptation in Communities, Cities, Countries and via Outreach Programmes
Session 3: Funding mechanisms and financing of Climate Change Adaptation
Session 4: Climate Change Adaptation, Resilience and Hazards (including floods)
Session 5: Information, Communication, Education and Training on Climate Change
Session 6: Climate Change and Health

A short excursion to a site in the Manchester Metropolitan region will be organised, to showcase a local climate change adaptation initiative.

/// TIME-TABLE

The schedule of the "World Symposium on Climate Change Adaptation" is as follows:

<table>
<thead>
<tr>
<th>WEDNESDAY 2nd SEPTEMBER 2015 (morning)</th>
<th>WEDNESDAY 2nd SEPTEMBER 2015 (afternoon)</th>
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</thead>
<tbody>
<tr>
<td>Morning: Arrival and set-up of displays</td>
<td>14:00-17:00- Plenary Session</td>
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<tr>
<td>13:00-14:00- Lunch</td>
<td>Evening: Reception</td>
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<table>
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<tr>
<th>THURSDAY 3rd SEPTEMBER 2015</th>
<th>FRIDAY, 4th SEPTEMBER 2015</th>
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<tbody>
<tr>
<td>All day: Exhibition and visit to displays</td>
<td>All day: Exhibition and visit to displays</td>
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<tr>
<td>Morning: Plenary and Sessions</td>
<td>Morning: Plenary and Sessions, Round-table with key experts &amp; Conclusions</td>
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<tr>
<td>Afternoon: Plenary and Sessions</td>
<td>Afternoon: Round table: The Future of Climate Change Adaptation</td>
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<tr>
<td>Evening: Reception at Manchester City Hall</td>
<td>15:00- Final Session and hand over of the Best Paper Awards</td>
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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 Manchester in the course of Wednesday the 2nd September 2014 at the latest, and travel back on or after the 5th September 2014, so they can fully take part in the Symposium.
The mixture of 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 aimed at mainstreaming climate change adaptation, worldwide.

/// FEES AND CHARGES

A discounted fee of £290 (inclusive of VAT) will be charged to delegates who register until 30th January 2015 (early bird registration). After that, delegates will need to pay the full fee of £360 (inclusive of VAT). The reduced fee for MSc/PhD students is £150. The fee includes free lunches and coffee breaks on 2-4 September 2015 and free electronic access to the relevant volume of the book "Innovative Approaches to Implement Climate Change Adaptation", expected to be launched soon after the Symposium.

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.

/// ORGANISERS

- Manchester Metropolitan University, UK
- Hamburg University of Applied Sciences, Research and Transfer Centre “Applications of Life Sciences”, RCE Hamburg and Region, Germany
- Baltic University Programme, Sweden

/// NATIONAL AND INTERNATIONAL PARTNERS

- UN Economic Commission for Europe (UNECE)
- UN Educational, Scientific and Cultural Organisation (UNESCO)
- UN Environment Programme (UNEP)
- World Health Organisation (WHO)
- World Meteorological Organisation (WMO)
- International Climate Change Information Programme (ICCIP)
- Urban Climate Change Research Network (UCCRN)
- International Centre for Integrated Mountain Development (ICIMOD)
- International Council for Local Environmental Initiatives (ICLEI)
- Baltic University Programme (BUP)
- The World Conservation Union (IUCN)
- The Met Office, UK
- Climate UK, UK
- Mayors Adapt
/// SCIENTIFIC COMMITTEE

Co-Chairs

- Prof. Walter Leal, School of Science and the Environment, Manchester Metropolitan University, UK, & HAW Hamburg, Germany
- Prof. Callum Thomas, Centre for Aviation, Transport and the Environment (CATE), School of Science and the Environment, Manchester Metropolitan University, UK

Members

Prof. Javier Aliaga, Catholic University of Bolivia, Bolivia
Dr. Abul Quasem Al-Amin, University of Malaya, Malaysia
Dr. Keith Alverson, Coordinator, Climate Change Adaptation and Terrestrial Ecosystems Branch, United Nations Environment Programme (UNEP), Kenya
Prof. Fátima Alves, Universidade Aberta, Portugal
Dr. Nelson Amaro, Galileo University, Guatemala
Prof. Ulisses Azeiteiro, University of Coimbra and Universidade Aberta, Portugal
Mr. Floris Boogaard, Tauw BV, Netherlands
Dr. Carlo Buontempo, The Met Office, UK
Prof. Sandra Caeiro, Universidade Aberta, Portugal
Prof. Luiz Velazquez Contrera, University of Sonora, Mexico
Prof. Boaventura Chango Cuamba, Eduardo Mondlane University, Mozambique
Dr. Alison Duffy, Abertay University, UK
Prof. Alexander Feher, Slovak University of Agriculture in Nitra, Slovakia.
Prof. Amadou Gaye, University Cheikh Anta Diop de Dakar, Senegal
Prof. Plamen Gramatikov, University of Blageovgrad, Bulgaria
Prof. Baltasar D’Andrade Guerra, UNISUL, Brazil
Prof. Henning Sten Hansen, Aalborg University Copenhagen
Prof. Arvo Iital, Technical University of Tallin, Estonia
Prof. Chardel Jabbour, University of São Paulo, Brazil
Prof. Seppo Helsten, Finnish Environment Institute, Finland
Dr. Ilan Kelman, University College London, England
Prof. Maris Klavins, University of Latvia, Latvia
Prof. Linas Kliucininkas, Kaunas University of Technology, Lithuania
Mr Phil Korbel, Cooler Projects CIC, UK
Dr. Evangelos Manolas, Democritus University of Thrace, Greece
Prof. David Chávez Muñoz, Pontificia Universidad Católica del Perú, Peru
Prof. Justice Nyamangara, University of Harare, Zimbabwe
Prof. Nicholas Otienoh Oguge, University of Nairobi, Kenya
Prof. José A. Milán Pérez, Climate Change Technologies, Nicaragua
Prof. Joost Platje, University of Opole, Poland
Prof. Diana-Mihaela Pociovalisteau, Constantin Brancusi University, Romania
Prof. Osvaldo Queihas, Fluminense Federal University, Brazil
Dr. Karuturi Rao, ICRISAT, Ethiopia
Prof. Julia Seixas, Universidade Nova de Lisboa, Portugal
Prof. Michael Shilin, Russian State Hydrometeorological University, Russia
Prof. Anirudh Singh, University of the South Pacific, Fiji
Prof. Luis Vargas, University of Chile, Chile
Prof. Luis Velazquez, University of Sonora, Mexico
Prof. Menas Wuta, University of Zimbabwe, Zimbabwe
/// SCIENTIFIC AND EXECUTIVE COMMITTEE AT MANCHESTER METROPOLITAN UNIVERSITY

Chairs: Prof. Myszka Guzkowska, Deputy Vice-Chancellor
   Prof. Phil Wheater, Dean of the Faculty of Science and Engineering

Members

Dr. Liz Price, Head of the School of Science and the Environment
Dr Kathryn Adamson, School of Science and the Environment
Ms. Alison Brooker, Centre for Enterprise, Business School
Dr. Gina Cavan, School of Science and the Environment
Dr. Mark Cresswell, School of Science and the Environment
Dr Rachel Dunk, School of Science and the Environment
Ms. Teresa Fitzpatrick, Centre for Enterprise, Business School
Mr. Amer Gaffar, Greater Manchester Hydrogen Partnership
Prof. Harold Goodwin, Centre for Responsible Tourism
Dr. John Hindley, Head of Environmental Strategy
Dr Samuel Illingworth, School of Research, Enterprise and Innovation
Dr. Paul O’Hare, School of Science and the Environment
Dr. Haruna Musa, Hollings Faculty, Department of Food and Tourism Management
Dr. Christopher Paling, Centre for Aviation, Transport and the Environment (CATE)
Ms. Helena Tinker, Environment and Energy Manager
Ms. Valeria Vargas, Centre for Excellence in Learning and Teaching

/// CONTACT POINT FOR SCIENTIFIC INPUTS, STRATEGIC COOPERATION AND GUIDANCE ON PUBLICATION

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
School of Science and the Environment
E-mail: w.leal@mmu.ac.uk

/// CONFERENCE ADMINISTRATOR AND CONTACT POINT FOR FURTHER DETAILS

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

Dr. Mihaela Sima
Institute of Geography
Romanian Academy
E-mail: simamik@yahoo.com
ABOUT THE LOCATION AND THE ORGANISERS

The “World Symposium on Climate Change Adaptation” will be held at Manchester Metropolitan University (MMU), one of the most prominent higher education institutions in the United Kingdom in the field of research on matters related to sustainable development and climate change. MMU also hosts the Centre for Aviation, Transport and the Environment (CATE), which is the Leading UK Research Body in the Aviation-Related Research. It also co-hosts the International Climate Change Information Programme (ICCIP) which, since its creation in 2008 has become a leader in education, awareness and training on climate change. MMU is a modern university, with state-of-the-art facilities for conferences and events, offering an ideal venue for the Symposium.

The City of Manchester is the UK’s second largest city, with a major airport which makes it easily reachable from the UK, Europe, North America, Asia and elsewhere. Apart from being accessible by plane, the city is connected to the UK’s main railway line. The University is conveniently close to various hotels, all of which are within a 10-15 minutes walking distance from the Symposium venue. The hotels closest to the university are:

- Palace Hotel Oxford Road (4 stars): [http://www.palacehotelmanchestercity.co.uk/](http://www.palacehotelmanchestercity.co.uk/)

The meeting will be held at Building 4 (New Business School) of the attached map.
MAP OF THE ALL SAINTS CAMPUS, MANCHESTER METROPOLITAN UNIVERSITY
PRELIMINARY PROGRAMME

Wednesday 2nd September 2015

G.36 - Lecture Theatre (14.00-17.00 – Plenary Session)
Chair: Walter Leal

14.00-14.20- Welcome by Sir Richard Leese, Leader, Manchester City Council

14.20-14.40- Welcome by Prof. Myszka Guzkowska, Deputy Vice-Chancellor, Manchester Metropolitan University

14.40-15.15- Key Note Speech I: Dr Valerie Kapos, Head of Climate Change and Biodiversity, United Nations Environment Programme World Conservation Monitoring Centre (UNEP-WCMC)

15.15-15.50- Key Note Speech II: Climate Services: an essential tool for Adaptation. Dr Felipe Lucio, World Meteorological Organisation (WMO)

15.50-16.20- Break and visit to the displays

16.20-16.55- Key Note Speech III: Climate Change and Biodiversity: the work of the Man and Biosphere Programme. Dr Miguel Clüsener-Godt, UNESCO

16.55-17.30- Key Note Speech IV: Climate change and health in WHO European Region Vladimir Kendrovski, World Health Organisation (WHO)

17.30-18.00- Discussion

18.00-20.00- Welcome Reception with launching of the “Handbook of Climate Change Adaptation”
Thursday 3rd September 2015

G.36 - Lecture Theatre (09.00-10.00- Plenary session)
Chair: Walter Leal

09.00-09.40- Climate change impacts, vulnerability and adaptation in Europe: the work of the European Environment Agency. André Jol, European Environment Agency, Denmark

09.40- 10.20- The uncomfortable interface: how to reframe the dialogue between users and providers and develop more usable climate services. Carlo Buontempo, The Met Office, UK

10.20-10.50- Break and visit to the displays

Session 1A- Innovative approaches to climate change adaptation (Room 3.02)
Session Chair: Callum Thomas, UK

10.50-11.10 - Promoting Climate Change Adaptation in Developing Countries: breaking misconceptions and addressing information needs
Walter Leal, Manchester Metropolitan University, UK

11.10-11.30- GIS Base Hazard Risk Assessment of GLOF at Sonoghore Valley Chitral, Pakistan, Alamgeer Hussain, Focus Humanitarian Assistance, Pakistan

11.30-11.50- Promoting Climate Smart Agriculture through Space Technology in Nigeria Idowu O. Ologeh, Dangote Projects, Lagos, Nigeria

11.50-12.10- Adapting to climate change: getting more from spatial planning
Jeremy Carter, University of Manchester, UK

12.10-12.30- Grassroots technologies and community trust in climate change adaptation - learning from coastal settlements of Bangladesh
Momtaj Bintay Khalil, Brent Jacobs, Natasha Kuruppu, Institute for Sustainable Futures, Australia

12.30-12.50- Adaptations to Possible Climate Change Impacts: problem structuring based on the VFT methodology
Luiz Priori Jr., Marcelo Hazin Alencar, Adiel Teixeira de Almeida, Universidade Federal de Pernambuco, Brazil

12.50-13.00- Discussion

13.00-14.00- Lunch and visit to the displays
Session 1B- Innovative approaches to climate change adaptation (Room 3.10)
Session Chair: Julia Seixas, Portugal

10.50-11.10- Integrated crop and seed production systems under water/irrigation management in sub-saharan africa: case study of Mali
Abdoulah Mamary Kane, J.K. Lagat, Jackson Langat, Daouda Dembele, Bino Teme, Vincent Sijali, Institut d'Economie Rurale, Mali

11.10-11.30- Renewable Distributed Generation and Its Stakeholders' Engagement Contributing to Climate Change Mitigation and Adaptation in Brazil
Mario Corrêa de Sá e Benevides, José Baltazar Salgueirinho Guerra, Alek Suni, Universidade do Sul de Santa Catarina, Brazil

11.30-11.50- Emerging Opportunities of Carbon Sequestration through Reforestation Strategies in Nigeria
T.A. Olatoye, S. O. Bada, Forestry Research Institute of Nigeria, Nigeria

11.50-12.10- West African farmers’ climate change adaptation: from technological change towards transforming institutions
Daniel Callo-Concha, University of Bonn, Germany

12.10-12.30- An Evaluation Of The Community Land Model [Version 3.5] And Noah Land Surface Models For Temperature And Precipitation Over Nebraska [Central Great Plains]: Implications For Agriculture In Simulations Of Future Climate Change
Jane A. Okalebo, University of Nebraska-Lincoln, USA

12.30-13.00- Discussion

13.00-14.00- Lunch and visit to the displays
Thursday 3rd September 2015

Session 1C- Innovative approaches to climate change adaptation (Room: 3.14)
Session Chair: Harry Diaz, Canada

10.50-11.10- Duty Free? The Facilitation of Low Carbon
Graeme Heyes, Manchester Metropolitan University, UK

11.10-11.30- Influence of climate change on coyam production in Aba Agricultural Zone of Abia State, Nigeria
C. C. Ifeanyi-obin, University of Port Harcourt, Nigeria
A. O. Togun, University of Ibadan, Nigeria
R. Lamboll, University of Greenwich, United Kingdom

11.30-11.50- Climatic Change Adaptation Strategy in Tropics’ Cropping Systems: a case study from Watermelon (Citrullus lanatus) as live mulch
David Ojo, Steven Taiwo, and Isaac Aiyelaagbe
National Horticultural Research Institute (NIHORT), Ibadan, Nigeria.
University of Agriculture, Abeokuta, Abeokuta, Ogun State, Nigeria.

11.50-12.10- Climate injustice in a post-industrial city: the case of Greater Manchester, UK
Aleksandra Kazmierczak, Cardiff University, UK

12.10-12.30- Can adaptation to climate change at all be mainstreamed in complex multi-level governance systems? A case study of forest-relevant policies at the EU and Swedish levels
E. Carina H. Keskitalo, Maria Pettersson, Umeå University, Sweden

12.30-12.50- Temporal relationship been milk production and meteorological variables in southern Brazil
Alexandre Mossate Gabbi, Jaime Araújo Cobucci, Vivian Fischer, Concepta Margaret McManus, Universidade Federal do Rio Grande do Sul, Brazil

12.50-13.00- Discussion

13.00-14.00- Lunch and visit to the displays
Session 2- Implementing Climate Change Adaptation in Communities, Cities, Countries and via Outreach Programmes (Room 3.16)

Session Chair: Liz Price, UK

10.50-11-10- Is there a Role for Urban Agriculture in Climate Change Adaptation? Debra J. Davidson, University of Alberta, Canada

11.10-11.30- Local Networks of Resilience and Climate Adaptation: The case of Istanbul Rana İzcı¹, Pınar Bal² Marmara University, Turkey¹, Beykent University, Turkey²

11.30-12.10- How will the Concepción Metropolitan Area (CMA), Chile cope with climate change? - Assessing adaptive capacity at the city level Dahyann Araya Muñoz, University of Edinburgh, UK

12.10-12.30- Why The Greater Cairo City Needs an Integrative Urban Green Management? Mahmoud Yousef M. Ghoneem, Helwan University, Cairo, Egypt

12.30-12.50- Climate change vulnerability and adaptation potential in Bosnia and Herzegovina Goran Trbic Raduska Cupac, Goran Vukmir, Sanjin Avdíc, Davorin Bajic, Igor Zekanovic, University of Banja Luka, Bosnia and Herzegovina

12.50-13.00- Discussion

Session 3: Funding mechanisms and financing of Climate Change Adaptation (Room 3.17)

Session Chair: Baltazar Guerra, Brazil

10.50-11.10- Adaptation to Climate Change in India: Economic and Welfare Analysis M. Balasubramanin, Institute for Social and Economic Change, Bangalore, India

11.10-11.30- Review of Climate Change Finance to Adaptation in Developing Countries through Critical Stages Amsalu W. Yalew, Dresden University of Technology, Germany

11.50-12.10- The Socio-Economic Activities Adaptation to the Changing Climate Angel S. Recto, Evangelina R. Recto, Bulacan State University, Philippines

12.10-12.30- Funding mechanisms and financing climate change adaptation Martin Schoenberg, Climate Change Capital, UK

12.30-12.50- Extreme weather and the German economy – the potential for climate change adaptation Ulrike Lehr, Anne Nieters, Thomas Drosdowski, Institute for Economic Structure Research, Osnabrück, Germany

12.50-13.00- Discussion

13.00-14.00- Lunch and visit to displays
Session 4: Climate Change Adaptation, Resilience and Hazards (including floods) (Room 4.04)
Session Chair: Paul O´Hare, UK

10-50-11.10 - Policy making on an uncertain climate: Adaptation to climate change by local governments
Maya van den Berg, University of Twente, The Netherlands

11.10-11.30- Preserving Riparian Forests Buffer Composition for Climate Change Adaptation in Fragmented Agricultural Watershed in the Humid Savanna of Ghana
Emmanuel Amoah Boakye1, Dibi N'da Hyppolite1, Victor Rex Barnes2, Stefan Porembski3, Michael Thiel4, François N. Kouamé5, Daouda Kone5,
Université Felix Houphouët Boigny, Côte d'Ivoire1, Kwame Nkrumah University of Science & Technology, Ghana2, University of Rostock, Germany3, University of Wuerzburg, Germany4, Université Felix Houphouët Boigny, Côte d'Ivoire5

11.30-11.50- Perspectives on Social Vulnerability in the context of City-Level Responses to Climate Change
YoungHwa Cha, University of Edinburgh, UK

11.50-12.10- Evaluating Potential Impacts of Climate Change on Surface Water Resource Availability of Upper Awash Sub-Basin, Ethiopia
Mekonnen Daba, Kassa Tadele, Andualem Shemalis, Arbaminch University, Ethiopia

12.10-12.30- Climate Change Induced Water Scarcity: Factors Influencing Rural Farmers’ Adoption of Agricultural Water Technologies and Innovations in Lare Division Nakuru County, Kenya
Boithi Frederick Njagi, Kenya

12.30-12.50- Mainstreaming resilience in development programming: a practitioner’s perspective
Jacobo Ocharan, Ghislaine Guiran, Plan International

12.50-13.00- Discussion

13.00-14.00- Lunch and visit to displays
Session 5: Information, Communication, Education and Training on Climate Change (Room 4.05)
Session Chair: Ifeanyi-Obi, C.C., University of Port Harcourt, Rivers State, Nigeria

10-50-11.10- Citrus and Tomato Farmers' Perception and Adaptation Strategies to Climate Change in Northern Nigeria
Adebisi-Adelani Oluyemisi, National Horticultural Research Institute, Nigeria

11.10-11.30- Adaptation of the Artisanal fisherfolks to Climate Change in the Coastal Region of Ondo State, Nigeria
Adeleke Mosunmola Lydia¹, Matthias Wolff², The Federal University of Technology, Akure, Nigeria¹, Leibniz Center for Tropical Marine Ecology, Germany²

11.30-11.50- Mapping Grounded Actions and Climate Change: A case study of Tea Growers in Assam
Sadaf Javed, Jawaharlal Nehru University, New Delhi, India

11.50-12.10- Changes in attitude towards climate change and transformative learning theory
Gherardo Girardi, London Metropolitan University, UK

12.10-12.30- Coping with Climate Change Hic et Nunc: An empirical study of lay rationalities and praxis among Peniche’s "artisanal fishermen"
Vanda Viegas, Fátima Alves, Ulisses M Azeiteiro
University of Coimbra, Portugal

12.30-12.40- A Critique of ‘One Size Fits All’ Approach to Inclusive Education in Bangladesh – Importance of Addressing the Underlying Wider Aspects of Inclusive education to Conduct Better Disaster Preparedness Training
Syed A Tarek, Liverpool John Moores University, UK

12.40-13.00- Discussion

13.00-14.00- Lunch and visit to displays
Session 6- Climate Change and Health (Room: 3.15)

Session Chair: Ulisses M Azeiteiro, Portugal

Paola E. Signoretta, Loughborough University, UK
Veerle Buffel, Piet Bracke, Ghent University, Belgium

11.10-11.30- Effects of temperature variation on human cardiovascular system: a systematic review
André Luís Foroni Casas, Guilherme Benjamim de Oliveira, Gabriella Mendes Dias Santos, Natalia Biscaro Chiocheti and Monica de Andrade
Health Promotion Graduate Program, University of Franca, SP, Brazil

11.30-11.50- A Review on the Impact of Climate Change on Food Security and Malnutrition in the Sahel Region of Cameroon
Elvis Chabejong Nkwetta, Hamburg University of Applied Sciences, Germany

11.50-12.10- Climate Impacts on Dengue Risk in Brazil: The current and future risks
Paula Carvalho Pereda and Denisard Cneio de Oliveira Alves
Department of Economics, University of São Paulo, Brazil

12.10-12.30- Community, University and Governmental Interactions for Disaster Reduction in the Mountainous Region of Rio de Janeiro, Brazil
Leonardo Esteves de Freitas, Anderson Mululo Sato, Sandro Schottz and Ana Luiza Coelho Netto
Laboratory of Geo-Hydroecology at Geography Department, Federal University of Rio de Janeiro and Oswaldo Cruz Foundation (FIOCRUZ), Brazil

12.30 -13.00- Discussion

13.00-14.00- Lunch and visit to the displays
Thursday 3rd September 2015

G.36 - Lecture Theatre (14.00-15.00- Plenary session)
Session Chair: Gina Cavan, UK

14.00-14.30- Addressing the Financing Gap for Adaptation in Fragile and Conflict-Affected Countries
Fiona Bayat-Renoux and Yannick Glemarec, UN Women, USA

14.30-15.00- Impact of Climate Change on the Livelihood of Arable Crop Farmers in Southwest, Nigeria
Abiona, B. G., Fakoya, E.O., Esun J., Federal University of Agriculture Abeokuta, Nigeria

Session 7- Rural Vulnerabilities and Extreme Climate Events in the Americas: lessons from a cross country research experience (Room 3.15)
Session Chair: Amber Fletcher, Canada

15.00-15.20- Exposure of Rural Communities to Climate Variability and Change: Case Studies from Argentina, Colombia and Canada
David Sauchyn, University of Regina, Canada

15.20-15.40- A Conceptual Framework for Understanding Vulnerabilities to Extreme Climate Events
Harry Diaz, University of Regina, Canada

15.40-16.00- Break

16.00-16.20- Adaptive Strategies Building Resilience to Climate Variability in Argentina, Canada and Colombia
Paula Mussetta, Sandra Turbay and Amber Fletcher, National Scientific and Technological Research Council, Human, Social and Environmental Sciences Institute, Argentina
University of Antioquia, Colombia
University of Regina, Canada

16.20-16.40- Canadian, Argentinean, and Colombian Programs Building Resiliency to Extreme Events
Margot Hurbert, Paula Mussetta, Sandra Turbay
University of Regina, Canada,
National Scientific and Technological Research Council, Human, Social and Environmental Sciences Institute, Argentina, Argentina
University of Antioquia, Colombia

16.40-17.00 – Discussion

19.00- Reception at Manchester City Hall, Albert Square, Manchester M60 2LA
Session 2B- Implementing Climate Change Adaptation in Communities, Cities, Countries and via Outreach Programmes (Room 3.16)
Session Chair: Kathryn Adams, UK

15.00-15.20- Wetlands Biodiversity, Livelihoods and Climate Change Implications in the Ruaha River Basin, Tanzania
Pantaleo KT Munishi¹, Halima H. Kilungu¹, Bernadetha Munishi¹, Stein R. Moe²
Sokoine University of Agriculture¹, Norwegian University of Life Sciences, Norway²

15.20-15.40- Strategies for Climate Change Adaptation in metropolitan areas: Initiating, coordinating and supporting local activities - the approach of Stuttgart Region, Germany
Thomas Kiwitt, Silvia Weidenbacher, Verband Region Stuttgart, Germany

15.40-16.00- Coffee Break

16.00-16.20- Adapting to the Inevitable: The Case of Tanbi Wetland National Park, The Gambia
Mathias Wolff, Tidiani Koné, Ebrima Njie, University of Bremen, Germany

16.20-16.40- Beyond pumps and pipes: Enhancing adaptive capacity of water management organisations in Kiribati
Natasha Kuruppu, University of Technology Sydney, Australia

16-40-17.00- Assessment to Promotion of Adaptive Agricultural Practices in the Sahel
Alex Apotsos, Williams College Williamstown, MA, USA
David Miller, Senior Climate Change Advisor ACDI/VOCA, Washington, DC, USA
Brent Simpson, Investment Center, Food and Agriculture Organization, Italy

19.00- Reception at Manchester City Hall, Albert Square, Manchester M60 2LA
Session 2C- Implementing Climate Change Adaptation in Communities, Cities, Countries and via Outreach Programmes (Room 4.06)
Session Chair: Haruna Musa, Nigeria

15.00-15.20- Assessing the sensitivity of cereals production in smallholder farmers' fields to climate change; The case of Upper White Volta Basin of Ghana

15.20-15.40- Climate Change Adaptation and Disaster Resilience in Queensland at the Local Government Level
Aysin Dedekorkut-Howes, Griffith University, Australia

15.40-16.00- Coffee Break and visit to displays

16.00-16.20- Global Indicator of Adaptation to Climate Change Impacts in Catalonia
Ester Agell, Fina Ambattle, Gabriel Borràs, Gemma Cantos, Salvador Samitier, The Catalan Office for Climate Change, Spain

Collins K. Musia, Walter Leal Filho, Hamburg University of Applied Sciences, Germany

16-40-17.00- Facilitating climate change adaptation on smallholder farms through farmers’ collective led on-farm adaptive research –The SAF-BIN project
Romana Roschinsky, Sunil Simon, Pranab Ranjan Choudhury, Augustine Baroi, Manindra Malla, Sukleash George Costa, Valentine Denis Pankaj, Chintan Manandhar, Manfred Aichinger, Maria Wurzinger
Centre for Development Research, University of Natural Resources and Life Sciences, Vienna; Caritas India; Caritas Bangladesh; Caritas Nepal and Caritas Austria

17.00-17.40- Refining NHS Climate Change Adaptation Plans; Central Manchester University Hospitals Foundation Trust (CMFT) case study.
Oscar Nieto-Cerezo, University of Liverpool, UK

19.00- Reception at Manchester City Hall, Albert Square, Manchester M60 2LA
Session 3B: Funding mechanisms and financing of Climate Change Adaptation (Room 3.17)
Session Chair: Santiago Enriquez, Mexico

15.00-15.20- Mobilising private sector funds for climate change adaptation – Nordic Climate Facility (NCF) as a case study
Kari Haemekoski, Heli Sinkko
Nordic Environment Finance Corporation, Finland

15.20-15.40- Financing infrastructure and built environment adaptation in the UK
Katy Roelich, University of Leeds, UK

15.40-16.00- Coffee Break and visit to displays

16.00-16.20- A data-driven tool to help prioritize climate change adaptation funding
Chen Chen, Jessica Hellmann
University of Notre Dame, USA

19.00- Reception at Manchester City Hall, Albert Square, Manchester M60 2LA
Session 4B: Climate Change Adaptation, Resilience and Hazards (including floods) (Room 4.04)
Session Chair: Rachel Dunk, UK

15.00-15.20- Adaptation Planning in the Torres Strait and South Australia– A case study comparison of two different cultures and communities
Rohan Hamden¹, John Rainbird², Rohan Hamden and Associates, Australia¹, Torres Strait Regional Authority, Australia²

15.20-15.40- Policy making on an uncertain climate: Adaptation to climate change by local governments
Maya van den Berg, University of Twente, The Netherlands

15.40-16.00- Coffee break and visit to displays

16.00-16.20- Effect of Climate Change in the Albertine Rift of Uganda
Jackline Bonabana-Wabbi, Makerere University, Uganda

16.20-16.40- Analysis of Climate Change Adaptation Measures Used by Rural Dwellers in The Southeast and Southsouth Zone of Nigeria
Ifeanyi-Obi, C.C., University of Port Harcourt, Rivers State, Nigeria

16.40-17.00- Preserving Riparian Forests Buffer Composition for Climate Change Adaptation in Fragmented Agricultural Watershed in the Humid Savanna of Ghana
Emmanuel Amoah Boakye¹, Dibi N'da Hyppolite¹, Victor Rex Barnes², Stefan Porembski³, Michael Thiel⁴, François N. Kouamé⁵, Daouda Kone⁵, Université Felix Houphouët Boigny, Côte d'Ivoire¹, Kwame Nkrumah University of Science & Technology, Ghana², University of Rostock, Germany³, University of Wuerzburg, Germany⁴, Université Félix Houphouët Boigny, Côte d'Ivoire⁵

19.00- Reception at Manchester City Hall, Albert Square, Manchester M60 2LA
Session 5B: Information, Communication, Education and Training on Climate Change (Room 4.05)
Session Chair: Valeria Vargas, Colombia

15.00-15.20- Mapping Grounded Actions and Climate Change: A case study of Tea Growers in Assam
Sadaf Javed, Jawaharlal Nehru University, New Delhi, India

15.20-15.40- Segmentation analysis in Climate Asia, and its role in supporting the adaptation of vulnerable communities through meeting their communications needs
Sonia Whitehead, BBC Media Action, UK

15.40-16.00- Coffee break and visit to displays

16.00-16.20- Planning for climate impacts that’s delivering results – Using behaviour change approaches to deliver far reaching reform
Rohan Hamden, Rohan Hamden and Associates, Australia

16.20-16-40- Climate Change and the Greek Electric Company at Skyros Island: The knowledge, attitudes and behavior of workers
Constantina Skanavis, Evangelos Manolas, Aristea Kounani, University of the Aegean, Greece

16.40-17.00- Translators of climate change science or promoters of low-carbon futures?
Climate change and education in the Gambia
Eguavoen, Irit et al., University of Bonn, Germany

19.00- Reception at Manchester City Hall, Albert Square, Manchester M60 2LA
Session 6B- Climate Change and Health (Room: 3.14)

Session Chair: Fátima Alves, Portugal

15.00-15.20- Climate change and health: governance mechanisms in traditional communities of Mosaico Bocaina/Brazil
Andréia Faraoni Freitas Setti, Helena Ribeiro, Edmundo Gallo, Fátima Alves, Ulisses Miranda Azeiteiro
Universidade Aberta and CFE University of Coimbra, Portugal

15.20-15.40- Observatory of Sustainable and Health Territories (OTSS) GIS –Geo-information for the Sustainability of Traditional Communities in Southeastern Brazil
Leonardo Esteves de Freitas, João Crisóstomo Holzmeister Oswaldo-Cruz, Anna Cecília Cortines and Edmundo Gallo
Laboratory of Geo-Hydroecology at Geography Department, Federal University of Rio de Janeiro and Oswaldo Cruz Foundation (FIOCRUZ), Brazil

15.40-16.00- Coffee Break

16.00-16.20 Water supply, climate change and health risk factors: example case of São Paulo - Brazil
Sofia Lizarralde Olivier, Helena Ribeiro
Public Health School, São Paulo University, Brazil

16.20-16.40- Territorial solutions, governance and climate change: ecological sanitation at Praia do Sono, Paraty, Rio de Janeiro, Brazil
Edmundo Gallo et al.
Oswaldo Cruz Foundation, Observatory of the Sustainable, Healthy Areas of Bocaina, Brazil.

16.40-17.00- Discussion

19.00- Reception at Manchester City Hall, Albert Square, Manchester M60 2LA
Friday 4th September 2015
G.36 - Lecture Theatre (09.00-10.00- Plenary session)
Chair: Walter Leal

09.00-09.30- Plenary: Lessons from the 5th Assessment Report of the Intergovernmental Panel on Climate Change, WG II

**Session 2C- Implementing Climate Change Adaptation in Communities, Cities, Countries and via Outreach Programmes (Room 3.16)**
Session Chair: T.A. Olatoye, Nigeria

09.35-09.55- Livelihood options as adaptation to climate variability among households in rural Southwest Nigeria: emerging concerns and reactions
Isaac B. Oluwatayo, University of Limpopo, South Africa

Hannes Lauer, University of Bonn, Germany

10.15-10.35- Climate Variability and Food Security in Tanzania. Evidence from western Bagamoyo
Paschal Arsein Mugabe, College of Basic and Applied Sciences, University of Ghana Legon, Accra, Ghana.

10.35-11.00- Break and visit to displays

11.00-11.20- Climate change adaptive strategies and biodiversity conservation in Oti’s plain (Togo)
AnikoPolo-Akpisso, Kpérkouma Wala, Soulemane Ouattara, Foléga Fousseni, Yao Tano, Université Félix HouphoetBoigny, Abidjan, Côte d’Ivoire

11.20-11.40- Planning and climate change - the case study of the Spatial Plan of the Danube corridor through Serbia
Tijana Crncevic, Omiljena Dzelebdzic, Sasa Milijic
Institute of Architecture and Urban and Spatial Planning of Serbia, Serbia

11.40-12.00- Enabling Regional Adaptation: supporting regional action on climate change
Brent Jacobs¹, Christopher Lee Storm², Watson Suzanne², Dunford Aaron², Coutts-Smith²
University of Technology Sydney, Australia¹, NSW Office of Environment and Heritage, Australia²

12.00-12.20- Dry Season Irrigated Vegetable Production Systems for Poverty Reduction and Business Promotion in sub-Saharan Africa
O. D. Ojo, Nige M. Connaughton, L. O. Olajide-Taiwo, S. O. Afolayan, Horticultural Research Institute, Nigeria

12.20-13.00- Discussion

13.00-14.00- Lunch and visit to displays
Session 4B: Climate Change Adaptation, Resilience and Hazards (including floods) (Room 4.04)
Session Chair: Rohan Hamden, Australia

09.35-09.55- Small scale rain- and floodwater harvesting for horticulture in central-northern Namibia for livelihood improvement and as an adaption strategy to climate change 
Alexander Jokisch¹, Wilhelm, Urban¹, Thomas, Kluge² Technische Universität Darmstadt, Germany¹, Institute for Social-Ecological Research, Germany²

09.55-10-15- Climate Change Adaptation Strategy in Tourist Airports: Challenges and Key Issues
Dimitrios J. Dimitriou, Democritus University of Thrace, Greece

09.55-10.15- The Cycle of Maladaptive Resilience: Insurance and the ‘business as usual’ paradox
Paul O’Hare, Iain White, Angela Connelly Manchester Metropolitan University, UK

10.15-10.35- Vulnerability is dynamic! Conceptualizing a dynamic approach to coastal tourism destinations’ vulnerability
Jillian Student, Wageningen University, The Netherlands

10.35-11.00- Break and visit to displays

11.00-11.20- Adapting to Urban Heat
Candice Delaney, Brent Jacobs, University of Technology Sydney, Australia

11.20-11.40- Modelling adaptation strategies for Swedish forestry under climate and global change – An agent-based approach
Victor Blanco, University of Edinburgh, UK

11.40-12.00- Doing More with Less: Integrating Climate Change Adaptation with Disaster Risk Management
Michael Howes, Griffith University, Australia

12.00-12.20- Coping with climate change uncertainty for adaptation: challenges and opportunities for local water management
Michael Green, Anglia Ruskin University, UK

12.20-12.40- Trade-offs between climate change adaptation and mitigation options for resilient cities: thermal comfort in households
Vera Gregório, Sofia Simões, Luis Dias, Júlia Seixas, Universidade Nova de Lisboa, Portugal

12.40-13.00- Rainfall variability and Change Threatens the Major Tourist Attractions and Tourism in Serengeti National Park Tanzania
Halima Kilungu, Bas Amelung, Rik Leemans, Munishi, P.K.T Wageningen University, The Netherlands

13.00-14.00- Lunch and visit to displays
Session 4C: Climate Change Adaptation, Resilience and Hazards (including floods)  
(Room 3.15)  
Session Chair: Harry Diaz, Canada

09.35-09.55 - Resilient Architectural Design: a method for climate change adaptation in airport infrastructure development  
Paolina Ferrulli, Università degli Studi di Firenze, Italy

09.55-10.15 - Community, University and Governmental Interactions for Disaster Reduction in the Mountainous Region of Rio de Janeiro, SE-Brazil  
Leonardo Esteves de Freitas, Anderson Sato, Nathalia Lacerda, Sandro Schottz, Ana Luiza Coelho Netto, IGEO-UFRJ and FIOCRUZ, Brazil

10.15-10.35 - Towards climate-resilient district development planning in Lao PDR: the CEEbA approach  
Franziska Wolf, Kathrin Rath, Walter Leal Filho, Ignacio Tourino Soto  
1 Hamburg University of Applied Sciences, Germany  
2 IUCN, Laos

10.35-11.00 - Break and visit to displays

11.00-11.20 - Climate Change Adaptation and Socio-Economic Resilience in Mexico’s Grijalva-Usumacinta Watershed  
Santiago Enriquez, David Wilk, Rodolfo Camacho, Michèle Olivier Laird  
Abt Associates, Mexico

11.20-11.40 - Impact of floods on the Economy of Pakistan and measures to reduce their effects  
Muhammad Zeeshan Saeed, Hamburg University of Applied Sciences, Germany

11.40-12.00 - A Stochastic Weather Generator Model for Hydroclimatic Prevision in Urban Floods Risk Assessment in Abidjan District (Cote d’Ivoire)  
Jean Homian Danumah, Kwame Nkrumah University of Science and Technology, Kumasi (Ghana)

12.00-12.20 - Managing natural resources for extreme events: differences in risk perception among urban and rural communities in Sydney, Australia  
Louise Boronyak-Vasco, Brent Jacobs  
University of Technology Sydney, Australia

12.20-13.00 - Discussion

13.00-14.00 – Lund and visit to displays
Session 5B: Information, Communication, Education and Training on Climate Change (Room 3.14)
Session Chair: Edmundo Gallo, Brazil

09.35-09.55- Traditional Communities in Southeastern Brazil
Leonardo Esteves de Freitas, João Cristóstomo Holzmeister Oswaldo-Cruz, Anna Cecília Cortines
IGEO-UFRJ and FIOCRUZ, Brazil

09.55-10.15- Rural women belief system and attitude toward climate change mitigation and adaptation strategies in Nigeria
C.A.O. Akinbami, F. A. Adesina, Obafemi Awolowo University, Ile Ife, Nigeria
J.E. Olawoye, University of Ibadan, Nigeria

10.15-10.35- Peoples' Perception, Awareness and Adaptation to Climate Change in Osun State, Nigeria
Osunsina Israel Oluyinka, Alabi, Olubunmi Ibrahim, Federal University of Agriculture, Abeokuta, Nigeria

10.35-11.00- Break and visit to displays

11.00-11.20- Trends and Issues of Climate Change Education in Japan
Keiko Takahashi, National Institute for Environmental Studies, Tsukuba, Japan

11.20-11.40- Ex-ante adoption of agro-weather information sources for climate-smart agriculture among farmers in Embu and Ada'a Districts of Kenya and Ethiopia: A qualitative analysis
Oladele O.I., Shimeles A., Mamo G., Aregawi F., Gitika M. P., Ngari F., Braimoh A. K.
North West University Mafikeng Campus South Africa

11.40-12.00- Societal Transformation, buzzy perspectives towards successful Climate Change Adaptation: An Appeal to Caution
Sabine Tröger, University of Bonn, Germany

12.00-12.20- Assessing Student Perceptions and Comprehension of Climate Change Science in Portuguese Higher Education Institutions
Paulo Talhadas dos Santos¹, Paula Bacelar-Nicolau², Miguel Ângelo Pardal³, Ulisses Miranda Azeiteiro⁴
Universidade do Porto, Portugal¹, Universidade Aberta, Portugal², Universidade de Coimbra³, Universidade Aberta, Portugal⁴

12.20-12.40- Climate change adaptation to Indian agriculture- Assessing farmers’ perception and adaptive choices
Chandan Kumar Jha, National Institute of Industrial Engineering, Mumbai, India

12.40-13.00- Discussion

13.00-14.00- Lunch and visit to displays
Session 6B- Climate Change and Health (Room: 3.10)
Session Chair: Mark Cresswell

09.35-09.55- Obstetric Hemorrhages Depends From Climatic Conditions
Munavvara Dodkhoeva, Avicenna Tajik State Medical University, Tajikistan

09.55-10.15- Modelling vector borne diseases with climate model drivers: their importance and cautions in usage
Andy Morse, University of Liverpool, UK

10.15-10.35- Vector-Borne Diseases In Pakistan due to Climate Change
Syed Zaid Hasan, Hussain Khan Hamburg University of Applied Sciences, Germany

10.35-11.00- Break and visit to displays

11.00-11.20- Heat Vulnerability, Poverty and Health Inequalities in Urban Migrant Communities: A Pilot Study from Vienna
Laura Wiesboeck, and Anna Wanka, University of Vienna, Austria

11.20-12.00- Discussion

13.00-14.00- Lunch and visit to displays

Session 6- International collaboration on knowledge sharing and community-based climate change adaptation in Canada, India, Pakistan and Nepal
Session Chairs: Nicole Klenk, University of Toronto, Canada & Michaela Hynie, York University, Canada

09.35-09.55- Gender and Ethnic Practice: Can gender based practice in ethnic groups illustrate impacts of climate change?  Aditya Bastola et al.

09.55-10.15- Compelled migration as adaptation to environmental degradation: Comparing causes, meanings and consequences in South Asia and Canada. Michaela Hynie et al.

10.15-10.35- Persistent Environmental Change: Can a Commons Approach Help to Better Respond? Prateep Nayak et al.

10.35-11.00- Break and visit to displays

11.00-11-20- A Knowledge Application Pyramid for Climate Change Adaptation. James MacLellan et al.

11.20-12.00- Discussion

13.00-14.00- Lunch and visit to displays
Friday 4th September 2015
G.36 - Lecture Theatre (14.00-15.00- Final Plenary Session)
Session Chair: Walter Leal

14.00-14.45- Round Table- From Manchester to Paris: the future of climate change adaptation
Participants: UNEP, Met Office, Climate UK, City of Manchester

14.45-15.00- Hand over of the best papers Awards

15.00- Close of the event