

**Conference Programme**  
**3<sup>rd</sup> International Scientific Conference**  
**Venue: L. H. Facey Lecture Theatre (LT-9A)**  
**University of Technology, Jamaica**  
**June 25 – 27, 2014**

DAY 1: WEDNESDAY, JUNE 25	
8:00 am – 9:00 am	Registration
9:00 am – 10:45 am	<p><b>Opening Ceremony</b></p> <p><b>Chair: Dr. Kamilah Hylton, Head, School of Natural and Applied Sciences, Faculty of Science and Sport, UTech</b></p> <p><b>National Anthem</b></p> <p><b>Welcome</b></p> <p>Ambassador the Hon. Burchell Whiteman, OJ, Acting President, UTech</p> <p><b>Overview of Conference</b></p> <p>Dr. Debbie-Ann Gordon-Smith, Director, Centre for Science-based Research, Entrepreneurship and Continuing Studies, Conference Chair</p> <p><b>Greetings</b></p> <p>Professor Colin Gyles, Dean, Faculty of Science and Sport</p> <p>Mr. Albert Daley, Principal Director, Climate Change Division, Ministry of Water, Land, Environment and Climate Change</p> <p><b>Introduction of the Keynote Speaker</b></p> <p>Dr. Debbie-Ann Gordon-Smith, Director, Centre for Science-based Research, Entrepreneurship and Continuing Studies, Conference Chair</p> <p><b>Keynote Address – Plenary Lecture:</b></p> <p><b>“Mitigation of Climate Change: Report of Working Group III, IPCC 5<sup>th</sup> Assessment and Implications for Jamaica”</b></p> <p><b>Professor Emeritus Abraham Anthony Chen, University of the West Indies, Mona</b></p>
10:45 am – 11:00 am	Coffee Break
11:00 am – 12:00 pm	<p><b><i>Session 1: Climate Science: Enabling Informed Action for Development I</i></b></p> <p><b><i>Chair: Prof. Colin Gyles, UTech</i></b></p> <p><b>Lloyd Gardner</b>, Stevie Henry – Climate change and Caribbean development: Examination of approaches to land use development and planning.</p> <p><b>Michael A. Taylor</b>, Tannecia S. Stephenson, Jayaka Campbell – Modelling future climate change in the Caribbean: Why it is important and what we now know.</p>

12:00 pm – 1:00 pm	Lunch Room #18B-13-15, School of Hospitality and Tourism Management, UTech
1:00 pm – 2:15 pm	<p><b><u>Session 2:</u>    <i>Climate Science: Enabling Informed Action for Development II</i></b>  <b>Chair:</b>        <b><i>Prof. Michael Taylor, UWI</i></b></p> <p><b>Gaitrie Satnarain</b> – Carbon footprint of large and small scale gold mining in the Rosebel Goldmine Concession in the Brokopondo District, Suriname.</p> <p><b>Jodi Spence</b>, Sanchia Miller, Ryan D. Francis, Julia Brown, Ann Marie Smith – Overcoming the impact of climate change on the agriculture sector: Lessons from the SRC’s response to an industry under threat.</p> <p><b>Tracy-Ann Hyman</b>, Michael Taylor, Shanice Bedward, Dorlan Burrell – Climate change adaptation and disaster risk reduction: Some lessons and good practices from three Jamaican communities.</p>
2:15 pm – 2:30 pm	Break
2:30 pm – 3:45 pm	<p><b><u>Session 3:</u>    <i>Climate Science: Enabling Informed Action for Development III</i></b>  <b>Chair:</b>        <b><i>Mr. Maurice McGlashan-Powell, UTech</i></b></p> <p><b>Dale R. Rankine</b>, Michael A. Taylor, Jane E. Cohen, Tannecia S. Stephenson, Leslie A. Simpson, Andre D. Coy – Modelling drought tolerance in root crops – An applied application of climate data.</p> <p><b>Roxann K. Brown</b>, Tannecia S. Stephenson, Michael A. Taylor – Future changes in extremes for the Caribbean – A statistical downscaling perspective.</p> <p><b>Donovan Campbell</b>, Tashana Malcolm, Karyll Aitcheson, Dianne Dormer, Melisa March, Nadia Ferguson, Keron Morris, Dorlan Burrell – Measuring livelihood vulnerability to climate variability and change in Jamaica’s agricultural communities.</p>
3:45 pm – 3:50 pm	Break
3:50 pm – 4:30 pm	<p><b><u>Session 4:</u>    <i>Climate Change and the Marine Environment</i></b>  <b>Chair:</b>        <b><i>Dr. Debbie-Ann Gordon Smith, UTech</i></b></p> <p><b>Ariana Marshall</b> – Informing sea-level rise adaptation strategies: Application in Florida and the Caribbean.</p>
5:00 pm – 8:00 pm	Welcome Reception The Skywalk, School of Hospitality and Tourism Management, UTech

<b>DAY 2: THURSDAY, JUNE 26</b>	
9:00 am – 10:00 am	Registration and Morning Coffee
10:00 am – 11:30 am	<p><b><u>Session 5:</u> <i>Alternative Sources of Energy</i></b>  <b>Chair:</b> <i>Dr. Ruth Potopsingh, UTech</i></p> <p><b>Michael Coley</b>, Nico-Lisa P. Morris, Edward Dixon – Sustainable production of biodiesel in Jamaica – Challenges and opportunities.</p> <p><b>Charlton Tavares</b> – Brief review of selected lanthanide-transition-metal oxides which are potential candidates for improved photovoltaic electrodes and artificial photosynthesis for hydrogen.</p> <p><b>Ruth Potopsingh</b>, Therese Chambers, David Cooke – JPS/UTech 100 kilowatt solar PV system – An industry-academia collaboration.</p>
11:30 am – 12:00 pm	<p><b>Partner Presentation - Jamaica Civil Aviation Authority</b>  <b>Althea Roper</b> – Climate change activities with respect to the aviation industry.</p>
12:00 pm – 1:00 pm	Lunch Room #18B-13-15, School of Hospitality and Tourism Management, UTech
1:00 pm – 2:15 pm	<p><b><u>Session 6:</u> <i>Climate Change and its Effects on Small Island Developing States</i></b>  <b>Chair:</b> <i>Dr. Orville Grey, Ministry of Water, Land, Environment and Climate Change</i></p> <p><b>Marium Alleyne</b>, Leonard Nurse – Assessing the vulnerability of Holetown, Barbados to relative sea level rise and storm surge.</p> <p><b>Tracy-Ann Hyman</b>, Michael Taylor, Jennifer Horney – Community early warning systems for mitigating hazards in Small Island States.</p> <p><b>Sophia Emberson-Bain</b> – Could world heritage listing assist Small Island Developing States tackle climate change impacts and their economic depression?</p>
2:15 pm – 2:30 pm	Break
2:30 pm – 3:45 pm	<p><b><u>Session 7:</u> <i>Climate Change Education</i></b>  <b>Chair:</b> <i>Dr. Andrew Lamm, UTech</i></p> <p><b>Adonna Jardine-Comrie</b> – Climate change education and school curricula in Jamaica.</p> <p><b>Nadia-Deen Ferguson</b>, Melisa March – Educating and empowering youth for action against climate change: Climate change action training.</p> <p><b>Simon Yalams</b>, Trace Graham, Terrain Russell, Andrew Walker – Building action competence in climate change education: Providing students with the tools to assess the need for alternative energy sources on the UTech Papine campus.</p>
3:45 pm – 4:15 pm	Closing Ceremony
<b>DAY 3: FRIDAY, JUNE 27</b>	
7:30 am – 5:00 pm	Outing