

Conference Programme
5th International Scientific Conference
University of Technology, Jamaica
July 19 - 20, 2018

DAY 1: THURSDAY, JULY 19 VENUE: LECTURE THEATRE 50	
8:00 am – 9:00 am	Registration
9:00 am – 11:30 am	<p>Opening Ceremony</p> <p>Chair: Damian Nesbeth, Lecturer, Faculty of Science and Sport</p> <p>National Anthem</p> <p>Welcome</p> <p>Professor Stephen Vasciannie, President, University of Technology, Jamaica</p> <p>Overview of Conference</p> <p>Dr. Andrew Lamm, Director, Centre for Science-based Research, Entrepreneurship and Continuing Studies</p> <p>Greetings</p> <p>Ms. Andrea Gisselle Burbano Fuertes, Programme Specialist, UNESCO Cluster Office for the Caribbean</p> <p>Mr. Patrick Williams, Vice-Dean, Faculty of Science and Sport</p> <p>Introduction of the Keynote Speaker</p> <p>Ms. Christine O’Sullivan, Head of Division, Continuing Studies and Distance Learning, Centre for Science-based Research, Entrepreneurship and Continuing Studies, Conference Chair</p> <p>Keynote Address – Dr. K’adamawe K’nIfe, Director, Centre for Entrepreneurship Thinking and Practice, UWI, Mona</p> <p>“The Role of The Social Economy in accomplishing the Sustainable Development Goals – understanding the Jamaican performance on the Social Progress Index”</p>
11:30 am – 11:50 am	Coffee Break
11:50 am – 1:00 pm	<p><u>Concurrent Session 1A: Improving National Security</u></p> <p>Chair: Mr. Kirk Wilson, UTech, Ja.</p> <p>Latoya Foote, Eric Garraway – “Bugs!”, the forgotten crime fighters</p> <p>Henry Lewis, Jr. – Gang violence and national security in Jamaica: Implications for achieving the United Nations’ Sustainable Development Goals</p> <p>Rebecca Tortello, Fern McFarlane – “Gotcha- Caught Doing Something Good” – Shifting attitudes and improving outcomes through a structured student support framework</p>

1:00 pm - 2:00 pm	Lunch Rooms 47C3 and 47C4
2:00 pm – 3:20 pm	<p><i>Concurrent Session 2A: Improving Educational Quality I</i> <i>Chair: Dr. Adonna Jardine-Comrie, UTech, Ja.</i></p> <p>Zelmira May (Plenary Speaker) – STI for development: How to meet the goals of Agenda 2030</p> <p>Rebecca Tortello – Game based learning – A win-win</p> <p>Rochelle Ferguson, Ceceile Minott, Masie Wint – STEAM and the project approach: A case study</p>
3:20 pm – 3:30 pm	Break
3:30 pm – 4:40 pm	<p><i>Session 3: Improving Educational Quality II</i> <i>Chair: Dr. Andrew Lamm, UTech, Ja.</i></p> <p>Paul Ivey, Ruth Potopsingh – Contributing to the UN’s Sustainable Development Goals through curriculum design aimed at producing ‘Innovation Capable’ graduates: The case of the Master’s degree in Sustainable Energy and Climate Change</p> <p>Cynthia Perriel-Clarke, Leonie Clarke – Aligning family and consumer studies (FCS) with the UN’s Sustainable Development Goal to end poverty</p> <p>Khalil Campbell - Professional re-certification in the hospitality industry: A proposed framework for re-certification and up-skilling food service professionals in Jamaica</p>
5:00 pm – 7:00 pm	Welcome Reception Amphitheatre

DAY 1 (CONTINUED)

DAY 1: THURSDAY, JULY 19 VENUE: LECTURE THEATRE 49	
11:50 am – 12:40 pm	<p><i>Concurrent Session 1B: Energy Security</i> <i>Chair: Dr. Ruth Potopsingh, UTech, Ja.</i></p> <p>Charmagne Mortley, Lisa Bramwell – The emerging bio-economy and its relevance to achieving energy security in the Caribbean</p> <p>David Barrett – Jamaica’s National Energy Policy – The tale of an overachiever</p>
12:40 pm – 1:00 pm	<p><i>Partner Presentation – National Health Fund</i> <i>Ms. Amanda Daley (Clinical Pharmacist, Bustamante Hospital for Children)</i></p>
1:00 pm – 2:00 pm	<p>LUNCH Rooms 47C3 and 47C4</p>
2:00 pm – 3:20 pm	<p><i>Concurrent Session 2B: Health and Medicine I</i> <i>Chair: Dr. Donna-Marie Wynter-Adams, UTech, Ja.</i></p> <p>Marshall Tulloch-Reid, Novie Younger-Coleman, Rainford Wilks, Jacqueline Duncan, J. Peter Figueroa – Sex-specific approaches are needed to address hypertension in Jamaica</p> <p>Modupeola Abayomi, Amusa Adebayo, Deon Bennett, Roy Porter, Janet Campbell, Garth Dawkins – Phytochemical testing and <i>in vitro</i> antibacterial activity of <i>Bixa orellana</i> (Annatto) seed extract</p> <p>Nickania Pryce, Amusa Adebayo, Deon Bennett, Eugenie Brown-Myrie – Formulation and evaluation of a fixed dose combination capsule containing atenolol, enalapril maleate and hydrochlorothiazide</p> <p>Susan Muir – Innovative computer-based sports and health informatics: A translational multi-disciplinary research agenda</p>
3:20 pm – 3:30 pm	<p>Break</p>
5:00 pm – 7:00 pm	<p>Welcome Reception Amphitheatre</p>

DAY 2: FRIDAY, JULY 20
VENUE: LECTURE THEATRE 50

8:00 am – 9:00 am	Registration
9:00 am – 10:30 am	<p><i>Session 4: Mitigating Against Environmental Impacts I</i> <i>Chair: Miss Christine O’Sullivan, UTech, Ja.</i></p> <p>Michael Taylor (Plenary Speaker) – In the pursuit of development – Climate matters!</p> <p>Ruth Potopsingh, Omar Alcock – Policy recommendations for cleaner and more efficient transport fuels and vehicles for Jamaica</p> <p>Miguel Thaxter, Michael Coley, John Boman – Towards development of an air quality index for Kingston, Jamaica</p> <p>Kyle Gooden, Romario Morgan, Lisa Bramwell – Air dispersion modelling using AERMOD</p>
10:30 am – 10:45 am	Coffee Break
10:45 am – 12:00 pm	<p><i>Session 5: Mitigating Against Environmental Impacts II</i> <i>Chair: Mr. Patrick Williams, UTech, Ja.</i></p> <p>Nikki Bramwell, Edward Hammill, David Booth – Habitat edge preference by seagrass fish changes under predatory threat</p> <p>John Hall – The effect of dangerous prey on anoline hatchlings in Jamaica</p> <p>Patricia Green- Historic urban landscapes in Small Island Developing States (SIDS) mitigating against environmental impacts: Case study of Trench Town, Kingston, Jamaica WI</p>
12:00 pm – 12:20 pm	<i>Partner Presentation – Garland Law Garland Waugh (Attorney-at-Law)</i>
12:20 pm – 1:20 pm	LUNCH Rooms 47C3 and 47C4

DAY 2: FRIDAY, JULY 20 VENUE: LECTURE THEATRE 50	
1:20 pm – 2:10 pm	<p><u>Session 6: Agriculture and Food Security</u> Chair: Mr. Damian Nesbeth, UTech, Ja.</p> <p>Deiondra Robinson, Soyanni Holness, Paula Tennant, Marcia Roye – Identification and molecular characterization of viruses infecting tomato, scotch bonnet and sweet pepper using small-RNA next generation sequencing</p> <p>Jordan Bennett – Leveraging convolutional artificial neural networks in machine learning as a weed science for combating crop yield growth issues</p>
2:10 pm – 2:30 pm	Break
2:30 pm – 4:00 pm	<p><u>Session 7: Entrepreneurship and Innovation</u> Chair: Dr. K'adamawe K'nife, UWI</p> <p>Andrea Barrett – Intellectual property (IP) and its significance in promoting innovation</p> <p>Ralston Walters - Toward the development of a marijuana industry in Jamaica</p> <p>Maurice McGlashan-Powell, Clive Simpson – Integrated optics, magneto optics, photonics and magneto acoustic – The future of high speed computing</p> <p>Norman Israel – Using low cost, high performance computing to do inter-disciplinary research at an emergent university</p>
4:00 pm – 4:20 pm	Closing Ceremony

DAY 2: FRIDAY, JULY 20 VENUE: LECTURE THEATRE 49 SYMPOSIUM: TOXIC WORKPLACES – DIAGNOSIS AND TREATMENT	
9:00 am – 12:00 pm	<p>Chair: Dr. Andrew Lamm, UTech, Ja.</p> <p>Mrs. Andrea Hardware – Physical hazards</p> <p>Associate Professor Alverston Bailey – Chemical hazards</p> <p>Professor John Lindo – Biological hazards</p> <p>Dr. Aggrey Irons – Psychological hazards</p>