



University of Technology,  
Jamaica  
Faculty of The Built Environment

# 2nd International Built Environment Conference

November  
**7<sup>TH</sup> & 8<sup>TH</sup>**  
2019



Programme  
Schedule

THEME  
Sustainable  
Development  
in the Built Environment  
for **National Growth**



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# Chairman's Welcome Message



It is my utmost privilege to welcome everyone to our 2nd International Built Environment Conference of the Faculty of the Built Environment at the University of Technology, Jamaica under the theme, “Sustainable Development in the Built Environment for National Growth”. This conference represents a coming-together of all the facets of built environment industry players, stakeholders and students highlighting the issues and proffering solutions. It augurs great expectations for research and development for our University and beyond. I welcome especially on the behalf of our President, Professor Stephen Vasciannie, Dean, Dr. Garfield Young, our Keynote Speaker, Senator the Hon. Pearnel Charles, Jr, Minister without Portfolio in the Ministry of Economic Growth and Job Creation with responsibility for Water, Housing, and Infrastructure. Additionally, I extol and also welcome our six plenary speakers, extending to them our deep-felt gratitude in taking time from their

busy schedules to share with us issues and sustainable solutions to problems associated with built environment development.

To our sponsors, we salute and welcome you onboard, hoping for mutual benefits to be derived from this experience. We desire to ensure a continued collaboration with you in our other upcoming conferences. We recognise the participation of National Commercial Bank as a Gold sponsor as well as Café Blue, Geoland Title, Sherwin Williams, the National Housing Trust and our very own University of Technology, Jamaica, School of Graduate Studies Research and Entrepreneurship as Silver sponsors. The National Land Agency, GeoTechVison, and the Urban Development Corporation as Booth Sponsors.

To our many presenters who would have spent long hours preparing for this conference, we welcome you and hope your thought-provoking deliveries will generate much interest and inspiration, also that your research and work will result in effective and sustainable solutions.

Allow me to pay tribute to my conference organising team and others in the background helping to ensure the success of this conference, including those who have devoted key administration and technical support, without whom all this would have been impossible.

Most importantly, we welcome all our participants and hope sincerely that this conference will meet your expectations. It promises to unearth new thinking, refine and realign strategies, plus bring forth change for national growth with sustainable development.

*Dr Glendon G. Newsome*

ASSOCIATE PROFESSOR & CONFERENCE CHAIR

# Dean's Message

The Faculty of the Built Environment is pleased to host its second international conference under the theme, *Sustainable Development in the Built Environment for National Growth*. This key event forms part of our strategic approach to strengthen research and engage in critical dialogue with staff, students, private and public sector players as built environment professionals. We are proud to launch, during the conference, our research degree programme - the MPhil/PhD Built Environment. This is a unique and timely course of study geared towards innovating research seeking to find solutions for the built environment in the Caribbean and other Small Island Developing States (SIDs). We invite applicants, also local and international partnerships, in this important research venture.

We especially welcome the keynote and plenary speakers along with our other presenters. We recognize, in a special way, the kind sponsorship of the National Commercial Bank, GeoLand Title Ltd, National Housing Trust, GeoTech Vision Enterprise, Sherwin Williams Paints, Urban Development Corporation, National Land Agency, Café Blue and the School of Graduate Studies Research and Entrepreneurship at Utech, Jamaica.

Our conference falls during the celebration of World Town Planning Day, so we welcome the partnership with the Jamaica Institute of Planners (JIP), incorporating their activities in celebration as part of our conference.

The faculty is indebted to the diligent conference planning committee, ably led by Dr. Glendon Newsome.



I wish for all presenters and participants, an engaging, fruitful and enjoyable conference experience. We invite your on-going partnership with FOBE in all our research endeavours, for us to engage together to positively impact our built environment as we seek to find solutions for sustainable development and growth.

*Dr Garfield Young*

DEAN & ASSOCIATE PROFESSOR  
FACULTY OF THE BUILT ENVIRONMENT

# Conference

Sustainable Development in the Built  
Environment for National Growth

# DAY ONE

Thursday

**November 7**

**2019**



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**7:30am**

Registration

**8:30am**

Networking

# [ Opening Ceremony ]

8:45am - 10:30am

Lecture Theatre #50

Dr Glendon Newsome

**01**

National Anthem

**02**

Opening Remarks

Dr. Glendon Newsome

Conference Chair

**03**

Invocation

Mr. Wycliffe Frater

**04**

Remarks

Dr. Paul Ivey, AVP Graduate Studies Research and

Entrepreneurship

**05**

Dean's Remarks & FOBE MPhil/PhD

Built Environment Course Launch

Dr. Garfield Young,

Dean of Faculty of Built Environment,

University of Technology, Jamaica

**06**

Entertainment

UTech, Jamaica Steel Pan

Panatrixx

**07**

Introduction of  
Keynote Speaker

Dr. Elizabeth Pigou-Dennis

Vice-Dean of Faculty of Built Environment,

**08**



**Keynote Address:**

**Senator the Hon. Pearnel Charles, Jr**

**Minister without Portfolio in the Ministry of Economic  
Growth and Job Creation with responsibility for Water,  
Housing, and Infrastructure**

**09**

**Break**

**UTech, Jamaica Hotel (Lower level & Terrace)**

## Plenary Session #1

Lecture Theatre #50 | 11:00-12:30pm

Moderator  
Mr. Laurence Neufville



**10**

Dr. Silburn Clarke  
CEO at Spatial Innovision Limited Caribbean  
Nations Information Technology



**11**

Mr. Lenworth Kelly  
President of the Incorporated Master  
Builders Association of Jamaica



**12**

Mr. Christopher  
Hamilton  
President, Jamaica Institute of Engineers

**13**

**Lunch**

UTech, Jamaica Hotel (Lower level & Terrace)

## Plenary Session #2

Lecture Theatre #50 | 2:00-3:30pm

Moderator  
Arch. Jacquiann Lawton



**14**

Ms. Suzanne Stanley  
CEO, Jamaica Environment Trust



**15**

Mr. Leonard Francis  
Director of Spatial Planning, National Environ-  
ment and Planning Agency of Jamaica



**16**

Arch. Robert Woodstock  
Director Harold Morrison, Robert Woodstock  
Associates

NCB  
Plenary Session #3  
Lecture Theatre #50 | 3:30-4:45pm

Moderator  
Mr. Lebert Langley



Mr. Ric Thompson  
National Commercial  
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Kingston Restoration  
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18  
Wrap-up Day 1

Rapporteurs Ms Trecia Williams & Mr.  
Keniel Roberts

Thank you for your support



# Conference **World Town Planning Day**



# DAY TWO

Friday

**November 8  
2019**



**7:30am**

Registration

**8:30am**

Networking

## Technical Session #1

### Urban-Regional Planning & Sustainable Smart Cities

Room 47B-4 | 8:45-10:15am

Moderator  
Dr. Copeland Stupart

# 1/01

*Authors: Garfield Wayne Hunter, Gideon Sagoe*  
Re-imagining urban planning and climate change  
nexus using Multi-criteria Decision Analysis

# 1/02

*Author: Oswy Gayle*  
Sustainable Smart Cities in Jamaica – Where  
Are We and What Will It Take

# 1/03

*Authors: Jacquiann Lawton, Sana Williams and Jheanine  
Wiggian ( MArch 2 , 2018-19)*  
Urban Design and Architecture, the Case of  
Ocho Rios, St. Ann, Jamaica

# 1/04

*Author: L. Mark Taylor*  
Whither the Public Realm: Kingston's Urban  
Public Spaces and Future Possibilities

## Technical Session #2

### Geomatics, Geospatial Sciences & Technologies

Room 47B-5 | 8:45-10:15am

Moderator  
Dr. Glendon Newsome

# 01/2

*Author: Chaplin Williams*  
Defining a workflow from unmanned aerial system  
(UAS) data to 3D Cadastre

# 02/2

*Authors: Trecia Williams, Keniel Roberts, Ravion Ashman,  
Ricardo Rock, Nathaniel Reid, Romario Taylor*  
An analysis of the applicability of UAVs in Participatory  
Cadastral Mapping, Case Study: Essex Valley, St. Elizabeth,  
Jamaica

# 03/2

*Authors: Jenevy Smith, Andrea Williamson, Patricia Green*  
Port Royal ArcGIS solutions to develop an Inventory of  
the historic Town of Port Royal, Jamaica

# 04/2

*Authors: Stephney Duhaney, Laurence Neufville*  
Optimized Landfill Site Selection Using an Integrated  
Approach of GIS and Multi-Criteria Decision Analysis:  
An Evaluation of the Riverton Watershed

**Break 10:15AM**

**UTech, Jamaica Hotel (Lower level & Terrace)**

## Technical Session #3

### Ecology, the Natural Environment & Disaster Management

Room 47B-4 | 10:45-12:15pm

Moderator  
Dr. Carol Archer

# 3/01

*Author: Melissa Salmon*

Hurricane Safe and Unsafe Police Buildings: Case Studies in Southern and Eastern Jamaica

# 3/02

*Authors: Ricardio Madden and Amani Ishemo*  
Farming Sustainability localized area of East Rural St Andrew

# 3/03

*Authors: Garfield Young, Laurence Neufville*  
The safety of public buildings for sustainable development - the JSSP, a case study

# 3/04

*Author: Earl Bailey*  
Water-harvesting in Rock Hall, St. Andrew

## Technical Session #4

### Construction Cost, Project Management & Alternative Dispute Resolution

Room 47B-5 | 10:45-12:15pm

Moderator  
Ms. Sherona Simpson

# 01/4

*Author: Nigel Cooper*

The Under-Utilized of Cost-Plus Method of Pricing in Jamaican Construction Projects

# 02/4

*Author: Prathiba Mahanamahewa*  
A Critical Analysis of the Construction Delay Claims: The Case of Jamaica

# 03/4

*Authors: Junior A. Bennett, Haldane Johnson & Sharon Nelson*  
Research Insights on Productivity in Jamaica Jamaica

# 04/4

*Author: Lenox Plummer*  
Impact of Poor Construction Project Supervision on Jamaica's Public Sector Projects

**Lunch 12:15AM**

**UTech, Jamaica Hotel (Lower level & Terrace)**

# Plenary Session #4

## Panel Discussion

Lecture Theatre #50 | 1:45-3:15pm

Moderator  
Dr. Garfield Young

### Panel Discussions MPhil / PhD Built Environment

### Specialisation Areas

- A** Architecture
- E** Environmental Sustainability and Climate Change
- C** Construction Technology and Management
- G** Geomatics & Geoinformatics
- M** Urban and Rural Land Management

## Panelists



**A** *Guenet Sissaye  
Raya-Anderson*



**A** *Tamara Wallace-  
Bradshaw*



**E** *Dennis  
Chong*



**C** *Kingsley  
Kennedy*



**G** *Nickesia  
Lindsay*



**M** *Marion  
Brown*



**M** *Peter  
Thompson*



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## Technical Session #5

### Architecture & Engineering

Room 47B-4 | 3:15-4:45pm

Moderator  
Dr Patricia Green

# 5/01

*Author: Tiffany Givans*

A parametric analysis of the performance of concrete containing recycled Sikaswell s2

# 5/02

*Author: Margaret Jarrett*

Sacred Space and Meaning in the Vernacular Architecture of Charles Town

# 5/03

*Author: Carl-Olaf Kaiser*

Fire Prevention: Important Part for Sustainable Buildings

# 5/04

*Author: Mlela Matandara-Clarke*

The Impact of BIM on the design and Jamaican construction industry Case Study: Jewel, Singapore and Aylesbury, UK

## Technical Session #6

### World Town Planning Day



Room 47B-15 | 3:15-4:45pm

Moderator  
Dr Earl Bailey

# 01/6

*Jamaican Institute of Planners (JIP) Session*

# 02/6

*Jamaican Institute of Planners (JIP) Session*

# 03/6

*Jamaican Institute of Planners (JIP) Session*

# 04/6

*Jamaican Institute of Planners (JIP) Session*

## Wrap-up Day 2

Rapporteurs Ms Trecia Williams & Mr. Keniel Roberts

# Closing Ceremony

Lecture Theatre #50/Open Courtyard  
4:45-5:30pm

Master of Ceremonies  
Dr. Garfield Young

Dean of Faculty of Built Environment,  
University of Technology, Jamaica

## Greetings from Government Town Planner

*Mr. Peter Knight*

Chief Executive Officer, National Environment  
and Planning Agency of Jamaica

## Remarks & Introduction of Guest Speaker

*Mr. Trevion Manning*

President, Jamaican Institute of Planners

## World Town Planning Day Address:

*The Hon. Daryl Vaz, M.P.*

Minister without Portfolio in the Ministry of Economic  
Growth and Job Creation with responsibility for Land  
Environment, Climate Change and Investment



## Entertainment and Cocktails

## Vote of Thanks

Conference Chair Dr Glendon Newsome

HOP1 – Ubuntu



HOP2 – Out of Many, One People



HOP3 – The Grand Verandah



HOP4 – The National Flower



HOP5 – The National Veranda





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Climate Change
- Geomatics and  
Geoinformatics
- Urban and Rural  
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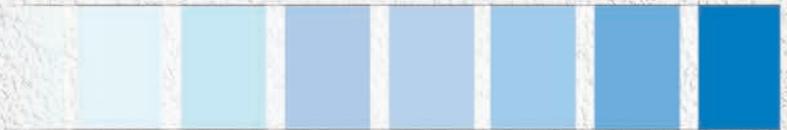
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