

# Jamaica Institution of Engineers' Conference

## *"Jamaica's Development through Engineering Innovations"*

### Monday, September 18, 2017 (Day 1)

8:00 - 9:00	Conference Registration
9:00 - 9:45	Opening Ceremony
9:45 - 10:00	<b>COFFEE BREAK</b>
<b>TECHNICAL SESSION 1:</b>	<b>Energy Resources Management</b>
10:00 - 10:30	An Alternative Approach to using Hydrogen to reduce Energy Costs to Consumers <b>Eng. Noel Sinclair, University of Technology, Jamaica</b>
10:30 - 11:00	JPS Bogue: Re-Imagined Energy <b>Mr. Noel Watson, Jamaica Public Service Company Ltd.</b>
11:00 - 11:30	An Independent Grid: A necessary condition for a reliable, economically competitive supply of Energy <b>Eng. Noel Sinclair, University of Technology, Jamaica</b>
11:30 - 12:00	Distributed Energy Resource <b>Eng. Andre A. Lindsay, Office of Utilities Regulation</b>
12:00 - 12:30	The Power of Mechanical Insulation <b>Mr. Merryck Simmonds, MS and Associates Ltd.</b>
12:30 - 1:30	<b>LUNCH</b>
1:30 - 2:30	<b>JN Bank Limited Presentation</b>
<b>TECHNICAL SESSION 2:</b>	<b>Software Engineering &amp; Technology</b>
2:30 - 3:00	Network Congestion Management using Congestion Free Routers <b>Eng. Christopher Udeagha, University of Technology, Jamaica</b>
3:00 - 3:30	Software Defined Network Security - A survey study of Distributed Denial of Service Attacks <b>Dr. Sean Thorpe, Mr. Duane Williams, Mr. Shane Barnes, University of Technology, Jamaica</b>
3:30 - 4:00	Low Cost Wireless Patient Monitoring System <b>Mr. Jason Brown, University of the West Indies, Mona, Jamaica</b>
4:00 - 4:30	DNA Analysis: To investigate the use of computer methods and algorithms in the analysis and interpretation of conserved genome sequences <b>Mr. Kevon Graham, University of Technology, Jamaica</b>

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Tuesday, September 19, 2017 (Day 2)

8:00 - 9:00            **Registration**

9:00 - 9:30            Key Presentation - KCT – EPC 1<sup>st</sup> Phase Expansion Works  
**Mr. Eric Fernagu, Project Manager, Egis Ports**

### **TECHNICAL SESSION 1: Sustainable Development and Climate Change**

9:30 - 10:00            The Proposed Redevelopment of Downtown Kingston  
**Dr. Damian General Manager, Urban Development Corporation**

10:00 - 10:30            **COFFE BREAK**

10:30 - 11:00            Jamaica's Sustainability Development Activities and the Impact of Climate Change  
**Eng. Richard Lawrence, Bureau of Standards Jamaica**

11:00 - 11:30            An Approach to Climate Change Adaption for Negril Using a Hybrid Structure  
**Dr. David Smith, Smith Warner International,  
Ms. Victoria Grant, Ms. Rachell Mitchell, Ms. Samantha McKinley, Mr. Marc McFarlane, University of the West Indies, Mona, Jamaica**

11:30 - 12:00            Sustainable Housing in Barbados: A Case for the Shipping Container Home  
**Mr. Akeem Nurse, University of the West Indies, St. Augustine, Trinidad**

12:00 - 1:00            **LUNCH**

### **TECHNICAL SESSION 2: Advancement in Transportation Engineering**

1:00 - 1:30            Child Road Fatalities and Injury: an Analysis of the Jamaican Road Users' Behaviour Patterns and its Impact on Child Safety  
**Ms. Rachelle McFarlane, University of Technology, Jamaica**

1:30 - 2:00            Intelligent Transport System (ITS) technologies - Potential impact on traffic management in urban Jamaica  
**Ms. Michelle March, University of Technology, Jamaica**

### **TECHNICAL SESSION 3: Hazard and Risk Assessment**

2:00 - 2:30            Jamaica Drainage Master Plan  
**Mr. Andrew Evans, Stanley Consultants, Inc.**

2:30 - 3:00            Analysis of Rainfall Intensity-Duration-Frequency Relationship for Jamaica  
**Mr. Evan Thompson, Meteorological Service Division**

3:00 - 3:30            A Spatially Explicit and Dynamic Approach to Flood Risk Assessment in Cave, Westmoreland, Jamaica (Part 2)  
**Ms. Tracy Hyman, Dr. Barbara Carby, The Institute of Sustainable Development, the University of the West Indies, Jamaica**

### **TECHNICAL SESSION 4: Disaster Mitigation**

- 3:30 - 4:00 Earthquake Loss Estimations for Seismic Events with Secondary Effects: A Case Study in Kingston, Jamaica  
**Eng. Kemmar Webber, National Works Agency**
- 4:00 - 4:30 A Case for the Production and Use of Coconut Coir Slope Stabilizers  
**Ms. Crystal Cox-Hall, Geotechnical Engineer**
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# Jamaica Institution of Engineers' Conference

## "Jamaica's Development through Engineering Innovations"

Wednesday, September 20, 2017 (Day 3)

8:00 - 9:00	<b>Registration</b>
9:00 - 9:30	Key Presentation - Significant Changes and Impact of the Building Bill, 2016 <b>Eng. Noel daCosta, Chairman, National Building Code Committee</b>
	<b>TECHNICAL SESSION 1- Transport Metrology</b>
9:30 - 10:00	Measurements for Transport: Considerations for the Jamaican Context <b>Mr. Rupert Rigg, Bureau of Standards Jamaica</b>
10:00 - 10:15	<b>COFFEE BREAK</b>
	<b>TECHNICAL SESSION 2: Professional Engineering Know-How</b>
10:15 - 10:45	The Professional Engineers Registration Board Changing to Serve You Better <b>Dr. Noel Brown, Chairman, PERB</b>
10:45 - 11:15	Continuing Education Professional Development Moving Forward <b>Eng. Roosevelt DaCosta, Chairman, Continuing Education Committee</b>
11:15 - 12:15	Ethical Engineering
12:15 - 1:00	<b>LUNCH</b>
	<b>TECHNICAL SESSION 3 – Innovative Manufacturing and Agricultural Engineering</b>
1:00 - 1:30	"Clean Seeds" using Greenhouse Technologies <b>Dr. Peta-Gaye Chang, Ministry of Industry, Commerce, Agriculture and Fisheries</b>
1:30 - 2:00	The Production of Biodegradable Food Packaging Film from Aloe Vera <b>Ms. Brandeice Barrett, Ms. Reece Adams and Ms. Karine Airapetian, University of Technology, Jamaica</b>
2:00 - 2:30	Treatment of Distillery Spent Wash (Dunda) to Produce Liquid Fertilizer <b>Mr. Kemar Watkin, Ms. Tiffany Marshall and Ms. Paula Henry, University of Technology, Jamaica</b>
	<b>TECHNICAL SESSION 4 – Mechanical Engineering</b>
2:30 - 3:00	Gas Turbine Fuel Nozzle Design and Development <b>Mr. Jimroy McCormack, Woodward Inc., Aircraft Turbine System Group</b>
3:00 - 3:30	Welding Technologies <b>Eng. Howard Chin</b>
3:30 - 4:30	<b>ENGINEERING STUDENTS MACARONI BRIDGE BUILDING COMPETITION</b>
4:30 - 4:45	<b>CONFERENCE CLOSING REMARKS</b>

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# Jamaica Institution of Engineers' Week 2017

## "Jamaica's Development through Engineering Innovations"

Friday, September 22, 2017

### Contract Administration & Procurement Workshop

<b>8:00 - 9:00</b>	<b>Registration</b>
9:00 - 10:00	Key Note Speaker on "Public Procurement & Anti-Corruption, Ethical Standards, Fraud and Corruption" <b>Mr. Dirk Harrison, Contractor General, Office of the Contractor General</b>
<b>10:00 - 10:30</b>	<b>COFFEE BREAK</b>
10:30 - 11:30	Overview of the GOJ Public Procurement Act, 2015 <b>Ms. Cecile Maragh, Ministry of Finance &amp; the Public Service</b>
11:30 - 12:00	Implementation of Electronic Government Procurement in Jamaica <b>Mr. John Thompson, Ministry of Finance &amp; the Public Service</b>
<b>12:00 - 1:00</b>	<b>LUNCH</b>
1:00 - 1:30	Regional Procurement Centre, University of Technology, Jamaica <b>Dr. Carlys J. Cadogan, University of Technology, Jamaica</b>
1:30 - 2:00	Using Project Management Techniques to Deliver Organizational Efficiency <b>Ms. Pam Thompson, Chief Project Officer, Jamaica National Group</b>
2:00 - 2:30	Contract Documents & Award <b>Mr. Dean Burrowes, Burrowes &amp; Wallace</b>
2:30 - 3:00	Financial Controls and Disciplines (Measurement; Variation Orders; Value Engineering; Interim Payment Certificate; Final Payment Certificate) <b>Mr. Woodrow Whiteley, Woodrow Whiteley &amp; Associates</b>
3:00 - 3:30	Project Risks & Causes of Claims <b>Mr. Dean Burrowes, Burrowes &amp; Wallace</b>
3:30 - 4:00	Design and Construction - Delivering Capital Projects <b>Mr. Devon Smith, Project Manager, University of the West Indies</b>
<b>4:00 - 4:10</b>	<b>CLOSING REMARKS</b>