

# IEM-2010 Conference: Draft Programme

## 7th-8th October 2010

**Day 1: 7th October 2010 (Thursday)**  
**Venue: Faculty of Engineering, UWI**

### Opening Ceremony

Master of Ceremony:  
**Dr. Graham King**, Faculty of Engineering, UWI

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| 8:30         | National Anthem  |
| 8:30 - 8:50  | Opening Remarks:<br><b>Professor Edwin I. Ekwue</b> ,<br>Chairman of Conference Organising Committee,<br>Head, Department of Mechanical & Manufacturing Engineering, UWI<br><b>Professor Brian Copeland</b> ,<br>Dean, Faculty of Engineering, UWI |
| 8:50 - 9:25  | Feature Address:<br><i>"To be Advised"</i> (IEM-001)<br><b>Mr. Tony Ali</b> ,<br>General Manager of Jaleel Distributors Limited  |
| 9:25 - 9:30  | Closing Remarks:<br><b>Dr. Graham King</b>   |
| 9:30 - 10:00 | <b>Tea/coffee break</b>  |

### Morning Session

Theme I: **IE Education/Programme & Accreditation**

Session Chair: **Professor Chanan Syan**, Faculty of Engineering, UWI

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| 10:00 - 10:30 | Keynote Presentation I:<br>Experience/Insights – Professionalism and Engineering Qualifications<br>(IEM002)<br><b>Eng. Richard M. Saunders</b><br>President, Association of Professional Engineers of Trinidad & Tobago |
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**Paper Presentations:**

- 10:30 - 10:50 Establishing the Industrial Engineering Programme at UTech: A Work in Progress (IEM007)  
Michael A.O. Case, Director, Industrial Engineering, UTech, Jamaica  
Vernon Buchanan, Subject Leader, Production Engineering, UTech, Jamaica
- 10:50 - 11:10 Accreditation of the Industrial Engineering Programme at The University of the West Indies (IEM005)  
Ruel L.A. Ellis and K.F. Pun, Faculty of Engineering, UWI
- 11:10 - 11:30 Industrial Engineering for the Public Health Professional: Designing a Course Module (IEM030)  
C.M. Poon-King, Public Health Consultant, Trinidad & Tobago
- 11:30 - 11:50 Future of Industrial Engineering Training at The University of The West Indies: A Curriculum Proposal (IEM027)  
Ruel L.A. Ellis and K.F. Pun, Faculty of Engineering, UWI

**Afternoon Sessions****Theme II: IE Competence & Management I**

Session Chair: **Dr Ruel L.A. Ellis**, Faculty of Engineering, UWI

- 13:00 - 13:30 Keynote Presentation II:  
The IEEE Organisation as a Mechanism for Engineering Networking and Collaboration (IEM003)  
**Dr. Fernando Castellanos**  
Chairman, IEEE Trinidad & Tobago Section

**Paper Presentations:**

- 13:30 - 13:50 A Tripartite Quality Management Framework For University Programme Accreditation (IEM018)  
Terrence R.M. Lalla, G.V. Victor-Marin and A. Koonj Beharry, Faculty of Engineering, UWI
- 13:50 - 14:10 Uncertainty in Assessing Risks in Occupational Health and Safety Risk Assessments (IEM019)  
Ricardo J. Rodriguez, University of the Southern Caribbean  
Winston G. Lewis, Faculty of Engineering, UWI
- 14:10 - 14:30 Developing a Quality Management Framework for Promoting Value-Oriented Practices at the UWI, St. Augustine Main Library (IEM020)  
Neisha Hyatali, The Campus Libraries, St Augustine, UWI  
Kit F. Pun, Faculty of Engineering, UWI
- 14:30 - 14:50 A Roadmap to ISO 9000 Certification at a Petrochemical Company in Trinidad (IEM028)  
Terrence R.M. Lalla and Parbatie Rambharose, Faculty of Engineering, UWI
- 14:50 - 15:10 Technology Transfer Practices in Caribbean SMEs: An Exploratory Study (IEM013)  
Ambika Koonj Beharry, Kit F. Pun and Nirmala Baldeo, Faculty of Engineering
- 15:10 - 15:30 **Tea/coffee break**

### Theme III: **IE Competence & Management II**

Session Chair: **Dr. Fernando Castellanos**, Faculty of Engineering, UWI

#### Paper Presentations:

- 15:30 - 15:50 Integrating Knowledge Management with Quality Management Practices in SMEs in Trinidad: A Review and Research Agenda (IEM008)  
Sandra Bissoon Maharaj, Process Engineering Department, UTT  
Kit F. Pun, Faculty of Engineering, UWI
- 15:50 - 16:10 Investigating Learning Organisation Dimensions in Manufacturing Enterprises of Trinidad and Tobago (IEM014)  
Marcia Nathai-Balkissoon, National Training Agency, Trinidad and Tobago  
Kit F. Pun, Faculty of Engineering, UWI

#### Open Forum:

- 16:10 - 17:10 **Theme: Fostering Engineering Networking, Collaboration and Competence**  
Moderator: **Professor C.A.C. Imbert**, Faculty of Engineering, UWI  
Members:  
**Mr. Tony Ali**, Jaleel Distributors Limited  
**Eng. Richard M. Saunders**, APETT  
**Dr. Michael A.O. Case**, UTech, Jamaica  
**Dr. Leslie Monplaisir**, Wayne State University, USA  
**Dr. Fernando Castellanos**, IEEE T&T Section  
**Professor Chanan Syan**, Faculty of Engineering, UWI  
**Professor Edwin Ekwue**, Faculty of Engineering, UWI  
**Professor Kit F. Pun**, Faculty of Engineering, UWI

## Cocktail Reception Ceremony

- Venue: The Office of the Faculty of Engineering  
Time: 18:00  
Host: **Professor Brian Copeland**,  
Dean, Faculty of Engineering,  
St Augustine Campus, UWI

## Day 2: 8th October 2010 (Friday)

### Venue: Faculty of Engineering, UWI

#### Morning Session

##### Theme IV: Project Management Practices (The PM5 Seminar)

Session Chair: **Dr. Terrence R.M. Lalla**, Faculty of Engineering, UWI

8:30 - 9:00 Keynote Presentation III:  
Project Success or Failure - Who Is Accountable? (IEM004)  
**Mr. Mark Hopkins**,  
Vice-President Compliance, PMI Southern Caribbean Chapter

##### Paper Presentations:

9:00 - 9:20 A Multi-Objective Supply Chain Configuration Model for Modular Product Design (IEM009)  
Leslie Monplaisir, Wayne State University, USA

9:20 - 9:40 Sourcing-Improvement Experiences in Medium-Sized Enterprises with Dispersed Sites (IEM011)  
David A. Janes, Faculty of Engineering, UWI

9:40 - 10:00 Supply Chain Processes in a Manufacturing Industry: Forecasting, Purchasing and Inventory Control and Warehouse Planning (IEM024)  
Petrica Marcel, Tobago Regional Health Authority

10:00 - 10:30 **Tea/coffee break**

##### Paper Presentations:

10:30 - 11:00 A Planned Approach of Facilities Management Practices at the Port Authority of Trinidad and Tobago (IEM015)  
Akil H. Nurse, Port Authority of Trinidad and Tobago  
Kit Fai Pun, Faculty of Engineering, UWI

11:00 - 11:20 The Evolution of a Productivity Model Utilising a Work Study Approach: From Conceptual Design to Model Construction (IEM025)  
Kevin N. Hassanali, Harsco Infrastructure West Indies Limited

11:20 - 11:40 Implementation, Monitoring and Control of a Productivity Model: A Case Study (IEM026)  
Kevin N. Hassanali, Harsco Infrastructure West Indies Limited

11:40 - 12:00 Development of the Shipbuilding and Ship Repair industry in Trinidad and Tobago (IEM029)  
Wilfred de Gannes and Andre Persad, Shipbuilding and Repair Company of Trinidad and Tobago

12:00 Closing Remarks for the PM5 Seminar  
**Professor Kit F. Pun**, Faculty of Engineering, UWI

## Afternoon Sessions

### Theme V: **IE Competence & Tools**

Session Chair: **Dr. N. Anantharaman**, Faculty of Engineering, UWI

#### Paper Presentations:

- 13:30 - 13:50 Development of Record Management Databases (IEM006)  
Daren Maynard, PCS Nitrogen Trinidad Ltd.  
Ruel L.A. Ellis, Faculty of Engineering, UWI
- 13:50 - 14:10 Incorporating Industrial Engineering in a Summer Camp Programme (IEM010)  
Daren Maynard, PCS Nitrogen Trinidad Ltd.  
Ruel L.A. Ellis, Faculty of Engineering, UWI
- 14:10 - 14:30 Desktop Computational Fluid Dynamics with Open-Source Software (IEM012)  
David A. Janes, Faculty of Engineering, UWI
- 14:30 - 14:50 **Tea/coffee break**
- 14:50 - 15:00 FPGA-Based Embedded Solution for Automatic Speech Recognition (IEM021)  
Davinder Pal Sharma and Jamin Atkins, Faculty of Engineering, UWI
- 15:00 - 15:20 Thermo-Economic Optimisation of a Solid Oxide Fuel Cell/Gas Turbine Hybrid Power Plant with Semi-direct Coupling (IEM022)  
Denver Cheddie and R. Murray, Natural Gas Institute of the Americas, UTT
- 15:20 - 15:30 Key IE concepts and approaches in developing Activity based Costing – A Case Study (IEM023)  
Ed Duke, Telecommunications Services of Trinidad and Tobago
- 15:30 Closing Remarks for the Conference  
Vote of Thanks  
**Professor Kit F. Pun**, Faculty of Engineering, UWI