



# A Two Day Conference STRENGTHENING AND REFURBISHING OF EXISTING STRUCTURES

24th April - 25th April, 2014

To be held at:  
**Hilton** Trinidad and Conference Centre  
Lady Young Rd. P.O.S.

## **REGISTRATION FEE**

US\$450. or TT\$2,800

students half price.

This includes for admission  
for both days,  
lunches as well as morning and  
afternoon refreshments

To apply fill out and email separate writable **pdf** form  
**Submit to :** Mr. Anthony Farrell  
[www.istructe.org/near-you/americas/caribbean](http://www.istructe.org/near-you/americas/caribbean)  
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## PROGRAMME

### Thursday 24th April 2014

- 0800 – 0830 **REGISTRATION**
- 0830 – 0900 Welcome and Opening Ceremony (Master of Ceremonies – Eng Simon Westcott)  
Chairman Organizing Committee – Eng Kerrin Burgess  
Chairman IStructE Caribbean Regional Group – Eng Clifford Murray  
President APETT – Eng Haydn Furlonge
- 0900 – 1000 Feature Address – TBC
- 1000 – 1015 **REFRESHMENTS**
- 1015 – 1230 **SESSION 1 – ESSENTIAL FACILITIES**  
**Moderator** - Eng Savitri Singh  
1015 – 1100 The Impact of Climate Change on Existing Facilities and the Need for Strengthening – Eng Tony Gibbs  
1100 – 1145 Re-development of the San Fernando Hospital – Eng Arun Buch  
1145 – 1230 Retrofit Hospital for Fire – PAHO – Eng Shalini Jagnarine
- 1230 – 1330 **LUNCH**
- 1330 – 1445 **SESSION 2 – MECHANICAL DEVICES**  
**Moderator** – Eng Anthony Farrell  
1330 – 1400 Base Isolation and Energy Absorbing Devices I – Dr Luigi Di Sarno  
1400 – 1445 Base Isolation and Energy Absorbing Devices II – Dr Luigi Di Sarno
- 1445 – 1500 **REFRESHMENTS**
- 1500 – 1630 **SESSION 3 – BRIDGES**  
**Moderator** – Eng Tonee McNicolls  
1500 – 1545 Bridge Strengthening – Robert Percy (Flint and Neill Ltd)  
1545 – 1630 Restoration of the Godineau Bridge – Eng Anthony Farrell

## PROGRAMME

### Friday 25th April 2014

- 0830 - 1230 **SESSION 4 – HISTORIC RESTORATION**  
**Moderator** - Eng Shalini Jagnarine  
0830 – 0915 QRC Restoration – Bernard Mackay/Eng Binta Trotter  
0915 - 1000 Iron Market Haiti – Robert Bowles  
1000 – 1045 Strengthening of Historic Masonry Structures – Prof Claudio Modena  
1045 – 1100 **REFRESHMENTS**  
1100 – 1145 Retrofitting Hospitals – Miguel Cruz  
1145 - 1230 Comparative Costs of Historic Buildings Refurbishing and New Building – Henry Fraser
- 1230 - 1330 **LUNCH**
- 1330 – 1445 **SESSION 5 – OIL AND GAS**  
**Moderator** – Eng Clifford Murray  
1330 – 1415 Impact Damage Repair of Offshore Platform – Eng Kerrin Burgess  
1415 – 1445 Strengthening of Offshore Platform for Increased Loading – Eng Tonee McNicolls
- 1445 – 1500 **REFRESHMENTS**
- 1500 – 1630 **SESSION 6 – FOUNDATION UNDERPINNING**  
**Moderator** - Eng Kerrin Burgess  
1500 – 1545 Underpinning – Eng Derek Gay  
1545 – 1615 Soils – Eng Malcolm Joab  
1615 – 1645 Discussion (Moderator Eng Tony Gibbs)  
1645 – 1700 Closing Remarks  
1700 – 1830 **COCKTAIL RECEPTION**

## BACKGROUND AND OBJECTIVES

Whether it be the seismic retrofit of an essential facility, the preservation of an historic monument, the change of use of a building, or the repair of a structure which may have incurred damage due to an accidental load, the basis for strengthening or refurbishing of structures almost always offers an opportunity for an environmentally sustainable solution. While the purpose for the strengthening or refurbishment of a structure and the techniques and technologies implemented in each case, may be diverse, structure life extension and sustainability is a consistent theme for such works.

The Institution of Structural Engineers (IStructE) Caribbean Regional Group presents its 2014 Conference entitled **“Strengthening and Refurbishment of Existing Structures”**. The Conference will explore the engineering, architectural and cost considerations when strengthening or refurbishing various classes of structures, for various design bases. Notable projects from within the Caribbean and international locations will be discussed. These include the award winning Iron Market of Haiti, retrofitting of hospitals, strengthening of bridges, offshore structures and many more.

## AUDIENCE

***The Conference is intended for engineers, architects, quantity surveyors, contractors and technical administrators of essential facilities, historical buildings and public infrastructure.***