One-Day Course on “Why Structures Fail?”

Course Lecturer: Nick Russell, Past IStructE President
Organiser: IES/IStructE Joint Committee
Date: Wednesday, 12 October 2016
Time: 9.00 am to 5.30 pm
Venue: Cinnamon Ballroom, Level 5
Hotel Novotel Singapore Clarke Quay
177A River Valley Road

Fees:
- $400 (IES and/or IStructE Corporate Members)
- $300 (Retired IStructE Members, Unemployed IStructE Members and IStructE Graduate Members)
- $500 (non-members)
- $200 (Full-time students from NUS/NTU/Student Members of IES and/or IStructE)

Fees are inclusive of 7% GST. Participants will receive PDF formatted course notes. Lunch and light refreshments will be provided.

Introduction
The theme for the day will be the investigation of structural failures - why they occur, how they are investigated, how they can be avoided and what to do if you find yourself defending a claim. The course will be based on events that have occurred and been investigated by the course presenter.

This course is ideal for design engineers across the spectrum from graduate engineers to professional engineers, and for those responsible for safety and quality assurance of structures. It is suitable for those taking the Chartered Membership Examination of the Institution of Structural Engineers.

Programme

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| 0815 – 0900 | Registration @ Cinnamon Ballroom, Level 5  
Hotel Novotel Singapore Clarke Quay |
| 0900 – 0905 | Opening Address by A/Prof Lok Tat Seng, Honorary Secretary of IES/IStructE Joint Committee |
| 0905 – 1045 | Lecture 1  
Brief background about Nick. Review of Structural Failures. A review of a selection of structural failures investigated, how they occurred and the consequences of these. |
| 1045 – 1110 | Morning Tea / Coffee Break |
| 1110 – 1240 | Lecture 2 |
Forensics. How to go about investigating failures especially when they occurred sometime in the past. How to form a balanced view. Professional ethics.

1240 – 1400  Lunch @ The Square at level 6

1400 – 1530  Lecture 3
Structural Robustness and Optimal Design. Lessons learnt from investigated failures. How the projects concerned might have been engineered to prevent failure. How do we use this information to educate others.

1530 – 1600  Afternoon Tea / Coffee Break

1600 – 1715  Lecture 4
Indemnity Claims. How do you balance risk and reward? What steps can you take to minimise errors and what should you do if you find yourself defending a Claim.

1715 – 1730  Closing Remarks

Biography of Nick Russell

BSc (Hons First Class) Civil Engineering,
NVQ Degree Strategic, Business Management Chartered Engineer,
Fellow of Institution of Structural Engineers,
Fellow of Institution of Civil Engineers,
Fellow of Association of American Civil Engineers &
Member of Chartered Institute of Management

Overview
Following early experience at the Transport and Road Research Laboratory, Balfour Beatty and Travers Morgan, Nick has been responsible at Thomasons for leading significant projects from conception to completion.

Nick also looks after litigation work and technical studies for Thomasons and has overall responsibility for the company’s QM and environmental management systems.

Nick was the 2014 President of the Institution of Structural Engineers, and is currently Visiting Professor at the University of Surrey and Vice-Chair of the Joint Board of Moderators who accredit UK Civil Engineering Degree courses.

Notable Experience
- International expert, involved in cases in the Middle East and the UK over the last 25 years.
  Nick has given evidence and been cross-examined in court.
- Town centre master planning for projects.
- Complex structures in the retail and commercial sector, often involving multi-storey basements.
- Industrial facilities, including cold stores, steel and aluminium works.
- Investigation of defects in projects and advising clients on suitable remedial works.
- Town centre regeneration, involving complex contaminated sites.
- Has lectured widely in the UK and overseas on engineering and management issues.
- Responsible for overseeing practice management and finance.
TERMS & CONDITIONS FOR COURSE REGISTRATION

Registration
Any registration, whether by email or post will be on a first-come-first-served basis and will only be confirmed upon receipt of full payment by the IStructE Singapore unless otherwise invoice to company.

All registration must be submitted with duly completed registration form.

Closing Date & Payment
The closing date for registering for the course shall be Friday, 30 September 2016. Cheques should be crossed and made payable to “IStructE Singapore”, with the Title of The Event indicated clearly written on the back of the cheques and submit with the duly completed registration forms to:

Engineering Science Programme
Faculty of Engineering
National University of Singapore
Blk EA #06-10, 9 Engineering Drive 1
Singapore 117575

Confirmation of Registration
Confirmation of registration will be given 5 working days prior to the course via email, and you are required to acknowledge it. If you do not receive the said confirmation email, you are required to email Angela at esplmh@nus.edu.sg.

We reserve the right to allow only confirmed registrants to attend the event.

Refunds and Cancellations
No refunds will be made for withdrawal. Replacement will be allowed only if written notice is received by us at least 3 working days before the course. Replacement is allowed but restricted to once only. However, when an IStructE or an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees at least 3 days before the course.

Cancellation/Postponement
Changes in venues, dates, time and speakers for the Events can occur due to unforeseen circumstances. IStructE Singapore reserves the full rights to cancel or postpone the Event under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact person of any cancellation or postponement.

Fees will be refunded in FULL if the Event is cancelled by IStructE Singapore.

Enquiries
For more information, please email Ms. Angela Loke at email : esplmh@nus.edu.sg
REGISTRATION FORM

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Wednesday, 12 October 2016

I would like to register for the One-Day Course on “Why Structures Fail?”. My particulars are as follows:

Name: Mr / Ms / Dr / Prof / Er. ____________________________

NRIC: ____________________________ Designation: ____________________________

Company: ____________________________

Address: ____________________________

Tel: ____________________________ Fax: ____________________________

Email: ____________________________

Dietary Preference: Chinese / Muslim / Vegetarian (please delete accordingly)

Please tick accordingly:

❑ $400 (IES and/or IStructE Corporate Members)  IES Membership No.: ____________________________

IstructE Membership No.: ____________________________

❑ $300 (Retired IStructE Members, Unemployed IStructE Members and IStructE Graduate Members)

IstructE Graduate Membership No.: ____________________________

❑ $500 (non-members)

❑ $200 (Full-time students from NUS/NTU/Student Members of IES and/or IStructE)

Membership No.: ____________________________

❑ Sponsored by Company  (Please send an invoice to my company)

PE No.: ____________________________ (if applicable) STU : RE / RTO : ____________________________ (if applicable)

Payment Mode: Cheque No.: ____________________________ Amount (S$): ____________________________

Crossed cheques should be made payable to “IstructE Singapore” and mail together with the Registration Form to:

Engineering Science Programme
Faculty of Engineering
National University of Singapore
Blk EA #06-10, 9 Engineering Drive 1
Singapore 117575