

About the Course

The course aims to provide participants with an understanding of the fundamental elements of risk analysis and structural reliability. It will also introduce the concepts of uncertainty modelling in load and strength applications. Practical applications for the safety assessment of engineering structures, considering the key techniques involved, will be highlighted. Emphasis will be on the use of reliability engineering methods in offshore and marine structures.

The syllabus will include: basic elements of the safety case concept, hazard identification techniques, risk assessment, risk reduction, safety management systems, uncertainties in load and strength predictions, structural reliability and the goal-setting approach to safety.

The course is intended for practicing engineers and research scientists who need to understand the concepts behind risk analysis and structural reliability, to interact with experts in safety management or to begin to undertake a more extensive study of the subject.

Who Should Attend

Engineers, managers and scientists involved in design, assessment and management of a wide range of engineering structures. Personnel from Local Authorities, major facilities operating companies will benefit from attending this course.

PROGRAMME

Monday 8 September 2008

08.15 - 09.00	Delegate Registration
09.00 – 10.30	Basic Probability and some Estimation Theory I <i>Dr. B. Torsney.</i>
10.30 - 10.45	<i>Break</i>
10.45 - 12.15	Basic Probability and some Estimation Theory II <i>Dr. B. Torsney</i>
12.15 - 13.30	<i>Lunch</i>
13.30 - 15.00	Risk Analysis Techniques I <i>Dr. A Jasionowski</i>
15.00 – 15.30	<i>Break</i>
15.30 - 17.00	Risk Analysis Techniques II <i>Dr. A Jasionowski</i>

Tuesday 9 September 2008

9.00 - 10.30	Structural Reliability Analysis I <i>Prof. PK. Das</i>
10.30 - 10.45	<i>Break</i>
10.45 - 12.15	Structural Reliability Analysis II <i>Prof. P.K. Das</i>

12.15 - 13.30	<i>Lunch</i>
13.30 - 15.00	Monte Carlos Simulation I <i>Dr. Y. Pu</i>
15.00 - 15.30	<i>Break</i>
15.30 - 17.00	Response Surface Methods <i>Lei Yu</i>
19.30 - 21.30	<i>Workshop Dinner</i>

Wednesday 10 September 2008

09.00 - 10.30	Application to Bridges <i>Prof. M. Chryssanthopolous</i>
10.30 - 10.45	<i>Break</i>
10.45 - 12.15	Reliability Based Code Development <i>Prof. M. Chryssanthopolous</i>
12.15 - 13.30	<i>Lunch</i>
13.30 - 15.00	Application to Ship Design <i>Prof. PK Das</i>
15.00 - 15.30	<i>Break</i>
15.30 - 17.00	Structural Reliability Analysis Software: Background & Demonstration <i>Prof. PK Das</i>
17.0	<i>Closure</i>

REGISTRATION FORM

Name _____
(Please print)

Address _____

Telephone _____

Fax _____

Email _____

I wish to register for the Course at a cost of £650 + VAT including course material, lunches and course dinner

I enclose a cheque for £650 + VAT (£113.75)

Please invoice me at the above address

Please send me information on local hotels

Signature _____

Date _____

The completed form, together with a cheque in pounds sterling payable to *ASRANet Ltd.*, should be sent by **10 August 2008** to:

ASRANet Ltd., 141 St. James Road, Glasgow G4 0LT

No refund will be possible after 10 August 2008 but the attendance of a replacement participant is permitted.

Cost

The cost of the workshop will be £650 + VAT (pound sterling) including registration, Workshop papers and Workshop dinner for authors and delegates. You should make your own arrangements for accommodation, although we can help by providing lists of nearby hotels and budget accommodation.

For more information on accommodation in Glasgow please visit www.seeglasgow.com.

Venue

University of Strathclyde
Lord Todd Conference Room
Lord Todd/Village Office
Weaver Street
Glasgow G4 0NP
Scotland, UK

Contact

ASRANet Ltd.
141 St. James Road
Glasgow G4 0LT
Scotland, UK

W www.asranet.com

E asranet@live.co.uk

T +44 (0)141-552-7287/ +44 (0)141-303-8217

F +44 (0)141-552-3886

Structural Risk and Reliability

8 – 10 September 2008



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