

About the Course

The methods of advanced structural analysis meet the needs of increasing sophistication in standards by providing more accurate methods of predicting the structural behaviour and allowing for simplified design techniques. The objective of the course is to provide an update, which reflects changes and developments in the state-of-the-art in structural analysis and design. It will introduce direct design applications while at the same time improving the basic understanding of non-linear structural behaviour. Emphasis will also be given to conceptual design methods. Both ultimate and fatigue limit state will be covered. The ability to handle the structural aspects of innovative designs will be increased. It will also help to produce more efficient structural designs, based upon rational analysis and evaluation methods. Improved structural design-analysis expertise should lead to more efficient structures in some cases and to improved in-service performance in others.

Who Should Attend

Engineers and scientists involved in the design and assessment of engineering structures, e.g. towers, bridges, offshore structures etc. Personnel from oil companies, consultancy organisations, classification societies and certifying authorities will benefit from attending this course.

Previous participants

This will be the fourth time this course has been offered and 40 public and industrial organisations have sent staff to attend, including: ABS, Amerada Hess, Babcie Group, BAE Systems, Bluewater Engineering (Netherlands), Bomel Ltd, Cetena (Italy), Corus, DERA, DNV, East Ayrshire Council, Germanischer Lloyd, Halcrow Crouch, HSE, MoD, Lloyd's Register, Scottish Office, Welsh Office, Weidlinger Associates Ltd, and many universities.

PROGRAMME

Monday 10 November 2008

08.30-09.00	Delegate Registration
09.00- 10.30	Introduction to Non-linear Computational Modelling in Structural Mechanics <i>Professor N. Bicanic</i>
10.30-11.00	<i>Break</i>
11.00-12.30	Computational Plasticity <i>Professor N. Bicanic</i>
12.30-13.30	<i>Lunch</i>
13.30-15.00	Workshop I: Non-linear Solution Algorithms and Computational Plasticity <i>Dr C. Pearce</i>
15.00-15.30	<i>Break</i>
15.30-17.00	Workshop II: Non-linear Solution Algorithms and Computational Plasticity <i>Dr C. Pearce</i>

Tuesday 11 November 2008

09.00-10.30	Plastic Analysis <i>Professor P.K. Das</i>
10.30-11.00	<i>Break</i>
11.00-12.30	Beam-Columns <i>Professor P.K. Das</i>
12.30-13.30	<i>Lunch</i>

13.30-15.00	Application of Fatigue and Fracture Analysis for Onshore and Offshore Structures I <i>Professor N. Barltrop</i>
15.00-15.30	<i>Break</i>
15.30-17.00	Analysis and Design of Unstiffened and Stiffened Plates I <i>Professor P.K. Das</i>
18.30-21.30	<i>Course Dinner</i>

Wednesday 12 November 2008

09.00 –10.30	Application of Fatigue and Fracture Analysis for Onshore and Offshore Structures II <i>Professor N. Barltrop</i>
10.30-11.00	<i>Break</i>
11.00- 12.30	Analysis and Design of Unstiffened and Stiffened Plates II <i>Professor P.K. Das</i>
12.30-13.30	<i>Lunch</i>
13.30-14.30	Unstiffened & Stiffened Shells I <i>Professor P.K. Das</i>
14.30-15.30	Unstiffened & Stiffened Shells II <i>Professor P.K. Das</i>
15.30-16.00	<i>Break</i>
16.00-17.00	Workshop: Fatigue and Fracture Analysis <i>Professor N. Barltrop</i>
17.00	<i>Closure</i>

REGISTRATION FORM

Name _____

(Please print)

Address _____

Tel. _____

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 **15 October 2008** to:

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

No refund will be possible after 15 October 2008 but the attendance of a replacement participant is permitted.

Cost

Course notes will be available in loose bound file. 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

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Design by Advanced Structural Analysis

10 – 12 November 2008



Glasgow, UK

