

About the Course

The global energy demand is increasing at an alarming rate. It is expected that by 2050 the global energy demand could triple as populations rise & economies improve. The course aims to provide participants with an understanding of the growing need of the renewable energy industry and to combine existing technologies in order to fully utilise marine current & wave for electricity generation & to make the public aware of the minimal environmental impact resulting from marine current & wave energy devices.

The syllabus will include: wind turbines: design, mounting/mooring arrangements, installation and Failure mechanisms. Wave energy: energy within water wave, description and operation of various systems proposed and in use for shallow to deep water applications. Tidal energy: current stream devices, barrage systems, energy storage, transmission and distribution issues and solutions

The course is intended for Engineers, Operations Managers. Applied scientists and technologists interested in offshore and ocean technologies.

On completion of the course you will be able to apply a sound knowledge of various technologies for harnessing offshore wind energy, wave energy & tidal stream energy.

Who Should Attend

Engineers, managers and scientists involved in design, assessment and management of a wide range of renewable energy industrial facilities. Personnel from oil companies, major facilities operating companies will benefit from attending this course.

PROGRAMME

Monday 24 May 2010

08.15-09.00 Delegate Registration

09.00-10.30 Renewable Energy, devices, statistics of power in the wind, tides & waves
Prof. N Barltrop

10.30-10.45 *Break*

10.45-12.15 Wind Energy Basics
Peter Jamieson

12.15-13.30 *Lunch*

13.30-15.00 Evolution of Modern Wind Technology
Peter Jamieson

15.00-15.30 *Break*

15.30-17.00 Ocean Wave Analysis Applied to Wave Energy
Dr. V. Venugopal

Tuesday 25 May 2010

9.00-10.30 Wave Energy Device Theory – I
Prof. N Barltrop

10.30-10.45 *Break*

10.45-12.15 Wave Energy Device Theory – II
Prof. N Barltrop

12.15-13.30 *Lunch*

13.30-15.00 Electrical a) Generators, frequency converters & grid connection
Dr. S Djokic

15.00-15.30 *Break*

15.30-17.00 Electrical b) Power distribution, storage & grid stability
Dr. S Djokic

18.30-21.00 Course Dinner

Wednesday 26 May 2010

09.00-10.30 Control of Wind Energy Devices
Prof. Bill Leithead

10.30-10.45 *Break*

10.45-12.15 Fatigue Analysis
Prof. N Barltrop

12.15-13.30 *Lunch*

13.30-15.00 Industry Lecture I: Third Party & Certification
C Bittencourt, Det Norske Veritas

15.00-15.30 *Break*

15.30-17.00 Industry Lecture II: Wave Energy
Donald Naylor, Aquamarine Power Ltd

17.00 *Closure*

REGISTRATION FORM

Name _____
(Please print)

Address _____

Telephone _____
Fax _____

Email _____

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

I enclose a cheque for £650

Please invoice me at the above address

Please send me information on local hotels

Signature _____

Date _____

The completed form should be sent by 14 April 2010 to:

University of Strathclyde, Dept. of NA-ME, Henry Dyer Building, Glasgow G4 0LZ

No refunds will be possible after 14 April 2010 but the attendance of a replacement participant is permitted.

Cost

The cost of the workshop will be £650 (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.

CPD

This course is recognised by IMarEST (Institute of Marine Engineering, Science & Technology) as contributing to an individual member's professional development requirements.

Payment

Payments can be made by cheque (made payable to University of Strathclyde), cash, bank transfer or credit card. Please enquire for details.

Venue

Dept. of Naval Architecture & Marine Engineering
Henry Dyer Building, University of Strathclyde
100 Montrose Street
Glasgow G4 0LZ
Scotland, UK

Contact

Prof. P.K. Das

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Offshore Renewable Energy

24 – 26 May 2010

Glasgow, UK