



ROBERT GORDON UNIVERSITY

WELCOME TO THE

18TH ENGINEERING MANAGERS IN UNIVERSITIES 2009 ANNUAL CONFERENCE

WEDNESDAY 1ST APRIL TO FRIDAY 3RD APRIL 2009

THE DOUGLAS HOTEL, ABERDEEN



<http://www.emu-hei.co.uk>



TIMETABLE OF EVENTS

Day 1 Wednesday 1st April 2009

12noon Arrive and Registration

1430 - 1600 Session 1

3D Body Scanner and talk
"Application of 3D Body Scanner in Health"
By Dr Arthur Stewart, Senior Lecturer

1810 Coach departs Hotel for Dinner
at The Gordon Highlanders Museum

1830 Arrival Drinks Reception

1900 Guided Tour of The Gordon Highlanders Museum

1930 Three Course Dinner with Wine
After Dinner speaker-Sandy Stronach, "The Doric"

2230 Coach departs The Gordon Highlanders

Day 2 Thursday 2nd April 2009

0700 Breakfast

0900 - 0915 Introduction to Conference
By Stephen Duffy (Secretary EMU)

0915 - 0930 Opening Address and Welcome
By Professor John Watson
Dean of Faculty of Design & Technology
Robert Gordon University

0930 - 1030 Session 2

"Women in Engineering"
By Rachel Rennie
Drilling Engineer, Transocean Drilling UK

1030 - 1045 Tea, coffee and biscuits

1045 - 1145 Session 3

"ROV's and AUV Technology"
By Ken Bryson
Remote Technology Group Manager, Subsea 7

12noon – 1300 Lunch

1315 – 1500 External Visit
ROV Manufacturers Subsea 7

1500 Visit to Robert Gordon University Garthdee Campus

1745 Arrival back at Hotel

1900 Pre-Dinner Drinks

1930 Conference Dinner at Douglas Hotel

Day 3 Friday 3rd April 2009

0700 – 0845 Breakfast/Check-out

0900 – 0930 Session 4

"Oil and the University"
By Professor John Watson,
Dean of Faculty of Design & Technology,
Robert Gordon University

0930 – 1015 Session 5

"Helicopter Engineers"
By Paul Richardson, Bristow Helicopters

1015 – 1030 Tea/Coffee/Biscuits

1030 – 1130 Session 6

"Alternative Energy"
By Jeremy Cresswell
Editor of Press & Journal's "Energy"

1130 – 1230 Conference Discussion, Notices etc

- A.O.B
- EMU – 2010 Oxford, Mr Chris Scotcher
- EMU – 2011 Volunteer
- EMU – 2012 Volunteer
- EMU Committee Review and Vote

1230 Lunch and Departure

ABERDEEN IS A BUSTLING CITY FAMED FOR ITS GRANITE ARCHITECTURE AND ITS TITLE AS THE ENERGY CAPITAL OF EUROPE.

Aberdeen's strong agricultural and maritime foundations have grown, with the discovery of North Sea Oil, to make the city a thriving centre for multi-national business.

The unique position of the city allows visitors to enjoy a modern, cosmopolitan city complete with shopping, restaurants and a thriving cultural scene, and at the same time is only a stone's throw away from Scotland's whisky and castle country surrounded in breathtaking scenery.

Robert Gordon University is a dynamic and modern university with an international reputation for providing a high quality and professional education from undergraduate to PhD level. The University was recently named 'Best Modern University in the UK' in The Times Good University Guide 2009.

The School of Engineering is at the technological heart of the city and its industries and takes pride in educating the next generation of technological innovators.

Aberdeen is the Energy Capital of Europe, and the School of Engineering is an international focus for the many technologies associated with energy, with a reputation for research and commercialisation, transferring new technology from the classroom to industry.



DINNER AT THE GORDON HIGHLANDERS MUSEUM

The Gordon Highlanders Museum is a beautiful and truly exclusive venue for your evening dinner, situated in a leafy, residential area of Aberdeen's West End.

The splendour of the 19th century St Luke's building combined with the treasures of one of the finest regiments in the world create a magnificent atmosphere for guests.

Dinner takes place in the Sir Jack Hayward Room, a lavish dining room complete with striking portraits of great Gordon Highlanders, regimental silver, candelabras and beautiful floral displays.

As well as fine dining, guests can experience the museum galleries and exhibitions in this historical setting with a guided tour to start off your evening of grandeur.



SESSION 1

DR ARTHUR STEWART

SENIOR LECTURER
THE ROBERT GORDON UNIVERSITY



Dr Arthur Stewart is the deputy director of the Centre for Obesity Research and Epidemiology (CORE) at RGU. He is senior researcher specialising in Body Composition analysis, and his work includes running the clinical research laboratory at St Andrew Street. He is experienced in anthropometry, has held the Criterion Anthropometrist qualification from the International Society for the Advancement of Kinanthropometry (ISAK) since 2003, an organisation for which he currently serves as the Vice President. He has worked with a range of methods including Magnetic Resonance MRI, Dual X-ray Absorptiometry (DXA) Densitometry and more recently 3D laser scanning, in collaboration with Hamamatsu Photonics UK.

His wider interests include the relationship between body composition, exercise and health, and the relationship between body image and physique in different groups from eating disorders to obese individuals



SESSION 2

“WOMEN IN ENGINEERING”

RACHAEL J. RENNIE, DRILLING ENGINEER,
APPLIED DRILLING TECHNOLOGY
INTERNATIONAL, (ADTI)



Rachael joined ADTI (a division of Transocean) in 2006 after graduating from the University of Aberdeen with a Masters in Mechanical Engineering with a Diploma in Management. Rachael is currently in her third year of the 5 year ADTI Graduate Development Programme which is accredited by both IMechE (Institute of Mechanical Engineers) and EI (Energy Institute). Her experience to date includes a number of roles while working both onshore and offshore in the North Sea. Rachael has engaged in a variety of operations such as drilling, casing, logging and well testing.

While working offshore she worked as part of the deck and drill crews which provided a 'hands on' approach to learning and enabled her to gain an insight into the roles and responsibilities of offshore personnel. She then progressed to Wellsite Drilling Engineer as part of the ADTI offshore team, overseeing specific Wellsite operations. Rachael has recently completed the role as onshore Operations Engineer, where as part of a team she was responsible for aspects such as Well design, applications to Regulatory Authorities, cost tracking and supporting the offshore team.

Currently planning a future Water Injection Well, Rachael continues her development within the ADTI Graduate Programme.



SESSION 3

ROV AND AUV TECHNOLOGY

KEN BRYSON
REMOTE TECHNOLOGY GROUP MANAGER
SUBSEA 7

As oil and gas exploration and subsea construction, installation and support activities move into more remote locations and deeper water the number and complexity of tasks being performed by ROV has increased and the ROV has become critical to the success of the subsea operation. In addition, as technology has developed the AUV has become a feasible and economic alternative to the ROV for a number of key survey, inspection and field support tasks.

This talk will present ROV, intervention tooling and AUV systems, launch and recovery systems and support vessels. It will look at the types of tasks currently undertaken by ROV and AUV systems and will investigate areas where the AUV rather than the ROV may become the system of choice for future operations.

The Subsea 7 workshop tour will allow delegates to see at first hand some of the ROV, AUV and intervention tooling equipment described in the talk.

Ken Bryson began his career as a marine engineer in the merchant Navy, before returning to university and obtaining a degree in Electronic and Microprocessor Engineering (University of Strathclyde, 1982 – 1986).

He has worked in ROV and AUV design, development and support for oil and gas activities for the past 21 years and is currently Manager of Subsea 7 Remote Technology Group.

SESSION 4

“OIL AND THE UNIVERSITY”

PROFESSOR JOHN WATSON
DEAN OF FACULTY OF DESIGN & TECHNOLOGY



Professor John Watson is Dean of the Faculty of Design & Technology at Robert Gordon University in Aberdeen. He is an Electrical Engineer by profession and a graduate of Heriot Watt University. Prior to taking up this appointment he was Head of the School of Engineering at RGU.

The Faculty of Design & Technology includes the Schools of Computing, Engineering, Gray's School of Art and The Scott Sutherland School of Architecture and Built Environment. RGU's suite of Energy Masters programmes is delivered through the Energy Centre, within the School of Engineering.

In his role as Dean of Faculty, Professor Watson is responsible for ensuring the effective operation of the Faculty in line with the University's strategic priorities. He also oversees the Faculty's teaching and research activities and considers the maintenance of the Schools' leading edge status as critical to the underpinning the Faculty's successful collaborations with the oil and gas industries.

SESSION 5

"HELICOPTER ENGINEERS"

PAUL RICHARDSON
BRISTOW HELICOPTERS



Paul is Engineering Training Coordinator for Bristow Helicopters Limited. His responsibilities include trainee and apprentice recruitment, development and course organisation for engineering staff, along with holding technical training courses for company engineering staff worldwide. Paul has an EASA Part-66 B2 aircraft technicians licence and also has responsibility for controlling the company's Part-147 training facility based in Aberdeen. He has been involved with Bristows since 1977, initially as a trainee but working up through the system in engineering and became part of the training school in 1998. Paul is happily married and although he has a caravan, he'd like everyone to know that he does pull over to let other cars overtake!

Paul will be discussing the difficulties in becoming a qualified aircraft technician in these modern times.



SESSION 6

"ALTERNATIVE ENERGY"

JEREMY CRESSWELL



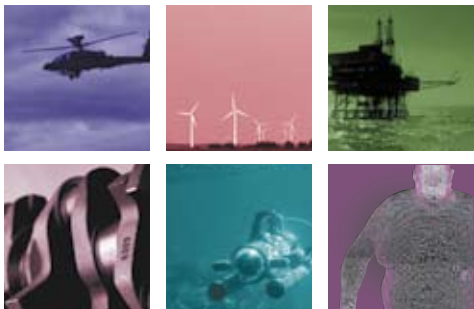
Jeremy Creswell is a prominent oil and gas journalist as well as champion of energy renewables in the Aberdeen area and will be talking about 'Alternative Energy' at the conference.

Initially setting out to be a lawyer, Jeremy spent his early life in fishery development and commercial fisheries, serving for a time with Her Majesty's Coast Guard. Since 1985, he has worked as an energy and maritime affairs journalist primarily for the Press & Journal, where he currently edits Energy Monthly.

Twice a graduate of RGU, Jeremy was made an Honorary Professor of the University in 2008, having been a catalyst in the evolution of the University's Oil and Gas MBA Programme.

Jeremy is also the founder and chairman of Aberdeen Renewable Energy Group, on the management committee of the Aberdeen branch of the Institute of Energy, and has spoken at maritime and energy conferences as far a field as Australia and Singapore.





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