2nd Optoelectronic Technologies for the Oil and Gas Industry

One Day Technical Meeting
Thursday 4th November 2010

Marcliffe Hotel and Spa, Aberdeen

Co-sponsored by:

FMC Technologies
Insitute of Physics (Instrument Science and Technology Group)
National Subsea Research Insitute
Scottish Optoelectronics Association
Society for Underwater Technology



Following on from the successful meeting in 2009 addressing this rapidly expanding technology area within the oil and gas industry, the 2nd "Optoelectronic Technologies for the Oil and Gas Industry Technical Meeting", will highlight major developments in optoelectronic technology relevant to current and future oil and gas industry applications. The meeting includes presentations describing the utilisation optoelectronic technologies for a wide range of industry applications, in sessions focusing on optoelectronics for Down-hole, Seabed and Subsea and Surface applications. The meeting will include reports on a number of oil and gas industry firsts for optoelectronic technologies, as well as reviews of the operational and commercial benefits offered by optoelectronics and lessons learned.

As with the 2009 meeting, this years meeting will provide Oil and Gas industry professionals along with technology developers and providers the opportunity to keep abreast of developments in the technology area, as well as allowing networking with academics, researchers and industry professionals active in the area.

We look forward to welcoming you at the meeting.

The Organising Committee

FMC Technologies IOP Institute of Physics NSRI National Subsea Research Institute SCOTTISH OPTOELECTRONICS ASSOCIATION SUT Society for Underwater Technology

Meeting Programme

MORNING SESSION

REGISTRATION AND COFFEE 8.45

INTRODUCTION 9.20

Sensing change – The Growing Need for Optoelectronics Subsea 9.30
C. Johansen
Director – Eastern Region Technology Centre
FMC Technologies, Norway

DOWNHOLE APPLICATIONS

How Halliburton has approached increased oil recovery using DTS stimulation monitoring technology 10.00
P. Machin, Halliburton, Norway

Distributed Vibration Sensing (DVS) 10.25
M. Campbell,
BP EPT, Subsea & Floating Systems , U.K.

COFFEE AND POSTERS 10.50

SEABED APPLICATIONS

Ekofisk Life of Field Seismic seabed installation - a breakthrough for optical fibre sensing technology 11.20
M. Eriksrud
Optoplan, Norway

High Reliability Fibre-Optic Sensor Arrays for Permanent Reservoir Monitoring 11.45
P. Nash, R. Luff
Stingray Geophysical Limited, U.K.

Deployment of the first subsea Optical Fibre feed through 12.10
G. Shiach, FMC Technologies, U.K. and
C. Prel, Company Deustch, France

LUNCH 12.35

AFTERNOON SESSION

SUBSEA AND SURFACE APPLICATIONS I

Optically Remote Powered Subsea Video Monitoring System 13.35
F. K. Lau, B. G Stewart and S. G McMeekin
Glasgow Caledonian University, U.K .
& D. McStay and D. Moodie
FMC Technologies Ltd, U.K.

Pushbroom electro-optic imaging sensors for pipeline inspection 14.00
R. Brownie
Optronics Air Reconnaissance, Thales, U.K.

Characterization and Troubleshooting of Fibre Optics Cables in Oil & Gas Industry 14.25
J. Brendel and B. Huttner
Luciol Instruments, Switzerland

BREAK 14.50

SUBSEA AND SURFACE APPLICATIONS II

Imaging solutions for subsea Inspection. 15.10
A. Al-Obaidi and A Jakas,
Smart Light Devices Ltd, U.K.

Fiber Optic Distributed Temperature and Strain Sensing for integrity monitoring of Subsea Umbilical Risers and Flowlines 15.35
M. Nikles & F. Ravet
Omnisens, Switzerland

DISSCUSSION 16.00

MEETING CLOSES 16.30-
Refreshments / networking 17.00

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Posters and Table Top Demonstrations

POSTERS

SLIM (Subsea Laser Imaging and Metrology) for the inspection of subsea infrastructures
A Al-Obaid and, A. Jakas, Smart Light Devices, U.K.
L. De Domincis, G. Fornetti, M. Guarneri, M. Ferri de Collibus, M. Francucci, R. Ricci,
ENEA, Laser Vision Laboraory, Italy

An Optical architecture for Optoelectronic sensors on subsea Hydrocarbon Production equipment
D. Faichnie and D. McStay
FMC Technologies Ltd, U.K.

TABLE TOP DEMONSTRATIONS

Characterization and Troubleshooting of Fibre Optics Cables in Oil & Gas Industry
J. Brendel and B. Huttner
Luciol Instruments, Switzerland

Deployment of the first subsea Optical Fibre feed through
G. Shiach, FMC Technologies, U.K. and
C. Prel, Company Deustch, France.

Registration

Attendance to the meeting is free, however those wishing to attend should register via one of the options below:

www.optotechmeeting.com

marcella.campbell@intl.fmcti.com

+44 (0) 1383 747057

Light refreshments and lunch will be provided during the day courtesy of the meeting co-sponsors, FMC Technologies

ORGANISING COMMITTEE

Danial McStay, FMC Technologies Ltd
Thevar, Thangavel, Aberdeen University
Alistair Tweedie, Scottish Optoelectronics Association
Sigurd Moe, FMC Technologies Ltd
Bob Allwood, Society for Underwater Technology
Brian Stewart, Glasgow Caledonian University

A. Al-Obaidi, Smart Light Devices
Luigi Dedominicis, ENEA
Khalid Thabeth, Advanced Sensors
Alan O'Donnell, TOTAL E&P, UK
Douglas Whyte, Hydrobond
Morten Eriksrud, Optoplan

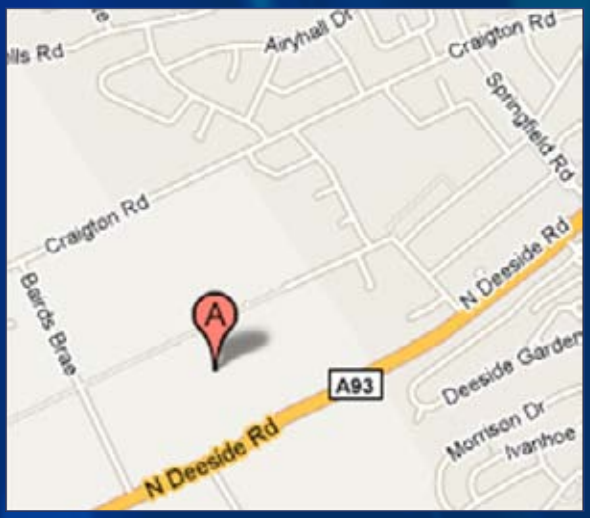
Meeting Secretary: Marcella Campbell

VENUE

The meeting will be held in the Marcliffe Hotel and Spa, Aberdeen.
The hotel is located in a suburb of Aberdeen, just 3 miles from the city centre.

The Marcliffe Hotel and Spa
North Deeside Road,
Pitfodels,
Aberdeen, AB15 9YA,
Scotland, United Kingdom.
Tel: +44 (0) 1224 861000
www.marcliffe.com

By Air
Aberdeen Airport - 20 mins by taxi
By Rail
Aberdeen Railway Station - 10 mins by taxi



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