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 of optoelectronic technologies for a wide range of industry applications, in sessions focusing on optoelectronics for Downhole, 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 year’s 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
### 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
- **10.00**
  - How Halliburton has approached increased oil recovery using DTS stimulation monitoring technology
  - P. Machin, Halliburton, Norway

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

#### COFFEE AND POSTERS
- **10.50**

### AFTERTNOON SESSION

#### SUBSEA AND SURFACE APPLICATIONS I
- **13.35**
  - Optically Remote Powered Subsea Video Monitoring System
  - 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.

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

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

#### BREAK
- **14.50**

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

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

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

#### LUNCH
- **12.35**

### SUBSEA AND SURFACE APPLICATIONS II
- **15.10**
  - Imaging solutions for subsea Inspection.
  - A. Al-Obaidi and A Jakas,
  - Smart Light Devices Ltd, U.K.

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

#### DISCUSSION
- **16.00**

#### MEETING CLOSES
- **16.30**
  - Refreshments / networking
- **17.00**
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. Feri de Collibus, M. Francucci, R. Ricci,
ENEA, Laser Vision Laboratory, 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

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