

Optoelectronic Technologies For the Oil and Gas Industry

**One Day Technical Meeting
Thursday 26th November**

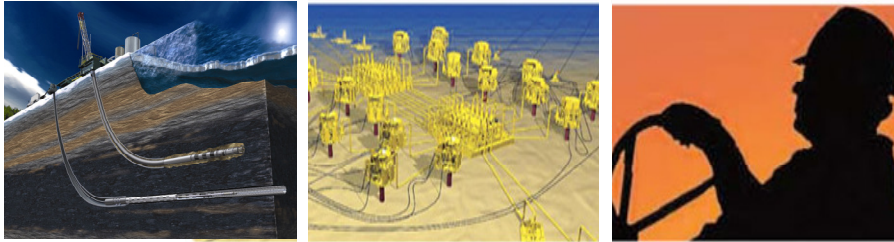
Hilton Tree Tops Hotel Aberdeen

Co-sponsored by:

Institute of Physics (Instrument Science and Technology Group)

FMC Technologies

National Subsea Research Institute



Optoelectronics technologies such as optical fibre communications and sensors, lie at the heart of many important enabling technologies for the Oil and Gas industry. This Technical Meeting will cover recent developments in optoelectronic technology relevant to current and future oil and gas industry applications, along with its potential to facilitate real operational and commercial benefits as well as lessons learned. The meeting will include sessions covering optoelectronics for Downhole, Subsea and Surface applications.

The meeting will provide Oil and Gas industry professionals along with technology developers and providers the opportunity to keep abreast of developments in this rapidly expanding 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

Meeting Programme

MORNING SESSIONS

REGISTRATION and COFFEE	09.00		
<u>Introduction</u>		<u>Subsea Applications I</u>	
The Challenges for Optoelectronics in the Oil and Gas Industry S. Moe FMC Technologies, Kongsberg, Norway	09.30	Ultra Low Noise Lasers for Oil Reservoir and Pipeline Monitoring Christian Vestergaard Poulsen NKT Photonics A/S, Blokken, Denmark	11.20
<u>Downhole Applications</u>		<u>Recent Developments in OFDR-Based Distributed Temperature Sensing for the Oil & Gas Industry</u>	
In-well Fiber optic Sensing M. Birch Weatherford, Aberdeen, U.K.	10.00	W. Hill LIOS Technology GmbH, Cologne, Germany	11.40
Latest Generation Wet-Mateable Optical Connectors for Downhole and Subsea Applications S. Thumbek SEACON Advanced Products LLC, USA	10.20	Potential of an Underwater Radar System using EM waves A.Shaw Liverpool John Moores University, Liverpool, U.K.	12.00
Subsea Optical Fibre Feed-through Technology G.Shiach and C. Prel FMC Technologies Dunfermline, U.K. and Deutsch Offshore , Le Mans, France	10.40	Optoelectronic Technologies for Subsea Surveillance D.McStay and S. McAvoy FMC Technologies, Glasgow, U.K.	12.20
TEA BREAK	11.00	LUNCH	12.40

AFTERNOON SESSIONS

<u>Subsea Applications II</u>		<u>Surface Applications</u>	
Development of a Laser System for High Resolution Underwater 3D Imaging: A Step Beyond to Meet the Industrial World Needs. L. De Dominicis, M. Ferri de Collibus, G. Fornetti, M. Francucci , M. Guarneri, M. Nuvoli, R. Ricci., ENEA, Frascati, Italy	13.30	Distributed Fibre Optic Sensing: Monitoring Pipe Lines, Tanks and Hawsers B. Culshaw University of Strathclyde, Glasgow, U.K.	14.50
Laser Profiling-A new Tool for Subsea Inspection A Al-Obaidi, Smart Light Devices Ltd, Aberdeen U.K.	13.50	Fluorescence Basics: Pros and Cons to Oil in Water Monitoring G. Reeves Arjay Engineering Ltd. (& Enmet Canada Ltd. division)	15.10
Laser Technology for Subsea Leak Detection A. MacKinnon MacKinnon Marine Ltd, Aberdeen, U.K.	14.10	Oil-in-water Monitoring: In-line Versus Side-stream Measurement K. Thabeth Advanced Sensors Ltd, Northern Ireland, U.K.	15.30
		Wirelessly Enabled Optoelectronic Sensor Networks for Surface Wellheads L. Costello and D. Beck. FMC Technologies, Glasgow, U.K	15.50
Tea Break	14.30	Meeting Closes--- Refreshments/networking	16.20- 17.00

Registration

Attendance at the meeting is free, however those wishing to attend should register by contacting Chris Bellingham at:

E-mail: Chris.Bellingham@intl.fmcti.com

Telephone: +44 (0) 1383 747035

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

Organising Committee

Daniel McStay, FMC Technologies Ltd

Andy Augousti, Kingston University

Thanga Thevar, Aberdeen University

Sigurd Moe, FMC Technologies Ltd

Meeting Secretary: Chris Bellingham

Venue

The meeting will be held in the Hilton Tree Tops Hotel Aberdeen.
The Hotel is located in a suburb of Aberdeen just 3 miles from the city centre.

Hilton Tree Tops Hotel
161 Springfield Road
Aberdeen, AB15 7AQ
01224 313 377
www.Hilton.co.uk/AberdeenTreetops

By Air

Aberdeen Airport -20mins by taxi

By Rail

Aberdeen Railway Station-10mins by taxi

