

# Subsea UK at Oil & Gas Asia

18<sup>th</sup> - 19<sup>th</sup> June 2019, Kiosk Hall 4, KLCC, Malaysia



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**18<sup>th</sup> June 2019**

**14:00 Market Brief – Doing Business in Malaysia**



**Hezrie Musa**  
*Trade Manager*  
**British Malaysian**  
**Chamber of Commerce**  
**(BMCC)**

*Hezrie Musa's experience in trade & investment for various industry sectors including oil & gas and renewable energy have made him a well-suited individual to provide bespoke market entry services (into Malaysia) to global industry players. His past career experience, connections and involvement in many developments of bio industrial and renewable energy would also be a key factor to facilitate a success partnerships and business expansion for any global players interested to be part of Malaysia's billion dollars oil and gas and renewable energy industry.*

**Oil & Gas Market Overview**

To date, Malaysia has the third largest oil and gas reserves in South East Asia. Given its proximity to regional oil and gas fields, relatively strong domestic industry and its own natural resources, Malaysia could become a regional centre for the oil and gas industry. Topics will include:

- O&G market overview
- Project opportunities in the next five years
- Contracting activities
- Who are the key players?

Experience in the oil and gas, marine and power industry including business development, commercial and project management in multinational companies. Angeline is well suited to provide valuable assistance to any members, including market intelligence, project data and EICDataStream as well as industry connections.

*Most recently Sri was project manager at the British Malaysian Chamber of Commerce based in KL. He managed the trade department and business support services covering feasibility studies, industry and regulatory analysis and stakeholder identification and engagement. He was lead for the BMCC Energy Committee, established in 2017 and was a leading member of an advocacy task force which was assembled to address the business implication of Withholding Tax in Malaysia.*

*He has a Bachelor of Commerce from University of Wollongong in Australia - majoring in Finance and Economics and Completed a 24 month Management Training Programme for BP.*



**Angeline Elias**  
*Business Development*  
*Manager*  
**Energy Industries**  
**Council (EIC) Asia**  
**Pacific**



**Sridaran Sabapathy**  
*Senior Trade Specialist*  
*(Oil & Gas)*  
**Scottish Development**  
**International**

19th June 2019

**11:00 Case Studies: Subsea field developments using innovative jumper mounted production enhancement technologies and standardised hardware**



**Ryan Sangster**  
Global Sales Manager  
Enpro Subsea

This paper describes 4x case studies in the Gulf of Mexico and Ghana, which demonstrate how innovative jumper mounted flow access technology was successfully used to provide a differentiated field development strategy via a patented Flow Access Hub which acted as a 'USB port' within the well jumper envelope allowing the operator to use standard subsea XT and Manifolds.

It describes how the technology fully aligned with operator's fast track, low cost subsea field development strategy while still enabling the technologies required to maximise ultimate recovery from the well.

It further describes the access technology in detail and how this method and location compares with alternate development strategies to illustrate the operational, commercial and technological advantages of the solution in terms of:

- Maximising ultimate recovery
- Capex reduction
- Lower risk
- Accelerated production

*Ryan has held various senior positions within the subsea equipment manufacturers and has been involved in many projects globally, specifically in the North Sea, Gulf of Mexico and West Africa. Ryan has been actively involved in the commercialisation and deployment of innovative new technology into the subsea industry.*

**11:25 Exploding Myths about Metal Bashers in the O&G Supply Chain**



**John Duffy**  
Sales Manager  
Vulcan  
SFM/Sheffield  
Forgemasters

Forges and Foundries just shape big pieces of metal to your drawings and specs don't they? Well, some might but others have a lot more to offer. Are you happy with the current range of O&G steel grades available or do you want or need something else, with higher strength or better corrosion resistance but just as tough and weldable as all the current grades? So who is going to develop such a grade, prove its capabilities on an industrial scale and bring it to you?

And weldability? You've just designed a large forged or cast component but now you have to weld it into the rest of the structure. How weldable is it? What about WPQs? How long will it take? What will it cost? Is there an easier way? Who's going to find out?

Fortunately, Sheffield Forgemasters does a lot more than shape hot metal. Through collaborative R&D projects, we have delivered innovative product and manufacturing solutions for components in the most challenging environments. How about alloy

development structural parts in both fusion and fission nuclear reactors? Or high-fidelity modelling techniques to improve manufacturing methods and help develop new products in a range of market sectors. And advanced welding techniques to simplify difficult welding operations and minimise inspection requirements?

Just think what we could do in the Oil & Gas sector. You want more “early engagement” and “collaboration”. Come and listen to what we have to say.

*John Duffy has had a sales and marketing career in metals manufacturing in the aluminium and stainless steel industries, having worked for Alcan Aluminium, Hydro Aluminium and Outokumpu Stainless, before joining Sheffield Forgemasters’ oil and gas specialist company, Vulcan SFM in 2011. A graduate in foreign languages from the University of Surrey and a postgraduate from the University of Warwick Business School, John also studied metallurgy at the Open University.*

### 11:50 Electrical and Optical Real Time Subsea Integrity Testing



**Paul Basford**  
*Business Development  
Manager*  
**IMES International**

Checking the electrical integrity of subsea power and control umbilicals during commissioning can be time consuming using traditional test methods involving the iterative subsea deployment and recovery of test equipment and surface analysis of results. This presentation describes a real-time method of detecting electrical faults such as Low Insulation Resistance (Low IR). It allows elements of the subsea architecture to be isolated and tested individually and faults located rapidly, effectively reducing the time for commissioning. The flexibility and speed of the technology means it can be readily used for fault finding post lay electrical testing, post intervention and as part of a scheduled maintenance programme.

The electrical integrity test technology has been developed by inspection specialist, IMES International, part of the Seanamic Group.

Mounted on a Remote Operated Vehicle (ROV), the subsea electrical test equipment is controlled remotely from the surface, enabling individual cores to be tested with all result viewed and recorded in real-time. The unit was originally developed in response to demands for a tool to test for Insulation Resistance (IR) and Continuity Resistance (CR) in the oilfields West of Shetland. Recent developments have included expansion of the technology to include Time Domain Reflectometry (TDR).

To keep pace with subsea cable and umbilical technology IMES are in the final stages of producing an OTDR (we believe to be a subsea first) capable of locating and pin pointing faults within subsea optical cables and umbilicals.

The presentation will include a short case study showing how the IMES subsea electrical test equipment has been used for field electrical integrity testing at the end of the operator’s 18-month subsea architecture development, ahead of going ‘live’.

*Joined IMES Ltd in 2013 as a project manager after having spent 8 years in the Middle East engaged in a number of projects for the UAE Government. Prior to this I served with the Royal Marines carrying out amphibious operations and peace keeping duties globally.*

*Currently the Business Development Manager with IMES engineering department based in Sheffield helping to promote key products for the O&G, defence, nuclear and renewables industries.*

## **12:15 Developments in Subsea Laser Scanning Technologies for Asset Management and Inspection**

**Grace Chia**  
*Sales Engineer*  
**Seatronics**

Underwater laser scanning is a technology that is increasingly being used for asset integrity management, offering upfront time and cost savings in a familiar platform. This innovative technology provides accurate and efficient alternatives to existing subsea survey, inspection, and engineering operations. The high density true-scale 3D data generated by the latest generation of underwater laser scanners equips engineers with the capability needed to comprehensively assess subsea assets, develop effective design and repair solutions, and make informed decisions. In comparison to legacy solutions such as acoustic and multi-beam systems, laser scanners offer inherently higher resolution and data integrity, with reduced susceptibility to acoustic imaging limitations such as absorption and 'time of flight' errors. 2G Robotics' ULS-500 PRO underwater laser scanner uses high-grade optical components specifically developed for subsea dynamic scanning with a focus on AUV, ROV, and subsea vehicle implementation. High sample rates, timing synchronization and continuous data acquisition allow for faster, more efficient inspections. With the ULS-500 PRO, data is captured and available for viewing in real-time, providing quality assurance and reducing the potential risk and cost of having to perform repeat surveys. This presentation will highlight the use of dynamic underwater laser scanning technology for asset inspection and integrity management surveys.

*Grace is a graduate in Mechanical Engineering from the National University of Singapore (NUS). Grace co-founded the award-winning BumbleBee Autonomous Underwater Vehicle project in NUS, which Seatronics sponsored from 2012. Two years of work on the AUV exposed her to the operation of a variety of marine equipment, as well as the challenges faced by clients in the marine research, defence and commercial sectors. Since joining Seatronics in 2014, Grace has worked closely with clients to develop bespoke subsea solutions to overcome technical challenges and explores new business opportunities for Seatronics in the APAC markets.*

#### 12:40 Cortez Subsea, Murray Ross



**Murray Ross**  
*Director and General  
Manager – Asia  
Cortez Subsea*

Welding is the predominant method for fabricating pipe systems across the subsea industry. But there are several applications where traditional welded pipe connections become inefficient, uneconomic or impossible. Cortez Subsea works with NOV-Tuboscope to deliver Zap-Lok™ mechanical connectors to the Malaysian offshore market for pipelay which is faster, stronger and cheaper. The Zap-Lok™ technology is proven with more than 7000km of subsea hydrocarbon pipelines installed worldwide and zero recorded failures in operation of over 70,000 joints. Murray Ross, Director and General Manager of Cortez Subsea in Malaysia, explains how this proven technology can improve safety, dramatically cut costs and reduce our carbon footprint.

#### 13:05 The Importance of Standardisation and Early Supplier Engagement



**Ben Malone**  
*Sales Engineer  
Tekmar Energy  
Limited*

While the Oil and Gas market is still in recovery, supply chains are being pushed harder than ever to reduce costs whilst maintaining both aggressive lead times and high quality standards.

At present, ancillary suppliers are engaged once the SURF designs have been finalized, leading to bespoke solutions on a case by case basis. In order for supply chains to provide significant savings to both costs and lead times, standardisation is key; be this through standardisation of existing products, or the introduction of new, innovative products into the marketplace.

Tekmar Energy Limited have worked closely with SURF manufacturers to develop a suite of standardized products. Through early supply chain engagement and standardized offerings, Tekmar Energy Limited have been able to reduce both the cost and lead times across both their Oil & Gas and Offshore Wind projects, all the while maintaining their high quality standards.

*Ben Malone is a degree qualified engineer with 10 years' experience in the Oil and Gas industry. After starting his career at Genesis Oil and Gas Consultants as a Subsea Engineer, Ben moved to OneSubsea to become Lead Project Engineer for the Taurus Libra and GFR Xmas Trees. At present, Ben currently acts as a Sales Engineer at the world's leading subsea cable protection company, Tekmar Energy Ltd.*

### 13:30 Deep Water Capstan – Delivering the Potential of Fibre Rope



**Alan Bevan**  
Business Development  
Manager  
**Parkburn Precision  
Handling Systems**

Parkburn's innovative Deep Water Capstan is a tensioning technology that enables the advantages of synthetic (fibre) ropes to be full-realised for lifting applications. The benefits are particularly relevant for deep water, heavy-lift operations.

*A Chartered Engineer having graduated in Mechanical Engineering from Imperial College, Alan has enjoyed forty years in the aerospace and marine engineering sectors. He has worked for Rolls-Royce, MacTaggart Scott and Parkburn Precision Handling Systems in both defence and commercial markets, primarily in business development roles. Mr Bevan currently heads up Business Development activities for Parkburn and is responsible for their efforts to secure new business and markets worldwide.*

### 13:55 Design Solutions for Higher Temperature (HT) Heated Pipelines



**Ir. Ilan Karupiah**  
Pipeline Manager  
**Wood**

- Available heating technologies
- HT design challenges and solutions
- Installation issues and,
- Operational issues

*Ir. Ilan Karupiah has 20 years of experience in offshore pipeline engineering design, project management and execution, construction, installation, material procurement, interfaces and regulatory compliance and approval. Involved in various project development phases such as concept selection, FEED, detailed engineering and installation support. He also oversees a team of subsea pipeline & structure engineers and designers, providing design engineering support to various on-going projects.*

### 16:00 UK Networking Event and Whisky Tasting

**OIL & GAS ASIA**



## Invitation to UK Networking and Whisky Tasting Event

**Where:** KLCC, Subsea UK Hospitality Lounge 4, Hall 4, Mezzanine Level

**When:** Wednesday 19 June, 4pm - 6pm

**Register to attend:** [click here](#)

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