



## **SEAFOM CHARTER UPDATE - FINAL VERSION**

### **Subsea Fiber Optic Monitoring Group**

### **SEAFOM**

**Date: May 2019**

#### **Introduction**

SEAFOM is an international joint industry forum. SEAFOM's Vision – 'To facilitate the growth of fiber optics sensing in subsea, dry tree, and land well applications as well as with land and subsea infrastructure such as pipelines and flowlines'.

Membership is open to interested organisations, following the highly successful launch meeting during June 2006 in Houston. SEAFOM meetings will be held up to four times each year.

SEAFOM is a formal organisation, with defined Vision, scope of work, Steering Committee, and professional project management by OTM Consulting Ltd.

#### **Charter**

The group is formed specifically to facilitate the growth of in-well and subsea fiber optic monitoring system installations in subsea, dry tree, and land well applications as well as land and subsea infrastructure.

The scope also extends to relevant technical issues for other upstream/ midstream applications and downhole optical challenges common to on-shore as well as offshore wells.

The group will develop "industry" processes and procedures and take other steps that it believes will facilitate the desired growth.

The group will not develop recommended practices that would in any way inhibit innovation nor address issues already in the domain of other related industry groups, like SIIS and IWIS.

#### ***Scope activities for the group will be focused on:***

##### **1. Knowledge Transfer**

Results from prior testing work, installations & case histories – successes and challenges

##### **2. Technology Gaps - Identification of technology gaps and barriers to growth**

- Overview of current status, not just technology but all barriers which do not promote growth of fiber optics sensing

##### **3. Test Qualification Procedures**

- Development/consolidation of test qualification procedures and recommended practices for the following optical sensing systems (and system elements)
  - Fiber optic sensors
  - Tubing hanger and in-well optical wet and dry connector systems
  - Optical interrogation systems
  - Fiber in umbilicals
  - Fiber in cable

##### **4. Measuring Sensor Performance - Define how to measure sensor system performance**

- Focuses on identifying what performance parameters should be defined by sensor/system suppliers and purchasers

##### **5. System Integration**

- Look for any gaps not covered by IWIS/SIIS
  - Work with other groups as appropriate
  - Plug and Play not a reality for optics – yet

6. Improve value proposition of using Fiber Optics

- Education and training (e.g. 101 course)
- Industry promotion events
- Primer

**Other scope areas that will be developed as SEAFOM advances may include:**

- A. QA/QC - Quality levels for manufacturing processes
- B. Technology solution/provider identification and evaluation
- C. Technology development JIP's

The new group will be a knowledge sharing network.

### **Steering Committee**

A Steering Committee will be formed from a chosen representative from each of five organization type groups. The first Steering Committee comprised:

- Oil company: Roy Kutlik, Chevron
- Downhole completions and fiber optic sensor vendors: Brian Drakeley, Weatherford
- Subsea tree vendor: Sverre Corneliussen, FMC
- Connector vendor: Roger Fellows, DGO Teledyne
- Fiber optic technology/ Interrogation unit vendor: Kelly McCoy, SensorTran

The Steering Committee will be responsible for maintaining the SEAFOM Charter, overseeing the direction and development of SEAFOM, advising OTM on management and logistical matters.

Each Steering Committee member will serve for one year, voted in by the Members.

### **Membership**

Open to those operators, and service/research companies developing, interfacing with and deploying in-well and subsea fiber optic monitoring systems and those components and communications systems required for subsea well applications. Each member will be expected to contribute to the activities of the project and participate in knowledge sharing and provision of technical expertise.

Each member company may send a maximum of two representatives to each meeting, and request a third attendee in advance of the meeting at the discretion of OTM and the Steering Committee, dependent on numbers and venue size.

SEAFOM membership will run on a yearly basis from June.

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### **Fees**

The SEAFOM fee is currently set at £4,500 plus VAT for the first 12 months. This fee may alter depending on the number of participants and expectations of the group.

### **Documentation**

The workings of SEAFOM are described in the SEAFOM Membership Proposal PR-4358-03a and the Membership Bylaws & Application RP-4358-03a.

### **Organizing Company**

OTM Consulting based in Epsom will manage the group on behalf of the Steering Committee and the group members. The scope for OTM is described in the SEAFOM Proposal.