



SEAFOM CHARTER – 2013 VERSION

SEAFOM

Promoting the Use of Fiber Optics Sensing in All Types of Wells, and Within Surface and Seabed Infrastructures

Introduction

SEAFOM is an international Joint Industry Forum, which had an original vision to promote the growth of fiber optics in subsea applications. As time has moved on this vision has been enlarged to encompass what can be considered as the stepping stones to such challenging applications, and so now encompasses all upstream oil and gas industry applications.

SEAFOM welcomes interested organizations as members. Since the launch meeting in Houston during June 2006, SEAFOM has run a regular programme of meetings: four times a year, alternating between venues in the USA and Europe.

SEAFOM is a formal organization, with an agreed Vision and Scope of Work. It is governed by a Steering Committee chosen by the membership, with professional project management by OTM Consulting Ltd defined in the SEAFOM Membership Proposal.

Charter

SEAFOM exists to facilitate the growth of fiber optic monitoring system installations in the upstream oil and gas industry. This includes usage in land, and all offshore wells (both dry and wet tree), as well as within surface infrastructures both on land and offshore, including those positioned on the seabed e.g. pipeline leak detection.

SEAFOM is fundamentally a knowledge sharing networking organization that is also developing "industry recommended" practices and procedures, and taking other steps that it believes will facilitate the desired growth. Any such recommendations will neither inhibit innovation, nor address issues already in the domain of other related industry groups, like SIIS and IWIS.

SEAFOM Areas of Activity

The SEAFOM membership may from time to time designate topics of particular interest as areas of activity. These areas include:

1. Knowledge Sharing

Members and guests reporting results from prior testing work, research, and installation case histories – successes and challenges as well as new technologies and systems relevant to SEAFOM's charter.

2. Technology Readiness

Summarizing the readiness levels of identified technologies within the upstream oil and gas industry segment and as previously defined by the Systems Integration working group, and determining:

- How to address identified gaps
- How to obtain support and funding for this purpose

3. Test Qualification Procedures

Developing and consolidating test qualification procedures and recommended practices for optical sensing systems and system elements, including:

- Subsea tree feedthroughs
- Subsea fiber optic connectors
- Fiber optic sensors
- In-well optical wet connector systems
- Fiber installed in umbilicals

4. Measuring Sensor Performance

Defining how to measure sensor system performance, focusing on identifying those performance parameters that are of importance to sensor and system suppliers, and to purchasers and end users.

Other areas within the scope of the forum that may be developed include:

- Quality Assurance & Quality Control - Quality levels for manufacturing processes
- Technology solution and technology provider identification and evaluation
- Joint Industry Programs to develop new technology

Steering Committee

The SEAFOM Steering Committee is formed from one or more representatives from each of the five member company types (or constituencies), who are either elected by the representatives of those organizations or accepted as willing volunteers upon a SEAFOM Steering Committee position becoming vacant, and there being insufficient volunteers from any of the constituencies to warrant an election. The five classes of member company are:

- Oil & Gas operating companies
- Downhole completions and fiber optic sensor vendors
- Subsea tree & controls vendors
- Connector vendors
- Instrumentation & cables suppliers (Fiber optic technology or interrogation unit suppliers)

The Steering Committee is responsible for:

- Maintaining the SEAFOM Charter
- Overseeing the direction and development of SEAFOM
- Advising OTM Consulting on management and logistical matters

Each Steering Committee member serves for a term of one or two calendar years according to their personal preference, and this term can be extended should the existing member be willing, and there being a lack of volunteers for their position. Each member company is entitled to one vote and Committee voting takes place at the final meeting of each calendar year.

Membership

Membership is open to oil and gas operators; service or research companies and institutions developing, interfacing with and deploying fiber optic monitoring systems in the upstream oil and gas industry; and suppliers of components and communications and supporting systems. Each member is expected to contribute to the activities of SEAFOM, including participation in knowledge sharing, and provision of technical expertise in the technical Working Groups.

Each member company may send up to a maximum of four representatives to each meeting. Two will be allowed to attend at no extra charge (beyond the annual membership fee), as would a third, if that person is making a presentation. Beyond that one further person may attend subject to pre-meeting payment of an additional fee (currently GBP 300.00 per meeting).

Fees

The annual SEAFOM membership fee is currently (GBP) £4,000 plus VAT for the 12 months, from July - June. This fee may be changed depending on the number of participants and expectations of the group. The annual fee is determined by agreement between the Steering Committee (representing the membership) and OTM Consulting Ltd and any proposed increase is presented to the Membership for approval.

Meeting Guests

In order to allow potential new members to assess the value of joining SEAFOM, a company or institution may attend one SEAFOM meeting free of charge. Attendance is limited to two persons from each guest company or institution. The Guest company/institution must sign the Guest Agreement in

order to attend all parts of the SEAFOM meeting. In addition, guest speakers may also be invited to attend meetings free of charge.

Documentation

The workings of SEAFOM are described in the SEAFOM Membership Agreement along with RP-4358-06b (SEAFOM_Competition Compliance 2009-10). All are available from the SEAFOM website www.SEAFOM.com.

Organizing Company

OTM Consulting Ltd based in Epsom (UK) will manage the group on behalf of the Steering Committee and the group membership. The scope for OTM is described in the SEAFOM Proposal. SEAFOM meetings will be held quarterly, to coincide with SIIS meetings.