



The Institute of Materials, Minerals & Mining

## **OIL and GAS DIVISION**

### **ANNUAL REPORT FOR 2013**

#### **1. Board membership**

At the September 2013 Board meeting Steve Jewell stood down due to work commitments and Andrew Duncan joined the Board. At the end of 2013 the Division Board members were: Steve Bedford (Chair), Craig Durham, Margaret Copland, Babs Oyenevin, Martin Cox, Ian Merchant and Andrew Duncan.

#### **2. Board meetings**

**Aberdeen 5<sup>th</sup> September**, attendees: Steve Bedford, Margaret Copland, Martin Cox, Prof. Babs Oyenevin, Craig Durham, Ian Merchant and Andrew Duncan.

**Aberdeen 13<sup>th</sup> November**, attendees: Steve Bedford, Margaret Copland Prof. Babs Oyenevin, Craig Durham and Ian Merchant.

Minutes of Board meetings were posted on the Division microsite.

#### **3. Activities during 2013**

##### **3.1. Technical programme**

The Oil and Gas Division was active throughout 2013 delivering technical presentations, student seminars and training courses as detailed in the Appendix. At each event there was a recruitment stand; with recruitment particularly successful at the student seminars. The 2013 Division membership survey indicated that members view networking opportunities at professional events as a key reason for belonging to the Institute; in response the Division plans to sustain popular technical events and add new events in 2014 as detailed in the Appendix.

##### **3.2. Web-site developments**

The Division re-branded the microsite to align with the Division name change from Petroleum and Drilling Engineering to Oil and Gas. The web site was continually updated throughout the year with fresh relevant news articles, presentation material, events information, links and Board papers. Additional educational material was published, including an update to the schools oil and gas overview and MSc level notes on well integrity. The Division website

remained in the “top ten” most popular Institute websites and received recognition from the Institute for the quality and frequency of refresh.

### **3.3. Engagement with technical community and/or local societies**

The Division continued to maintain a close working relationship with the Mining Institute of Scotland due to the large number of Division members based in Scotland. The Division also worked closely with the Aberdeen based local societies of the: Energy Institute, Institute of Corrosion Engineers, Institute of Mechanical Engineers, the Society of Petroleum Engineers and the International Coiled Tubing Association. The Division continued to maintain working relationships with MinSouth and the Midlands Institute of Mining Engineers to engage with Division members based in England. The Division is a member of the International Minerals and Mining Association and continued to hold the Chair of this body throughout 2013.

### **3.4. Contributions to IoM3 house journals**

The Division continued to provide articles, book reviews and a regular column for Materials World throughout the year. The Division continued to progress the utilisation of Transactions D for Oil and Gas matters.

### **3.5. Other**

In line with feedback from the 2011 Division member survey the Division re-branded from Petroleum and Drilling Engineering to Oil and Gas to be more inclusive and better aligned with member interests. As noted earlier the website was re-branded. In addition all the Division papers were re-branded, a brochure was issued (in the standard Institute format) and display boards were put up at the Institute offices. To increase the profile of the rebranded Division the Board reviewed the available Institute awards and made a submission for the Institute Medal of Excellence; with letters of support from senior executives at Nexen and British Petroleum.

The Division Board believe that a primary role of the Board is to represent the interests and views of the Division members. To gather Division member views, and demographic data, a survey was issued to all Division members in October. This survey followed previous surveys issued in 2009 and 2011. Where relevant the same questions were used to provide trend data. The survey results closely aligned with those from the two previous surveys and were supportive of the direction being taken by the Division Board, in particular 92% of respondents supported the rebranding of the Division. A summary of the survey results will be published early in 2014.

In line with the Institute strategy to increase technician membership the Division Board continued to work closely with the Institute membership department and the Mining Institute of Scotland to develop a student forum at Fife College. The Forum held meetings throughout the year, undertook Industrial visits, attended trade events and technical presentations. At the year end the Forum was finalising a business plan for submission to the Institute and was organising an Institute visit for late April 2014.

The Division supported the Institute drive to increase overseas membership by conducting professional review interviews for overseas candidates via video conference and hosting an informal members meeting in Dubai to stimulate the development of a local society for the United Arab Emirates.

Communication with the membership remained a priority for the Division. In addition to the website, Materials World contributions and the member survey the Division initiated an eZine or electronic newsletter.

## **4. Strategy and Objectives for 2014**

### **4.1. Opportunities and constraints**

The Division Board issued a 5 year plan in December 2012 and has agreed specific deliverables for 2014 aligned with: the five year plan, the Institute strategy and the responses to the 2013 Division membership survey, as detailed in the November 2013 Division Board minutes. The Division has achieved sustained growth from 436 members in 2007 to 1141 members at the end of 2013, with a net 13% increase in membership during 2013. With continuing growth in the Oil and Gas sector, and increased focus on well integrity, the Board believes that further membership growth is possible. In 2014 the Board plans to replace the current 5 year plan with a plan to 2020 aligned with the Institute 20:20 strategy. To achieve sustained growth the Board has focussed on both identifying and responding to the requirements of the existing members and the identification and action of opportunities to recruit new members. The Board views the two yearly member survey as a key tool to establish member needs. The Board believe that sustaining, and continually improving, successful activities is key to both retaining existing members and recruiting new members. Opportunities that the Division Board are progressing in 2014 are as follows:-

- Maintain regular communication with the members via: microsite, eNews letter and Materials World. Support the development of the Institute website.
- Maintain and build upon successful technical programmes and continuing professional development offerings.
- Maintain and build the student seminar programme.
- Maintain Industrial and academic accreditations.
- Identify and support the Institute to develop international local societies in oilfield centres.
- Raise the visibility of the Division through active engagement with other relevant professional bodies and making Institute awards.
- Maintain and improve materials for schools, colleges and Universities.
- Continue to develop the Fife College student forum as a pilot.
- Raise the profile and value of the CEng qualification within the Oil and Gas Industry and support the professional registration process. In particular raise awareness of the experiential route.
- Identify any areas where the Division can support the Institute with position papers on topical issues.
- Progress the development of a Technical Journal for Oil and Gas.

The Board views the following as key constraints to continued growth:-

- The Board requires more members and more help from the Division membership to sustain and build upon the current activities. Contacting members who expressed interest in getting involved through the survey has not been possible. Members willing to organise activities outwith Scotland and produce papers for Transactions are required.
- Constrained Institute support has limited Division activities specifically accreditation where the Division has suspended work on providing new accreditation opportunities to the Institute as the limited Institute resource have been unable to progress the numerous opportunities identified. Institute support for the fledgling Dubai local society and Fife College student forum are also areas of concern.
- The Institute website requires refreshing and the Division microsite needs increased visibility.
- Unlike the United States the European Union has not made the professional qualifications and continuing professional development offered by the Institute mandatory in the Oil and Gas sector.
- Engineers in the Oil and Gas Industry are very busy and find it difficult to make the time to participate in the Institute activities.
- There are multiple Institutes working in the Oil and Gas sector, decision makers tend to support their own “heritage” professional body.
- There is limited career enhancement through gaining the professional qualifications offered by the Institute and participation in the continuing professional development activities.
- The American Society of Petroleum Engineers (SPE) globally dominates the Oil and Gas sector. The SPE has linked up with the Energy Institute and is offering an increased level of service to Oil and Gas Engineers, including: a route to professional UK registration as a Chartered Engineer and model codes of safe practice/guidelines.

#### **4.2. Specific targets**

Specific targets are detailed in the 2014 action plan and the 5 year plan.

#### **5. Other matters**

In 2014 there will be a referendum on Scotland leaving the United Kingdom. As detailed above Division activities are currently focussed in Scotland. The Institute should give consideration to the potential implications of Scotland leaving the United Kingdom.

*S. Bedford*

Eur Ing Steve Bedford BEng CEng FIMMM FGS  
Oil and Gas Division Chairman  
27<sup>th</sup> December 2013

## Appendix: Technical Programme (past year and future plans)

Date	Status (Held /Progressing /Planned)	Title	Location	Organising Division(s) /Committee(s) /Collaborators	Financial Underwriter (IOM3/Local /Other)	100% Target No's	Actual No's	Comments
2013-02	Held	Well Integrity seminar	Aberdeen	O&G / EI	MIS	100	108	Attendance impacted by heavy snowfall.
2013-03	Held	Completion engineering seminar	RGU	O&G	RGU	30	27	Well received repeat event.
2013-03	Held	Subsea engineering seminar	RGU	O&G	RGU	30	27	Well received repeat event.
2013-03	Held	Sand cleanout seminar	RGU	O&G	RGU	30	27	Replaced gas well deliquification seminar run previously. Well received.
2013-03	Held	Introduction to downhole metallurgy	Aberdeen	O&G	MIS	15	18	CPD 2 day course with IOM3 accreditation. Wait list.
2013-04	Held	High Pressure High Temperature field development seminar.	BP Aberdeen	O&G		20	27	Combined with RGU visit to BP office.
2013-10	Held	Scottish Oil Industry Seminar	St. Andrews	O&G/MIS	MIS	30	48	Targeted at GeoScience students.
2013-11	Held	Technician well intervention seminar	AECC	O&G	ICoTA/BP	15	23	Combined with visit to ICoTA conference and trade exhibition.
2013-12	Held	Integrity Management and the Law in the Oil and Gas Industry	Aberdeen University	O&G		100	160	Well received, looking to hold a similar seminar at RGU.
2014-02	Planned	Completion engineering seminar	RGU	O&G	RGU	25		Repeat of a successful event.
2014-02	Planned	Subsea engineering seminar	RGU	O&G	RGU	25		Repeat of a successful event.
2014-02	Planned	Sand cleanout seminar	RGU	O&G	RGU	25		Repeat of a successful event.
2014-03	Planned	Introduction to downhole metallurgy	Aberdeen	O&G	MIS	15		Repeat of a successful event.
2014	Planned	Technical presentation	Aberdeen	O&G	ICorr			Objective to encourage ICorr members to join IOM3.
2014-03	Planned	Scotland's Oil? How might an independent Scotland Maximise its Oil & Gas revenues?	Aberdeen	O&G / EI	ITPB	100		Repeat of successful previous joint Technical Presentations.
2014-10	Planned	Scottish Oil Industry Seminar	St. Andrews	O&G/MIS	MIS	30		Targeted at GeoScience students.
2014-11	Planned	Technician seminar	AECC	O&G with ICoTA and SPE	ICoTA	20		Repeat of a successful event.

Notes:-

The Board will facilitate further technical activities in 2014 if opportunities arise.

MIS: The Mining Institute of Scotland  
ICorr: Institute of Corrosion  
ICoTA: International Coiled Tubing Association  
RGU: The Robert Gordon University  
SPE: Society of Petroleum Engineers