

RISK & REWARD

WE REPORT FROM OUR
SAFETY & ENVIRONMENT
SEMINAR 2012



PLUS

SPOTLIGHT ON
DAVE FORSYTH

NEW MLC GUIDANCE

DESIGN UPDATE

BRIDGE TEAM
MANAGEMENT





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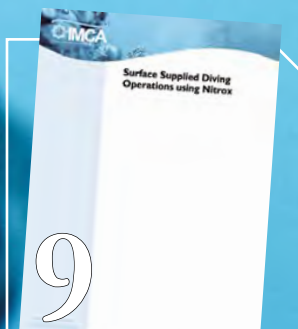
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EVENTS

From the President

Andy Woolgar, Subsea 7
IMCA President 2012



My message this time comes from an extremely buoyant and successful OTC for IMCA. It was great to see so many members in person, discuss their issues and find where IMCA can help and provide good practice guidance. The attention that the IMCA stand attracted from both existing and prospective members demonstrates a healthy profile of IMCA at the forefront of the industry that is most encouraging.

In the previous issue I discussed IMCA's work on contracts. This subject remains high profile and in this issue we report on both the successful *Allocating Risks* seminar and the results of a contracts questionnaire. IMCA supports members working on offshore renewable energy projects through one of its workgroups. These jobs sometimes do not follow typical oil and gas contracts – instead using civil engineering forms that can miss the detail required to fully understand and allocate risks in the marine environment. IMCA continues to work with stakeholders on this issue as members' involvement in this area continues to grow significantly.

Members will be familiar with the factsheet *IMCA – What's in it for me? Using IMCA materials and resources*, published recently. It encourages members to be active at events and there are two coming up that you should put in your diaries: the Midsummer Ball in Aberdeen, UK on 22 June 2012 and the Annual Seminar in Amsterdam, the Netherlands on 28-29 November 2012. Please support your association at these events.

Members will also be aware that Hugh has decided to retire as Chief Executive at the end of 2012, after ten years of helping develop IMCA to its current point. One of my roles as President is to chair the Overall Management Committee to which the Chief Executive reports. I will be working with OMC and Hugh to seek a new Chief Executive to continue the good work. As ever, there remains a lot to do in increasing IMCA's standing, delivering benefits to members and furthering the work programme – an exciting prospect for Hugh's successor. Details are available on the IMCA website.

RIO SAFETY SEMINAR MAKES AN I M P A C T

The tenth annual IMCA safety and environment seminar – *Risk and impact in marine operations* – was held in Rio de Janeiro on 20-21 March 2012 and saw the highest ever attendance at an IMCA safety event. Over 180 delegates enjoyed a mix of presentations and roundtable discussions on a range of issues. Giorgio Martelli of Saipem, outgoing Chairman of the IMCA South America Section, welcomed delegates to the event with his introductory address. He spoke on the importance of members' treatment of the environment, stressing sustainability in their operations to ensure a legacy for future generations.

Lauro Antônio Puppim of Petrobras gave the keynote address, discussing the importance of growth, innovation and integrity. He noted the considerable rate of change in the the past 20 years of the offshore industry, with operations now being conducted offshore Brazil in over two kilometres of water and in a safe and environmentally conscious way. He concluded that in order to maintain growth, manage new risks and continue innovation, contractors would need to challenge existing procedural and cultural norms within the industry.

The varied programme featured presentations on both safety and environment related themes, with the focus on dealing with high impact, low probability events. Topics included: the evaluation of environmental risk and impact in sensitive areas, the legal and regulatory impact of high impact events, corporate social responsibility and the importance of full workplace involvement, confined space entry, workplace fatigue and process safety challenges. There were also roundtable discussions on potentially catastrophic events, and how their risks could be mitigated through process safety and asset integrity.

IMCA is keen to use technology to enhance our events and here keypads allowed instant feedback on questions posed by the speakers. Simultaneous translation between Portuguese and English was also available, as a number of presentations were given in Portuguese and the Q&A sessions conducted in both languages.

Feedback has been excellent and IMCA hopes to continue to increase both the quality and scope of future events. Success here paves the way for our annual seminar in November that promises to be bigger and better than ever. NH

RISK & IMPACT



IMCA CONTRACTS

IMCA's work on contracts has produced the *Decommissioning contracting principles*, the *General contracting principles* and the *Marine construction contract*, recently re-issued as Rev. 1. The contract documents for offshore survey and ROV work are also being revised. A discussion document – *Identifying and assessing risk in construction contracts* – is still available.

ALLOCATING RISKS

A seminar on *Allocating risks*, organised by the IMCA Contracts & Insurance Workgroup, was held aboard HQS Wellington on 24 May 2012. Around 70 delegates, most with legal or insurance responsibility for oil companies, contractors or advisers, listened to presentations on risk and joined in a lively workshop. Allocating risks correctly in contracts is critical to the safe and efficient delivery of projects, good understanding of the parties, avoiding overlaps and gaps, providing focus for risk management and creating clarity in the event of any incidents. Lack of clarity costs money.

FEEDBACK

A questionnaire was issued to all contractor and corresponding oil company members in February 2012 seeking feedback about our contracts work. IMCA is grateful for the response and will soon send a report to all who replied. The data indicates members are aware of the documents, mostly using some parts to support their work. They requested more IMCA contracts work for other disciplines and phases of work – where the suite available from LOGIC at www.logic-oil.com/standard-contracts would be a useful starting point. IMCA R 013 – *Contract for the provision of ROV, support vessel and associated work* – can also be used as it has a vessel hire format and a blank scope of work that can be adapted as required.

ONLINE

All IMCA contract materials are online: www.imca-int.com/documents/contracts



TWO NEW TEAM MEMBERS

IMCA welcomes two further members to its technical team. Mark Ford joins as Technical Adviser – Marine from Charles Taylor Consulting where he worked as a senior surveyor and divisional director in the safety and loss prevention department. He has come to IMCA with a wealth of experience in the marine engineering field, which will benefit not only the IMCA marine division work programme but also the other members of the IMCA technical team. Mark worked for over 25 years as a marine engineer on various ships, including bulk carriers and diving support vessels, ultimately sailing at the rank of Chief Engineer.

Peter Sieniewicz joins as Technical Adviser – Diving following 14 years as a specialist diving inspector with the UK Health and Safety Executive. Peter has experience of many facets of our industry including research, legislation, diver training and project management reinforced throughout by diver safety. Peter began his diving career in Canada before moving to the UK in the late 70s. Having spent some time working in diver training, he then held a research post in the mechanical engineering department at University College London before joining Rockwater as the ROV & Inspection Services Manager – broadening his offshore inspection and construction knowledge. JB



HQS WELLINGTON

On a beautiful May evening around 200 members and guests gathered aboard the HQS Wellington, the livery hall of the Honourable Company of Master Mariners. Everyone enjoyed the hospitality, benefiting from taking part in so many informal discussions about our industry. Among the attendees were London-based lawyers, insurers and consultants, visitors from IMO, members and the secretariat. HW

HUGH WILLIAMS TO STEP DOWN

Hugh has announced his intention to step down as IMCA Chief Executive at the end of 2012 after ten years in the post.

"We have achieved a huge amount in my time with excellent support from my team," Hugh said. "It has been a most rewarding role, but there remains much to do and we will be seeking internally and externally for a new Chief Executive to take IMCA forward and continue to deliver even more support to our members."

Recruitment details are available on the IMCA website. HW

NEW MLC GUIDANCE

IMCA has published further guidance on the International Labour Organization (ILO) Maritime Labour Convention (MLC, 2006). At the time of writing, the MLC has been ratified by 26 countries and only four more are needed before the convention comes into force twelve months later. Shipowners, charterers, and other third parties should start discussing now how they will meet the requirements. There are a number of problems for the offshore sector that still need resolving, including:

- ◆ The definition of 'seafarer' will be determined on a national basis, but the MLC defines 'seafarer' as anyone working onboard, so the convention is expected to apply to the vast majority of OSV personnel, and not just the marine crew;
- ◆ The shipowner (or ship operator) has ultimate responsibility for MLC compliance for everyone regarded as a 'seafarer' under the MLC, and all 'seafarers' must have an employment contract with the shipowner. The shipowner could therefore become liable for charterers' and other third parties' personnel, including for medical care, repatriation and payment of wages;
- ◆ Governments may also need to take account of differences between the offshore sector and mainstream shipping, such as the recognition of offshore medicals and industry specific training, in lieu of seafarers' medicals and STCW certification. OSVs may also need exemptions from the accommodation requirements for new ships.

An IMCA workgroup has produced detailed guidance – including an 'MLC issues sheet' and a worked example of the offshore personnel who may be regarded as 'seafarers' for MLC purposes – that replaces the initial IMCA briefing, to help identify the issues that still need resolving by flag states.

Members are encouraged to review the information note SEL 03/12 (also issued as C 06/12 and M 10/12) and forward details of their MLC contact to Emily.Comyn@imca-int.com so they can be kept up to date on developments. EC

FREELANCE PACKS

IMCA's freelance personnel competence assurance and assessment packs were originally launched in 2005 and have been updated to better reflect the needs of a freelance staff that now makes up an estimated 20% of the offshore workforce.

Based on the IMCA competence frameworks, these revised documents are now available for remote systems & ROV and offshore survey positions at www.imca-int.com/documents – with marine and diving division positions to follow soon. They can be used by one or more assessors to measure an individual's competence, to assist freelance personnel in getting assessed and verified by appropriately qualified personnel.

The success of the new scheme depends on many issues, but its promotion and implementation by the freelance worker, the agency and the contractor is key. Should you require any further information or support in how to use the packs please contact Neil.Evans@imca-int.com

ANTI-PIRACY DVD

IMCA SEL 028 – *Anti-piracy and hostage situation awareness* – a DVD for personnel working onboard vessels operating in high risk areas is

now available in five languages, highlighting steps to be taken if the vessel is boarded and the crew taken hostage. PB



COMPETENCE WORKSHOPS

Competence continues to increase in profile with the success of the Aberdeen, UK workshop on 15 February 2012 where the focus was on improving schemes, strengthening assessment and verification processes, and the ability to transfer of schemes from one company to another. Further workshops have been planned – the next is in Houston, USA on 14 June 2012, where the emphasis will be on the US government's Safety Environmental Management System (SEMS) requirements, which could be passed from operators onto contractors. SEMS requires companies to show how personnel competence is measured, assessed and documented and there will be presentations on this, the delivery of staff orientation, and how the IMCA competence and assurance frameworks measure up as a basis for demonstrating competence.

A third workshop is due to take place in Dubai, UAE on 18 September 2012. NE

SHIPYARD SAFETY

The SEL Core Committee is preparing guidance on safety in shipyards. This document is intended for use by vessel operators looking at dry docking or extended maintenance periods in a ship repair facility. The document will have a project-based approach to shipyard safety, moving from pre-qualification through project implementation to vessel handover and close-out. NH

SAFETY STATISTICS

Information note IMCA SEL 04/12 is a brief summary of the 2011 safety statistics for contractor members, with the more detailed version to follow. IMCA received data from 195 contractor members – around 60% of the contractor membership at the start of 2012. This year we have also collected information on high potential near misses, incidents that in other circumstances might have resulted in fatalities. NH

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SPS CODE

IMO has adopted unified interpretations of the 2008 Special Purpose Ships (SPS) Code. The interpretations should help clarify some of the provisions, including that the safe return to port requirements for passenger ships should only apply to special purpose ships carrying more than 240 people.

WINDFARM VESSEL STANDARDS

IMO has decided against developing a separate code for windfarm vessels, but will look into guidance on how existing IMO vessel standards could apply to them, and to clarify the requirements for the transportation of industrial personnel. In May 2012, IMCA

members participated in a workshop on windfarm vessels organised by the German government. Philip Woodcock of Workshops Contractors BV gave a presentation on behalf of IMCA (pictured below), highlighting common marine construction standards that were transferable from offshore oil and gas to the renewable energy sector.



POSSIBLE IMPACT ON WELL STIMULATION VESSELS

As a result of lobbying efforts by IMCA and others, IMO has agreed that the new regulations prohibiting cargo blending and production processing during a sea voyage should incorporate a clear exemption for offshore service activities. This clarifies that the new ban should not lead

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to any restrictions on existing, accepted offshore practices, such as the mixing of well intervention fluids.

OSV DAMAGE STABILITY

IMO has agreed to amend the OSV guidelines to upgrade the damage stability requirements for offshore supply vessels over 100 metres in length, to reflect the latest cargo ship requirements. The changes will apply to vessels constructed on or after November 2012.

CARRIAGE OF ARMED GUARDS ON VESSELS

In May 2012, IMO held a high level debate on policy matters relating to the carriage of privately contracted armed security personnel (PCASP) onboard ships. IMO agreed that the use of private maritime security companies was a measure to be used only in exceptional circumstances in the high risk area off the coast of Somalia and should not become institutionalised, and that guidance was needed to encourage a more harmonised approach amongst governments. IMO has developed interim

guidance for private maritime security companies.

REVIEW OF DP VESSEL GUIDELINES

IMO has also agreed to a review of MSC/Circ.645 – *Guidelines for vessels with DP systems* and IMO A.891 – *Recommendations for training of personnel on mobile offshore units*, which complement the STCW requirements for seafarers. Work is expected to start in 2013.

IMCA is also participating in correspondence groups on the following issues:

- ◆ Mandatory Polar Code;
- ◆ New OSV Chemical Code (see IMCA SEL 02/12 / M 08/12);
- ◆ New stability criteria for vessels engaged in anchor handling, towing and lifting operations (see IMCA M 09/12).

For further details, please contact Emily.Comyn@imca-int.com

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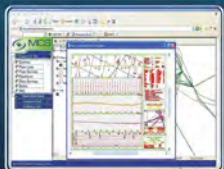
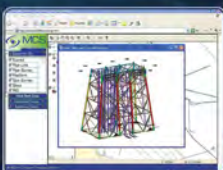
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MIDDLE EAST & INDIA

The most recent meeting was in Mumbai, India – a first for IMCA and the section. Around 40 delegates gathered for the usual updates and a presentation on working in India, followed by a workshop on the ILO Maritime Labour Convention (MLC, 2006) and its implications for contractors.

The next meeting is planned for 18 September 2012 in Dubai, UAE and will include a short workshop on competence. IMCA will hold a one-day briefing for existing and prospective members the following day in Doha, Qatar.

EUROPE & AFRICA

The latest meeting took place alongside Oceanology International in London, UK on 14 March 2012. European members are encouraged to attend these meetings where possible, and we appreciate feedback on issues that would be of interest at future meetings.

IMCA had a stand at Oceanology International and a number of secretariat staff took the opportunity to visit the show, meet friends of IMCA, and see equipment on display. IMCA also assisted with the careers day on the last day of the show.

IMCA works alongside the Marine Safety Forum (MSF) to actively promote good practice and safety initiatives in the marine sector of the North European oil and gas industry. Nicholas Hough presented the IMCA safety statistics at the most recent all members meeting in Aberdeen on Thursday 24 May.

The UK HSE is consulting on proposals to replace the existing Application Outside Great Britain Order, which extends the Health & Safety at Work etc Act to specific activities on the UK Continental Shelf. The proposed order will cover offshore installations, pipeline activities, diving projects and the regulation of energy structures, but will also include emerging energy technologies such as carbon dioxide storage. The consultation has also identified clarification to some definitions – to clearly bring anchor handling activities into its scope, for example. For more details please contact jane.bugler@imca-int.com

The UK government is to include vessel personnel 'ordinarily working in the UK' in the automatic enrolment scheme for company pensions. This applies irrespective of the employees' nationality, where the employing company is based or the ship registered. However, in response to concerns raised by IMCA and others, the UK government has produced additional guidance to try and ensure that only those with a proper link to the UK are included.

CENTRAL & NORTH AMERICA

IMCA was a supporting organisation for the Offshore Technology Conference in Houston, USA, where both existing and prospective members came to visit our stand to benefit from the variety of available documents.

Jerry Grishaber is the new section Chairman, and he will be steering the section meeting and competence workshop on 14 June 2012 in Houston, USA, where delegates will discuss SEMS requirements and competence issues. Our thanks go to Alan Allred for his years as Chairman, during which he hosted both the safety and annual seminars.

IMCA has been following discussions on US Coast Guard (USCG) plans to develop new requirements for DP systems, and has been participating in the US National Offshore Safety Advisory Committee (NOSAC) taskforce developing proposals for DP personnel. A formal rulemaking on DP systems aboard MODUs is due shortly, but in the meantime MODU operators are being encouraged to follow the Marine Technology Society DP guidelines and to participate in DP incident reporting as part of a voluntary compliance programme.

SOUTH AMERICA

Francesco Santoro and Roberto Mendes are the new Chairman and Vice-Chairman, with significant momentum from the Rio-based safety seminar to build on. We thank their predecessors Giorgio Martelli and Gilles Lafaye for their help in creating the section.

The most recent meeting was held in Rio de Janeiro, Brazil on 20 March 2012. Present were a number of members of IMCA's SEL Core Committee there for the IMCA safety seminar, starting on the following day. The meeting included an interesting presentation on marine training by Captain Bezerra of the Brazilian Navy.



ASIA-PACIFIC

The 26 April 2012 meeting was held during Seatrade Offshore Marine Asia in Singapore, where IMCA had a stand. Over 90 people saw presentations on DP annual trials, DPO training, competence assessment and maritime security, and took part in workshops on lifeboat requirements for vessels operating in Australia and surface standby diving capability when saturation diving. The next meeting will be in Australia in early September 2012.



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DIVING EQUIPMENT SYSTEMS INSPECTION GUIDANCE NOTES (DESIGN)

The IMCA DESIGN workgroup is updating the requirements contained in the DESIGN CD – covering air, saturation, surface supplied mixed gas diving and mobile/portable surface diving systems. As the work has progressed the magnitude of the task has become clearer, old chestnuts debated, and clarification on a number of issues reached. The revision may also give rise to some new IMCA 'spin-off' guidance.

The workgroup has concentrated its efforts on updating IMCA D 024 – *DESIGN for saturation diving (bell) systems* – thinking that updating the most complex document first would 'break the back' of the whole review, and split into sub-groups to concentrate on updating specific sections. IMCA anticipates that a draft will be ready for review soon.

The DESIGN workgroup has also been monitoring the progress made by another workgroup developing guidance on hyperbaric evacuation systems. As a result, Section 15 is likely to be removed from IMCA D 024 and a separate dive system assurance document produced, dealing with all the hardware elements found in hyperbaric evacuation systems. *BM*

MINIMUM GAS REQUIREMENTS

IMCA D 050 – *Minimum quantities of gas required offshore* – has been published, addressing the minimum amount of emergency breathing medium (air or mixed gas) required at an offshore dive site both before and during the dive. This guidance does not replace the diving contractor's project plan – designed for each operation and based on a risk assessment of the conditions and work scope at the site – but has an increased emphasis on risk management systems and an expansion to the gas calculations appendix, including additional information on work and emergency breathing rates, BIBS gas consumption, and the maintenance of oxygen partial pressure in a system during decompression. *BM*

ADAS SIMULATOR

The Australian Diver Accreditation Scheme has developed a dive panel simulator, which was available for a week at Subsea 7 in Stavanger, Norway and Technip in Aberdeen, UK. Nearly 100 visitors saw or took part in the demonstrations and the feedback was positive, showing how useful it is for training and competence assessment. Our thanks go to ADAS for running the sessions and to Technip and Subsea 7 for hosting them. A DVD demonstrating the system is being produced. For further information contact Peter.Sieniewicz@imca-int.com

NITROX

IMCA has published IMCA D 048 – *Surface supplied diving operations using nitrox* – identifying good practice for safe working during surface supplied diving operations using nitrox. Nitrox reduces decompression time in comparison with natural compressed air, but with an increased chance of oxygen toxicity problems – particularly while the diver is still under water. This guidance states that any gas mix containing more than 25% oxygen should be handled as if pure oxygen, requiring the use of oxygen compatible greases and equipment components throughout the system, special cleaning procedures, etc. *JB*

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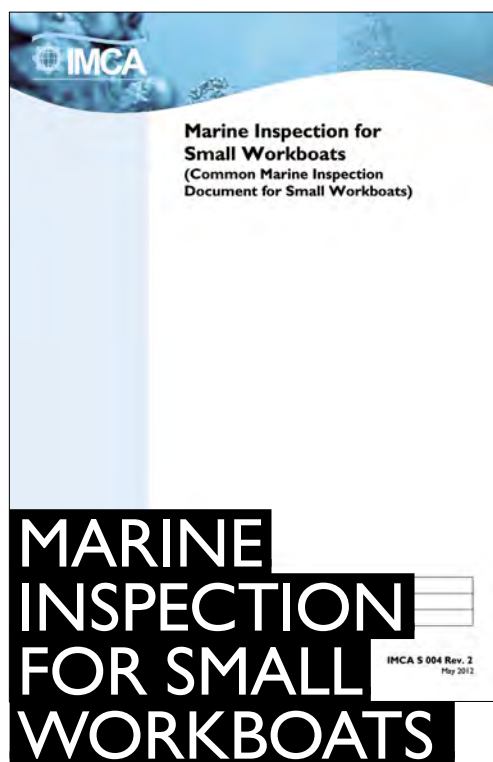
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IMCA M 189 – *Marine inspection checklist for small workboats* – has been revised. The questions have not changed significantly, but are now objective (as in the CMID) and answered yes, no, not applicable or not seen, with an additional question on security and a section for comments from the Master of the vessel or their representative. An electronic version will be created by the developers responsible for the eCMID for download, completion and subsequent storage of reports on the CMID database. Further guidance will be developed for those using this version. IG

DP INCIDENTS

The recent Macondo, Bourbon Dolphin and Mumbai High incidents received significant press coverage, were subject to formal inquiries and resulted in further regulation. Inquiries allow the sharing of information and lessons learnt – preventing recurrence – and the same benefits are delivered by the IMCA station keeping dynamic positioning scheme. Any information received is analysed and incident trees, together with causes and comments, are produced in an annual report.

The IMCA DP scheme is voluntary and depends on vessel owners and operators submitting incidents. Changes have been made over the years, including increasing confidentiality by bringing analysis in-house and the acceptance of reports on vessel owners' forms, but DP incidents are still under-reported and a workgroup is being set up to improve the system. Some suggestions received are the inclusion of lessons learnt from the incident, actions taken to recover the situation and the regular publication of significant DP incidents. Further input from members is welcomed. Please contact Ian.Giddings@imca-int.com

MOORING PRACTICE SAFETY

The mooring and unmooring of vessels is a potentially hazardous operation, demanding high levels of teamwork. To be both safe and efficient everyone involved should be properly trained and equipped, with a clear understanding of both their own and everyone else's role and responsibilities. Many serious accidents resulting in injury and death have occurred during mooring operations, sometimes when lines have parted, jumped or slipped off drum ends or bitts. Parted mooring lines normally occur during mooring, tug and ship-to-ship operations – where equipment failure, misuse, wash damage and weather also play a significant role. Winch failure is less frequent, but does occur and cause accidents. Injuries from non-parted mooring lines normally occur due to crew becoming caught up in lines, lines slipping off drum ends or bollards, lines becoming jammed on drum ends or standing in bights. IMCA is preparing guidance for members on mooring practice safety. MF



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BRIDGE TEAM MANAGEMENT

Incidents reported to IMCA highlight bridge organisation and management failures as root causes. Effective bridge team management is designed to reduce the risk of marine casualties by helping a bridge crew anticipate and respond correctly to their vessel's changing situation.

Trading ships are exposed to higher risks in pilotage areas because of the smaller margins of safety – proximity to land, reduced depths and width of fairways, increased traffic, tides and currents – but a pilot's local knowledge should reduce the risks to an acceptable level. Offshore vessels often perform a whole manner of tasks such as supply or anchor handling work near a platform, towing operations, well stimulation, ROV work, or coming alongside a wind farm installation, without a pilot and often in hostile sea conditions and proximity to other vessels.

IMCA will soon be publishing an information note on bridge team management to assist members. MF

CMID UPDATE

IMCA is reviewing the CMID issue 8 with the aim of releasing issue 9 in the third quarter of 2012. If you have any input that you would like to be considered, please contact the CMID database administrator Gordon Kelly. It is anticipated that an electronic version of IMCA M189 – *Marine inspection checklist for small workboats* – will be made available at the same time, and IMCA will inform members accordingly.

WORKSHOPS

In early April 2012, two CMID Database Familiarisation workshops were held in Aberdeen, UK – one for vessel inspectors and one for vessel operators. These were followed by two well attended workshops in Singapore on 24 and 25 April 2012.

Further workshops are planned in the last week of June 2012 in Perth, Australia, with more held throughout the year at various locations, as demand requires. Contact Gordon Kelly if you have any workshop queries.

A lot of feedback on the CMID and eCMID database has been received from the workshops, and IMCA hopes to implement some of these changes with the release of issue 9.

NEWSLETTER

The quarterly electronic newsletter relating to the CMID and eCMID database is distributed to all eCMID database users and IMCA marine division contacts. The next issue will be sent out in July and if you would like to receive a copy please contact Gordon Kelly.

Gordon.Kelly@imca-int.com



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SAFE MANAGEMENT OF SURVEY AND INSPECTION DATA

IMCA has published IMCA S 020 – *Guidelines on the safe management of survey and inspection data* – about the safe handling of large volumes of valuable or significant survey and inspection data in the offshore industry. It is a high level document for anyone involved in handling large volumes of data, aimed at minimising unnecessary data corruption or loss, and providing consideration on how to mitigate the risks involved. NH

PERIPHERAL SURVEY SENSORS

The Offshore Survey Committee has a workgroup developing guidance on the management of survey sensors, with an early draft currently under review. The purpose of the document is to describe some of the requirements for periodical calibration and verification of the main survey and navigation related subsea sensors. NH

INERTIAL NAVIGATION

Inertial navigation system (INS) technology is increasingly being used in surface and subsurface positioning solutions. The Offshore Survey Committee is preparing a document that will provide an overview of the technologies currently available and illustrate how they are being used. It is anticipated that it will be ready towards the end of 2012. NH

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ROV STATISTICS

All ROV statistics have been collected and the information processed. The data will be distributed soon in an information note. The ROV Committee would like to thank all members who sent in statistics and look forward to receiving your stats for 2012. PB



ROV SIMULATOR WORKSHOP

IMCA held a half-day workshop on Wednesday 14 March 2012 during Oceanology International at ExCeL, London, UK on *The diverse role of the ROV simulator*. Chaired by Jim Mann, Chairman of the ROV Management Committee, the event was attended by over 50 delegates from various companies and organisations and included four presentations and an open forum workshop. A number of topics for the committee were raised, including an action to produce more detailed guidance on the operational use of ROV simulators. The modern ROV simulator is a sophisticated piece of equipment used for training personnel, but it is increasingly being applied in other areas such as project modelling, tooling interfacing and accident investigation. PB



Offshore diving operations management and training

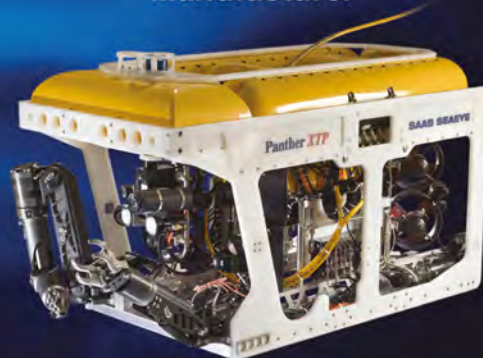
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- IMCA Diver Assessment
- IMCA ALST
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- Risk Assessments
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SAAB



SPOTLIGHT ON DAVE FORSYTH

Dave Forsyth is Director for Risk and Business Continuity at Bibby Offshore and serves as Chairman of IMCA's Safety, Environment & Legislation Core Management Committee. In this article he discusses his 'day job' and provides a personal insight into the work his committee is currently undertaking on behalf of members in his division.

Please tell us about your company and what it does

Ever since the original company was established by John Bibby in 1807 the success of the Bibby Line Group has been built on their family values. In the marine environment the name is synonymous with the finest traditions of ship ownership and Bibby Line has delivered core services to the offshore oil and gas industry since the 1980s. Bibby Offshore Ltd was founded on this heritage, opening its offices in Aberdeen, UK in 2003. Established as a separate division in 2007 it provides fully integrated subsea construction and inspection, repair and maintenance services to the oil and gas industry world-wide.

“ I see a positive future for the industry ”

What is your current job?

I am Director for Risk and Business Continuity and have been for four years. My responsibilities include HR, HSEQ, facilities and IT management, but my main focus is implementing and maintaining a robust risk management system that ensures Bibby Offshore Holdings and its subsidiary companies identify, understand and mitigate risk.

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How did you get to where you are in your career today?

Through varied and diverse experience! I started out in 1981 as an NDT Technician with OIS, before leaving to join the Aberdeen Fire Service in the late 80s. Here I gained professional health and safety qualifications that enabled me to rejoin the oil and gas industry in the late 90s as Project HSE Adviser with diving company DSND. I joined Bibby Offshore as HSEQ Manager in 2004, which then led to my current role.

What do you see as the key areas affecting the industry at the moment?

There are the obvious issues facing the industry – from international political hotspots and the uncertainty of global economic stability – but, in the wake of the Macondo and Montara incidents, there are questions being asked about safety and environmental matters. Offshore regulators and industry players in safety, environmental and political workstreams have come together to discuss the future roles of governments

and their offshore regulators, operating companies and industry bodies in key areas including safety culture and leadership, performance indicators and developing globally accepted standards. There will be change but it is important that it benefits the safety of the workforce and the environment.

“ As IMCA members we all have roles to play in the changes taking place ”

How can these issues be taken forward?

As IMCA members we all have roles to play in the changes taking place. We need to work together – through the voice of IMCA – with governmental regulators, operators and other industry bodies to find the best solutions to offshore safety and environmental impact. Our efforts should not be focused just on occupational health and safety but also on the prevention of major incidents.

How do you think IMCA makes a difference?

Having been closely involved with IMCA, particularly the SEL Committee, for ten years I have seen how it definitely makes a difference. The documentation developed through the committees has influenced safety policies and standards, and is considered to be the framework for industry best practice. The annual and safety seminars provide a great opportunity to share improvement opportunities and encourage feedback from member companies that can be taken forward into the work programmes of the committees. Collectively we can make a difference.

How do you see the future?

I see a positive future for the industry. There will be the inevitable changes in regulatory regimes that have the potential to frustrate progress and development, but this can also encourage investment in technological safety and environmental solutions. Development in existing subsea and marine technology – and future energy source solutions – has the potential to benefit member companies. IMCA membership continues to grow and, through participation in the IMCA committees and workgroups, the voices of individual companies can be heard and influence change for the better.



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Welcome to the IMCA Directory

The following pages contain details of IMCA's recent publications, safety flashes and information notes, as well as the members of IMCA's various management committees and a list of current members.

More details and links to the websites of some of our members can be found at www.imca-int.com/members

The directory is compiled in advance of *Making Waves* going to print and is correct as at the date stated.

NEW PUBLICATIONS

- ◆ **Anti-piracy and hostage situation awareness DVD** (IMCA SEL 028)
- ◆ **Surface supplied diving operations using nitrox** (IMCA D 048)
- ◆ **Minimum quantities of gas required offshore** (IMCA D 050)
- ◆ **Considerations about the use of hold-back vessels during DP diving operations** (IMCA M 185 Rev. 1)
- ◆ **Marine inspection for small workboats (CMID for small workboats)** (IMCA M 189 Rev. 2, IMCA S 004 Rev. 2)
- ◆ **Guidelines on the safe management of survey and inspection data** (IMCA S 020)

SAFETY FLASHES

- ◆ **Safety flash 02/12** – covering five incidents: Equipment at height not properly secured; Near miss: Serious subsea burning incident; Major injury suffered in confined space incident; Man drowned after falling into dock when disembarking through pilot-gate; Snagged cargo carrying unit during offshore discharge
- ◆ **Safety flash 03/12** – covering five incidents: Near miss: 220v cable not isolated during work; Lifting post failure on survey equipment; Near miss: supply vessel pulls platform crane overboard; Bypassing of storage tanks safety feature: Watertight doors and hatches routinely left open at sea
- ◆ **Safety flash 04/12** – covering five incidents: Lacerated finger during rigging operations; Near miss during subsea cutting operation; Cargo hose incidents; Crane and supply boat lifting incident; Near miss: cargo carrying unit (CCU) flipped over during lifting operations

INFORMATION NOTES

COMPETENCE & TRAINING

- IMCA C 04/12 The Nautical Institute Dynamic Positioning Operator's Certificate
- 05/12 Competence assurance and assessment for freelance personnel
- 06/12 ILO Maritime Labour Convention (MLC), 2006: Further guidance for members

SAFETY, ENVIRONMENT & LEGISLATION

- IMCA SEL 02/12 Development of IMO OSV Chemical Code: Feedback Required
- 03/12 ILO Maritime Labour Convention (MLC), 2006: Further guidance for members
- 04/12 Summary of 2011 safety statistics for IMCA members

MARINE DIVISION

- IMCA M 06/12 USCG reporting requirements - failure of critical systems
- 07/12 DNV JIP – recommended practice for cranes and lifting appliances intended for subsea lifting operations
- 08/12 Development of IMO OSV Chemical Code: Feedback Required
- 09/12 Update on IMO stability criteria discussions: revised proposals and expansion to cover other lifting operations
- 10/12 ILO Maritime Labour Convention (MLC), 2006: Further guidance for members
- 11/12 New Marine Safety Forum Guidelines

OFFSHORE SURVEY DIVISION

- IMCA S 02/12 Major new addition to the EPSG Geodetic Parameter Dataset
- 03/12 Offshore Survey personnel: Statistics for 2010
- 04/12 Competence assurance and assessment for freelance personnel

REMOTE SYSTEMS & ROV DIVISION

- 04/12 Competence assurance and assessment for freelance personnel

COMMITTEE MEMBERS

To achieve its objectives and deliver its work programme, IMCA relies on elected member representatives who serve on the committees listed below as well as various individuals active on workgroups around the world.

OVERALL MANAGEMENT COMMITTEE

IMCA President and OMC Chairman:	Andy Woolgar, Subsea 7	IMCA Chief Executive:	Hugh Williams
IMCA Vice-President:	Massimo Fontolan, Saipem	IMCA Technical Director:	Jane Bugler
<i>Committee Chairmen and Vice-Chairmen</i>			
C&T:	Steve Sheppard, Helix ESG Roy Hay, Technip	<i>Regional Section Chairmen and Vice-Chairmen</i>	
SEL:	Dave Forsyth, Bibby Offshore	Asia-Pacific:	Steve MacMillan, McDermott International Inc. Bill MacDonald, Mermaid Offshore Services
Diving:	Jim Knight, Heerema Marine Contractors	Central & North America:	Jerry Grishaber, Helix ESG Alan Marriott, Technip USA
Marine:	Joar Gangenes, Subsea 7 Ian Mitchell, Technip	Europe & Africa:	Pascal Grosjean, Technip Jim Sommerville, Fugro
Survey:	Pete Somner, Technip Pete Fougere, Transocean	Middle East & India:	Christopher Rodricks, SEAMEC Guy Odell, Fugro Survey
ROV:	Will Primavesi, Specialist Subsea Services Walter Steedman, Veripos	South America:	Francesco Santoro, Technip Roberto Mendes, Saipem
	Jim Mann, Fugro Subsea Services Richard Benzie, Subsea 7		

CORE ACTIVITIES

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Chairman:	Steve Sheppard, Helix ESG
Vice-Chairman:	Roy Hay, Technip
	Claire Duncan, Bibby Offshore Stewart Hannay, Subsea 7 Gary McKenzie, DOF UK Ltd David Moxey, Northern Marine Management Vince McCarthy/John Cowell, Saipem Lynn Elder, Subsea 7 Hilary Cliffe/Julian Nelson, Fugro Survey George Robertson, Fugro
Asia-Pacific:	Mike Robinson, McDermott International
Central & North America:	Tony Greenwood, Cal Dive International
Middle East & India:	Mohamed Omar, INW
South America:	Priscila Santos, DOF Subsea Brasil

SAFETY, ENVIRONMENT & LEGISLATION

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	Johan Vermeer, Allseas Wallace Robertson, Helix ESG Sal Ruffino, Saipem Alan Forsyth, Subsea 7 Andrew Culwell, Subsea 7 John Greensmyth, Technip
Asia-Pacific:	Joe McWilliam, Hallin Marine
Central & North America:	Phil Miller, Subsea 7
Middle East & India:	Darren Male, Fugro Survey
South America:	Rosalie Medeiros, Saipem

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DIVING

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Central & North America:	Allan Palmer, Cal Dive International
Middle East & India:	Sean Brunton, McDermott International Inc.
South America:	José Figueiredo, Fugro Brasil
SMTT Chairman:	Dave Munro, Subsea 7

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Vice-Chairman:	Pete Fougere, Transocean
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Central & North America:	Jeff Stephens, EMAS-AMC
Middle East & India:	Ian Bacon, GL Noble Denton
South America:	Daniel Marins, Subsea 7

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Vice-Chairman:	Walter Steedman, Veripos
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Central & North America:	Iain Miller, Technip
Middle East & India:	Milind Abhyankar, McDermott International Inc.
South America:	Andy Seymour, Fugro Brasil

REMOTE SYSTEMS & ROV

Chairman:	Jim Mann, Fugro Subsea Services
Vice-Chairman:	Richard Benzie, Subsea 7
	Piero Bruti Liberati, Bourbon Ollie Foster, Global Marine Systems Chris Gardner, Hallin Marine David Rhodes, Integrated Subsea Services Steven Cowie, Oceaneering International Ewan Emslie, Saipem John Pirie, Technip
Asia-Pacific:	Mahesh Govindan, IKM Subsea
Central & North America:	Jeremiah Hebert, Helix ESG
Middle East & India:	Brian Stewart, Fugro Survey
South America:	Wayne Betts, Oceaneering International

IMCA MEMBERS LIST

as at 24 May 2012

IMCA WELCOMES THE FOLLOWING NEW MEMBERS

- ◆ **AALEA Srl**
- ◆ **Apache North Sea Limited**
- ◆ **Aqua-Air Industries Inc**
- ◆ **Assodivers Ltd**
- ◆ **Bibby Offshore Singapore Pte Ltd**
- ◆ **C-Innovation LLC**
- ◆ **Formshore Group**
- ◆ **GeoSea NV (Member of the DEME Group)**
- ◆ **GoAGT Ltd**
- ◆ **GOSS Consultants Ltd**
- ◆ **GW Marine Consultants Pty Ltd**
- ◆ **HATLAPA Marine Equipment**
- ◆ **Horizon**

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- ◆ **Hyperbaric Training Associates**
- ◆ **Inseacon Services**

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- ◆ **S&O Ship Management Ltd**
- ◆ **Santos Ltd**
- ◆ **Schilling Robotics (FMC CBV Subsea)**
- ◆ **Searie Sdn Bhd**
- ◆ **Seatechs Limited**
- ◆ **Stadt Sjøtransport AS**
- ◆ **Supply Service**
- ◆ **Trigstation Sdn Bhd**

INTERNATIONAL CONTRACTORS

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Heerema Marine Contractors
Helix Energy Solutions Group, Inc.
McDermott International Inc.
Saipem
Subsea 7
Technip

CONTRACTORS

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ACSM
Adams Offshore WLL
Adsun Offshore Diving Contractors Pvt Ltd
Advanced Energy Systems (ADES)
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Ajang Shipping Sdn Bhd
Aker Marine Contractors AS
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Alam Subsea Pte Ltd
All-Sea Deepwater Solutions Limited
Alliance Seaworks Sdn Bhd
Allied Marine & Equipment Sdn Bhd
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Andrews Survey
Aqua Diving Services
Arab Tanker Services
Archirodon Construction (Overseas) Co SA
Arctia Shipping Ltd
Arena Sub srl
Argus Remote Systems AS

Asian Geos Sdn Bhd
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ATCO Ports Management & Marine Services
Atlantic Towing Ltd
Atwood Oceanics Pacific Ltd
Awaritise Nigeria Ltd
BEKK Solutions Ltd
BGP
Bibby Offshore
Bibby Offshore Singapore Pte Ltd
BIDCO Ltd
BJ Services Co Middle East Ltd
Bluestream Offshore BV
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Boskalis Offshore
Bourbon
Britoil Offshore Services Pte Ltd
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C&C Technologies Inc.
C&I Leasing plc
C-Innovation LLC
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Cal Dive International Pte Ltd
Cal Dive International Pte Ltd – Middle East
Canship Uglund Ltd
Cape Diving
Caspian Sea Oil Fleet (CSOF)
CCCC International Shipping Corp
CDS Subsea Pte Ltd

Celtic Africa Ltd
CH Offshore Ltd
Clough Oil & Gas
CNS International srl
Companhia Brasileira de Offshore - CBO
CCC (Underwater Engineering) SAL
Copetech-SM
Coral Alliance Sdn Bhd
Core-IRM Pte Ltd
COSL Drilling Europe AS
CS Offshore DMCCO
CUEL Ltd
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Damas Oil & Marine Services Ltd
DCN Diving BV
DCN Global LLC
Deep Sea Supply M'ment (Singapore) Pte Ltd
DeepOcean Group (Asia-Pacific)
DeepOcean Group (DeepOcean/CTC Marine/Trico Supply)

Diamond Offshore Drilling Inc
Disa International Holding BVBA
Dockwise
DOF Management AS
DOF Subsea (Australia & Asia Pacific)
DOF Subsea Brasil Servicos Ltda
DOF Subsea Norway AS
DOF Subsea UK Ltd
DOF Subsea USA Inc
DOF UK Ltd
Dolphin Drilling Ltd
Dolphin Offshore Enterprises (India) Ltd
Drexel Oilfield Equipment
Dulam International Ltd
Dunnimaa Engineers & Divers Ent Pvt Ltd
EDT Marine Construction Ltd
EDT Shipmanagement Ltd
EGS (Asia) Ltd
Eidesvik AS
EMAS Offshore Pte Ltd
EMAS-AMC Inc
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Far Eastern Shipping Company
Farstad Shipping ASA
Fendercare Marine and Diving Services
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Golden Energy Offshore Management AS
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Gulf Dredging & GenContracting Co (SAK)
Gulf Marine Services
Gulf Offshore (North Sea) Ltd
Gulf Offshore Logistics LLC
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Jeruzeth International Engineering Co Ltd
Jifmar Offshore Services
Jumbo Offshore VoF
KD Marine Ltd
Khalifa A Algoasibi Diving & Marine Services
Knutsen OAS Shipping AS
Kreuz Subsea Marine Pte Ltd
Kreuz Subsea Pte Ltd
L&T Sapura Shipping Pvt Ltd
Lamnalco Group
Lamnalco West Africa
Lauritzen Offshore Services AS
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Maersk Supply Service
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Maridive Offshore Projects
Marine Consulting
Marine Engineering Diving Services
Marine Platforms Ltd
Maritime & Underwater Security Consultants
Maritime Asset Security and Training Ltd
Master Tech Diving Services
MENAS - Middle East Navigation Aids Service
Meriaura Ltd
Mermaid Marine Australia Ltd
Mermaid Offshore Services Ltd
Miclyn Express Offshore Pte Ltd
Mohn Drilling AS
Mutawa Marine Works LLC
N-Sea
Namibia Subtech Diving and Marine (Pty) Ltd
National Marine Dredging Co
National Petroleum Construction Co Survey
Navtec Marine Services SA
NDE – Nordic Dive Enterprise
Neptune
Neptune Survey Expedition ehf
Newcruz Offshore Marine Pte Ltd
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Nippon Steel Engineering Co Ltd
NIWA Vessel Management Ltd
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 Offshore Marine Management Ltd
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 Offshore Oil Engineering Co Ltd (COOEC)
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 Pelican Offshore Services Pte Ltd
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 Phoenix International
 PRONAV Ship M'ment GmbH & Co KG
 Prosafe Offshore Ltd
 PT Advanced Offshore Services
 PT Bahtera Niaga Internasional
 PT Ekanuri Indra Pratama
 PT Jaya Salvage Indonesia
 PT Lancar Rejeki Berkas Jaya
 PT Patra Dinamika
 PT Prima Mitranata
 PT Samudera Biru Nusantara
 PT Wintermar
 PTSC Geos & Subsea Services Co Ltd
 Queiroz Galvão Óleo e Gás
 Rana Diving spa
 RED7MARINE Ltd
 Reef Subsea
 Reef Subsea Power & Umbilical
 REM Offshore ASA
 Rolv Berg Drive AS
 Romona Inc
 ROV Resources (M) Sdn Bhd
 RRC Robótica Submarina SA
 RWEE OLC GmbH
 S&O Ship Management Ltd
 Sahara Petroleum Company
 SAL Shipping
 Sapura Diving Services Sdn Bhd
 SapuraAcergy Sdn Bhd
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 Seaways International LLC
 Seaworks Ltd
 Sevan Drilling ASA
 Shanye Marine Services Co Ltd
 Siem Offshore AS
 Siem Offshore Contractors GmbH
 Simon Møkster Shipping AS
 SMIT
 SMIT Subsea Africa
 SMIT Subsea Asia-Pacific
 SMIT Subsea Australia Pty Ltd
 SMIT Subsea Europe
 SMIT Subsea Middle East LLC
 SOLL-R
 Solstad Shipping AS
 Songa Offshore SE
 Specialist Subsea Services Ltd
 Stadt Sjøtransport AS
 Stanford Marine
 Stapem Offshore SA
 Stena Drilling Ltd
 Stork Technical Services (RBG) Limited
 Strukton Afzinktechnieken BV

Subsea 7 Singapore Contracting Pte. Ltd
 Subsea Explore Services (M) Sdn Bhd
 Subsea Petroleum Services
 Subsea Robotics Services Pte Ltd
 Subtech (Pty) Ltd
 Subtech Qatar Diving and Marine Svcs LLC
 Supply Service
 Supreme Hydro Engineering Pvt Ltd
 SURF Subsea Inc
 Svitzer
 Swiber Offshore Construction Pte Ltd
 Swire Pacific Offshore Operations Pte Ltd
 Target Engineering Construction Co
 Technip Oceania Pty Ltd
 Technip USA, Inc.
 Technocean AS
 Tecnosub
 Teekay Norway AS
 Tidewater Inc.
 Tidewater Marine North Sea Ltd
 Tideway Offshore Cont (Mem of the DEME Gp)
 Timsah Shipbuilding Company
 TL Geohydrographics Sdn Bhd
 Topaz Marine
 Topaz Marine – Azerbaijan
 Topaz Marine – Kazakhstan
 Topaz Marine MENA
 Total Marine Technology Pty Ltd
 TPSMI Group Ltd
 Transocean
 Transoceanic Cable Ship Company Inc.
 Trigstation Sdn Bhd
 Troms Offshore AS
 UMC International plc
 Underwater Services Company Ltd
 Unicom Management Services (Cyprus) Ltd
 Unidive Offshore Pte Ltd
 Unimar Ltd
 URS nv
 UTEC Survey Asia Pte Ltd
 UTEC Survey Construction Services Ltd
 UTEC Survey, Inc.
 V.Ships Ltd
 Van Oord Offshore BV
 Vantage Deepwater Drilling Inc
 Varun Shipping Company Ltd
 Vector Offshore Ltd
 Veolia Environmental Svcs Special Svcs
 Visser & Smit Marine Contracting bv
 Vroon Offshore Services BV
 VTT Maritime
 Wagenborg Offshore BV
 Waha Maritime
 Wilhelmsen Ship Management (Norway) AS
 Workfox BV
 Workshops Contractors BV
 Zakher Marine International
 Zamil Offshore Services Company

SUPPLIERS
Suppliers of equipment
 ABB AS, Marine Division
 ABB Ltd
 AC Plus Marine Inc.
 ACE Winches
 Advanced Marine Pte Ltd
 Air Liquide America Specialty Gases LLC
 Air Liquide UK Ltd
 Air Products Middle East FZE
 Air Products plc
 Air Products Singapore Pte Ltd
 Amron International Diving Supply Inc
 Analox Sensor Technology Ltd
 Aqua-Air Industries Inc
 Arab Tanker Services
 Arabian Industrial Gases Company
 Ashtead Technology (SEA) Pte Ltd
 Balmoral Offshore Engineering
 Bridon
 Brunvoll AS
 CAPE Group Pte Ltd
 Cargotec Norway AS (Offshore)
 Chambers Oceanics Ltd
 Chesterfield Special Cylinders Ltd
 Clough Oil & Gas
 CMC Industries
 Comanex SAS
 Convertteam UK Ltd
 CUEL Ltd
 Cygnus Instruments Ltd
 Deep Down Inc.
 DeepOcean Group (DeepOcean/CTC Marine/Trico Supply)
 Divetechnoservice Ltd
 Divex Asia Pacific
 Divex FZE
 Divex Ltd
 Dominion Gas
 Dominion Gas Asia Pacific Pte Ltd

Drass Energy
 Eastar Offshore Pte Ltd
 Emphor FZCO
 Formshore Group
 Franklin Offshore International Pte Ltd
 Fugro GRL
 Fugro-TSM Pty Ltd
 Global Gases Australia Pty Ltd
 Global Gases Group FZCO
 Global Gases Group Singapore Pte Ltd
 Global Gases Malaysia Sdn Bhd
 Global Gases South Africa (Pty) Ltd
 GMC Ltd
 Great Offshore Ltd
 Greatship Subsea Solutions (Australia & AP)
 Guidance Navigation Ltd
 HATLAPA Marine Equipment
 Huse Engineering AS
 Hydrasun
 IHC Hytech BV
 Intron Plus
 IUC Group Inc
 IUC Technologies Inc
 IXSEA
 James Fisher Offshore Limited
 Jiangsu Zhongtian Technology Co Ltd (ZTT)
 Joint-Stock Company Tetis Pro
 JW Automarine
 Kenz Figuee BV
 Kirby Morgan Dive Systems
 Kongsberg Maritime AS
 Kongsberg Maritime do Brazil SA
 Kongsberg Maritime Ltd
 KTL Offshore Pte Ltd
 Kystdesign AS
 L-3 Communications
 Lexmar Engineering Pte Ltd
 Liebherr Sunderland Works Ltd
 Mako Technologies LLC
 Marine & Diving Services Ltd
 MCA Electric Co Ltd
 MCS Free Zone
 Measurement Devices Ltd
 MJR Controls Ltd
 Molecular Products Ltd
 Nautronix Ltd
 Navis Engineering OY
 NSW Technology Ltd
 OCEANOS JSC
 Oceanscan Ltd
 Oceanwide Safety at Sea BV
 Offshore Logistics (Asia Pacific) Pte Ltd
 Pacific Commercial Diving Supply Pty Ltd
 Pacific Crest Pte Ltd
 Perry Slingsby Systems Inc.
 Perry Slingsby Systems Ltd
 Pipeline & Piling Services Co Ltd
 Pommec TDE BV
 Proserv Offshore
 Redaelli Tecnica spa
 Rigmare FZC
 Rolls-Royce Marine AS
 Rolls-Royce Oy Ab
 Rolv Berg Drive AS
 Rovsco Asia Pte Ltd
 Saab Seaeeye Ltd
 Samson Rope Technologies
 SBM Offshore NV
 Schilling Robotics (FMC CBV Subsea)
 Schilling Robotics, Inc.
 Sea and Land Technologies Pte Ltd
 Sea Software Packages & Technologies Ltd
 Sea Trucks Group FZE
 Seaflex Ltd
 Sealion Shipping Ltd
 Seantetics Asia Works Pte Ltd
 Seaswift Subsea Engineering LLC
 Seatools BV
 Serimax Ltd
 Siem Offshore AS
 Singapore Oxygen Air Liquide Pte Ltd
 Skan-El AS
 Soil Machine Dynamics Singapore Pte Ltd
 Solstad Shipping AS
 Sonardyne Asia Pte Ltd
 Sonardyne International Ltd
 Sources Workshop Equipment Co (LLC)
 SS Subsea Pte Ltd
 Submarine Manufacturing & Products Ltd
 SubNet Services Ltd
 Subsea Vision Ltd
 Sundan Offshore Pvt Ltd
 Synergy Diving & Equipment Solutions FZCO
 TGH AP Pte Ltd
 The Tritanium Company bv
 Totalmat Indústria e comercio de Equipamentos Hiperbáricos Ltda
 Trelleborg Protective Products AB
 Trim Systems Pte Ltd

Ulstein Marine System (Shanghai) Co Ltd
 Underwater Technology Services (S) Pte Ltd
 Unique Hydra
 Unique System (UK) Ltd
 Unique System FZE
 United Subsea Engineering Pvt Ltd
 Vanguard Offshore Pte Ltd
 Velocius Pty Ltd
 Vroon Offshore Services Ltd

Suppliers of services
 Abermed Ltd
 Acteon Angola Limitada
 Advanced Marine Pte Ltd
 AIMS Ltd
 Air Products Singapore Pte Ltd
 Alfa Petroleum Services
 Alliance Marine Services
 Anglo-Eastern Group
 Anglo-Eastern Group (Asia-Pacific Region)
 Applied Research International Pvt. Ltd
 Auto Dynamic Positioning Services Ltd
 Babcock Int Group Marine & Tech Division
 Baker Marine Solutions
 Blade Offshore Services Ltd
 Blue Water Engineering (M) Sdn Bhd
 BOATLABS AS
 Braemar Engineering (Wavespec Limited)
 Braemar Tech Services (Offshore) Pte Ltd
 Bruce Offshore Ltd
 BSA Offshore AS
 C-MAR Group
 CAPE Group Pte Ltd
 Cescor srl
 Consortium Underwater Engineers Ltd
 Cosalt
 Deep Diving Consultancy Ltd (DDC Ltd)
 Deep Down Inc.
 Delta Marine Technologies Inc
 Derrick Services (UK) Ltd
 Derrick Services (UK) Pte Ltd
 Divetechnoservice Ltd
 Diving and Offshore Works Consultancy
 DMC Offshore UK Ltd
 DOF UK Ltd
 DRC Dive Systems
 Dynamic Surveys
 Egyptian Company for Oil Services (ECOS)
 Emirates Industrial Laboratory
 ETPM Ltd
 Explorer Marine SBoSS APs
 Fearnley Offshore Supply
 Fender & Spill Response Services
 First Marine Solutions Ltd
 Flinders EMA Pte Ltd
 Franklin Offshore Europe BV
 Franklin Offshore International Pte Ltd
 GL Noble Denton
 GL Noble Denton – Asia-Pacific
 GL Noble Denton – Central & N America
 GL Noble Denton – Middle East & India
 GL Noble Denton – South America
 Global Maritime
 Global Maritime Singapore
 GMC Ltd
 GoAGT Ltd
 GW & Associates Ltd
 GW Marine Consultants Pty Ltd
 Hill International (UK) Limited
 Horizon
 Houlder Insurance Services Ltd
 Hydrasun
 IHC Offshore & Marine BV
 Imes Ltd
 Inchcape Shipping Services
 Inchcape Shipping Services Ltd – S America
 IMEC
 Inter Mar Technology Ltd
 InterMoor Marine Services Ltd
 Interocean Marine Services Ltd
 Italian Maritime Academy Technologies
 ITIC-Insure
 JSL International (Trinidad) Ltd
 KB Associates Pte Ltd
 KDU Worldwide Technical Services (FZC)
 Kennedy Marr Ltd
 Kestrel Maritime Asia Pte Ltd
 Lexmar Engineering Pte Ltd
 LMC Aps
 London Offshore Consultants Ltd
 M3 Marine Group Pte Ltd
 Marex Marine Services Ltd
 Marine Cybernetics
 Marine Q AS
 Marine Solutions (Pty) Ltd
 Maritime Assurance & Consulting Ltd
 Maritime Management Services Inc
 MatthewsDaniel
 MCA Electric Co Ltd

MCS Free Zone
Medea srl
MJR Controls Ltd
Modus Seabed Intervention Ltd
MOS Marine Offshore Services Pte Ltd
National Hyperbaric Centre
Nautronix Ltd
Navigare International Inc.
NUI AS
ODS-Petrodata Pte Ltd
Offshore Commissioning Solutions
Offshore Technical Management Solutions Int
OK Welding Marine Ltd
Orwell Offshore Ltd
PAE Singapore Pte Ltd
PEM Offshore Ltd
Perry Slingsby Systems Ltd
Peterson SBS Den Helder BV
Petrofac Marine Services
Positioneering Ltd
Primo Marine
PRO Marine Solutions Pvt Ltd
PT Makara Jaya Marine
PT Rigspøk Perkasa
PT Sirius Maritimindo Services
QinetiQ
Red Penguin Associates Ltd
Reel Group Ltd
Rolls-Royce Power Engineering plc
Romona Inc
Scanmudring
Schilling Robotics Ltd
Schilling Robotics, Inc.
Schulte Energy Services Ltd
Seacroft Marine Consultants Ltd
Seanetics Asia Works Pte Ltd
Sebastian AS
Sigma Offshore Ltd
Skan-El AS
Skuld AS
Soil Machine Dynamics Ltd
Southern Marine Consult AS
Sparrows Offshore Services Ltd
Specialist Marine Consultants Ltd
Spica Marine Inspections Ltd
STAT Marine SAS
Sub-Tech Systems Ltd
SubNet Services Ltd
Subsea Vision Ltd
Survey Association
The Tritanium Company bv
Thorne Offshore Management Pte Ltd
Tristein AS
Underwater Technology Services (S) Pte Ltd
United Subsea Engineering Pvt Ltd
V.Ships Ltd
Veripos
VideoRay LLC
Viking Moorings Ltd
VNSafety Ltd
Vroon Offshore Services Ltd
Westcon Power & Automation AS
Xing Wei Pte Ltd

Training establishments

Abyss AS
Adarsh Institute of Maritime Studies
Advanced Offshore Training Centre Pvt. Ltd
Ålesund University College
AMC Search Ltd
APAVE MARE Training Center
ASET Int Oil & Gas Training Academy
Banff & Buchan College
Bergen University College – Diver Education
Bibby Ship Management Group Ltd – E&A
Bibby Ship Management Group Ltd – ME&I
BS Divers
Centre for Marine Simulation
CMPP
CFO – Centro Formazione Offshore
Commercial Diving Academy
DAN Europe
De Moura Shipping Ltda
Divers Academy International
Divers Institute of Technology
Divers University Esporte Aquático Ltda
Diving Diseases Research Centre
Ecole Nationale Supérieure Maritime
Falck Nutec bv
First Ukrainian Maritime Institute
Force Technology
Fundação Homem do Mar
GL Noble Denton
Global Marine Systems Ltd – Subsea Training
Holland College – Marine Training Centre
Hydro Oil & Gas Training
Hydrolab-HydroCAT
Hyperbaric Training Associates
i-UTech

IDESS Maritime Centre (Subic) Inc.
Institut National de Plongée Professionnelle
Interdive Services Ltd
ISFORM
KBA Training Centre Pte Ltd
Kirby Morgan Dive Systems
LBJ Maritime Inc
Marine Solutions (Pty) Ltd
Maritech Group
Maritime Institute Willem Barentsz
Maritime State Uni named after G.I. Nevelskoy
Maritime Training & Competence Solutions Ltd
MOG Industry Training Co Ltd
MSTS Asia Sdn Bhd
National Hyperbaric Centre
National Oceanography Centre
Netherlands Diving Centre
North Sea Lifting Ltd
NZ School of Commercial Diver Training
Occupational Training Centre Pte Ltd
Offshore Marine Academy Ltd
Offshore Skills Training Centre (OSTRAC)
Pan Arab E-Navigation DP Training Center
Perry Slingsby Systems Inc.
PNI Training Centre AS
Polaris Learning Ltd
Power & Generation Services
Professional Diving Academy
Professional Diving Centre
PT Barron International
PT ISBI
PVD Tech Training & Cert Joint Stock Co
Satakunta University of Applied Sciences
SBS Intl Ltd
SEADOG
Seahorse Services Co Ltd – Training
Seneca College – Underwater Skills Program
Ship Modelling & Simulator Centre
Simsea AS
Skilltrade BV
Sogn og Fjordane Tech Coll, Maritime Dept Måløy
STC-Group
STORM Ltd
SubNet Services Ltd
SubNet Services Ltd – Asia-Pacific
Survie Mer Formation
TGH AP Pte Ltd
The Dynamic Positioning Centre Ltd
The Faraday Centre Ltd
The Ocean Corporation
The Underwater Centre (Tasmania) Pty Ltd
The Underwater Centre Fort William Ltd
The Underwater Centre Fremantle Pty Ltd
The Underwater Training Centre – S Aus
Underwater Engineering Ltd
Videotel Marine International Ltd
WA Maritime Training Centre – Fremantle
YAK Diving Academy
YellowOffshore

Personnel Agencies

Ace Diving Services CC
Alfa Petroleum Services
Anglo-Eastern Group
Atlas Services Group Australia Pty Ltd
Atlas Services Group Energy Ltd
Bibby Ship Management Group Ltd – E&A
Bibby Ship Management Group Ltd – ME&I
Compass Personnel Services Inc
Connect Energy Services Pte Ltd
Dave Oliver Hydrographic Services Ltd
De Moura Shipping Ltda
EF Consult Asia Pte Ltd
GOSS Consultants Ltd
Hydrosud Ltd
Inseacon Services
IOS (International Offshore Services)
Lerus Ltd
Maritech Group
MCL Medics
Naurex Resources
Nautech Services Ltd
Nedcon Maritime
Offshore Marine Services UK Ltd
OilExec International
Oilfield Medics UK Ltd
OSM Crew Management Aberdeen Ltd
Petros
Pharos Offshore Group Ltd
PR Offshore Services Ltd
Seatechs Limited
Seatek India
Sheffield Offshore Services Pte Ltd
SubNet Services Ltd
SubNet Services Ltd – Asia-Pacific
SubServPro
Team Trident LLC
The Underwater Centre Fremantle Pty Ltd
Total Marine Services

UKPS Offshore
Underwater Engineering Ltd
Verret Marine Services

Naval units

Irish Naval Service
Royal Saudi Navy Forces
Salvage & Marine Operations IPT

CORRESPONDING MEMBERS

ABS Europe Ltd
Abu Dhabi Marine Operating Company
Agip Kazakhstan North Caspian Op Co NV
Associazione Imprese Subacquee Italiane
Apache North Sea Limited
Azerbaijan International Operating Company
Bahamas Maritime Authority
Bapco - The Bahrain Petroleum Company
BG Americas and Global LNG – Cen & N Am
BG Americas and Global LNG – S America
BG Group
BHP Billiton
BP America Production Company
BP Berau
BP Exploration Operating Company Ltd
Brunei Shell Petroleum Co Sendirian Berhad
Cairn Energy India Pty Ltd
Chevron Brasil Petroleo Ltda
Chevron Energy Technology Co Subsea
Chevron Shipping Co
Chevron Thailand Exploration & Prod Ltd
CNR International UK Ltd
ConocoPhillips
ConocoPhillips (UK) Ltd
ConocoPhillips China Inc
Dana Petroleum Netherlands BV
Dana Petroleum plc
Department of Labour (South Africa)
Det Norske Veritas
Dolphin Energy Ltd
DONG E&P AS
Equion Energia Limited
Esso Australia Pty Ltd
ExxonMobil Development Company
GDF Suez E&P Nederland bv
Germanischer Lloyd SE
Gulf of Suez Petroleum Company (GUPCO)
Health & Safety Authority
Husky Energy
IBP
International Diving Schools Association
Kuwait Oil Company
Maersk Oil Danish Operations
Maersk Oil North Sea Ltd
Maersk Oil Qatar AS
Marathon Oil Norge AS
Murphy Sarawak Oil Co Ltd
NOPSEMA
Nautilus Minerals
Nederlandse Aardolie Maatschappij BV
Newfield Peninsular Malaysia, Inc
Nexen Petroleum UK Ltd
Noble Energy
National Ocean Industries Association
OGP
Offshore Operators Committee (OOC)
Oil & Natural Gas Corporation Ltd
Perenco UK Ltd
Petrobras SA
Premier Oil Natuna Sea
Premier Oil ONS Ltd
PT Pertamina Hulu Energi ONWJ
PTT Exploration & Production plc
Qatar Petroleum
Ras Laffan Industrial City
RasGas Company Limited
Santos Ltd
Sarawak Shell Berhad
Saudi Aramco
Shell Int Exploration & Production bv
Shell Petroleum Dev Co of Nigeria Ltd
Shell Todd Oil Services Ltd
Sonangol Pesquisa & Produção
Statoil ASA
Suncor Energy Inc.
Talisman Energy (UK)
Talisman Malaysia Ltd
The Crown Estate
Total Austral (Argentina)
Total E&P Indonesie
Total E&P Nederland BV
Total E&P UK Ltd
Total Exploration & Production
Wintershall Noordzee BV
Wintershall Norge ASA
Woodside Energy Ltd
Zakum Development Company (ZADCO)



FORTHCOMING EVENTS

- 14 June 2012**
IMCA Competence Workshop
Houston, USA
- 22 June 2012**
IMCA Midsummer Charity Ball
Aberdeen, UK
- 26-28 June 2012**
Protection Offshore
Macaé, Brazil
- 27-28 June 2012**
DP Asia Conference
Singapore
- 28-31 August 2012**
ONS
Stavanger, Norway
- 11-13 September 2012**
SPE/APPEA International Conference
Perth, Australia
- 17-20 September 2012**
Rio Oil & Gas
Rio de Janeiro, Brazil
- 18 September 2012**
Middle East & India Section and Competence Workshop
Dubai, UAE
- 19 September 2012**
IMCA Briefing Seminar
Doha, Qatar
- 25-26 September 2012**
Marine Operations Supporting Offshore Wind Conference
London, UK
- 8-11 October 2012**
Gastech 2012
London, UK
- 9-10 October 2012**
MTS Dynamic Positioning Conference
Houston, USA
- 16-19 October 2012**
Santos Offshore
Santos, Brazil
- 27-29 November 2012**
Deep Offshore Tech International
Perth, Australia
- 27-30 November 2012**
OSEA – Offshore South East Asia
Singapore
- 27 November 2012**
Europe & Africa Section
Amsterdam, the Netherlands
- 28-29 November 2012**
Marine & Subsea Operations: A Culture of Sustainability
IMCA Annual Seminar
Amsterdam, the Netherlands

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SCOTTISH THEMED
EVENING
FEATURING
RED HOT CHILLI PIPERS
FROM 19:00
ARDOE HOUSE HOTEL, ABERDEEN, UK
FRIDAY 22 JUNE 2012

IN AID OF
REDR
REDR.ORG.UK
PEOPLE AND SKILLS
FOR DISASTER RELIEF



IMCA / ANNUAL SEMINAR / 2012

MARINE & SUBSEA OPERATIONS A CULTURE OF SUSTAINABILITY

KEYNOTE PRESENTATIONS * PLENARY SESSIONS
MARINE, DIVING & OFFSHORE SURVEY/ROV SESSIONS
WORKSHOPS * SUPPLIER MEMBER EXHIBITION
SOCIAL EVENTS * NETWORKING OPPORTUNITIES

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US GOVERNMENT SEMS REQUIREMENTS

18 SEPTEMBER 2012 – DUBAI, UAE

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