

makingwaves

Issue 60 – September 2011

news from the International Marine Contractors Association



RENEWABLE ENERGY WORKGROUP

◆ PUBLICATIONS AVAILABLE AS FREE PDF DOWNLOADS

◆ NEW JOINT IMCA/OGP GNSS PUBLICATION

◆ SPOTLIGHT ON JOAR GANGENES

◆ COMPETENCE WORKSHOP

From the President



Andy Woolgar, Subsea 7
IMCA President 2011

IMCA members work hard to deliver safe and efficient projects. Much of IMCA's delivery for members is in support of this aim. One aspect, competence, has increasing importance – as demonstrated by the cover focus and content of the previous issue. In addition to the two competence events in Aberdeen and Singapore earlier this year, a one day event is taking place on 8 September 2011 in Houston, USA.

IMCA provides a competence framework from which members can develop their own schemes across a common format that aids cross industry recognition. This is now freely available on the public website along with other IMCA publications. When it first launched in 1999 the framework provided competence tables for 42 safety-critical positions. Since then a further 13 positions have been added and it will continue to be extended as required. The new positions are not all so safety-critical, but each is important in helping the contractor deliver a safe and efficient project. IMCA continues to encourage members to develop their own schemes and to enrol their staff. A piece of ongoing work which is nearing fruition covers freelance staff. Our industry has many itinerant workers so IMCA is developing freelance packs that such personnel can use to record their competencies, help organise their portfolios and facilitate on the job assessments.

A strong link between IMCA and individual workers is through logbooks used by both permanent and freelance staff alike. IMCA has published 14 of them, the latest of which is for auditors and inspectors. It fits with the several standard audit formats that IMCA publishes but can be used for any audit, survey or inspection. Further logbooks are in the pipeline and they all contribute to recording competence.

After Macondo, the US authorities have been emphasising the skills and experience expected from personnel in the Gulf of Mexico. This is being handed down by the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE) through its Safety and Environmental Management Systems (SEMS) requirements. IMCA is working with the Bureau through the Offshore Operators Committee (OOC) to clarify what skills and experience should be expected and how it should be demonstrated in our sector by using the existing IMCA competence material.

This (and related) work has raised the question of elevating competence from our sector's offshore workplace to onshore and management personnel and 'corporate' competence. The standard components of qualifications, skills and experience that are demonstrated and assessed are harder to pin to a corporation. But being tough does not mean it should not be done.



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IMCA



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CORE



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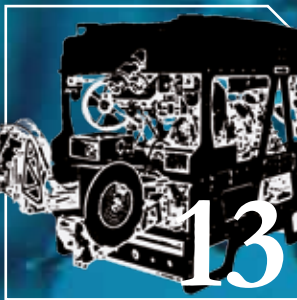
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DIRECTORY



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EVENTS



around **IMCA**

the wind of change

IMCA forms the Renewable Energy Workgroup

In October 2010 IMCA held a renewable energy workshop in Amsterdam, the Netherlands, which highlighted a number of issues relating to IMCA members working in the offshore renewable energy industry. It was agreed that a workgroup should be formed to address these issues from the evolving offshore renewable energy industry, and the first meeting of the new workgroup took place at the end of June at IMCA's offices in London, UK.

The workgroup is open to all IMCA members and will meet approximately every three months, mainly reporting to the Marine Division Management Committee, the Safety, Environment & Legislation Core Committee and the Europe & Africa Section. Although it will draw on current European experience of this work, all IMCA publications are designed to have worldwide application and the groups work will be international.

The workgroup has the following terms of reference:

- ◆ A forum for dialogue about renewable energy marine operations;
- ◆ Formulating IMCA opinion on renewable energy to be publicised as necessary;
- ◆ Identifying gaps in existing IMCA guidance;
- ◆ Identifying new guidance which IMCA could publish and help draft;
- ◆ Providing input (reporting to) other IMCA committees about renewable energy as necessary;
- ◆ Raising awareness of IMCA's existing guidance in this area;
- ◆ Participating in other industry forums and workgroups and promote discussion with relevant bodies;
- ◆ Promoting membership of IMCA to companies active in this area.

Members have already identified a number of key issues:

- ◆ Identifying appropriate marine operational safety requirements for the sector;
- ◆ Contributing to safety improvements through sharing safety incidents, collecting safety statistics and identifying areas for improvement;
- ◆ Creating safe regimes for SIMOPS and personnel transfer.

The next meeting of the workgroup is scheduled for the end of September 2011, where it will build on its already healthy work programme. If you would like any more information please contact Paul.Bayliss@imca-int.com

Publications Available for Free Download

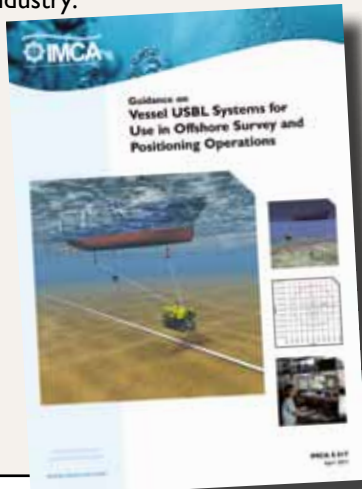
We have recently made our guidance publications available as freely downloadable PDFs on the IMCA public website:

<http://www.imca-int.com/documents/publications.html>

This is to provide better availability and access to these important documents. We want to see them widely available and used by all in the industry, including non-members, for the good and safety of the industry.

Companies and other organisations will be able to provide links to our documents from their websites, intranets and PDF documents making access much easier.

Feedback from other organisations and joint workgroups is proving very positive and we hope this change will help you all in your daily work. *HW*



Hello, Goodbye

June saw the return of Claudine Bleza, one of our Events Co-ordinators, from maternity leave after the birth of her daughter. We are very pleased to welcome her back.



We also saw the departure of Sara Donaldson, who had been covering for Claudine since July last year. She did a tremendous job filling Claudine's shoes and will be missed by the IMCA Secretariat and members alike. We all wish Sara the best of luck for the future. *KG*

IMCA 'Bollywood' Midsummer Charity Ball



A record 230 people filled the Ardoe House Hotel, Aberdeen, UK for this piece of pukka entertainment. The evening was 'Bollywood' throughout, from the Taj Mahal backdrop to the sitar, dancing and the Angel Dancers grand finale with swishing chunris.

This year's charity was the Educational Fund of The Nautical Institute, which is celebrating its 40th birthday this year. IMCA members liaise with the NI mostly on dynamic positioning qualifications – a key part of our work – and it was fantastic to raise £3,300 for them. The Institute wish us to extend its thanks and deep appreciation for the money raised.

Philip Wake, Bridget Hogan and Faye Turner from the NI (pictured left) were presented with the cheque by Hugh Williams, IMCA Chief Executive, at our offices in London. *HW*



Annual Seminar

The programme and registration form for the 2011 IMCA annual seminar are now online. Being held in New Orleans, USA on 9-10

November, the theme for this year's event is *the future of marine and subsea operations*. It will consider where our sector is going and what tools are needed in order to constantly deliver added value for clients.

This year we

are very pleased that eight organisations are endorsing the seminar: ADCI, API, IADC, MTS Dynamic Positioning Committee, OCIMF, OGP, OOC and the Offshore Support Journal.

The packed programme includes presentations on the seminar theme from keynote speakers as well as themed sessions for marine, diving and ROV/offshore survey topics. A number of workshops are also planned, covering a broad range of technical issues following on from the presentations. Gordon Kelly from the IMCA secretariat will also be present to answer any questions members might have related to the CMID database.

The social events are always an important part, providing great networking opportunities. The seminar dinner will be on 9 November on a Mississippi steamboat, and a drinks and buffet reception is being held on the evening of 10 November at the Aquarium of the Americas.

An exhibition of products and services from IMCA supplier members is an integral part of the seminar, and delegates have access to coffee, tea and lunch breaks during the event.

For full details on the seminar and to register, please visit: www.imca-int.com/events/seminar
JB

800 IMCA Members!

IMCA is delighted to announce that we have passed another milestone. At the time of going to press we have a membership of 806. As fantastic as this is, IMCA is always looking for more companies to help us to provide an always improving knowledge base and a common industry voice. ABu

IRF Summit Conference 2011

IMCA is pleased to be attending the International Regulators Forum (IRF) meeting in Stavanger, Norway in October.

The Petroleum Safety Authority Norway (PSA) will host this extraordinary safety summit conference under the banner of *working together to improve offshore safety*. The IRF is responding to a paradigm shift following the Deepwater Horizon/Macondo (spring 2010) and West Atlas/Montara (August 2009) incidents. The aim is to share the work of the regulators and IMCA is keen to take part.

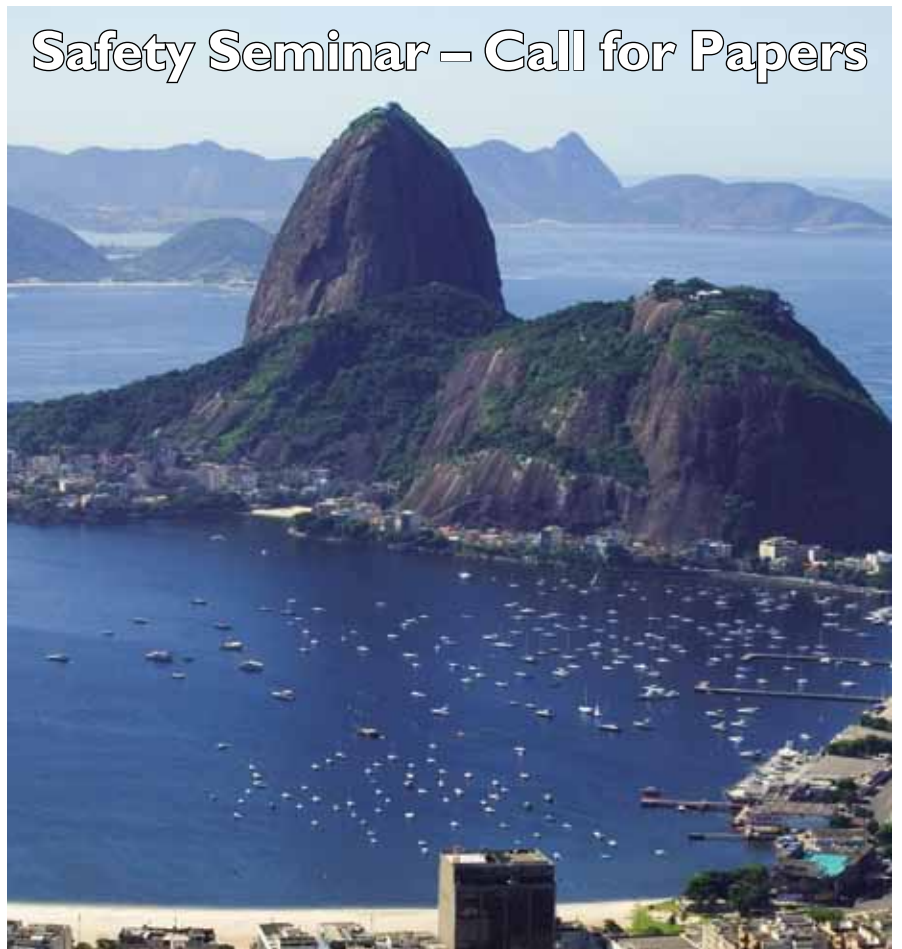
The programme can be found at www.irfconference2011.org/programme.cfm

If members have any comments they should direct them to

Hugh.Williams@imca-int.com



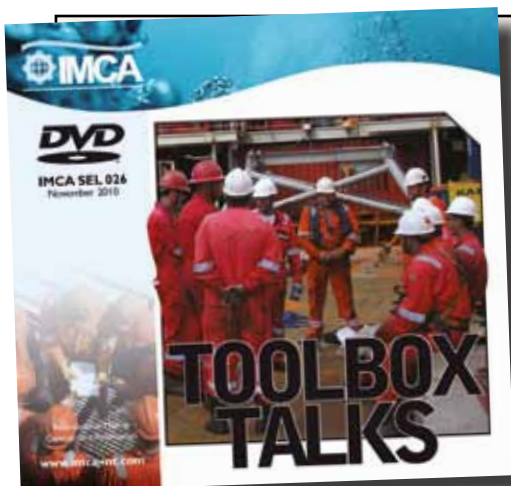
Safety Seminar – Call for Papers



Plans are now underway for the 2012 safety seminar, being held on 21-22 March 2012 in Rio de Janeiro, Brazil. The theme for the event is *risk and impact in marine operations* and, as ever, the seminar will focus on marine construction and vessel activities. While presentations across the whole spectrum of safety, environment, health and legislation are sought, the thrust of the 2012 event will be on asset-threatening events. As noted in a recent report on the lessons learnt from the Gulf of Mexico incident, too often safety is thought to be a matter of the occupational safety hazards of 'slips, trips and falls' rather than the safety-critical activities that threaten assets.

A call for papers has recently been issued and IMCA is interested in topics including: the interface between occupational safety and asset-threatening events (process safety), major incident investigation, compliance auditing, workforce involvement, asset integrity, corporate responsibility, the environmental impact of major incidents, and class, flag and coastal state regulation of major hazard events. JB

core activities



Competence Corner

DVD

The Competence & Training Core Committee is taking forward the production of a DVD aimed at *getting the competence message across*. The DVD format will be similar to the already published and available *Toolbox Talks* DVD produced by the SEL committee. A workgroup has been formed to write the script and progress the design of the DVD, which will cover a broader scope than just focusing on

competency and training. It will look at the bigger picture of learning and development in the workplace, from reviewing CVs and qualifications to career development into more senior roles.

It will also incorporate information on the importance of a competent workforce from other perspectives, including internal and external factors such as the desire to be a competent worker, the desire to work with a competent safe team, regulations, legislation, audits, tenders, commercial factors and health, safety and environment factors.

Assessor Case Study

To help contractors develop and use competence schemes based on the IMCA competence framework, IMCA has published case studies describing how individuals and contractors have benefited from them.

An assessor case study is being produced to complement information notes IMCA C 07/10 *Case Study – Development of a Competence Assurance and Assessment program* and IMCA C 02/11 *Training and Competence Case Study – The Individual Worker*.

The assessor case study focuses on the different career paths of two assessors from one member company, both of whom share a drive and passion for training and assessing people to a high standard. Their employer has supported them through an external assessor course to help them develop their own skills and knowledge for their new roles.

Confined Space Entry

It is a sad fact that confined space entry fatalities continue to occur. The prevention of these incidents remains an important part of the SEL committee's work programme and IMCA is moving forward with the development of a confined space entry DVD. A draft script is being prepared based on material shared with IMCA by one of our ICO members. Consideration is being given to collaborating with a UK-based service provider with excellent training facilities for confined spaces (dummy tanks, etc.), which would be a good location for filming. The proposed DVD would be aimed at workers and supervisors who work with and in confined spaces, and would be intended to provide clear and easy to understand guidance on the dangers involved.

NH



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core activities

Auditor/Inspector's Logbook

This logbook is a universal tool, designed for all disciplines to record their audits or inspections. Company internal audits, vessel inspectors (CMID) and DESIGN audits are just a few of the examples of when it can be used. It can assist in demonstrating competence for auditor/inspector advancement through company or organisation competence schemes, or assist with career development and progression. The logbook contains areas to record continuing and professional development, internal company and external training courses, competencies that match IMCA competence tables for auditors and inspectors, as well as the type of audit and inspection experience. KC

Safety & Environmental Management Systems

Under the new US Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE) requirements, operators must have approved Safety & Environmental Management Systems (SEMS) in place by 15 November 2011 for all oil and gas operations on the US outer continental shelf (US OCS). Contractors are not required to have SEMS themselves, but operators' SEMS must include procedures for contractor management, including documenting agreement on contractors' health and safety practices and ensuring the competence of their personnel. The new rules are likely to have a significant impact on all contractors operating on the US OCS. Those that operate internationally will probably have appropriate systems in place, but demonstrating everything to the level of detail expected may prove a challenge.

IMCA has been monitoring discussions on how to comply with SEMS and trying to ensure operators are aware of the IMCA materials and of the procedures marine contractors already have in place. Details are being circulated via the IMCA Central & North America Section, and members operating in the US should be discussing the requirements with clients. EC

Emergency Response Standards & Guidance

The requirement for any organisation to respond effectively to any given emergency is critical to managing the incident successfully. It is essential that sufficient emergency response standards are in place to minimise the impact of personnel injury, damage to the environment, company reputation and implicated assets. Technip, chair of IMCA's Security Task Force, has implemented a standardised emergency response approach world-wide within the group.

Specific processes have been developed to enhance the company's response to any given incident. It includes dedicated procedures and tools to notify an incident when it occurs, to provide an adjusted and reactive response, and to investigate and report the incidents consistently. Based on Technip's security best practices and lessons learnt, the Security Task Force has decided to set up a workgroup to develop emergency response standards and guidance for

any given scenario. This will include recommendations to identify the necessary resources and procedures required to implement an effective system, guidance on both the management of the media and family response during an incident, and the related training and emergency response exercise methodology to test the procedures in place and improve them on a regular basis. Our thanks to Nigel Hope of Technip for this article.

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UK Bribery Act – International Impact

The UK Bribery Act came into force on 1 July 2011 and applies to all companies conducting business in the UK, including foreign commercial organisations operating in the UK, and their employees or business partners – including those based overseas. Under the Act, in a particular case of bribery, it is a full defence for an organisation to prove that it has adequate procedures in place to prevent persons associated with it from bribing. Companies will therefore need to assess the risk of bribery being committed on their behalf and ensure they have appropriate policies and procedures in place. As is already the case, facilitation payments are considered bribes. The UK government guidance on the type of procedures companies could put in place can be downloaded from <http://www.justice.gov.uk/guidance/making-and-reviewing-the-law/bribery.htm> and further details can be found in information note IMCA SEL 09/11.

Once again IMCA is pleased to be a sponsor of SPE's Offshore Europe in Aberdeen, UK on 6-8 September 2011, and we will be at Stand No ID64. The Europe & Africa Section will hold its meeting from 09:30 hours on 7 September in the AECC meeting rooms and all members at the event are welcome. The section meeting will update members on the regional work, report on the reformed renewables workgroup and have a presentation and discussion session on decommissioning.

South America

The section will next meet on 21 September 2011 in Rio de Janeiro, Brazil. The meeting will include a presentation on training, competence and personnel shortages. This subject was aired at the previous meeting and dominates concerns about the upcoming boom of work in the region.

Central & North America

The next section meeting will take place in Houston, USA on 8 September 2011, together with a workshop on competence. The workshop will contain a mixture of short presentations and discussion sessions and will include an overview of the IMCA competence assurance and assessment framework, case studies from members on implementing in-house schemes based on this framework and discussion on the newly introduced Safety & Environmental Management System (SEMS) and its impact on regulating competence schemes.

The 4th Annual Canadian Underwater Conference and Exhibition is to be held in Vancouver, Canada from 23-25 October 2011. The theme is *man & machine underwater: allies or adversaries*, and Paul Evans will be attending as a speaker to present a paper on diving alongside ROVs, focusing on IMCA's guidance on ROV intervention during diving operations and guidance on simultaneous operations. For details visit: www.underwaterconference.ca

Middle East & India

The section has elected its new Chairman, Christopher Rodricks of SEAMEC, who takes over from Roy Donaldson of Topaz Marine. We thank Roy for his service to the Section since May 2009 and we congratulate Chris on his new role.

IMCA held a briefing session in Baku, Azerbaijan on 15 June – the first time IMCA had held a meeting there. The event was opened with a welcoming address from Rauf Veliyev of SOCAR, the national oil company, and was followed by presentations on IMCA and its structure, the implementation of subsea engineering solutions utilising ROV intervention tooling, the CMID and vessel assurance, annual diving system auditing, and marine challenges in operating in the Caspian Sea. A further briefing session will be held in Baku on 6 October 2011.

IMCA is pleased to be one of the supporting organisations of the Seatrade Middle East Workboats, taking place in Abu Dhabi, UAE. We will be exhibiting at the event and hope to see a number of members and industry colleagues at stand T10.

Asia-Pacific

The section has a new Chairman – Steve MacMillan of McDermott International Inc., taking over from Andy Bolton, who retired from Technip in June 2011. We wish Andy well and congratulate Steve on his new role. As Steve was Vice-Chairman, an election will be held for this role.

The next section meeting will take place in Kuala Lumpur, Malaysia on 20 September 2011, including presentations on the optimisation and preservation of off-hire assets and dry underwater welding, and workshop sessions on nitrox diving – with consideration given to proposed new nitrox guidance, vessel assurance and the use of the IMCA vessel assurance framework.

Offshore diving operations management and training

- NPD Leadership
- IMCA Diver Medic
- IMCA Trainee Air and Bell Diving Supervisor
- IMCA Diver Assessment
- IMCA ALST
- DSV Audits
- Personnel and Equipment
- Risk Assessments
- In-house Training
- HSE Approved courses
- HSE First Aid at Work and Appointed Person
- HSE Offshore Medic
- Advanced Medical Skills
- MCA Medical courses
- IYA First Aid
- Overseas training



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Nitrox Update

The workgroup established to develop guidance for surface supplied nitrox diving operations has now met three times, set out key issues to be addressed and prepared an initial draft document. The workgroup is made up of IMCA contractor and supplier members, as well as consultants and representatives from ADC and the UK HSE, and plans to address subjects such as safety considerations, operational limits, risk assessment, equipment failure, fire and explosion risk, maximum partial pressure of oxygen, compressed air intervention, personnel competencies, equipment and selection of decompression tables. The workgroup will also look into commercially available nitrox generators and how they are currently being used offshore. PE

Country	Number of centres	Approving body
Australia	3	ADAS
England	3	IMCA
Italy	2	IMCA
Netherlands	2	NDC
Scotland	2	IMCA
South Africa	2	IMCA
Canada	1	IMCA
Egypt	1	IMCA
France	1	IMCA
Honduras	1	IMCA
India	1	IMCA
Malaysia	1	IMCA
New Zealand	1	ADAS
Norway	1	IMCA
Singapore	1	IMCA

Diver Medic

It is a requirement of IMCA guidelines (D 014) that one member of an offshore dive team, other than the supervisor, who is not diving should be trained to a higher standard of first aid known as diver medic.

In the absence of a scheme, IMCA established one in 1999 for auditing and approving diver medic training and published IMCA D 020 – *IMCA Scheme for recognition of diver medic training – guidance for training establishments*.

Over the past ten years there has been advancements in medical equipment and the course syllabus for diver medic training has been reviewed. IMCA

aims to revise the guidance accordingly and release it by the end of the year.

Currently the IMCA approved course is offered by 23 training centres in 15 countries (including reciprocal agreements in place with the Australian Diver Accreditation Scheme (ADAS) and the Netherlands Diving Centre (NDC)).

More information on approved training centres is available at:

<http://www.imca-int.com/divisions/diving/profile/personnel/training/medic.html>

Contractor Membership Still On The Rise

Contractor membership of the IMCA Diving Division continues to expand. As it is the only membership category subject to an assessment procedure involving an audit process, it is often seen as aspirational for smaller or newly formed diving contractors around the world.

The assessment procedure enables a company to demonstrate they have the ability to undertake offshore operations to IMCA guidelines and is split into four phases: document submission, desktop document review, visit to applicant for an on-site audit, and then IMCA Overall Management Committee review. The outcome of the OMC review is either rejection, to grant full membership or to grant a one-year temporary membership. This latter option may be given to a new offshore diving contractor during which time they will be able to gain offshore operational experience before a re-audit is carried out after a year. The audit process itself asks for certain documentation and procedures to be in place, as detailed in information note IMCA D 06/10.

To date, IMCA Diving Contractor membership currently stands at 104, with 16 audits having been carried out so far in 2011. PE

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IMO Update

New energy efficiency rules

After months of high-level negotiations, IMO agreed in July to adopt new energy efficiency regulations, which are due to enter into force on 1 January 2013. Ships of 400 GT and above will have to be issued with an International Energy Efficiency Certificate, certifying that a ship specific Ship Energy Efficiency Management Plan (SEEMP) – setting out measures for improving operational energy efficiency – is on board. New ships will also have to comply with an Energy Efficiency Design Index (EEDI), although this will not apply to offshore support vessels for the time being.

Revised garbage regulations

Revised IMO rules on ships' garbage (MARPOL Annex V) are due to take effect from 1 January 2013. There has also been a change in emphasis. Instead of stating which types of garbage may not be discharged, the new rules prohibit the discharge of all garbage unless expressly provided otherwise.

Review of on board noise limits

An IMO correspondence group is finalising the draft revised *Code on Noise Levels on Board Ships*, for completion in 2012. The group has yet to decide how to address specialist ships, including DP vessels, but IMCA is encouraging IMO to maintain the current exclusions for crane and pipelaying barges and to ensure any revised limits for new vessels do not exceed existing 'comfort class' standards.

Draft polar code

IMCA has been following the development of a mandatory code for ships operating in polar waters. The code will build on the existing polar guidelines and introduce additional mandatory safety and environmental protection requirements, taking account of the specific risks of operating in polar waters. IMO has yet to decide the extent to which the new code will apply to existing ships.

For more details on IMO issues, please contact Emily.Comyn@imca-int.com

DP Trials

IMCA has recently published IMCA M 190 – *Guidance for developing and conducting annual DP trials programmes for DP vessels* – intended to assist vessel operators in the development of a suitable annual DP trials programme. It promotes consistent content for similar vessels, demonstrates more effectively the vessel's ability to maintain position following identified single failures, demonstrates that the DP system is in good working order, contributes to the effective management of the failure modes and effects analysis (FMEA), and ensures best use of time available for DP system tests by effectively identifying which items need regular checks.

Sister publication, IMCA M 191 – *Guidelines for annual DP trials for DP mobile offshore drilling units* – sets out a programme of continuous trials throughout the year. However, much of the guidance produced in the new document will also be applicable to mobile offshore drilling units (MODUs). JB

IMCA M 211

IMCA M 211 – *Dynamic Positioning Station Keeping Incidents: Incidents reported for 2009 (DPSI 20)* – has been published and contains 75 DP incidents. The majority of vessels reported only one incident, with a few reporting two or more, giving a rate of 1.63 incidents per vessel for the year, which is still near the average for recent years of 1.51.

Reference systems are seen as the main cause in the majority of incidents. One vessel operator had a number of incidents due to a particular model of laser-based radar and has since upgraded to the newer version. Human error features prominently and two incidents are worth highlighting: placing a logbook on the surge switch of the DP control; mistaking the DP changeover switch for the light switch. Both these show lack of attention – a cause in a number of other incidents. IMCA encourages members to report not only the incident and its causes, but also the remedial action to

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resolve it, any actions taken to prevent recurrence, and lessons learnt. *IG*

Lifeboat Weights

IMO has agreed to increase the assumed weight of persons for lifeboats from 75 to 82.5 kg. However, to take account of the increased average weight of personnel working offshore, a number of coastal states have been adopting different requirements for lifesaving appliances on offshore installations. In some cases, operators are having to retrofit larger lifeboats or reduce the lifeboat POB to take into account the increase in assumed weights.

These different requirements may impact on offshore vessels working under a safety case, and vessel operators should therefore ensure they are aware of the differences and have considered how to work with the different regimes.

This issue has been addressed by the offshore regulatory authorities in a number of

countries, including Australia, Canada, Norway and the UK.

There will be a workshop on this issue at the IMCA annual seminar in New Orleans in November. *EC*

UWSH Guidance

Vessel owners and operators frequently have a need for underwater ship husbandry (UWSH) involving the repair, maintenance or survey of a vessel's hull and underwater appendages. IMCA M 210 – *Guidance for the selection of diving contractors to undertake underwater ship husbandry* – gives guidance on good practice and ways underwater ship husbandry diving operations can be carried out safely and efficiently, advice on the selection of appropriate and suitable diving contractors, and the health and safety requirements for the management, planning, supervision and execution of work.

The guidance covers diving in support of underwater ship husbandry or classification society inspection, and survey

carried out offshore, inshore or in harbour. Offshore diving operations in support of oil and gas industry activities are specifically excluded. *JB*

NWEA Guidelines

The North West European Guidelines for the Safe Management of Offshore Supply and Rig Move Operations (known as the NWEA Common Guidelines) are currently being updated by a group organised by the Marine Safety Forum. In addition to the steering committee there are four workgroups covering anchor handling and rig moving, competencies, base operations, and general operations and project support.

Two countries are currently looking at issuing similar guidance. Australia is referencing the NWEA Guidelines but adding region-specific requirements or guidance; in the USA the Offshore Operators Committee Marine Safety and Security Group has

established a sub-committee called the Marine Operations Risk Advisory Committee (MORAC) to look at this area. IMCA is involved in each of these and it is hoped that, when developed, the guidance for all these areas will be comprehensive and area compatible. *IG*

Crane Logbook

In September last year IMCA published a crane logbook, which is intended to assist vessel operators and Masters by providing a format for keeping a useful record of the operational history of cranes on vessels, especially where automatic data recording is not available or is insufficient. The logbook addresses the need to record key events in the life cycle of an offshore vessel crane, including routine and unexpected maintenance and details of any involvement or accidents. The logbook can be purchased via our website or by contacting publications@imca-int.com

PB

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offshore survey



Guidelines for GNSS Positioning

Since 2009 a technical workgroup consisting of representatives from OGP, IMCA and the marine seismic survey industry has thoroughly revised the 1994 UKOOA *Guidelines for the use of GPS in offshore surveying*. This updated document has been jointly issued by OGP and IMCA as Report No. 373-19 and IMCA

S 015 – *Guidelines for GNSS positioning in the oil and gas industry*.

The document applies to the use of GNSS in survey and positioning related activities in the oil and gas industry, and in similar operations relating to renewable energy, telecommunications and engineering projects. Its seven sections include an introduction summarising the global navigation satellite systems available and the observables, the relative and absolute positioning systems and techniques, and updated coverage of the augmentation services available from service providers. Practical guidance is provided in sections dealing with installation and operation issues, geodetic considerations, and atmospheric and other environmental influences. Most importantly, these new guidelines retain the recommended measures for assessing the quality of GNSS position fixes. The section on quality assessment and statistical testing includes examples and provides a comprehensive overview of the recommended measures based on the Delft method.

Printed copies are available through the IMCA website, where PDF copies can also be downloaded free:

<http://www.imca-int.com/divisions/survey/publications/> NH

Issues with GPS Jamming

IMCA has been following developments in the USA that could lead to GPS radio signals being jammed or otherwise interfered with, with potentially serious consequences for the safety and integrity of members' operations.

IMCA has published information note S 04/11 about the LightSquared (www.lightsquared.com) proposal to develop a country-wide wireless broadband communications network integrated with satellite coverage, with up to 40,000 base stations built across the US. The frequencies transmitted by these base stations would be close to the frequencies used for GPS, but at a much greater amplitude, and it has been shown that many GPS receivers would experience serious interference from these transmissions. There is continuing debate regarding the proposals, including a lobbying group opposing them, and – although the biggest impact would be for land based activity – it is believed that it has potential to cause disruption 20-30 km offshore.

IMCA has also published information note S 03/11 drawing members' attention to possible vulnerabilities in the wider area of global navigation satellite systems, particularly where they are used for safety-of-life critical systems. The UK Royal Academy of Engineers has released a study of these, which can be downloaded from: www.raeng.org.uk/news/publications/list/reports/Global_Navigation_Systems.pdf NH

Offshore Survey Factsheet

The IMCA secretariat has a rolling programme of revising promotional material, and recently the factsheet for offshore survey activities underwent a revision.

The new factsheet, including updated images can be seen at www.imca-int.com/documents/factsheets/IMCA-fs-Survey.pdf

NH

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Subsea Metrology Document

Members of the Offshore Survey Division Management Committee are working on a subsea metrology document, which is currently being prepared for publication. The document will cover the main techniques used in subsea metrology today, including basic information on the use of each technique, such as their advantages and disadvantages and engineering requirements. The metrology techniques covered are: diver and digital taut wire, LBL acoustics, inertial navigation systems (INS) and photogrammetry. The document is aimed at surveyors and surveying organisations, vessel personnel, design engineers, fabricators and client organisations. It should be available for download from the IMCA website during the autumn, with printed copies also available to purchase. NH

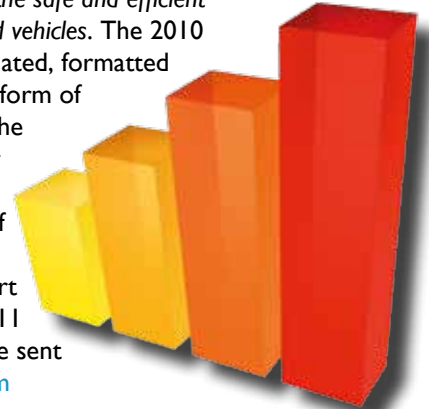
Update of Guidance

IMCA has started work on updating its guidance note on the use of ROVs during diving operations.

Since the document was originally produced the size, weight and power of workclass ROVs has increased considerably. The ROV Division Management Committee has agreed that the document should be updated to reflect the changes and the need for risk assessment before undertaking operations. JB

ROV Statistics for 2010

After many years collecting ROV personnel statistics for the North Sea area (Denmark, the Netherlands, Norway and the UK), IMCA took the decision two years ago to also collect information on the types of ROV in operation, not just on personnel, using the classes of ROV defined in IMCA R 004 Rev. 3 – *Code of practice for the safe and efficient operation of remotely operated vehicles*. The 2010 statistics have now been collated, formatted and sent to members in the form of information note R 02/11. The statistics show a very similar trend to the 2009 results although the total number of personnel at work has fallen slightly. It is now time to start the process again for the 2011 statistics and all forms can be sent to Paul.Bayliss@imca-int.com



Consultation on Dual-Use Export Controls

The European Commission is carrying out a review of the EU dual-use regulation (Regulation 28/2009) on export control systems for dual-use products.

A number of components used in offshore survey and ROV equipment also have military uses, so under the regulation some offshore products require special export licences if they are moved between countries.

The review provides a good opportunity for the industry to raise any concerns about difficulties caused by different national approaches to export control and to suggest changes to the way products moved between countries as part of a project mobilisation, rather than being exported for re-sale, are treated.

The consultation closes at the end of October. Details have been circulated to ROV and Offshore Survey division representatives in the Europe & Africa Section and further information is available from Emily.Comyn@imca-int.com

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- Gorgon Barrow Island (Australia)
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SPOTLIGHT ON JOAR GANGENES

Joar Gangenes is Diving Manager for Subsea 7 SA and serves as Chairman of IMCA's Diving Division Management Committee. In this article he discusses his 'day job' and provides a personal insight into the work his section is currently undertaking on behalf of members in his division.

subsea 7

Please tell us about your company and what it does

The merger of Acergy SA and Subsea 7 Inc. in January 2011 created Subsea 7 SA – a global leader in seabed-to-surface engineering, construction and services. We offer clients access to a high-end, diversified fleet of 42 vessels, supported by extensive fabrication and onshore facilities that deliver the full spectrum of subsea engineering, construction and services. Subsea 7 SA is well positioned to take advantage of future growth opportunities in the global seabed-to-surface market and deliver complex offshore projects in safe and sustainable ways.

“ A lot of new challenges are coming to our industry. ”

What is your current job?

I am currently Diving Manager with Subsea 7, responsible for minimum standards for manned underwater operations world-wide. Our fleet consists of nine diving support vessels (DSVs)

that operate world-wide. The manned underwater intervention is just one of the services we offer to our clients, from deepwater diving in Brazil to the shallowest surface supplied intervention, such as support to FPSOs.

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

I started in the industry in 1983 as a diver for Stolt Nielsen Seaway, then had various positions before becoming Offshore Manager for a range of projects such as diving operations, ROV and heavy lifting. Part of my role was to oversee projects from tender to installation, which gave me a valuable insight into all parts of a job. For the past decade I have held the position of Diving Manager as Subsea 7 and it has continued to evolve. I represent the company in the IMCA Diving Division Management Committee, OLF Network for Underwater Operations and meet with oil and gas producers at the Diving Industry Workgroup.

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

The key areas are the safety of personnel and the

economic ups and downs of the industry, driven by oil prices. When people are hurt in our operations it affects their family, the company and the industry as a whole. The ups and downs make it very difficult to build and keep a consistent capacity in teams on our offshore and onshore assets. It is common that the industry either all employ or all reduce personnel at the same time, depending on the oil price. Both these safety issues and the fluctuations in the economy have an effect on who is attracted into the industry.

“We need to focus on our personnel to reduce the effect of changes in demand.”

How can these issues be taken forward?

A safe and incident-free workplace must be the main focus. By employing robust processes and barriers, as well as encouraging a safety conscious culture and mindset, we are most

likely to keep the risk at an acceptable level. The oil price is not something which is as easy to control with all the various factors affecting it, but we need to focus on our personnel to reduce the effect of these changes in demand.

How do you think IMCA makes a difference?

IMCA makes a difference by encouraging common industry practices, based on lessons learnt from the industry as a whole and at company level. These industry practices and guidelines help to reduce risk and establish controllable boundaries. I believe that our approach for a more international view on all aspects will, over the long term, reduce incidents in the industry as a whole.

How do you see the future?

I am optimistic about the future! A lot of new challenges are coming to our industry and new technology is being brought in to meet them. IMCA is, with its contact network in different regional and world-wide organisations, very well positioned to help to reduce incidents and attract more personnel to our industry.



IMCA

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makingwaves

Making Waves is published quarterly to promote knowledge of matters affecting the offshore, marine and underwater engineering industry.

Ideas for articles of potential interest to a wide cross-section of our members are welcome.

The views expressed on these pages are those of their respective authors and do not necessarily reflect the policies or positions of IMCA itself.

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Andy.Butler@imca-int.com

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Once you have finished with this magazine please recycle it.

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

- ◆ **Guidance on the use of simulators, Rev. 1** (IMCA C 014)
- ◆ **Common Marine Inspection Document, Issue 8** (IMCA M 149)
- ◆ **Guidance for developing and conducting annual DP trials programmes for DP vessels** (IMCA M 190)
- ◆ **Guidance for the selection of diving contractors to undertake underwater ship husbandry** (IMCA M 210)
- ◆ **Dynamic Positioning Station Keeping Incidents: Incidents reported for 2009 (DPSI 20)** (IMCA M 211)
- ◆ **Guidelines for GNSS positioning in the oil & gas industry** (IMCA S 015)

SAFETY FLASHES

- ◆ **Safety flash 05/11** – covering six incidents: Near miss: security of equipment; Improper use of tools: bruising; Lack of safety awareness: crush injury during lifting operations; Anchor handling incident; Diver safety – high pressure water jetting; Failure of fall wire – fatality
- ◆ **Safety flash 06/11** – covering four incidents: Person fell after safety lanyard failed; Confined space – multiple fatality; Confined space – multiple fatalities: Failed chain link – catastrophic failures in mooring system
- ◆ **Safety flash 07/11** – covering six incidents: Reliance on crane limits caused crane damage and dropped objects; Galley fryer fire; Shackles in rigging assembly below required safe working load (SWL); Near miss: personnel almost caught between crane house and scaffold pipe; Injury: failure of subsea HP water jetting gun; Incorrect information in user manual for fixed fire-fighting system
- ◆ **Safety flash 08/11** – covering four incidents: Hand injury while using hydraulic impact wrench; Recent near miss incidents involving potential dropped objects; Electrician received electric shock; Fatality after capsizing of workboat with eight persons onboard
- ◆ **Safety flash 09/11** – covering one incident: Failure of fall wire – Update to safety flash 05/11

INFORMATION NOTES

COMPETENCE & TRAINING

- IMCA C 08/11 Development relating to the Nautical Institute DPO certification
- 09/11 The Nautical Institute DPO Scheme implementation date change

SAFETY, ENVIRONMENT & LEGISLATION

- IMCA SEL 07/11 Summary of 2010 safety statistics for IMCA members
- 08/11 Safety statistics for IMCA members: Report for 2010
- 09/11 Implementation of the UK Bribery Act 2010 and its international impact
- 10/11 2011 safety seminar: workshop discussion and table feedback
- 11/11 Permit to work systems – available resources for members
- 12/11 Audit

DIVING DIVISION

- IMCA D 05/11 World-wide diving personnel statistics for IMCA members: statistics for 2010
- 06/11 Kirby Morgan Dive Systems Inc product bulletins
- 07/11 Audit

MARINE DIVISION

- IMCA M 09/11 The solar cycle maximum and its effect on DP station keeping
- 10/11 Global Navigation Satellite System (GNSS) vulnerability – A report from the UK Royal Academy of Engineers
- 11/11 Development relating to the Nautical Institute DPO certification
- 12/11 The Nautical Institute DPO Scheme implementation date change
- 13/11 Audit
- 15/11 MAIB accident report into the incident involving the DP vessel 'SBS Typhoon'

OFFSHORE SURVEY DIVISION

- IMCA S 02/11 Seabed Survey Data Model (SSDM) – Version 1
- 03/11 Global Navigation Satellite System (GNSS) vulnerability – A report from the UK Royal Academy of Engineers
- 04/11 Possible GPS interference – LightSquared

REMOTE SYSTEMS & ROV DIVISION

- IMCA R 02/11 World-wide ROV personnel and vehicles – statistics for 2010

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.

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Marine:	Joar Gangenes, Subsea 7 Ian Mitchell, Technip	Europe & Africa:	Wim de Boer, Heerema Marine Contractors Jim Sommerville, Fugro
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ROV:	Will Primavesi, Specialist Subsea Services Walter Steedman, Veripos Neil Milne, Subsea 7	South America:	Giorgio Martelli, Saipem Gilles Lafaye, Subsea 7
	Espen Ingebretsen, Oceaneering International		

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- ◆ VideoRay LLC
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RECENT NAME CHANGES

- Marseille Maritime Academy is now *Ecole Nationale Supérieure Maritime*
- NOR Offshore Pte Ltd is now *Solstad Offshore Asia Pacific Ltd*
- Pride International is now *ENSCO plc*
- StatoilHydro ASA is now *Statoil ASA*
- Troms Offshore AS is now *Troms Offshore Management AS*

INTERNATIONAL CONTRACTORS

- Allseas
- Global Industries
- Heerema Marine Contractors
- Helix Energy Solutions Group
- McDermott International Inc.
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- Abel
- Abyss International Benthic Exploration
- ACSM
- Adams Offshore WLL
- Adsun Offshore Diving Contractors Pvt Ltd
- Advanced Energy Systems (ADES)
- Advanced Offshore Contractors Pvt Ltd
- Ajang Shipping Sdn Bhd
- Aker Marine Contractors AS
- Aker Marine Contractors Inc
- Aker Oilfield Services
- Alam Subsea Pte Ltd
- All-Sea Deepwater Solutions Limited
- Alliance Seaworks Sdn Bhd
- Allied Marine & Equipment Sdn Bhd
- AlMansoori Production Services LLC
- Andrews Survey
- Aqua Diving Services
- Arab Tanker Services
- Archirodon Construction (Overseas) Co SA
- Arctia Shipping Ltd
- Arena Sub srl
- Argus Remote Systems AS
- ATCO Ports Management & Marine Services
- Atlantic Towing Ltd
- Atwood Oceanics Pacific Ltd
- Awaritise Nigeria Ltd
- BEKK Solutions Ltd
- BGP
- Bibby Offshore
- BIDCO Ltd
- BJ Services Co. Middle East Ltd
- Bluestream Offshore BV
- Bluewater Energy Services BV
- Boskalis Offshore
- Bourbon
- Britoil Offshore Services Pte Ltd
- Brodospas dd
- Bumi Armada Berhad
- C&C Technologies
- C&C Technologies Inc.
- C&I Leasing plc
- Cal Dive International Inc.
- Cal Dive International Pte Ltd
- Cal Dive International Pte Ltd – Middle East
- Canship Ugland 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
- Dalgidj Private Company

- Damas Oil & Marine Services Ltd
- DCN Diving BV
- DCN Global LLC
- Deep Sea Supply Management (Sing.) Pte Ltd
- Disa Maritime BVBA
- Dockwise
- DOF Management AS
- DOF Subsea (Australia & Asia Pacific)
- DOF Subsea Brasil Serviços Ltda
- DOF Subsea Norway AS
- DOF Subsea UK Ltd
- 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 Pte Ltd
- ENSCO plc
- ER Offshore GmbH & Cie. KG
- Fairmount Marine bv
- Far Eastern Shipping Company
- Farstad Shipping ASA
- Five Oceans Services GmbH
- Fugro Brasil Serviços Submarinos e Levantamentos Ltda
- Fugro Marine Services bv
- Fugro RUE AS
- Fugro RUE AS – Asia-Pacific
- Fugro RUE AS – Middle East & India
- Fugro SAE
- Fugro Subsea Services (Australia) Pty Ltd
- Fugro Subsea Services Pte Ltd
- Fugro Survey (India) Pvt Ltd
- Fugro Survey (Middle East) Ltd
- Fugro Survey Ltd
- Fugro Survey Pte Ltd
- Fugro-Rovtech
- GAS Geological Assistance & Services srl
- GEMS International NV – Abu Dhabi
- Global Marine Services
- Global Marine Systems Ltd
- GO Offshore
- GOGAS Gulf Oil and Gas LLC
- Golden Energy Offshore Management AS
- Great Offshore Ltd
- Greatship (India) Ltd
- Greatship Subsea Solutions (Australia & AP)
- Grup Servicii Petroliere SA
- Gulf Dredging & General Contracting Co.
- Gulf Marine Services
- Gulf Offshore (North Sea) Ltd
- Gulf Offshore Logistics LLC
- Gulmar Offshore Middle East LLC
- HAL Offshore Ltd
- Hallin Marine
- Hallin Marine UK Ltd
- Halul Offshore Services Company
- Harbor Star Shipping Services Inc
- Havila Shipping ASA
- HEISCO
- Horizon Survey Company (FZC)
- Hornbeck Offshore Operators LLC
- Hull Support Services Ltd
- Huta Marine Works Ltd
- HydroDive Nigeria Ltd
- HydroDive Offshore International Ltd
- Impresub Diving & Marine Contractor
- IKM Subsea AS
- Impresub International LLC
- Inspecta International Co LLC
- Inspectahire Instrument Co Ltd
- Integrated Subsea Engineering & Services LLC
- Integrated Subsea Services AP Pte Ltd
- Integrated Subsea Services Ltd
- International Grout Operations Private Ltd
- International Marine Works – Alexandria
- International Naval Works – Abu Dhabi

Intertug SA
 IOTA-Survey
 IRSHAD
 Island Offshore Management AS
 Jack-Up Barge BV
 James Fisher & Sons plc
 Jan De Nul nv
 Japaul Oil & Maritime Services plc
 Jeruzeth International Engineering Co Ltd
 Jifmar Offshore Services
 Jumbo Offshore VoF
 KD Marine Ltd
 Khalifa A Algosaibi 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
 LD Travocean
 Legacy Offshore LLC
 Leighton Contractors Pty Ltd
 Leighton Offshore Pte Ltd
 LLP FSDS
 Louisiana Overseas Inc
 Maersk Drilling
 Maersk Supply Service
 Maridive & Oil Services
 Maridive & Oil Services (SAE)
 Maridive Offshore Projects
 Marine Consulting
 Marine Platforms Ltd
 Maritime & Underwater Security Consultants
 Maritime Asset Security and Training Ltd
 Master Tech Diving Services
 Middle East Navigation Aids Service
 Mermaid Marine Australia Ltd
 Mermaid Offshore Services Ltd
 Miclyn Express Offshore Pte Ltd
 MMT (Marin Mätteknik AB)
 Mohn Drilling AS
 Mutawa Marine Works Est
 Namibia Subtech Diving and Marine (Pty) Ltd
 National Marine Dredging Co
 National Petroleum Construction Co. Survey
 NDE – Nordic Dive Enterprise
 Neptune
 Neptune Survey Expedition ehf
 Newcruz Offshore Marine Pte Ltd
 Nexans Norway AS – Energy Division
 Nippon Steel Engineering Co Ltd
 NIWA Vessel Management Ltd
 NoelDive Pte Ltd)
 Noordhoek Survey BV
 NorSkand Offshore Ltda
 Northern Marine Management Ltd
 Ocean Installer
 Ocean Technologies Geomatics Sdn Bhd
 Ocean Works Asia Inc.
 Oceaneering International (UK)
 Oceaneering International Asia Pacific
 Oceaneering International Inc.
 Oceaneering Marine Prod. Systems do Brasil
 OceanWorks International Inc
 Octomar
 Odebrecht Oil & Gas
 Odjell Drilling
 Offshore Geo-Surveys Sdn Bhd
 Offshore Manpower SA
 Offshore Marine Management Ltd
 Offshore Marine Services Pty Ltd
 Offshore Oil Engineering Co. Ltd (COOEC)
 Offshore Subsea Works Sdn Bhd
 Offshore Technology Solutions Ltd
 Olympic Shipping AS
 Orogenic GeoExpro Sdn Bhd
 OSM Offshore AS
 Overseas AST Co LLC
 P&O Maritime Services Ltd
 P&O Maritime Services Pty Ltd
 Pacific Crest Pte Ltd
 Pacific Drilling Services Inc
 Pacific Richfield Marine Pte Ltd
 PBJV Group Sdn Bhd
 Pearl River Offshore Limited
 Pelican Offshore Services Pte Ltd
 Petroleum Marine Services Company
 PFCE Ocean Engineering Sdn Bhd
 Phoenix International
 PRONAV Ship Management GmbH & Co KG
 Prosafe Offshore Ltd
 PT Advanced Offshore Services

PT Bahtera Niaga Internasional
 PT Ekanuri Indra Pratama
 PT Lancar Rejeki Berkas Jaya
 PT Offshore Services Indonesia
 PT Patra Dinamika
 PT Prima Mitranata
 PT Samudera Biru Nusantara
 PT Wintermar
 Queiroz Galvão Óleo e Gás
 Rana Diving spa
 RBG Ltd
 RED7MARINE Ltd
 Reef Subsea
 REM Offshore ASA
 Rolv Berg Drive AS
 Romona Inc
 RRC Robótica Submarina SA
 Rubicon Offshore International Pte Ltd
 RWVE OLC GmbH
 Sahara Petroleum Company
 SAL Shipping
 Sapura Diving Services Sdn Bhd
 SapuraAcergy Sdn Bhd
 Sarku Engineering Services Sdn Bhd
 SAROST SA
 SB Submarine Systems Ltd
 SBM Offshore NV
 SC Shark SRL
 Scaldis Salvage & Marine Contractors NV
 Sea Trucks Group – Asia-Pacific
 Sea Trucks Group – Europe & Africa
 Sea Trucks Group FZE
 Seabed AS
 Seacor Marine (International) Ltd
 Seacor Offshore Dubai LLC
 Seadrill Americas Inc
 Seadrill Management AS
 SeaHold GeoShips Ltd
 Seahorse Services Co Ltd
 Sealion Shipping Ltd
 SEAMEC
 Searov Offshore
 Seascope Surveys Pte Ltd
 Seatrans AS
 Seatrax Singapore Pte Ltd
 Seaway Heavy Lifting Engineering BV
 Seaways International LLC
 Seaworks Ltd
 Sevan Drilling Pte Ltd
 Shanye Marine Services Co Ltd
 Siem Offshore AS
 Simon Mølkster 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 Offshore Asia Pacific Ltd
 Solstad Offshore Ltda
 Solstad Shipping AS
 Songa Offshore SE
 Specialist Subsea Services Ltd
 Stapem Offshore SA
 Stena Drilling Limited
 Strukton Afzinkteknieken BV
 Subsea 7 Singapore Contracting Pte. Ltd
 Subsea Petroleum Services
 Subsea Robotics Services Pte Ltd
 Subtech (Pty) Ltd
 Subtech Qatar Diving and Marine Svcs LLC
 Supreme Hydro Engineering Pvt Ltd
 SURF Subsea Inc
 Switzer
 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 Contractors
 Timsah Shipbuilding Company
 TL Geohydrographics Sdn Bhd
 Topaz Marine
 Topaz Marine – Azerbaijan
 Topaz Marine – Kazakhstan
 Topaz Marine MENA
 Total Marine Technology Pty Ltd

Transocean
 Transoceanic Cable Ship Company Inc.
 Trico Marine Group – Europe & Africa
 Troms Offshore AS
 TSMarine Pty Ltd
 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.
 VShips Ltd
 Van Oord Offshore BV
 Varun Shipping Company Ltd
 Vector Offshore Ltd
 Veolia Environmental Services Special Svcs
 Visser & Smit Marine Contracting bv
 Vroon Offshore Services BV
 VTT Maritime
 Wagenborg Offshore BV
 Waha Maritime
 Wilhelmssen 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
 ABB Pte 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
 Analox Sensor Technology Ltd
 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
 Deep Down Inc.
 Divetechnoservice Ltd
 Divex Asia Pacific
 Divex FZE
 Divex Ltd
 Dominion Gas
 Dominion Gas Asia Pacific Pte Ltd
 Dräger Safety
 Drass Energy
 Eastar Offshore Pte Ltd
 Emphor FZCO
 Fincantieri Cantieri Navali Italiani spa
 Franklin Offshore International Pte Ltd
 Fugro GRL
 Global Gases Australia Pty Ltd
 Global Gases Group FZCO
 Global Gases Group Singapore Pte Ltd
 Global Gases South Africa (Pty) Ltd
 GMC Ltd
 Great Offshore Ltd
 Greatship Subsea Solutions (Australia & AP)
 Guidance Navigation Ltd
 Huse Engineering AS
 Hydrasun
 IHC Hytech BV
 Intron Plus
 IXSEA
 Joint-Stock Company 'Oceanos'
 Joint-Stock Company Tetis Pro
 JW Automarine
 Kenz Figuee BV
 Kirby Morgan Dive Systems
 Kongsberg Maritime AS
 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
 Molecular Products Ltd
 Nautronix Ltd
 Navis Engineering OY
 NSW Technology Ltd
 Oceanscan Ltd
 Pacific Commercial Diving Supply Pty Ltd
 Pacific Crest Pte Ltd
 Perry Slingsby Systems Inc.
 Perry Slingsby Systems Ltd
 Pommec TDE BV
 Promserv Offshore
 Redaelli Tecna spa
 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, Inc.
 Sea and Land Technologies Pte Ltd
 Sea Trucks Group FZE
 Seaflex Ltd
 Sealion Shipping Ltd
 Seanetics Asia Works Pte Ltd
 Seaswift Subsea Engineering LLC
 Seatools BV
 Serimax Ltd
 Siem Offshore AS
 Singapore Oxygen Air Liquide Pte Ltd
 Skan-EI 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
 TGH AP Pte Ltd
 The Tritanium Company bv
 Totalmat Indústria e comercio de Equipamentos Hiperbáricos Ltda
 Trelleborg Protective Products AB
 Trico Marine Group – Europe & Africa
 Trim Systems Pte Ltd
 TSMarine Pty 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
 Acteone 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
 ASP Rope Access
 Auto Dynamic Positioning Services Ltd
 Babcock International Group Marine & Technology Division
 Bahrain Ship Repairing and Engineering Co
 Blade Offshore Services Ltd
 Blue Water Engineering (M) Sdn Bhd
 BOATLABS AS
 Braemar Falconer
 Bruce Offshore Ltd
 C-MAR Group
 CAPE Group Pte Ltd
 Cescor srl

Consortium Underwater Engineers Ltd
Construction Specialists Ltd
Cosalt
Deep Diving Consultancy Ltd (DDC Ltd)
Deep Down Inc.
Delta Marine Technologies Inc
Derrick Services (UK) Ltd
Derrick Services (UK) Pte Ltd
Divetechservice Ltd
Diving and Offshore Works Consultancy
DMC Offshore
DOF UK Ltd
DRC Dive Systems
Dynamic Surveys
Echelon Claims Consultants Ltd
Egyptian Company for Oil Services (ECOS)
Emirates Industrial Laboratory
ETPM Ltd
Explorer Marine SBoSS ApS
Fearnley Offshore Supply
Fender & Spill Response Services
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 & NA
GL Noble Denton – Middle East & India
GL Noble Denton – South America
Global Maritime
Global Maritime Singapore
GMC Ltd
GW & Associates Ltd
Hill International (UK) Limited
Houlder Insurance Services Ltd
Hydrasun
IHC Offshore & Marine BV
Imes Ltd
Inchcape Shipping Services
Inchcape Shipping Services – South America
Independent Marine & Eng Consultants
Independent Risk Solutions BV
Inter Mar Technology Ltd
InterMoor Marine Services Ltd
Interocean Marine Services Ltd
Italian Maritime Academy Technologies
JSL International (Trinidad) Ltd
K2 Specialist Services Pte Ltd
KB Associates Pte Ltd
KDU Worldwide Technical Services (FZC)
Kennedy Marr Ltd
Kestrel Maritime Asia Pte Ltd
Lexmar Engineering Pte Ltd
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
Modular Underwater Systems 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
International
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
Positioning Ltd
Primo Marine
PRO Marine Solutions Pvt Ltd
PT Rigspek Perkasa
PT Sirius Maritimindo Services
QinetiQ
Reel Group Ltd
Rolls-Royce Power Engineering plc
Romona Inc
Saturation Services LLC
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
Solstad Offshore 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
Thome 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
Wartsila Electrical & Automation Services
Wavespec Ltd
Westcon Power & Automation AS
Xing Wei Pte Ltd

Personnel agencies

Ace Diving Services CC
Alfa Petroleum Services
Atlas Seistech
Atlas Services Group Australia Pty 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
Hydrosud Ltd
IOS (International Offshore Services)
Lerus Ltd
Maritech Group
Naurex Resources
Nautech Services Ltd
Offshore Marine Services UK Ltd
OilExec International
Oilfield Medics UK Ltd
OSM Crew Management Aberdeen Ltd
Petrolis
Pharos Offshore Group Ltd
PR Offshore Services Ltd
ROVIN Marine Ltd
Saturation Services LLC
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

Training establishments

Abyss AS
AdriaMare Maritime Training Center
Advanced Offshore Training Centre Pvt. Ltd
Ålesund University College
AMC Search Ltd
ASET International 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
Bonifacio Srl
BS Divers
Centre for Marine Simulation
Centre Meditteranean de Plongée
Professionnelle (CMPP)
CFO – Centro Formazione Offshore
Code Blue Nurses London Pty Ltd

Commercial Diving Academy
Daniels Maritime Group
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 Nutech 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
i-UTech
IDESS Maritime Centre (Subic) Inc.
Institut National de Plongée Professionnelle
Interdive Services Limited
ISFORM
KBA Training Centre Pte Ltd
Kirby Morgan Dive Systems
Marine Solutions (Pty) Ltd
Maritech Group
Maritime Institute Willem Barentsz
Maritime State Uni. named after G.I. Nevelskoy
Maritime Training & Competence Sol. 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 Technical Training and Certification
Joint Stock Company
Satakunta University of Applied Sciences
SBS Intl Ltd
SEADOG
Seahorse Services Co Ltd
Seahorse Services Co. Ltd – Training
Seneca College – Underwater Skills Program
Ship Manoeuvring Simulator Centre AS
Skilltrade BV
SMTC Global Inc.
Sogn og Fjordane Tech. Coll., Maritime Dep't Måløy
STC-Group
Stord/Haugesund University College
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
WA Maritime Training Centre – Fremantle
YAK Diving Academy

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
Azerbaijan International Operating Company
Bahamas Maritime Authority
Bapco – The Bahrain Petroleum Company
BG Americas and Global LNG – C & NA
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 Company Sdn Bhd
Cairn Energy India Pty Ltd
Chevron Brasil Petroleo Ltda
Chevron Energy Technology Co. Subsea
Chevron Nigeria/Mid-Africa
Chevron Shipping Co.
Chevron Thailand Exploration & Prod. Ltd
CNR International UK Ltd
ConocoPhillips
ConocoPhillips (UK) Ltd
ConocoPhillips China
Dana Petroleum Netherlands BV
Dana Petroleum plc
Department of Labour (South Africa)
Det Norske Oljeselskap ASA
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 North Sea Ltd
Maersk Oil Qatar AS
Marathon Oil Norge AS
Mobil North Sea LLC
Murphy Sarawak Oil Co. Ltd
National Offshore Petroleum Safety Auth.
Nautilus Minerals
Nederlandse Aardolie Maatschappij BV
Newfield Peninsular Malaysia, Inc
Nexen Petroleum UK Ltd
Noble Energy
Offshore Operators Committee (OOC)
OGP
Oil & Natural Gas Corporation Ltd
Perenco UK Ltd
Petrobras
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
Sarawak Shell Berhad
Shell International Exploration & Prod. by
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 Indonesia
Total E&P Nederland BV
Total E&P UK Ltd
Total Exploration & Production
Wintershall Noordzee BV
Woodside Energy Ltd
Zakum Development Company (ZADCO)

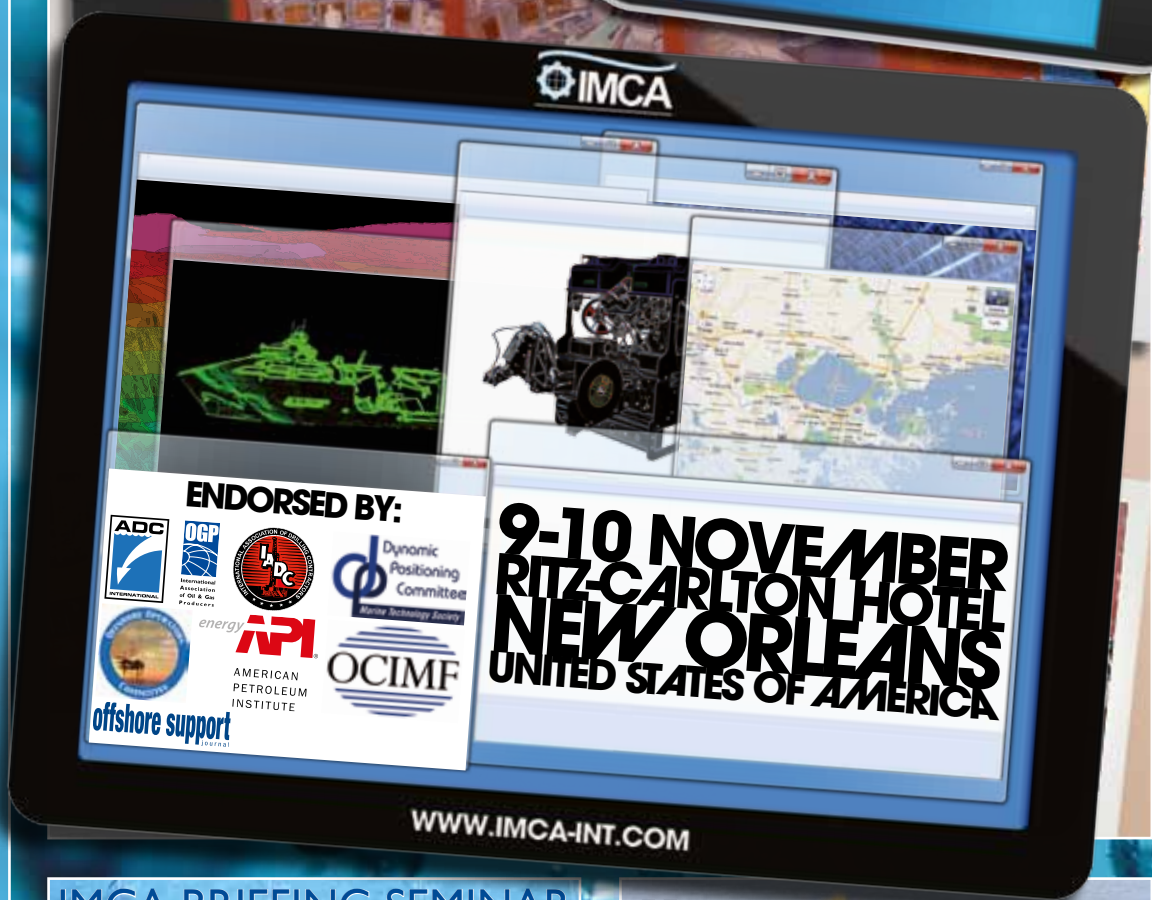


FORTHCOMING EVENTS

- 6-8 September 2011
Offshore Europe 2011
Aberdeen, UK
- 7 September 2011
Europe & Africa Section
Aberdeen, UK
- 8 September 2011
Central & North America Section
Houston, USA
- 8 September 2011
Competence Workshop
Houston, USA
- 12 September 2011
Vessel Assurance Workshop
Aberdeen, UK
- 19-20 September 2011
Marine Operations Supporting
Offshore Wind Conference
London, UK
- 20 September 2011
Asia-Pacific Section
Kuala Lumpur, Malaysia
- 20-22 September 2011
Rio Pipeline Conference & Exposition
Rio de Janeiro, Brazil
- 21 September 2011
South America Section
Rio de Janeiro, Brazil
- 3-5 October 2011
Seatrade Middle East Workboats
Abu Dhabi, UAE
- 4 October 2011
Middle East & India Section
Abu Dhabi, UAE
- 6 October 2011
Briefing Seminar
Baku, Azerbaijan
- 11-12 October 2011
Dynamic Positioning Conference
Houston, USA
- 11-13 October 2011
Deep Offshore Technology Int.
New Orleans, USA
- 8 November 2011
Central & North America Section
New Orleans, USA
- 9-10 November 2011
*The future of marine and subsea
operations*
IMCA Annual Seminar
New Orleans, USA

For full details on all events,
please visit our website:
www.imca-int.com/events

ANNUAL SEMINAR 2011



IMCA BRIEFING SEMINAR

Introducing IMCA, its role,
activities and membership



Thursday 6 October
Hyatt Hotel, Baku, Azerbaijan

Vessel Assurance Workshop



Monday 12 September
Trinity Hall, Aberdeen, UK