

FOCUS ON COMPETENCE



Reports from our workshops in Singapore and Aberdeen

COMPETENT



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IMCA



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CORE



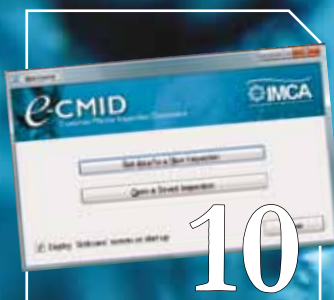
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REGIONAL



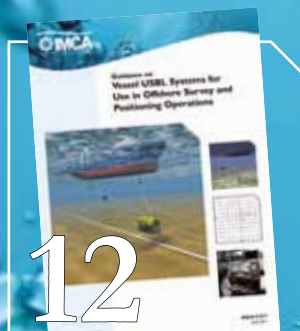
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EVENTS

From the President

Andy Woolgar, Subsea 7
IMCA President 2011



IMCA is a multi-faceted trade association. It covers a wide membership of all types of companies, all around the world, dealing with all forms of marine construction. I would like to remark on some apparently disparate events and draw together a few separate threads.

Several new members have joined, and amongst them are the International Association of Oil & Gas Producers (OGP) – our second reciprocal membership with a parallel organisation – and a large international oil company that, plus one other, brings the Corresponding membership to 79. We have worked with these two companies on several matters for some time, so it is a pleasure to see they are both now in membership.

The IMCA social season is now upon us and I attended a great event on the HQS Wellington in London. A report features in this issue, as does one from the annual golf day. The midsummer ball is just around the corner, too.

IMCA is well known for its technical guidelines, but the Association has also just launched some new contracts materials: an international marine construction contract and contracting principles for general and more specific decommissioning work. I recognise that a lot of hard work goes into creating such documents by those who are prepared to debate and find elegant wording that satisfies all parties, whilst sticking to the required fundamentals.

So in three seemingly disparate events where is the common thread? IMCA aims to provide members with a common language to use where appropriate. If that language is to be understood it is important that IMCA is recognised. This in turn means we need to raise our profile in all the relevant arenas. Increased membership improves the capacity for spreading the word and visibility of IMCA, in this case through two very relevant, big, widespread, international organisations becoming members. Providing social opportunities for members to meet is a conduit to better dialogue when members can relax and take their engineering/commercial hats off and get to know one another on a social plane. Many's the time that I have discovered important common ground at such occasions! Lastly, the published word – in this case on contracts – provides the common language that we can share.

Through these means, IMCA endeavours to deliver some of its objectives:

- ◆ to strive for the highest possible standards with a balance of risk and cost in health and safety, technology, quality and efficiency, and environmental awareness and protection;
- ◆ to achieve equitable contracting regimes;
- ◆ to resolve industry issues;
- ◆ to promote co-operation across the industry.

Nina Adams Retires

Nina was IMCA's longest serving member of staff when she retired at the end of March 2011. At one stage she was the only member of the support staff carrying out all our roles, but by the end of her time at IMCA she was one of 12 support staff and specialised in publications sales. She has served three Chief Executives since her association with AODC in June 1991 and transfer to IMCA employment in the late 90s. Nina had spent some of her career in French speaking countries before settling back in the UK and was IMCA's linguist when French was required. IMCA and the staff clubbed together to give her a resounding send off and some gifts to start her retirement. We owe her a great debt of gratitude and wish her every happiness. Michelle Salway has since taken over Nina's role as Publications Sales Co-ordinator. HW

New Staff Member



Kayleigh joined IMCA in March 2011 as our Receptionist & Office Administrator. She assists the Support Services team in various administrative tasks – in particular publications sales – as well as being the first point of contact on the telephone and for visitors. KG

New IMCA Contracts Materials

IMCA has launched three new documents:

- ♦ IMCA Marine Construction Contract;
- ♦ IMCA General Contracting Principles Rev. 1;
- ♦ IMCA Decommissioning Contracting Principles.

These are available from our website:

www.imca-int.com/core/contracts

The *IMCA Marine Construction Contract* is a new, worldwide standard contract for use by any party as appropriate.

The revision of the *IMCA General Marine Contracting Principles* is an update of the existing document and adds a new principle: number 16 on Extraordinary Risk.

The *IMCA Decommissioning Contracting Principles* are based on the General Principles, but cover the different aspects appropriate to a decommissioning project.

We are indebted to the hard work of members of the IMCA Contracts & Insurance Workgroup who drafted these documents. In the normal way, IMCA does not make the use of these documents mandatory in any way, but we hope you will find them useful and, as ever, we would be pleased to receive any feedback. HW



OTC 2011

IMCA was a supporter of the Offshore Technology Conference, which took place from 2-5 May 2011 at Reliant Park in Houston, USA. 2,520 companies from 40 countries were exhibiting, including 39 members of IMCA. Attendance at the 2011 OTC reached a 29-year high of 78,150, up 8% from last year, as offshore energy industry experts from around the world came together at the world's largest event for offshore resources development. IMCA always seeks to promote good practice guidance and a variety of guidance materials were available for members on the IMCA stand. KC

Another Great IMCA Golf Day!



IMCA's annual golf day was attended by a record 88 people who filled Newmachar golf course for the shotgun start, stableford competition. Despite a rotten forecast, good weather blessed our event again, with only a short sharp hail storm on the last hole. The event's second ever hole-in-one was delivered in classic style, with Mike Clark of Subsea 7 (playing as a guest in the Nautronix team) achieving the ultimate golfer's dream on the par 3, 197 yard, 15th hole.

This year's winner of the IMCA Quaich was Ali Macaskil of Fugro with 39 stableford points. The team winners were Reel with 125 stableford points and were awarded the Poseidon Maritime Challenge Trophy by GL Noble Denton, who also sponsored the golf balls this year. HW

Wellington Reception

IMCA's annual social reception on the HQS Wellington attracted a record attendance of nearly 200 people. This year the event was held on the after-deck so guests could enjoy the open air of a beautiful evening and the river views. As it followed the launch of the new contractual materials (see page 3) there were many attendees with legal and insurance backgrounds. These professions are two vital contributors to safe and efficient projects and our members interact with many such organisations in London, making this event especially relevant. HW

SPE Offshore Europe 2011

IMCA is again a supporting organisation for SPE Offshore Europe 2011 – taking place at the Aberdeen Exhibition Centre, UK, from 6-8 September 2011. The conference and exhibition attract a global audience of engineers, technical specialists, industry leaders and experts to share ideas and debate the issues of the moment in the upstream industry. The event is multi-faceted and reflects the E&P community's desire for continuous learning, showcasing the innovation, solutions and tools required to compete in an accelerating technology race in an increasingly complex business.

IMCA will be exhibiting on stand ID64 in Hall 1 and we would be pleased to see members there.

Register for your free delegate badge at <http://www.offshore-europe.co.uk/>

HW



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A Tale of Two Workshops

Singapore

The *Encouraging Competence* workshop was held on 11 May in Singapore. Around 115 people attended the mixture of formal presentations and round table discussions. Andy Bolton chaired the event on behalf of IMCA's Asia-Pacific section, which included presentations on the IMCA competence framework, the use of simulators in training and competence assessment, and two on assessment verification and administration – the first on roles and responsibilities and the second on how to develop a suitable scheme for your company. The round table discussions focused on three main areas: firstly, how an effective competence scheme can be developed; secondly, the role of training and simulators in competence assessment; thirdly, how technology can be used in implementing competence schemes.

In summarising the day's proceedings, Andy Bolton identified the following points:

- ◆ There wasn't a one size fits all process for competence schemes, with each company needing to develop a process that suited their needs. Experience could be gained from companies who had developed schemes and from service providers;
- ◆ A number of presenters had emphasised the need to have in place adequately trained assessors and verifiers;
- ◆ There was a need to communicate properly the benefits to offshore personnel when rolling out a competence scheme and to get their buy-in.
- ◆ Time for implementation – it needed to be recognised that successful implementation of a company scheme would take time to achieve. JB



Aberdeen

At the end of March around 100 people gathered at the Hilton Aberdeen Treetops Hotel for the competence workshop *Working Together*. This event, introduced by Steve Shepherd – Chairman of the Competence & Training Committee – was a mix of thought-provoking presentations and round table discussions.

The presentations included a legal view on what needs to be in place to defend a prosecution following an accident, competence from a personnel agency's perspective, the transferability/portability of competence, using e-portfolios to administer competence, the use of technology and simulators in competence assurance, an oil company's approach to competence of their personnel and a drilling contractor's approach to competence assurance.

The round table discussions tackled a number of topics and questions:

- ◆ How do we ensure that agency personnel are included in competence assessments?
- ◆ Do we need common approaches to competence schemes?
- ◆ The value of e-learning, technical advances in learning/ competence assessment and use of simulators;
- ◆ The value of competence – why are/aren't people buying into competence?
- ◆ What can we learn from others, what can we do differently?



The day concluded with the Chairman giving a summary of the day's proceedings and identifying actions that IMCA should take forward, which included reviewing other associations' accreditation

systems, developing further materials, continuing to try to get the message across and considerations within the renewables sector. JG

core activities

New Safety Posters

IMCA has recently published a series of four new posters covering behavioural aspects of safety. According to members' findings more than half of all incidents have one of four behaviours as an immediate cause. These behaviours are: not looking where you're going; getting into the line of fire; improper use of tools and equipment; and failing to keep three points of contact on ladders and stairs. Using the same humorous style as the previous IMCA safety posters, these are easy to understand and are intended for use primarily on offshore vessels and installations. They are available to members as a free download, and include room for members to include their own corporate identity as required. The posters can also be purchased from IMCA in the usual way. NH



Safety Stats

The report on IMCA members' safety statistics for 2010 is being finalised. IMCA has received data from 172 contractor members that, given the ongoing growth of the association, represents over half of the contractor membership. The safety statistics exercise is an important benchmarking tool providing an accurate picture of safety performance in our industry.

IMCA is grateful to all those who have contributed but encourages even greater participation in future years.

Last year IMCA successfully published two information notes with safety stats. The first was a brief high impact summary of the statistics, outlining the key facts. The second was a more detailed and longer appendix with much more information. We will continue in the same way this year.

Prep for the STCW Amendments

Major amendments to the International Maritime Organization (IMO) International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (the STCW Convention and Code) are due to take effect on 1 January 2012.

The changes include:

- ◆ New work hour regulations, which will apply to all STCW personnel and not just watchkeepers;
- ◆ Extra security training requirements, including new basic security training for all seafarers;
- ◆ New training and certification standards for electrotechnical officers (ETOs), which will apply to ETOs serving in the marine crew;
- ◆ Additional requirements for refresher training as part of the five year STCW revalidation;
- ◆ New guidance on the training and experience of dynamic positioning operators (DPOs).

There will be a five year transitional arrangement for existing seafarers, but the new requirements will apply for new seafarers from 1 January 2012. Companies should look into whether they need to adjust their training and competence requirements for marine personnel. EC



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core activities

The preliminary results indicate that this year there has been a slight rise in the overall total recordable injury rate (TRIR) from 2.53 in 2009 to 2.94 last year, and a slight rise in the overall lost time injury frequency rate (LTIFR) from 0.67 in 2009 to 0.73 last year. Of the 393 lost time injuries recorded by IMCA members in 2010, 27% were caused by being 'struck by moving or falling objects', 22% by 'falls on the same level', and 12% were categorised as 'struck against'. NH

Other SEL Initiatives

The SEL Core Committee has developed a busy work programme, and the chairman is working closely with the secretariat to facilitate the completion of important items in as timely a way as possible. Information notes being developed include one covering resources for dropped object prevention and one on permit to work. An Offshore Safety Adviser's logbook is being drafted in co-operation

with the Competence & Training Core Committee. The Committee is looking at developing guidance in a range of areas, including occupational health, safety in shipyards, and emergency response/crisis management. A DVD on confined space entry has been proposed and a workgroup will be taking this forward shortly. NH

Step Change Safety Share Fair

IMCA will be taking part in the Step Change Safety Share Fair taking place at Pittodrie Stadium in Aberdeen on 22 June. In the past this has been a tremendous opportunity to bring IMCA safety promotional materials to a wider audience. NH

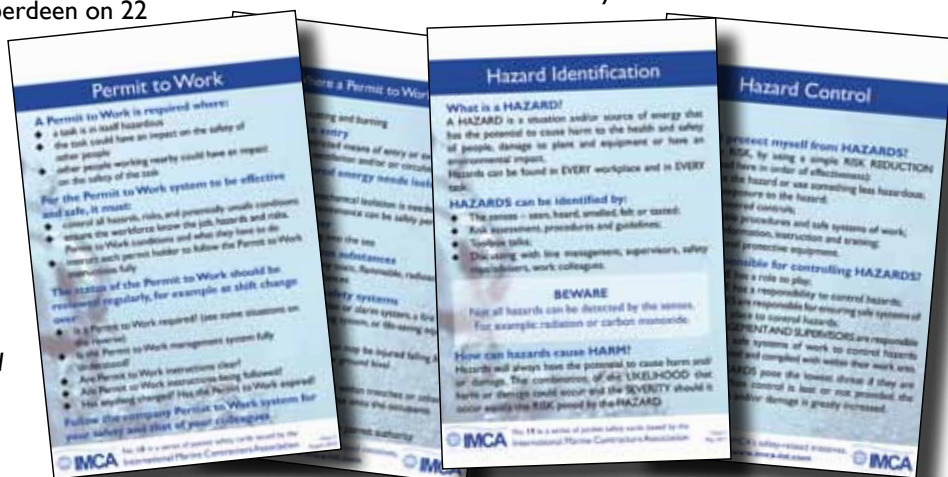
New Pocket Safety Cards

Two further pocket cards have been added to the growing collection of IMCA pocket safety cards. The eighteenth card, covering the subject of permit to work, was published earlier this year. This card provides brief information on what a permit to work is and outlines some of the scenarios in which a permit to work might be necessary. Card no. 19, which is being printed at the time of writing, covers hazard identification and hazard control. The card provides guidance on how to identify hazards and on

some of the ways to protect ourselves from them.

Both cards, like the posters, are available in electronic format for free download, and include room for members to include their own corporate identity as required. They can also be purchased in the usual way from IMCA publications.

Further pocket cards are being developed, including one covering the symptoms of fatigue and how to identify and address them, and another covering safety coaching, which are currently being prepared by the committee. NH



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regional news

Asia-Pacific

At the recent section meeting held in Singapore, Andy Bolton announced that he was retiring and would be standing down as chairman of IMCA's Asia-Pacific section. The section was started in June 1999 when Andy took on the role of Vice-Chairman. Two years later he became section Chairman and held the position for ten years. The inaugural meeting was attended by 16 members, and over the years the number of members attending meetings has risen considerably to a record attendance of 102 people at the latest section meeting held on 12 May in Singapore. Andy's enthusiasm, drive and energy have been fundamental in helping the section grow and attendances at the meetings are a testament to this. Our thanks go to Andy and we wish him well in his retirement. The Asia-Pacific section meeting took place the day after the competence workshop. The meeting, attended by more than a 100 members and guests, included presentations on a mooring capstan failure incident and a new anti snap back mooring rope. The workshop on hyperbaric evacuation created discussions that will feed into the work of the newly formed HES workgroup. The points from the DPO training workshop will be fed into discussions with the Nautical Institute with regards to its DPO training scheme.

IMCA continues to follow developments at NOPSA and AMSA, including the AMSA review of its OSV regulations and the new NOSP requirements for the lifting capacity of lifeboat systems on vessels with safety cases. The NOPSA assumption for the average weight of a person in a lifeboat is higher than the latest IMO limits, and NOPSA is urging vessel operators to mitigate this increased lifting capacity to as low as reasonably practicable (ALARP) by retrofitting larger capacity lifeboats or by reducing the number of personnel on board.

South America

The section met in rooms beside Copacabana Beach, Rio de Janeiro, Brazil on 24 May. Training and competence are high on the local agenda – an area where IMCA can provide a variety of materials. Local dialogue is focused on recognition within Brazil of international qualifications and competence. The section is preparing a joint strategy towards hosting IMCA's safety seminar in Rio de Janeiro in early 2012, and is looking to partner with local organisations to promote the event.



Middle East & India

The section held its latest meeting in Jebel Ali, UAE in March, followed by a briefing session in Mumbai, India, a couple of days later. The well attended briefing seminar focused on marine and diving operations with presentations on the IMCA Common Marine Inspection Document (CMID), the CMID database and vessel assurance, annual DP trials and dive system auditing. These were followed by a lively Q&A session.

The next section meeting will take place on 13 June in Jebel Ali, UAE, followed by a briefing session in Baku, Azerbaijan on 15 June – the first time that IMCA has held a meeting there. The briefing event is open to IMCA members and invited guests, and is aimed at introducing the Association and its activities to an even wider audience of clients, contractors, suppliers and regulatory representatives – potential members and organisations who could benefit from IMCA's work.

Europe & Africa

The next section meeting will take place in conjunction with SPE Offshore Europe 2011 in Aberdeen in September. The focus of a recent section meeting was on renewable energy and as a result IMCA is setting up a renewables workgroup. Draft terms of reference have been developed and anyone interested in being involved should contact Paul.Bayliss@imca-int.com

The European Commission has been conducting a review of drilling regulations in EU member states, including looking into the possibility of an EU-wide drilling safety regime. Concrete legislative proposals are expected before the first half of 2011.

Central & North America

The section met on 26 May at the JW Marriott Hotel, Houston. There was a presentation about the Offshore Operators Committee (OOC). The requirements of the new Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE) and Safety and Environmental Management Systems (SEMS) were also discussed. Contractors will have to demonstrate that their health and safety practices support the operators' SEMS programmes, including ensuring that personnel have the skills and knowledge to perform their assigned duties. OOC is taking forward some of the post Macondo actions and IMCA will be working with them on this.



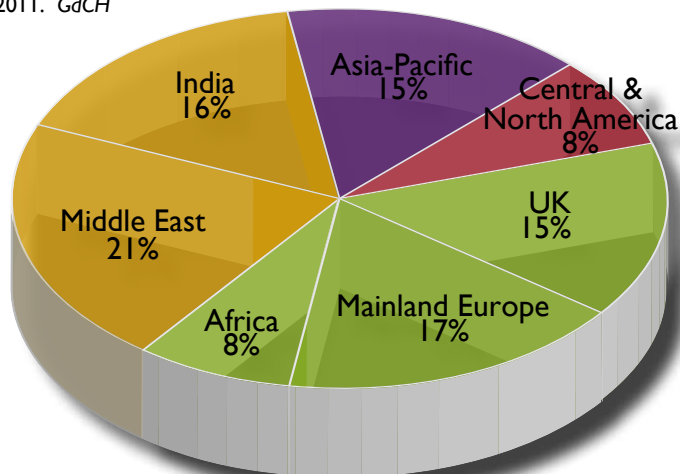
Certification Scheme Update

2010 proved to be another healthy year for IMCA's Certification Scheme with some 418 applicants approved for examination.

During the year a total of 199 newly appointed IMCA personnel joined the offshore industry as follows: 98 Air Diving Supervisors, 41 Bell Diving Supervisors and 60 Life Support Technicians.

Company sponsored applications arrived from the regional sections as shown in the pie chart below.

We are currently on course to top last year's figures, with 197 applications received and 82 IMCA personnel certified between 1 January and 30 April 2011. *GdCH*



Hyperbaric Evacuation

A workgroup has been set up to consider hyperbaric evacuation on a global basis, splitting the work into five main topic areas:

Assessment. The development of a risk assessment model for hyperbaric evacuation that will drive the support infrastructure,

equipment and resource requirements.

Technical. Equipment specification and performance standards.

Operations. Operational control and resources to support hyperbaric evacuation systems.

Medical. Survivability key factors, monitoring and controls.

Standards. Establishing technical interface standards for flanges etc.

Update of AODC 049

As part of a phased review and replacement of AODC guidance documents, IMCA through the Safety, Medical, Technical and Training sub-committee of the Diving Division Management Committee has started to update the Code of practice for the use of high pressure water jetting equipment by divers (AODC 049).

The document, originally published in 1988, is likely to be expanded from its current 10 pages and will include up to date high & ultra-high pressure water jetting equipment, techniques and risk assessment.

Recent worldwide safety alerts and concerns will also be studied and incorporated into the guidance as appropriate. *PE*

Anyone wishing to participate in the work should contact Jane.Bugler@imca-int.com. The aim is to develop proposals on how hyperbaric evacuation systems can be implemented effectively. *JB*

2010 Stats

In the past IMCA, and its predecessor AODC, has published annual diving and ROV personnel statistics for the North Sea area (Denmark, the Netherlands, Norway and the UK). Although the figures only present a snapshot, they have nevertheless been highly indicative when looking at trends and other factors. For 2009 it was felt that extending the statistics to cover the entire world would be a useful indicator for trends in the offshore diving industry. This approach was repeated in the 2010 exercise and IMCA has received information from 43

diving contractor members this year, indicating that a peak of close to 3,500 diving personnel were employed offshore world-wide by IMCA members during 2010. The figures indicate that globally there was a reduction in available work, possibly due to the economic environment. Compared with last year's figures, published as IMCA D 07/10, air diving operations exceeded saturation diving by approximately 50%. With regard to regional overviews, 2010 saw a trend reversal in the Europe & Africa section, with air diving exceeding saturation diving. The Middle East & India section remained unchanged from 2009 as being the region with the highest number of air divers. Statistics from Central & South America increased in 2010 due to a larger sample, with 6 companies responding and indicating that saturation diving was favoured over air diving. *KC*

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All-Energy 2011 Exhibition & Conference

The 11th annual All-Energy Exhibition and Conference was held in Aberdeen at the AECC on 18-19 May. The showcase for renewable energy sectors attracted over 580 exhibitors and 8,000 visitors.

As more IMCA members become involved in renewable energy projects, and following IMCA's successful workshop last year, it was decided to reform the renewable energy workgroup. The group intends to cover a range of issues involving marine construction for the renewable energy sector, including safety, legislation, technical issues and guidance. If you are interested in the workgroup or would like more details please contact Paul.Bayliss@imca-int.com

IMO Update

New lifeboat hook requirements

IMO has finally adopted new design requirements for on-load release hooks for lifeboats, which will apply to hooks fitted on ships constructed from 1 July 2014. Non-compliant hooks on existing vessels must be replaced or modified by 1 July 2019. This is an important step forward, but does not address all the shipping industry concerns. Shipping industry organisations, including IMCA, have therefore developed supplementary guidance on the selection of replacement hooks, which recommends considering hook designs that incorporate a permanent secondary safety system, such as a locking pin.

Special Purpose Ships (SPS) Code

IMO has provisionally agreed unified interpretations on the 2008 SPS Code, which would limit the application of some of the more problematic passenger ship requirements (including the safe return

to port requirements that have been causing particular problems) to larger SPS Code vessels only. Due to timings, the interpretations will not be formally approved until May 2012, but they should help clarify the requirements.

Piracy

IMO has been continuing efforts to combat piracy off the coast of Somalia. In addition to increasing pressure at the political level, IMO has, in response to industry requests, produced interim guidance on the use of privately contracted armed security personnel on board vessels in the high risk area. This is not intended to endorse the use of armed guards and ships transiting the high risk areas should always apply the best management practices and protective measures as a first resort.

Enclosed spaces

IMCA has been participating in the review of the IMO recommendations for enclosed space entry. The revised recommendations, including separate guidance on tank entry for tankers using nitrogen as an inerting

medium, have now been finalised and will be available from the IMCA secretariat on request.

New energy efficiency rules

In July, IMO is expected to agree new energy efficiency requirements for ships, which will take effect in January 2013. The requirement for an energy efficiency design index (EEDI) will initially only apply to conventional ship types, so offshore support vessels will be excluded for the time being, but all ships will be required to carry a ship energy efficiency management plan (SEEMP) setting out ship specific measures for improving operational energy efficiency.

New lifting appliance regulations

IMO has agreed to look into new design and construction requirements for lifting appliances and winches. This could have an impact on lifting appliances on offshore vessels, so IMCA will be keeping a close eye on the direction of this work. EC

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Revision of the CMID and Database

The CMID report, database and eCMID have recently been revised and so version eight has been launched. The revision took account of feedback from members and others and the CMID database workshops. A number of corrections, modifications and improvements have been made. Amongst these are:

- ◆ Rewording or limiting options on questions where not applicable (NA) and not seen (NS) are inappropriate responses and raise the need for a comment, for example: *Does the vessel have a helideck?, If the Master has been promoted within the last 12 months, did he/she receive appropriate pre-command training? and Is there an asbestos management system or an asbestos free certificate?* You will notice that the last question has also
- ◆ been changed to improve clarity;
- ◆ Photographs can now be added to the answers of certain questions in order to illustrate further;
- ◆ The section on security has been revised significantly;
- ◆ An internal quality assurance process may be carried out on a completed report enabling it to be reviewed by another person within the company;
- ◆ The crew matrix can be completed by the vessel owner/operator. For confidentiality the names column has been removed. The suggested approach is listing personnel as Master 1, Master 2, Chief Engineer 1, Chief Engineer 2, etc., enabling the inspector to do a spot check;
- ◆ Finding a vessel has been improved with the owners, operators and their vessels listed alphabetically. An indication of an available CMID is also given;
- ◆ The inspecting company logo and a photograph of

the vessel may now be added to the report cover.

It is intended that IMCA will continue to review and revise the CMID annually.

The statistics for the CMID database as of early May are:

Operators	155
Operator/Clients	105
Clients	116
Inspection Companies	270
Industry Organisations	15
Total	661
Users	1110
Vessels	401
CMID Reports	91

IMCA will publish guidance on completing the CMID inspection report, including the electronic version, to replace IMCA M 167 – *Guidance on use of the Common Marine Inspection Document* and a revised IMCA M 189 – *Marine Inspection Checklist for Small Workboats* which is in a CMID-style electronic format. IMCA will also be producing a newsletter for users of the CMID database.

We encourage vessel owners and operators to enter their vessels' details on the database and those commissioning CMID inspection reports to utilise

the eCMID and the database. IG



Underwater Ship Husbandry

IMCA's Marine Division Management Committee is finalising new guidance providing advice on the selection of appropriate diving contractors to undertake underwater ship husbandry, and on the health and safety requirements for the management, planning, supervision and execution of the work. The guidance covers diving in support of the work carried out offshore, inshore or in a harbour, criteria for the selection of the diving contractor and the roles and responsibilities of everyone involved in the work – personnel, equipment and dive planning – and emergency and contingency plans. JB



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MLC Implications

The International Labour Organization (ILO) Maritime Labour Convention (MLC, 2006) is likely to present a number of challenges for the offshore sector.

Some of the main issues are:

- ◆ Application to offshore project personnel. The Convention applies to anyone whose main place of work is on board, so it is likely to cover large numbers of project personnel on board offshore construction support vessels, not just the marine crew;
- ◆ Employment arrangements. The MLC assumes that everyone on board is employed by the shipowner, and makes them responsible for ensuring the employment conditions for all personnel on board meet the MLC standards;
- ◆ Regulation of manning agencies. The MLC also introduces new licensing requirements for crewing

agencies, which will apply to all companies supplying personnel covered by the Convention, not just agencies providing marine crews.

An IMCA workgroup is looking into potential problems for marine contractors to try to come up with common solutions to suggest to flag states. The MLC is expected to be in force by the end of 2012, so members are encouraged to start thinking about how the MLC will impact their in-house procedures.

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

New Guidance

The use of microwave radar position reference within the DP system has increased significantly in recent years. IMCA has been keeping a watch on this with a view to publishing guidance. In the meantime one manufacturer, Guidance Navigation, was asked by clients to produce guidance on their system,

RadaScan, in conjunction with IMCA.

Guidance Navigation was able to provide comprehensive guidance on the system and IMCA has added members' operational experience. This new document, IMCA M 209 – *RadaScan Microwave Radar Sensor for Dynamic Positioning Operations* – has now been published.

Work has begun on the development of guidelines for the RADius system, manufactured by Kongsberg. The same process is being used, with Kongsberg providing guidance and IMCA adding members' experience. It is hoped to publish this document in the near future. IG



Offshore Survey Documents

Mobilisation Checklist for Offshore Survey Operations

The Committee has developed a short checklist to assist members in covering mobilisations for offshore operations. The document seeks to provide a standard framework for a checklist, and the intent is that it can be used by the contractors themselves and presented to a client, or used by the client acting separately. It should act as a prompt to ensure the equipment, personnel and procedures are fit for purpose, able to do the work and ready to deliver the operation to the satisfaction of all parties. It should help to ensure that there are no unpleasant surprises, which could mean potentially costly delays in mobilisation, and help to deliver safe and efficient operations. IMCA S 016 – *Mobilisation checklist for offshore survey operations* – is available for free download from the members-only




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Guidance on Vessel USBL Systems for Use in Offshore Survey and Positioning Operations

IMCA S 017 has now been published. Recent technical advances have led to a significant increase in the capability, performance and accuracy of USBL-based acoustic positioning solutions, resulting in an increase in their use offshore. High performance vessel USBL systems have become a critical part in meeting the demanding technical and contractual requirements in offshore operations. The objectives of this document are to discuss the issues affecting USBL system performance and those associated with the installation, configuration and documentation of systems on offshore vessels involved in subsea positioning. It is intended for use by offshore construction, survey and inspection companies when chartering third party vessels with USBL system(s) already installed, when commissioning

new USBL installations on newbuild or existing vessels, or when maintaining existing systems.

Guidance on the Selection of Satellite Positioning Systems for Offshore Applications

Typical applications for global navigation satellite system (GNSS) technology include positioning of top-side assets, fixed installations and subsea structures. This technology has been available for over twenty years and, as availability and reliability have improved, GNSS has become the preferred and primary method of surface positioning. IMCA S 018 has been prepared to provide guidance to members involved in the specification and commissioning of DGNSS. It includes information on the operational and safety aspects of GNSS selection and provides an understanding of some key criteria to be considered in the selection process – including GNSS, vessel class requirements, vessel activities, performance expectations, regional variations in atmospheric

conditions and contractual obligations.

Other Documents

Several other documents are being drafted at the moment. A document on subsea metrology, covering the main technologies in use, is being reviewed by the Committee and a workgroup has nearly completed guidance on safe management of data during offshore survey operations. During 2011 workgroups will take forward the development of documents on inertial navigation systems and also on the calibration of the various sensors used in operations. Additionally, the Committee is working on a number of information notes, including one on the safe handling and use of lithium batteries, and one revising some of the

Offshore Survey Division factsheets. *NH*

ROV Installation Guidelines

The work on the ROV installation guidelines is well under way. A small drafting group has been put together with the task of completing the technical aspects of the document. It is intended to be a guide for installing ROV systems onto a vessel or a platform. It will be useful to all ROV contactors but will also serve as a guide to vessel/platform designers, allowing them to consider all aspects of ROV installation. *PB*

Umbilical or Tether Problems?

It has previously been identified by the ROV Committee that members have encountered numerous failures and problems with ROV umbilicals and tethers. As part of the ROV Committee work programme a report form is under development, which will capture failure and problem issues. The data will be used to create a historical trend of issues that can be used for corrective actions. If you have any concerns regarding the failure and problems encountered with ROV umbilicals and tethers please contact Paul.Bayliss@imca-int.com

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SPOTLIGHT ON GIORGIO MARTELLI

Giorgio Martelli is Country Manager for Brazil with Saipem and serves as Chairman of the South America Section of IMCA. 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 the region.

Please tell us about your company and what it does

Saipem is one of the world's largest integrated contractors within the energy industry. It operates through most of the value chain: from drilling to production operation; from basic engineering to commissioning and decommissioning; from shales to renewables. It is organised under two large business units: drilling and engineering & construction, which both span onshore and offshore activities.



Saipem

“ We are dealing with a very high level of activity. ”

What is your current job?

I am the General Manager for Saipem do Brasil, and Country Manager for Brazil. Here we are currently dealing with a very high level of commercial activity in all sectors, in addition to some operational projects in the sectors of onshore drilling, FPSO operations and SURF construction.

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

It took a lot of aeroplanes! Seriously, I have had the chance with Saipem to experience different roles on different continents and this has contributed greatly to the skills needed to work

in this complicated industry. I studied as a mechanical engineer and naval architect and this is where I started, moving on through project management and then commercial. Learning to work in different countries with diverse cultures is a great bonus.

“ It is a frantic rush to rebuild, reactivate and retrain. ”

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

The key issue that I believe has affected this industry from the beginning is its inconsistency; the cycles of Boom and Bust. Nowhere in the world is it more evident than here in Brazil. There was a flourishing oil (and related ship-building) industry in the 80s, which collapsed and took capabilities and resources with it. Now with the Pre-Salt layer it is a frantic rush to rebuild, reactivate, and retrain, which does not help

efficiency and the costs to us as contractors.

How can these issues be taken forward?

As we are unable to control the price of oil, we could at least try to mitigate the effects it has on the contracting chain. With support from oil and gas producers we could make better use of long term contracts, or even encourage vertical integration of supply chains. In a similar way the Japanese car manufacturing industry builds the client-supplier relationship on long term custom, mutual trust and continuous quality improvement. Some of these elements already exist in Brazil, although their mixture, with a dated contracting style, tends to create more friction than harmony.

“ We could make better use of long term contracts. ”

How do you think IMCA could make a difference?

There are two ways that I see IMCA making a difference in Brazil. The first is with its integrated and common approach to contracting principles. The recent issue of a set of standard terms and conditions could be a positive contribution to a dialogue with the Brazilian producers. Secondly, IMCA could help in raising the awareness and standards of indigenous contractors in their wish to work beyond national borders and Petrobras.

“ We will have to adapt to new economic scenarios. ”

How do you see the future?

In the short term I do not see any great changes in the general picture of our industry. In the long run we all know that we will have to adapt to new local and global economic scenarios and to new sources of energy.



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makingwaves

The views expressed on these pages are those of their
respective authors and do not necessarily reflect the
policies or positions of IMCA itself.
Editing, design and artwork: Andy Butler

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.

The below summary of recent IMCA documentation keeps all members updated on activities throughout IMCA.

If you would like a copy of any document, or for further information, please contact the secretariat.

NEW PUBLICATIONS

- ◆ **Marine Construction Contract**
- ◆ **General Contracting Principles, Rev. 1**
- ◆ **Decommissioning Contracting Principles**
- ◆ **RadaScan microwave radar sensor for dynamic positioning operations** (IMCA M 209)
- ◆ **Mobilisation checklist for offshore survey operations** (IMCA S 016)
- ◆ **Guidance on vessel USBL systems for use in offshore survey and positioning operations** (IMCA S 017)
- ◆ **Guidance on the selection of satellite positioning systems for offshore applications** (IMCA S 018)

SAFETY PROMOTIONAL MATERIALS

- ◆ **Look where you are going** (IMCA SPP 07)
- ◆ **Use tools and equipment properly** (IMCA SPP 08)
- ◆ **Watch out for pinch points** (IMCA SPP 09)
- ◆ **Take care on the stairs** (IMCA SPP 10)
- ◆ **Hazard identification** (IMCA SPC 19)

SAFETY FLASHES

- ◆ **Safety flash 02/11** – covering three incidents: Kirby Morgan SL 17C partially detached from neck dam; Serious hand injury during use of deck scale; Service bulletin
- ◆ **Safety flash 03/11** – covering three incidents: Failure of hydraulic fitting at pressure; Crane motion reference unit (MRU) malfunctions after overheating; Fake emergency escape breathing devices (EEBD sets)
- ◆ **Safety flash 04/11** – covering three incidents: Crane boom dropped object; Low pressure mud hose parted; hot work conducted within the 500 metres safety zone

INFORMATION NOTES

COMPETENCE & TRAINING

IMCA C&T C 05/11 Competence validity periods
06/11 The Nautical Institute dynamic positioning operator certificates

SAFETY, ENVIRONMENT & LEGISLATION

IMCA SEL 05/11 Dropped object prevention –
www.dropsonline.org

DIVING DIVISION

IMCA D 03/11 Whip Checks
04/11 Divers' Gas Supply

MARINE DIVISION

IMCA M 07/11 The Nautical Institute dynamic positioning operator certificates

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 Tech. Director:	Jane Bugler
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Marine:	Joar Gangenes, Subsea 7 Ian Mitchell, Technip	Europe & Africa:	Alan Allred, Aker Marine Contractors
Survey:	Pete Somner, Technip Pete Fougere, Transocean	Middle East & India:	Bruce Gresham, Heerema Marine Contractors
ROV:	Will Primavesi, Specialist Subsea Services	South America:	Wim de Boer, Heerema Marine Contractors
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	Neil Milne, Subsea 7		Roy Donaldson, Topaz Marine
	Espen Ingebreetsen, Oceaneering International		Guy Odell, Fugro Survey
			Giorgio Martelli, Saipem
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	David Moxey, Northern Marine Management
	David Foster, Saipem
	Lynn Elder, Subsea 7
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	George Robertson, Fugro
	Frank Klein, Oceaneering International
	Paul Gleisner, Schilling Robotics
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South America:	Paulo Correia, Subsea 7

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Middle East & India:	Brian Stewart, Fugro Survey
South America:	Wayne Betts, Oceaneering International

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- ◆ **Archirodon Group NV**
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Hyperbaric Technology BV is now
IHC Hytech BV
Noordhoek Offshore BV is now
Noordhoek Survey BV
Promarine Ltd is now
Petrofac Marines Services
Tristein Engineering & Survey AS is now
Tristein AS
Vassnes MB Consultants AS is now
Westcon Power & Automation AS

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Technip

CONTRACTORS

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Dalgidj Private Company
Damas Oil & Marine Services Ltd
DCN Diving BV
DCN Global LLC
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
ER Offshore GmbH & Cie. KG
Fairmount Marine bv
Far Eastern Shipping Company
Farstad Shipping ASA
Five Oceans Services GmbH
Fugro Brasil Serv. Sub. 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) Pte 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
GeoLab Limited Abu Dhabi
GeoLab srl
GEOTeam srl
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
IDMC srl
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 Marine Works – Alexandria
 International Naval Works – Abu Dhabi
 IOTA-Survey
 IRSHAD
 Island Offshore Management AS
 Jack-Up Barge BV
 James Fisher & Sons plc
 Jan De Nul nv
 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
 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
 MENAS
 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 Company (NPCC) 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
 NOR Offshore Ltd
 NorScan Offshore Ltda
 Northern Marine Management Ltd
 Ocean Works Asia Inc.
 Oceaneering International (UK)
 Oceaneering International Asia Pacific
 Oceaneering International Inc.
 Oceaneering Marine Prod. Systems do Brasil
 OceanWorks International Inc
 Octomar
 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
 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
 Petra Resources Sdn Bhd
 Petroleum Marine Services Company
 PFCE Ocean Engineering Sdn Bhd
 Phoenix International
 Pride International
 PRONAV Ship Mgment GmbH & Co KG
 Prosafe Offshore Ltd
 PT Advanced Offshore Services
 PT Bahtera Niaga Internasional
 PT Calmarine

PT Ekanuri Indra Pratama
 PT Lancar Rejeki Berkat Jaya
 PT Offshore Services Indonesia
 PT Patra Dinamika
 PT Prima Mitranata
 PT Samudera Biru Nusantara
 PT Wintermar
 PW Group
 Rana Diving spa
 RBG Ltd
 Reef Subsea
 REM Offshore ASA
 Rolv Berg Drive AS
 Romona Inc
 ROV Service di Rocco Fabio
 Rubicon Offshore International Pte Ltd
 RWE OLC GmbH
 Sahara Petroleum Company
 SAL Shipping
 Sapura Diving Services 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
 Seahorse Services Co Ltd
 Sealion Shipping Ltd
 SEAMEC – South East Asia Marine Engineering & Construction
 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 Møkster Shipping AS
 SMIT
 SMIT Subsea Africa
 SMIT Subsea Asia-Pacific
 SMIT Subsea Europe
 SMIT Subsea Middle East LLC
 Solstad Offshore Ltda
 Solstad Shipping AS
 Songa Offshore SE
 Specialist Subsea Services Ltd
 Stapem Offshore SA
 Stena Drilling Limited
 Strukton Afzinktechnieken 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
 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 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 – Asia-Pacific
 Trico Marine Group – Central & N America
 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.
 V.Ships Ltd
 Van Oord Offshore BV
 Varun Shipping Company Ltd
 Vector Offshore Ltd
 Veolia Environmental Services Special Serv.
 Visser & Smit Marine Contracting bv
 Vroon Offshore Services BV
 VTT Maritime
 Wagenborg Offshore BV
 Waha Maritime
 Wilhelmsen Ship Management (Norway) AS
 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
 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
 D&R Boats Pte Ltd
 Deep Down Inc.
 Divetechservice 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 & Chemicals FZCO (Dubai)
 Global Gases Australia Pty Ltd
 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
 Hydratight Ltd
 IHC Hytech BV
 Intron Plus
 IXSEA
 Joint-Stock Company 'Oceanos'
 Joint-Stock Company Tetis Pro
 JW Automarine
 Kenz Fiege 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
 Offshore Logistics (Asia Pacific) Pte Ltd
 Pacific Commercial Diving Supply Pty Ltd
 Pacific Crest Pte Ltd
 Perry Slingsby Systems Inc.
 Perry Slingsby Systems Ltd
 Pommec TDE BV
 Proserv Offshore
 PT Advanced Oil & Gas Consulting
 Redaelli Tecna spa
 Rolls-Royce Marine AS
 Rolls-Royce Oy Ab
 Rolv Berg Drive AS
 Rovasco Asia Pte Ltd
 RRC Robótica Submarina Ltda
 Saab Seayee 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
 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
 TeleMedic Systems Ltd
 TGH AP Pte Ltd
 The Tritanium Company bv
 Totalmat Ind. e com. de Equip. 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 Oil Company (Unico)
 Vanguard Offshore Pte Ltd
 Velocious Pty Ltd
 Vroon Offshore Services Ltd

Suppliers of services

Abermed Ltd
 Acteon Angola Limitada
 Advanced Marine
 Advanced Offshore Contractors Pvt 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
 Babcock Int'l Group Marine & Tech. Division
 Bahrain Ship Repairing and Engineering Co.
 Blade Offshore Services Ltd
 Blue Water Engineering (M) Sdn Bhd
 Bluewater Energy Consultants Ltd
 Braemar Falconer
 Bruce Offshore Ltd
 C-MAR Group
 CAPE Group Pte Ltd
 Cescor srl
 Consortium Underwater Engineers Ltd
 Construction Specialists Ltd

Cosalt
Creative Offshore Yard Pvt Ltd
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
Fearney 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 & N America
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 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
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
MJR Controls Ltd
Modular Underwater Systems Ltd
MOS Marine Offshore Services Pte Ltd
MS Consultants Pte Ltd
National Hyperbaric Centre
Nautronix Ltd
Navigare International Inc.
NUI AS
ODS-Petrodata Pte Ltd
Offshore Commissioning Solutions
Offshore Tech. Management Solutions Int'l
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 Advanced Oil & Gas Consulting
PT Rigspøk Perksa
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.
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
Tigritrans SA
Tristein AS
Underwater Technology Services (S) Pte Ltd
United Oil Company (Unico)
V.Ships Ltd
Veripos
Verret Marine Services
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
Advanced Offshore Contractors Pvt Ltd
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
Flare Project Services LLC
Hydrosud Ltd
IOS (International Offshore Services)
Lerus Ltd
Maritech Group
MJD (North East) Ltd
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
Tigritrans SA
Total Marine Services
UKPS Offshore
Underwater Engineering Ltd

Training establishments

Aberdeen Skills & Enterprise Training Ltd
Abyss AS
AdriaMare Maritime Training Center
Advanced Offshore Training Centre Pvt. Ltd
Alesund University College
AMC Search Ltd
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
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
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
Hydratight Ltd
Hydro Oil & Gas Training
Hydrolab-HydroCAT
i-UTech
IDESS Maritime Centre (Subic) Inc.
Institut National de Plongée Professionnelle
Interdive Services Limited
ISFORM
KB Americas LLC
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 & Comp. Solutions Ltd
Marseille Maritime Academy
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
Offshore Marine Academy Ltd
Offshore Skills Training Centre (OSTRAC)
Pan Arab E-Navigation DP Training Center
Perry Slingsby Systems Inc.
PetroVietnam Manpower Training College
PNI Training Centre AS
Polaris Learning Ltd
Power & Generation Services
Professional Diving Academy
Professional Diving Centre
PT Barron International
PT ISBI
PVD Tech.Training and Cert. Joint Stock Co.
RRC Robótica Submarina Ltda
Satakunta University of Applied Sciences
SBS Intl Ltd
SEADOG
Seahorse Services Co Ltd
Seneca College – Underwater Skills Program
Ship Manoeuvring Simulator Centre AS
Skilltrade BV
SMTC Global Inc.
Sogn og Fjordane Tech. College, Maritime Dept Måløy
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

Abu Dhabi Marine Operating Company
Agip Kazakhstan North Caspian Op. Co. NV
AISI
Azerbaijan International Operating Company
Bahamas Maritime Authority
Bapco - The Bahrain Petroleum Company
BG Americas and Global LNG – C&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 Company Sdn Bhd
Cairn Energy India Pty Ltd
Chevron Brasil Petroleo Ltda
Chevron Energy Technology Company
Subsea
Chevron Nigeria/Mid-Africa
Chevron Shipping Co.
Chevron Thailand Exploration & Production 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
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
Mobil North Sea Ltd
Murphy Sarawak Oil Co. Ltd
National Offshore Petroleum Safety Authority
Nautilus Minerals
Nederlandse Aardolie Maatschappij BV
Newfield Peninsular Malaysia, Inc
Nexen Petroleum UK Ltd
Noble Energy
Oil & Natural Gas Corporation Ltd
OGP
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
Sarawak Shell Berhad
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 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

- 8-9 June 2011
European DP Conference 2011
London, UK
- 10 June 2011
IMCA Midsummer Charity Ball
Aberdeen, UK
- 13 June 2011
Middle East & India Section
Jebel Ali Shooting Club, UAE
- 15 June 2011
IMCA Briefing Seminar
Baku, Azerbaijan
- 6-8 September 2011
Offshore Europe 2011
Aberdeen, UK
- 20 September 2011
Asia-Pacific Section
Kuala Lumpur, Malaysia
- 3-5 October 2011
Seatrade Middle East Workboats
Abu Dhabi, UAE
- 6 October 2011
IMCA Briefing Seminar
TBA, India
- 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

IMCA ANNUAL SEMINAR 2011 THE FUTURE OF MARINE & SUBSEA OPERATIONS 9-10 NOVEMBER NEW ORLEANS UNITED STATES OF AMERICA

KEYNOTE PRESENTATIONS

PLENARY SESSIONS

MARINE, DIVING & OFFSHORE SURVEY/ROV SESSIONS

WORKSHOPS FOR EACH SECTOR

EXHIBITION OF SUPPLIER MEMBERS' PRODUCTS

SOCIAL EVENTS

NETWORKING OPPORTUNITIES

booking to open during July
www.imca-int.com/events

IMCA BRIEFING SEMINAR

Introducing IMCA, its role, activities and membership



Wednesday 15 June 2011 – Park Inn, Baku, Azerbaijan