



IMCA SETS **TARGETS** FOR 2014



C&T 2014 ACTION PLAN AND EVENTS

UPDATES TO KEY IMCA PUBLICATIONS

SPOTLIGHT ON ASHUTOSH CHAUDHARY



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IMCA



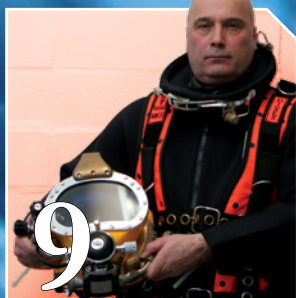
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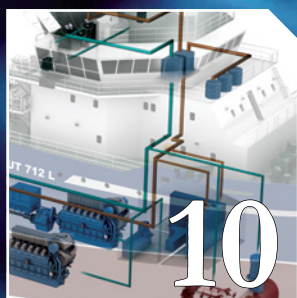
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From the
President

*Massimo Fontolan, Saipem
IMCA President 2014*

“CHANGES ARE ALREADY TAKING PLACE, TO ALLOW US TO DELIVER AGAINST THESE TARGETS”

In the last message I reported on the aspirations we have been developing for change, as a result of the 2013 review of our 5 year plan for a Vision and Strategy. In this message I will talk in a bit more detail about some of the changes which are already taking place, to allow us to deliver against these targets.

Firstly, it should be said that IMCA has had a very successful year from a financial and statistical point of view. As a result the secretariat team can now grow, which is necessary in order to deliver more and better services, in turn made necessary by the constantly evolving environment offshore across the globe.

The primary changes we are delivering are in response to a desire for the membership structure to be more representative of the demographics of the members. In this regard I revealed the plans for a new membership category to include contractors, not necessarily of ICO stature or scale, but with significant international standing, representing an important body with a strong voice inside IMCA. These vital members (part of IMCA's future) should have their needs, issues and concerns raised at Council level by means of an elected representative.

Currently the secretariat is looking at ways to objectively define this next level of membership. Criteria such as turnover, geographical representation, number of employees, fleet size, active contribution to IMCA and the like are being compiled, to ensure that the new level of membership is fully inclusive and representative. As part of this process it is recognised that one of the existing ICOs has, due to a change in business profile,



evolved into an organisation that no longer fits the original ICO criteria. Accordingly, we are looking across the membership base to see if there is a contractor who does meet that criteria, and would be willing to join the ICO membership category.

There is an ongoing drive for globalisation of the organisation and we are looking to establish IMCA representation in Houston and Singapore in a cost effective manner, allowing us to provide more support and representation in these important geographical areas and membership hubs.

In addition to a new contractor membership category, we recognise that IMCA can further involve the member base, across all the categories, to make us a better integrated and more cohesive Association. In 2014 OMC will therefore look at proposals with the objective of creating a more integrated membership platform. We will provide a conceptual outline, looking into and defining how the various member elements could work together to add more value for: the sector; stakeholders; all our members; and the Association. As IMCA members are involved from design to decommissioning, we should have a desire for all in that community to have a voice. The goal of becoming a more inclusive collective should allow us to strengthen that voice, and to also have it recognised on a regional and global scale.

Last but not least, I have expressed the desire to build and develop an IMCA foundation, providing educational and training support/opportunities for underprivileged or disadvantaged children across the globe. This concept continues to evolve, and it seems that the most efficient

and expedient way to deliver this would be by utilising an existing charitable organisation (within the subsea space) to set up, look after and manage an IMCA Global Education Foundation to which money, donations and gifts can be channelled, in order to provide offshore career opportunities for those children who have the greatest need.

Some amongst you may have noticed subtle changes to the look and style of our documents, most evident perhaps in the membership certificates for 2014. These have deliberately been redesigned, to emphasise the professional nature of IMCA membership. We have opted for 'class and clarity', which better reflect our values.

The June edition of Making Waves will also be different, as we implement the feedback received from members in a recent survey, delving into the look of the magazine, its style, editorial content, advertising, and the way that we distribute it. Again, we are aiming for a more serious and professional look.

I am planning to report back on achievements against our ambitions at the annual seminar this year, and know that the secretariat has already started collecting and collating the data and information needed to measure performance against the objectives set out in our Vision and Strategy.

It is important we ensure our goals are being met, whilst recognising that, as the Association continues to develop and grow, so does our industry and our needs. We must keep applying the 'lessons learnt' principle and trying to make ourselves future proof.



OFFSHORE RENEWABLE SEMINAR

Following the Europe & Africa Section meeting in Hamburg on Thursday 28 November 2013, IMCA held a well received half-day seminar on offshore renewables. There were eight short presentations on a variety of topics relating to offshore renewables, followed by a constructive workshop session and Q&A.

The day was a huge success and included talks on the CMID (Common Marine Inspection Document) for small workboats, aspects of operations and logistics for offshore wind farms (which contrasted the logistics requirements of typical offshore wind farms with comparable offshore oilfield construction),

an update on tidal renewable developments, and a presentation on international guidance on minimum safety standards for offshore wind farm vessels.

After lunch, members heard a short update on the G9 focal group for offshore wind health and safety, followed by presentations on maritime operations and logistics of offshore wind farm construction, the effect of the Maritime Labour Convention on offshore support vessel operations, and a brief background to annual DP trials for offshore wind farm installation vessels. *NH*

IMCA DIVING CERTIFICATION SCHEME

2013 was a busy year for IMCA's diving certification team as they dealt with 348 exam applications. Of the 348 applicants from diving contractor companies around the world, 212 candidates successfully passed their exams in and became certified as IMCA diving supervisors and Life Support Technicians (LSTs).

There was also a surge in ADAS, DCBC and NDC

supervisors seeking IMCA legislation endorsements to supplement their previous IMCA recognised certification.

We continue to find and secure exam venues and invigilators in locations that best suit our candidates and their sponsoring companies, and to date we have organised IMCA exams in 42 countries. *GdCH*

The breakdown of newly issued certificates in 2013 was as follows:

109

Air Diving Supervisor

49

Bell Diving Supervisor

54

Life Support Technician



IMCA STAFF CHANGES

We would like to welcome Natasha Simmonds who joined us in December as Documents Administrator, and who will also be providing administrative support to Chris Charman and Jane Bugler.

In other staff news, our membership department is now so busy that we need an extra staff member to help with the workload. Michelle Salway will be moving over from publication sales to assist Michelle Killington in membership (hopefully our members won't get too confused with two Michelles!).

Kayleigh Glasscock, our receptionist, will take over from Michelle Salway in publications. This leaves our receptionist role open for which we are now recruiting.

We may also be recruiting a temporary member of staff to assist in membership when Michelle Killington goes on maternity leave early in the summer. Here's to another IMCA baby!

So, lots of staff changes in the support team, but we will continue to provide our members with as great a service as ever. *KG*

core activities

C&T ACTION PLAN 2014

Following the launch of the IMCA Vision and Strategy, the Competence & Training Core Committee is in the process of finalising an action plan to underpin and deliver the elements of the strategy relevant to the Committee's work and remit.

Drafts of the action plan were reviewed by the C&T and Overall Management Committee members towards the end of 2013 and now, following collation of the feedback, a revised draft is intended to be approved shortly. *NE*

2014 C&T EVENTS

Following the success in 2013, IMCA will be holding a series of one day Competence Seminars through 2014, addressing (amongst other hot topics) industry skills shortages, demonstration of the competence of freelance and contract personnel and issues faced in the audit of competence management systems. The provisional calendar is listed below.

A programme will be distributed and registration opened soon for the Aberdeen event, with details of the subsequent events to follow. *NE*

23 April

Hilton Treetops Hotel
Aberdeen, UK

16 May

Venue TBC
Buzios, Brazil

10 June

Jebel Ali Golf Resort and Spa
Dubai, UAE

Date TBC

Venue TBC
Singapore

SAFETY FLASHES

IMCA safety flashes are an important tool for sharing vital information. They help members around the world identify potential hazards, share lessons learnt and avoid repetition.

HOW DOES IT WORK?

All submissions are handled in the strictest confidence, with information anonymised, carefully checked, and published only by permission of the originator. Safety flashes should be short, specific, factually correct and written in clear language.

Safety incidents received by IMCA are reviewed by a technical adviser, and a draft "IMCA version" is prepared for review by the originator. The incident will not be published until the originator signals clearly that it should be.

We remain aware that it is sometimes necessary for members to take legal advice before sharing incident information, and we would stress that published safety flashes are always completely anonymous. IMCA encourages members to continue to share information about incidents, hazards and lessons learnt, as far as is reasonably practical.

WHAT TO INCLUDE

A safety flash should provide sufficient detail to communicate risks, precautions and necessary actions effectively without releasing information about the people or organisations involved. In effect:

- What happened?
- Why?
- What were the causes of the incident?
- What is being done to prevent recurrence?
- What are the lessons learnt?

HOW TO CONTRIBUTE

Any member can submit material for a safety flash to incidentreports@imca-int.com. For further information, please contact nick.hough@imca-int.com.

core activities



NEW DVD & POSTERS

The SEL Core Committee continues to develop safety promotional material tailored to the specific needs of IMCA members.

At present, work is continuing on a number of items, including a DVD on confined spaces (nearly complete), a poster on confined spaces (which is based broadly on the script of the DVD) and further pocket cards.

We hope to publish pocket cards during 2014 on occupational health issues and on safe handling of Naturally Occurring Radioactive Materials (NORM). Additionally, the SEL Core Committee is investigating new styles and graphics to make the cards and posters more up to date and user friendly.

Contact nick.hough@imca-int.com for further information.

SAFETY AND ENVIRONMENTAL STATISTICS

Each year IMCA produces an authoritative report of safety statistics supplied by contractor members, covering fatalities and injuries. These statistics remain a useful insight into the performance of a company and industry sector in the areas of health, safety and environment, and the purpose of them is to record the safety performance of IMCA contractor members each year and to enable IMCA members to benchmark their performance.

Each year we email the SEL representatives of each contractor member, inviting the submission of statistics on an easy to use Excel template. IMCA contractor members are asked to send information from which the usual lagging indicators (TRIR, LTIFR and FAR) can be calculated, as well as information for calculating the usual IMCA leading indicators.

This year will be the second year we have collected data on environmental indicators, including oil spills, bunkers used, electricity used onshore, and waste disposed of, in addition to the more usual lagging and leading indicator data. All information received is treated in the strictest confidence.

Members are encouraged to submit their data before the end of Q1 so that we can prepare the final report in a timely manner. If you have any concerns or questions regarding the IMCA safety statistics programme, please contact nick.hough@imca-int.com

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core activities

IMO UPDATE

OFFSHORE TRAINING STANDARDS

IMO has adopted revised training recommendations for personnel on mobile offshore units. The previous guidance (IMO Resolution A.891(21)) has been replaced by Resolution A.1079(28), which incorporates the relevant STCW amendments, such as the new environmental awareness and security training. The IMO recommendations form the basis of industry guidance on the training of non-marine personnel on offshore vessels, including IMCA SEL 007.

OSV CHEMICAL CODE

At a meeting in February, IMO continued the drafting of the new OSV Chemical Code for offshore support vessels transporting drilling muds and brines and other bulk liquid chemicals, which will replace the A.673 (LHNS) guidelines. Work will continue throughout 2014, and the next step is to agree the new product limits and which cargoes can be carried.



POLAR CODE

IMO has been developing a mandatory Code for ships operating in polar waters. The Code will replace the existing polar guidelines, and will address everything from design and construction, to training, equipment and operational requirements, to take account of the specific risks of operating in polar waters. Ships intending to operate in the defined waters of the Antarctic and Arctic will be required to apply for a Polar Ship Certificate and carry a Polar Water Operational Manual. The draft Code is due to be approved later this year.

BALLAST WATER

Although it has yet to enter into force, the IMO Ballast Water Management Convention contains fixed application dates from 2009, so to ease implementation IMO has agreed to relax the deadlines for ships constructed before the Convention takes effect. Those ships will now have until their first renewal survey following the date of entry into force to comply with the new requirements.

OFFSHORE VESSEL STANDARDS

In January, IMO continued its discussions on wind farm vessel standards and

whether non-passenger ships should be permitted to carry larger numbers of industrial personnel to their place of work offshore. IMO developed a draft definition of 'industrial personnel', and a workgroup will develop guidance on how that definition can be used in practice. It will also finalise the wind farm vessel guidelines, for further discussion in early 2015.

INTACT STABILITY

IMO has been developing stability criteria and operational guidance for vessels engaged in towing, anchor handling and lifting operations. The work is being finalised by a workgroup, which will consider the lifting proposals, including loss of load criteria in particular, with a view to adoption in 2015.

For more information on IMO issues, please contact emily.comyn@imca-int.com



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regional news

ASIA-PACIFIC

As *Making Waves* goes to print the Asia-Pacific Section meeting is taking place in Kuala Lumpur on 27 February. Barbara de Roo, Chairman of IMCA's Contracts & Insurance Workgroup (of Heerema Marine Contractors), will give a presentation on IMCA's contracting principles.

The afternoon will be rounded off with workshop discussion sessions on the provision of breathing gas to divers and proposed IMCA guidance on fibre ropes.

• NOPSEMA

Some time ago the Australian National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) and IMCA agreed that it would be useful to hold bi-annual meetings to facilitate a focused discussion between members and the regulator on specific legislative topics. The objective of the meetings is for the dissemination of general advice on achieving regulatory compliance and communication and sharing of industry best practices to promote safety and environmental responsibility. IMCA and NOPSEMA are planning to arrange a meeting in April.

CENTRAL & NORTH AMERICA

The most recent Central & North America Section meeting took place on 3 December in Houston. Following an IMCA technical and core update and a brief report on the IMCA Vision and Strategy, Kelly McClelland of the Offshore Inspection Group gave an interesting update on the work of the NOSAC Diving Safety SubCommittee. Phil Miller of Subsea 7 provided a topical update on SEMS, and Eric Roan of the Center for Offshore Safety gave a well-received presentation on the same subject. The next meeting takes place at the Westin Memorial City in Houston on Tuesday 18 March, the day before the IMCA safety and environment seminar.

• SEMS

At the end of 2013 IMCA responded to the US Coast Guard's proposals for a SEMS requirement for vessels. The coast guard

will now consider all the comments received, but in the meantime a NOSAC Sub-Committee has been set up to provide further input on SEMS / safety management issues for offshore vessels. IMCA has also been participating in the NOSAC Diving Safety SubCommittee reviewing the US commercial diving regulations.

EUROPE & AFRICA

Over 40 delegates and guests attended the first meeting of the IMCA Europe & Africa Section to be held in Germany, in Hamburg, on 28 November. After a brief introductory address from the Chairman Pascal Grosjean, there was a short IMCA update and a review of the IMCA Vision and Strategy. The Europe & Africa update was followed by an offshore renewables seminar (see page 4 for further details).

MIDDLE EAST & INDIA

52 delegates met on 3 February in Dubai for a very well attended first Middle East & India Section meeting of 2014. Members received a full IMCA general update, including a presentation on the IMCA Vision and Strategy. Topical issues were discussed including STCW security training requirements, on-going revision of IMCA DESIGN documents, and safety statistics. Members heard an entertaining presentation on the remarkable Jascon 4 rescue, and a presentation on energy saving and environmental considerations for offshore support vessels.

SOUTH AMERICA

The latest meeting of the South America Section took place in Rio de Janeiro on 27 January, and featured presentations on the IMCA Vision and Strategy and the international maritime rules affecting IMCA and its members. The next meeting is due to take place in Macae, Brazil on 15 May, with a South America Section workshop on personnel and competence issues planned to take place the following day in Buzios, Brazil.

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UPDATES TO TWO KEY IMCA DIVING PUBLICATIONS

IMCA D 016

A workgroup has been established to revise IMCA D 016 Rev. 3 - *Underwater air lift bags* following feedback from members using the guidance for training and operational purposes. A number of significant amendments are likely to be made. One of the main areas of focus for the workgroup will be to explain more clearly the differing purposes of inverter and hold-back lines during parachute bag lifting operations underwater. Revised diagrams will be produced showing the correct arrangement of such lines in an operational context.

In light of research recently carried out by a lift bag manufacturer, the workgroup intends to make recommendations on the strength and type of inverter line ropes that should be used with parachute bags of various sizes. The revised document is also likely to include advice on the correct sequence of actions that should be

followed when rigging and de-rigging open parachute type lift bags underwater. *BM*

IMCA D 014

The International Code of Practice for Offshore Diving is one of IMCA's key guidance documents for contractors and clients. It provides advice on ways in which offshore diving operations can be carried out safely and efficiently, and references other IMCA diving guidance documents extensively. Originally published in 1998 and then updated in 2007, IMCA set up a workgroup in 2012 to review and update the document, mainly to reflect changes in IMCA documentation since it was last revised, but also to include more references to diving management and hyperbaric evacuation. After receiving a number of comments as the result of an industry wide consultation, the document has now been finalised and is currently being printed for distribution. *JB*

DIVING SAFETY ALERTS



Two recent incidents have highlighted the need to remind the diving industry about a couple of safety critical issues.

NECK SEALS

In November, IMCA issued an information note about the risks associated with over tight latex neck seals (IMCA D 14/13). It is feasible that a diver may go for a long period in his career never having seen or used one. Members' attention is drawn to the importance of trimming and correctly fitting the seals. The manufacturer's operations and maintenance manuals make clear the potential detrimental consequences of an over tight neck seal.

VALVE THREADS

A serious incident occurred during the charging of a bailout cylinder (see information note IMCA D 02/14). The cylinder valve failed during the filling process. The investigation found that an imperial threaded valve had been fitted to a metric cylinder and whilst the threads appear similar the consequences are serious if they are used together. It is critical to remind all dive technicians that only threads of the same type and size should be used together. *PS*

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CMID UPDATE

CMID ISSUE 9

Development of CMID Issue 9 is well under way, including the proposal to bring back the supplements (removed from issue 6) in some form, along with changes suggested during workshops held throughout 2013. If you have any queries or a suggestion which you think should be considered in the revision, please get in touch with us using the contact details below.

LONDON WORKSHOP

The CMID/Marine Inspection for Small Workboats (MISW) workshop which took place in London on 3 December 2013 was an excellent success with around 60 people in attendance. Lots of feedback was given regarding the CMID and small workboat inspection. One thing which stood out at the workshop was the demand from the industry for the verification/accreditation for offshore vessel inspectors. This is something IMCA has taken on board and is currently investigating.

2014 WORKSHOPS

Further CMID and MISW workshops will be arranged in 2014 as and when demand dictates. Invitations to workshops will be sent out to database users when dates are confirmed. IMCA's database administrator can also provide company specific group workshops if required. If you have any workshop questions please get in touch with gordon.kelly@imca-int.com

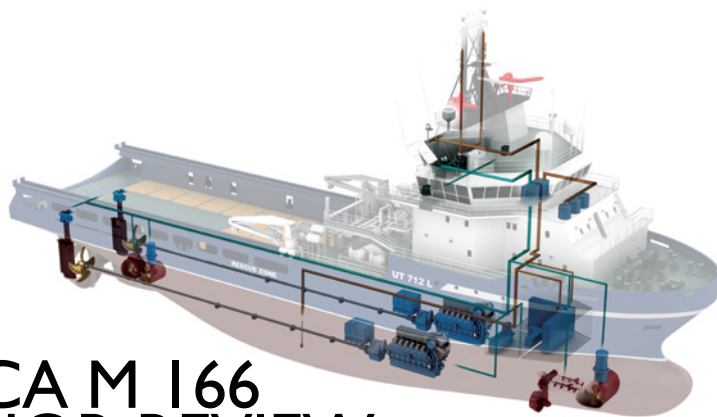


Image: Rolls Royce AS Marine

IMCA M 166 MAJOR REVIEW

One of the targets identified by IMCA's Marine Division Management Committee (MDMC) for the division's 2014 work programme is the revision of IMCA M 166 – *Guidance on failure modes and effects analyses (FMEAs)*.

Considered one of the Marine Division's most important documents, a comprehensive rewrite of it is now required to modernise the content and address the considerable developments in industry practice and changes in regulation since the document was published in April 2002.

Whilst part of the existing document is still valid and can be retained, the update will also add clarity to the retained text and remove any duplication.

The text will be revised in five phases to cover the main aspects of FMEAs, with particular emphasis on FMEAs for

DP vessels. The plan for the review is as follows:

- Phase 1: DP FMEA methodology
- Phase 2: DP FMEA specifications
- Phase 3: DP FMEA proving trials
- Phase 4: FMEAs for non-redundant systems
- Phase 5: Gap items identified to be included in the new document e.g. FMEA recognised gap analysis methodologies, FMEA limitations etc.

Following the document tendering process, the contract has been awarded and work commenced in January 2014. Owing to the large amount of technical research and the expected size of the document, it is anticipated that the revised document will be available by June 2015. MF





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- The Yadana Subsidence Project - Wire Rope (Myanmar 2012)
- Yadana Subsidence Project (Myanmar 2012)
- ONGC Cluster 7 Well Platforms Project (India 2012)
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REVISION OF IMCA M 103

IMCA M 103 - *Guidelines for the design and operation of dynamically positioned vessels* is being further revised and re-written with a view to publication in Q1 of 2014. In addition to updating the existing guidance, IMCA is considering:

- separating the sections on design and operation;
- basing the design section on IMO MSC/Circ.645 *Guidelines for vessels with dynamic positioning systems*;
- developing guidance for new vessel types and operations;
- and referencing other guidance available, such as that from the Marine Technology Society.

The revised text will also include guidance on the training and experience of DPOs in outline and on the manning and watch keeping arrangements. More detailed guidance will be contained in IMCA M 117 - *The training and experience of key DP personnel*, which is also currently being revised. IG

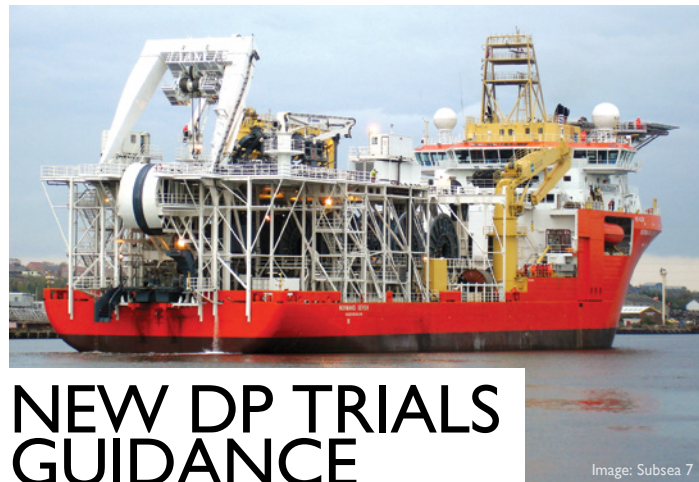


Image: Subsea 7

NEW DP TRIALS GUIDANCE

IMCA has recently prepared a document which sets out the DP redundancy concept and example annual trials for a DP class 3 construction vessel. It is intended to be used with IMCA M 190 - *Guidance for developing and conducting DP annual trials programme for DP vessels*.

The draft document is divided into two parts. The first part describes the DP redundancy concept for a fictitious vessel with a class 3 DP system and identifies the key elements of performance, protection and detection which need to be tested periodically. The importance of each item to be tested is explained to justify

the need for testing. The second part is an IMCA M 190 compliant annual DP trials programme for the vessel. It has been developed from the analysis to demonstrate the range of tests and planned maintenance activities that are required to ensure the redundancy concept is intact and the vessel remains fully fault tolerant in respect to the defined failure criteria for its DP class notation and equipment class.

The draft is currently being reviewed by IMCA's Marine Division Management Committee and should be published shortly. JB



Image: Samson Rope Technologies

FIBRE ROPE GUIDANCE

The weight, size and complexity of the loads being lifted in the offshore construction industry continue to grow. Lifting slings manufactured with high performance fibres, in an eye-and-eye or endless construction, are increasingly being accepted for use in general purpose and engineered lifting operations.

The industry is strongly requesting more guidance regarding the use of these slings and IMCA is answering its call by developing *Guidance on selection, use, inspection & discard of slings made with high-performance fibres intended for engineered and repetitive lifting operations*. Work should begin on the guidance in April 2014, after a meeting with the workgroup in March. MF

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- Diver Medic Technician/Refresher

- Trainee AIR/BELL Diving Supervisor

Commercial Diving Courses

- Diving System Assurance

- Failure Mode & Effect Analysis

- OGP Diving Worksite Representative

Check out online for our Year 2014 Course Schedule!

CONSULTANCY

- Safety Management

- Supply of Specialist Personnel (Diving, ROV Representatives)

- Technical Authorship

- Audits & Assurance

• Diving / ROV / Marine Systems

• Diving System FMEA



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offshore survey

SURVEY PERSONNEL STATISTICS

IMCA has published information note IMCA S 05/13 - *Offshore Survey Personnel: Statistics for 2012*. This is the third year the exercise has been conducted, and approximately half of IMCA's Offshore Survey contractor members took part. The data collected was not exhaustive and does not represent the entire offshore survey industry, but nevertheless, it provides a snapshot of Offshore Survey personnel employed during 2012.

Collection of data for 2013 is now underway, and an invitation has been sent to representatives of Offshore Survey contractor members. IMCA is collecting two key pieces of data for each survey discipline. These are:

- Company personnel working
- Freelance/agency personnel working or on hire

For more information contact nick.hough@imca-int.com

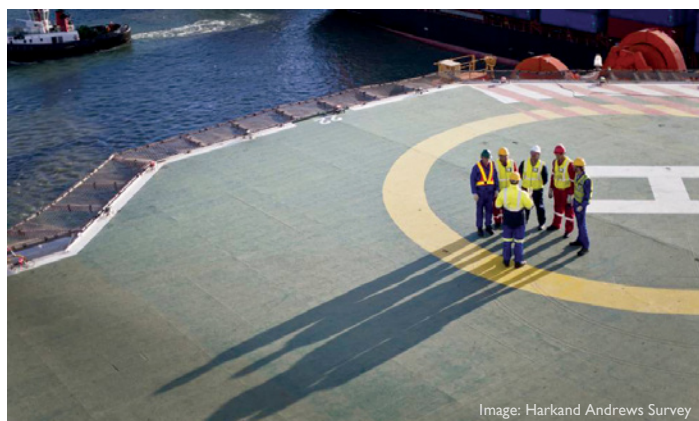


Image: Harkand Andrews Survey

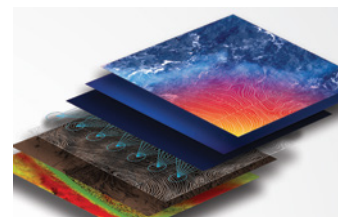
Some highlights from IMCA S 05/13 - *Offshore Survey Personnel: Statistics for 2012*

The overall numbers of personnel reported are almost the same as in 2011

IMCA contractor members employ slightly more offshore survey personnel in August than in February, except amongst members of the Middle East & India Section

Around 30% of all contractor IMCA members who responded to the questionnaire, and 40% of the employed offshore survey personnel, are in the Europe & Africa Section

Surveyors are most common world-wide (49%), followed by survey engineers (28%) and data processors (13%)



OCEANOLOGY INTERNATIONAL

Once again, IMCA will be out in force this year at Oceanology International, to be held at ExCeL London in March. In addition to the usual stand (S700) where you can drop in for a chat with members of the IMCA secretariat, there will be an IMCA careers morning for students on Thursday 13 March, at which there will be some brief presentations on careers and routes into the industry.

Offshore Survey technical adviser Nicholas Hough will be addressing the "Underwater Positioning and Metrology" strand of the Oceanology conference at 12.30 pm on Tuesday 11 March. He'll be presenting on the *IMCA Offshore Survey Division Management Committee – A Brief Work Programme Update*. NH

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ROV PERSONNEL DATA REQUIRED

Last year IMCA published information note IMCA R 02/13 - *World-wide ROV personnel and vehicles: Statistics for 2012*.

Collection of data for 2013 is now underway, and an invitation has been sent to representatives of ROV contractor members. If you would like more information about being involved in the project, please contact nick.hough@imca-int.com

ROV TRAINING & COMPETENCE SEMINAR

A joint ROV and Competence & Training half day seminar entitled *ROV Training & Competence: Global approach, local delivery* will be held from 13:15 on Wednesday 12 March alongside Oceanology in South Gallery Room 10 at ExCeL London. It will include presentations on different aspects of ROV training, showing how it can be global, but with room for local initiatives in delivery.

The four headline presentations will cover:

- ROV training in a contextual experience environment;
- training for the future;
- training delivery around the globe;
- and a syllabus framework for ROV training.

A workshop discussion will follow, focusing on the

proposed syllabus, and the seminar will conclude with a round up of the actions agreed.

This is a members' only event, with attendance by registration. Depending on when you receive this newsletter, there may still be time to register for the seminar. If you are interested in doing so, please contact us at events@imca-int.com

GEORGE ROBERTSON

It is with sadness that IMCA passes on the news of the death of George Robertson of Fugro on 21 December 2013, an experienced ROV professional and former ROV representative on IMCA's Competence & Training Core Committee.

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SPOTLIGHT

ON ASHUTOSH CHAUDHARY



Marine Engineering Diving Services

In September 2013, Ashutosh Chaudhary, Managing Director of Marine Engineering Diving Services (MEDS), took on the position of Vice-Chairman of IMCA's Middle East & India Section. In this interview Ashutosh talks about his role at MEDS, issues affecting the industry and his views on how IMCA makes a difference.

Please tell us about your company and what it does?

Marine Engineering Diving Services (MEDS) was founded in 2007 as an offshore diving and inspection company in the UAE and in 2014 we operate as a marine and diving company ready to take any assignment underwater. We also have an independent setup in Singapore, MEDS Pte Ltd. Our activities are primarily focused on subsea activities where we can use our in-house expertise in diving and deploy our marine assets and ROVs. The company operates two DP/DSVs, *Altus Exertus* and *Altus Optimus*. In addition, it also has a 12 man sat system, *Sat Dhruv*, and three portable air dive systems. Our objective is to provide cost effective and technically superior subsea solutions to our customers.

What is your current role?

I am the Managing Director of the company and my core responsibilities include technical up gradation and business development. My role is complemented by Mr Sheldon D'lima as the Group Finance Director and Mr Scott Grady who is the Managing Director Asia-Pacific, based in Singapore.

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

During my college days Information Technology was a popular academic route and I too went for a formal education in the discipline, completing an

engineering degree in computer sciences. As most of my family was involved in commercial diving in some way or other, exploring subsea activities became the genetically inclined choice of my career. So I underwent some preliminary training in inspection, repairs and maintenance and then had my first offshore experience on a drill rig as a Report Co-ordinator.

"Players in the industry should come forward with a collaborative approach"

Later, in 2003, I joined a diving company in India, as Operations Manager. As its CEO I grew the company and made it an overall profitable entity. In 2007 it was time to do something of our own and we set up MEDS in the UAE where we carried out our diving projects and also built our own dive systems. Our ability to provide cost effective and technologically competitive solutions to the oil and gas majors has been the key success factor in our growth.

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

A lot of people in the past have commented on the availability of skilled resources and I agree with them. More importantly I think it's the challenge for the industry to source competent

personnel from more than one optional location across the globe, as a gap exists in establishing uniform skills due to demographic differentiation.

How can these issues be taken forward?

IMCA could probably take a step further to encourage regulatory bodies to establish authorised or approved diver training centres world-wide that make training, education and competence much more affordable to people and at a proximity to their home town. This will encourage more people to join the profession. Also IMCA could establish bilateral arrangements with other professional bodies, like drilling associations and others, as diving cannot be done in isolation. This will benefit the industry through cross-functional expertise and facilitate better co-ordination when working in diverse teams and create synergy in operational guidelines.

"IMCA guidelines have made a big difference to the industry"

Players in the industry should come forward with a collaborative approach and establish learning centres for the next generation of divers.

How do you think IMCA makes a difference?

IMCA guidelines have made a big difference to the industry and I don't think that can be over emphasised. On a personal level, we have benefited to a great extent in standardising our own work systems by using the IMCA guidelines. These documents deliver focused expertise and have been validated over the course of time.

How do you see the future?

In spite of the ups and downs, and amidst all predictions, I feel the future for the industry is quite promising, especially in South East Asia. Fair competition should be encouraged in the industry and bottlenecks in cash flows should be resolved for smooth sailing of all partners in the value chain.



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Welcome to the IMCA Directory

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

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

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

NEW PUBLICATIONS

- ◆ **Guidance on verifier training** (IMCA C 016)
- ◆ **Guidance on wire rope integrity management for vessels in the offshore industry** (IMCA SEL 022 Rev. 1, IMCA M 194 Rev. 1)
- ◆ **Guidelines for the management of peripheral survey sensors** (IMCA S 021)

SAFETY FLASHES

- ◆ **Safety Flash 17/13** - Covering 5 incidents: High potential dropped object; Small workboats used on offshore wind farms; Combined report on Windcat 9 & Island Panther incidents; Pilot ladder safety; LTI: Pilot ladder failure; Near miss: Fast rescue craft unplanned descent
- ◆ **Safety Flash 18/13** - Covering 4 incidents: Fatality During Lifting Operations; Serious Working at Height Incidents; Near Miss - ROV Shackle (potential dropped object); High Potential Near Miss - Incompatible Pillar Valve Assembly
- ◆ **Safety Flash 01/14** - Covering 4 incidents: Uncontrolled descent of diving bell; High potential dropped object; Rigger struck by falling object; Poor cargo stowage: Material damage on container; First aid injury: Deep cut to forearm

INFORMATION NOTES

COMPETENCE & TRAINING

IMCA C 09/13 - Offshore Survey personnel: Statistics for 2012
IMCA C 10/13 - Development of Det Norske Veritas Recommended Practice for DPO Certification
IMCA C 11/13 - Implementation of changes to the Nautical Institute DPO Training and Certification Scheme
IMCA C 12/13 - New security training for seafarers - 1 January 2014
IMCA C 01/14 - Competence & Training documents issued in 2013
IMCA C 02/14 - The Nautical Institute DP Operator Training and Certification Scheme

SAFETY, ENVIRONMENT & LEGISLATION

IMCA SEL 10/13 - Guidelines for offshore marine operations
IMCA SEL 11/13 - New security training for seafarers - 1 January 2014
IMCA SEL 12/13 - Intact stability for anchor handling and lifting operations: Latest IMO proposals
IMCA SEL 01/14 - Safety, Environment & Legislation Documents Issued in 2013
IMCA SEL 02/14 - Helicopter Pre-Flight Safety Briefings - Emergency Breathing Systems (EBS)

DIVING DIVISION

IMCA D 14/13 - Latex Neck Seals
IMCA D 01/14 - Diving Division Documents Issued in 2013
IMCA D 02/14 - Metric Thread Standards, Gas Cylinders and Valves

MARINE DIVISION

IMCA M 17/13 - Development of Det Norske Veritas Recommended Practice for DPO Certification
IMCA M 18/13 - Implementation of Changes to the Nautical Institute DPO Training and Certification Scheme
IMCA M 19/13 - Guidelines for Offshore Marine Operations
IMCA M 20/13 - New security training for seafarers - 1 January 2014
IMCA M 21/13 - Intact Stability for Anchor Handling and Lifting Operations: Latest IMO Proposals
IMCA M 01/14 - Marine Division Documents Issued in 2013
IMCA M 02/14 - The Nautical Institute DP Operator Training and Certification Scheme
IMCA M 03/14 - Dynamic Positioning Training Executive Group Minutes

OFFSHORE SURVEY DIVISION

IMCA S 05/13 - Offshore Survey Personnel: Statistics for 2012
IMCA S 01/14 - Offshore Survey Division Documents Issued in 2013

REMOTE SYSTEMS & ROV DIVISION

IMCA R 01/14 - Remote Systems & ROV Division Documents Issued in 2013



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:	Massimo Fontolan, Saipem	IMCA Chief Executive:	Chris Charman
IMCA Vice-President and OMC Vice-Chairman:	Alan Marriott, Technip	IMCA Technical Director:	Jane Bugler
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Diving:	Steve MacMillan, McDermott International Paul Evans, Fugro Subsea Services	Central & North America:	Jerry Grishaber, Helix ESG Edwin Goldman, TETRA Technologies Inc
Marine:	Pete Somner, Technip Tore Larsen, Subsea 7	Europe & Africa:	Pascal Grosjean, Technip <i>Vacancy</i>
Survey:	Will Primavesi, Specialist Subsea Services Walter Steedman, Veripos	Middle East & India:	Christopher Rodricks, SEAMEC Ashutosh Chaudhary, Marine Engineering Diving Services
ROV:	Jim Mann, Fugro Subsea Services Richard Benzie, Subsea 7	South America:	Roberto Mendes, Saipem Doug Korth, McDermott International

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Central & North America:	Pete Goodman, Cal Dive International
Middle East & India:	Mike Silvester, Horizon Survey Company
South America:	<i>Vacancy</i>

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Asia-Pacific:	Desmond Power, EMAS-AMC
Central & North America:	Phil Miller, Subsea 7
Middle East & India:	Darren Male, Fugro Survey
South America:	Rosalie Medeiros, Saipem

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Central & North America:	Allan Palmer, Cal Dive International
Middle East & India:	Sean Brunton, McDermott International
South America:	Rafael de Nicola, Divers University Esporte Aquático
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Central & North America:	Marshall Perez, ENSCO
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South America:	Daniel Marins, Subsea 7

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South America:	Andy Seymour, Fugro Brasil

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	Piero Bruti Liberati, Bourbon Ollie Foster, Global Marine Systems Chris Gardner, Hallin Marine David Rhodes, Harkand ISS Allan Spencer, Helix - Europe & Africa Gary Thomson, Marine Platforms Steven Cowie, Oceaneering International Ewan Emslie, Saipem John Pirie, Technip
Asia-Pacific:	Andrew Sunley, Oceaneering International Asia Pacific
Central & North America:	Chad Brown, Helix ESG
Middle East & India:	Milind Abhyankar, McDermott International
South America:	Davi Lima, DOF Subsea Brasil

IMCA MEMBERS DIRECTORY

as at 12 February 2014

IMCA WELCOMES THE FOLLOWING NEW MEMBERS

- **A2SEA A/S**
- **Asaker Marine and Shipping Company**
- **Axis Offshore AS**
- **Bermuda Subsea (M) Sdn Bhd - Training**
- **Coastland Energy Logistics Ltd**
- **Core-IRM Pte Ltd**
- **De Zeeman Pro Nv**
- **DFV Subsea**
- **Divetech Marine Engineering Services LLC**
- **DONG Energy Wind Power AS**
- **EnerMech Ltd**
- **Global Integrated Services Ltd**
- **Helix - Asia-Pacific**
- **Helix - Europe & Africa**
- **Independent Maritime Security Associates Ltd**
- **JS Schumacher GmbH & Co KG**
- **KB Associates (Europe) Ltd**
- **Louis Dreyfus Armateurs SAS**
- **Maju GeoHydro Sdn Bhd**
- **Marine Technologies LLC**
- **MRTS**
- **Northern Marine Manning Services**
- **Osiris Marine Services**
- **Pisces Offshore Limited**
- **Reel Group Ltd**
- **RovMarine Technologies**
- **Samson Rope Technologies**
- **Samundra Institute of Maritime Studies**
- **Shapadu Energy & Engineering Sdn Bhd**
- **Stephenson Harwood LLP**
- **The Universal Company for Marine Works & Great Projects**
- **Westsea Marine**

INTERNATIONAL CONTRACTORS

Allseas Group SA • Heerema Marine Contractors • McDermott International Inc. • Saipem • Subsea 7 • Technip

CONTRACTORS

- A2SEA A/S
AALEA Srl
Abyss International Benthic Exploration
ACSM
Adams Offshore WLL
Adsun Offshore Diving Contractors Pvt Ltd
Advanced Energy Systems (ADES)
Advanced Offshore Contractors Pvt Ltd
AET Shipmanagement (Singapore) Pte Ltd
Africa Diving Service (ADS)
AfrikDelta Marine Ltd
Ajang Shipping Sdn Bhd
Aker Oilfield Services
Alam Hidro (M) Sdn Bhd
Alam Subsea Pte Ltd
All-Sea Deepwater Solutions Limited
Alliance Seaworks Sdn Bhd
Allianz Marine Services
Allied Marine & Equipment Sdn Bhd
AlMansoori Production Services LLC
AMI - American Marine International
Andrews Survey
Aqua Diving Services
Aqua Omega Services Pvt Ltd
Aquadron, Inc
Arabian Gulf Mechanical Services & Contracting Co. Ltd
Archirodon Construction (Overseas) Co SA
Arctic Shipping Ltd
Argus Remote Systems AS
Asaker Marine and Shipping Company
Asian Geos Sdn Bhd
Assodivers Ltd
ATCO Ports Management & Marine Services
Atlantic Offshore AS
Atlantic Towing Ltd
Atwood Oceanics Pacific Ltd
Awaritse Nigeria Ltd
Axis Offshore AS
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Benthic Geotech Pty Ltd
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BGP
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Bibby Offshore
Bibby Offshore Singapore Pte Ltd
Bibby Remote Intervention Ltd
Bluestream Offshore BV
Bluewater Energy Services BV
Boskalis Offshore - APAC
Boskalis Offshore - Europe & Africa
Boskalis Offshore - Middle East & India
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Briggs Marine Contractors Ltd
Bright Offshore Solution (BOS) FZC
Britoil Offshore Services Pte Ltd
Brodospas dd
Bumi Armada Berhad
Bumi Subsea Sdn Bhd
BVV Offshore Singapore Pte Ltd
C&C Technologies
C&C Technologies (Asia-Pacific) Pte Ltd
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C&I Leasing plc
Cal Dive International Pte Ltd
Cal Dive International, Inc.
Canship Uglad Ltd
Cape Diving
Caspian Marine Services
Caspian Offshore Construction LLP
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CDS Subsea Pte Ltd
Ceona Services (UK) Ltd
CH Offshore Ltd
CMI Offshore Limited
CNS International srl
Coastland Energy Logistics Ltd
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Company of Diving & Emergency-Rescue Operations (CODERO), SOCAR
Consolidated Contractors Company (Underwater Engineering) SAL
Copetech-SM
Coral Alliance Sdn Bhd
COSL Drilling Europe AS
CS Offshore DMCCO
CSI Offshore Pte Ltd
CUEL Ltd
D&R Subsea Co Ltd
Dalgidj Private Company
Damas Oil & Marine Services Ltd
Daya Offshore Construction Sdn Bhd
DCN Diving BV
DCN Global LLC
Deep Sea Supply Management (Singapore) Pte Ltd
DeepLink Subsea Services
DeepOcean Group
DeepOcean Group (Asia Pacific)
DeepTech Oil Services
Delta Marine Technologies / Delta SubSea
Diamond Offshore Drilling Inc
Divetech Marine Engineering Services LLC
Dockwise Shipping B.V.
DOF Management AS
DOF Subsea (Australia & Asia Pacific)
DOF Subsea Brasil Servicos Ltda
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DOF Subsea UK Ltd
DOF Subsea USA Inc
DOF UK Ltd
Dolphin Drilling Ltd
Dolphin Offshore Enterprises (India) Ltd
Drexel Oilfield Equipment
Dulam International Ltd
Dunnimaa Engineers & Divers Enterprises Pvt Ltd
EDT Marine Construction Ltd
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Eidesvik AS
EMAS Offshore Pte Ltd
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EMAS-AMC Inc
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Energy Subsea LLC
ENSCO plc
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Fugro RUE AS
Fugro SAE
Fugro Subsea Services Ltd
Fugro Survey (India) Pvt Ltd
Fugro Survey (Middle East) Ltd (incorporating Fugro DCN Global LLC)
Fugro Survey Ltd
Fugro Survey Pte Ltd
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Gasstocks Limited
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Jetwave Marine Services Pty Ltd
Jifmar Offshore Services
Jumbo Offshore VoF
Kaztec Engineering Ltd
KD Marine Ltd
Khalid Faraj Shipping
Khalifa A Algosabi Diving & Marine Services
Knutson OAS Shipping AS
Kreuz Subsea Marine Pte Ltd
Kreuz Subsea Pte Ltd
KT Submarine Co Ltd
L&T Sapura Shipping Pvt Ltd
Lamnalco West Africa
Lauritzen Offshore Services AS
Leighton Contractors Pty Ltd
Leighton Offshore Pte Ltd
Louis Dreyfus Armateurs SAS
Louis Dreyfus Travocean
Maersk Drilling
Maersk Supply Service
Maju GeoHydro Sdn Bhd
Maridive & Oil Services
Maridive & Oil Services (SAE)
Maridive Offshore Projects
Marine Consulting srl
Marine Engineering Diving Services
Marine Engineering Diving Services Pte Ltd
Marine Platforms Ltd
Marine Services Company Ltd Jeddah
Maritime & Underwater Security Consultants (MUSC)
Maritime Asset Security and Training (MAST) Ltd
Master Tech Diving Services Pte Ltd
Meriaura Ltd
Mermaid Marine Australia Ltd
Mermaid Offshore Services Ltd
Miclyn Express Offshore Pte Ltd
Middle East Navigation Aids Service
Modus Seabed Intervention Ltd
Mohn Drilling AS
MRTS
Mubarak Marine LLC
Mutawa Marine Works LLC
N-Sea
Nadi Marine Sdn Bhd
National Marine Dredging Co
National Petroleum Construction Company (NPCC)
National Port Services Co Ltd
Navtec Marine Services SA
NDE Offshore AB
Neptune
Neptune Survey Expedition ehf
Nexans Norway AS, Energy Division
Nippon Steel & Sumikin Engineering Co Ltd
NIWA Vessel Management Ltd
Noble Drilling Services Inc
NorSkand Offshore Ltd
North Star Shipping (Aberdeen) Ltd
Northern Marine Management Ltd
Ocean Installer AS
Ocean Link International SA
Ocean Rig Management Inc
Ocean Technologies Geomatics Sdn Bhd
Ocean Works Asia, Inc.
Oceaneering International

Oceaneering International Asia Pacific
 Oceaneering International, Inc.
 Oceaneering Marine Production Systems do Brasil
 Oceanking Survey Services FZC
 OceanWorks International
 Octomar
 Odebrecht Oil & Gas
 Odjfell Drilling
 Offshore Geo-Surveys Sdn Bhd
 Offshore Installation Services (OIS) Ltd
 Offshore Manpower SA
 Offshore Marine Management Ltd
 Offshore Marine Services Alliance
 Offshore Marine Services Pty Ltd
 Offshore Subsea Services
 Offshore Subsea Works Sdn Bhd
 Offshore Technology Solutions Ltd
 Olympic Shipping AS
 Optic Marine Services International Limited
 Orogenic GeoExpro Sdn Bhd
 Osiris Marine Services
 OSM Offshore AS
 Overseas AST Co LLC
 Pacific Drilling Services Inc
 Pacific Richfield Marine Pte Ltd
 PBJV Group Sdn Bhd
 Pearl River Offshore Ltd
 Pelican Co Ltd
 PEM Offshore Inc
 PEM Offshore Ltd
 Petroleum Marine Services Co.
 Petroserv Marine, Inc
 Petrousa Offshore Services Sdn Bhd
 Phoenix International
 Pisces Offshore Limited
 Promar Shipping Services SA
 Prosafe Offshore Ltd
 Prysmian Powerlink Services Ltd
 PT Advanced Offshore Services
 PT Bahtera Niaga Internasional
 PT Ekanuri Indra Pratama
 PT Jaya Salvage Indonesia
 PT Lancar Rejeki Berkat Jaya
 PT Mahakarya Geo Survey
 PT Offshore Works Indonesia
 PT PATRA DINAMIKA
 PT Prima Mitranata
 PT Samudera Biru Nusantara
 PT Wintermar
 PTSC Geos & Subsea Services Co Ltd
 Queiroz Galvão Óleo e Gás
 Rana Diving spa
 Red7Marine Offshore Ltd
 REDS Caribbean Ltd
 Reef Subsea
 REM Offshore ASA
 Romona Inc
 ROV Resources (B) Sdn Bhd
 ROV Resources (M) Sdn Bhd
 ROVOP Limited
 RWE OLC GmbH
 S&O Ship Management Ltd
 Sahara Petroleum Company
 SAL Heavy Lift GmbH
 SapuraAcergy Sdn Bhd
 SapuraClough Offshore Pty Limited
 SAROST SA
 SB Submarine Systems Ltd
 SBM Offshore NV
 SC Shark SRL
 Scaldis Salvage & Marine Contractors NV
 SCF Novoship Technical Management
 Sea Trucks Group - Asia-Pacific
 Sea Trucks Group - Europe & Africa
 Sea Trucks Group FZE
 Seacor Marine (International) Ltd
 Seacor Offshore Dubai LLC
 Seadrill Americas Inc
 Seadrill Management AS
 Seahorse Services Corporation
 Sealion Shipping Ltd
 SEAMEC - South East Asia Marine Engineering
 & Construction
 Searie Sdn Bhd
 Searov Offshore
 Seascope
 Seatrans AS
 SeaTrepid International LLC
 Seaways International LLC
 Seaworks Ltd
 Secunda Canada LP
 Shanye Marine Services Co Ltd
 Shapadu Energy & Engineering Sdn Bhd
 SHL Offshore Contractors B.V
 Siem Offshore AS
 Siem Offshore Contractors GmbH
 Simon Møkster Shipping AS
 Six Construct Ltd
 Skansi Offshore
 Smit Lamnalco

SOLL-R
 Solstad Shipping AS
 Songa Offshore SE
 Specialist Subsea Services Ltd
 Stanford Marine
 Stapem Offshore SA
 Stena Drilling Ltd
 Stork Technical Services (RBG) Limited
 Subsea 7 Singapore Contracting Pte. Ltd
 Subsea Explore Services (M) Sdn Bhd
 Subsea Robotics Services Pte Ltd
 SubSea T&T Ltd/ BIDCO Ltd
 Subtech Group Holdings (Pty) Ltd
 Subtech Qatar Diving and Marine Services LLC
 Supreme Hydro Engineering Pvt Ltd
 SURF Subsea Inc
 Switzer
 Swiber Offshore Construction Pte Ltd
 Swire Pacific Offshore Operations Pte Ltd
 Swire Seabed
 Target Engineering Construction Co.
 Technip Oceania Pty Ltd
 Technip USA, Inc
 Tecnosub
 Teekay Norway AS
 Tethys-Plantgeria Ltd
 TETRA Technologies Inc
 Tidewater Inc.
 Tidewater Marine North Sea Ltd
 Tideway Bv - Offshore Solutions (member of
 the DEME Group)
 Timsah Shipbuilding Company
 TL Geohydrographics Sdn Bhd
 Topaz Marine
 Topaz Marine - Kazakhstan
 Topaz Marine MENA
 Total Marine Technology Pty Ltd
 TPSMI Group Ltd
 Transocean
 Transoceanic Cable Ship Company Inc
 Trigstation Sdn Bhd
 Troms Offshore Management AS
 UMC International
 Underwater Services Company Ltd
 Unicom Management Services (StPetersburg) Ltd
 Unidive Offshore Pte Ltd
 Unimar Ltd
 The Universal Company for Marine Works &
 Great Projects
 UTEC Survey Asia Pte Ltd
 UTEC Survey Construction Services Ltd
 UTEC Survey JLT
 UTEC Survey, Inc.
 V.Ships Ltd
 Vallianz Offshore Marine Pte Ltd
 Van Oord Offshore BV
 Vantage Deepwater Drilling Inc
 Vector Offshore Ltd
 Viking Supply Ships AS
 Visser & Smit Marine Contracting bv
 Volstad Shipping AS
 Vroon Offshore Italia Srl
 Vroon Offshore Services BV
 Wagenborg Offshore BV
 Westsea Marine
 Wilhelmsen Ship Management (Norway) AS
 Workfox BV
 Workshops Contractors BV
 Zakher Marine International Inc.
 Zamil Offshore Services Company
 Zitadel Limited

SUPPLIERS

Suppliers of equipment

7 Seas Pte Ltd
 ABB AS, Marine Division
 ABB Ltd
 Abyssal SA
 ACE Winches
 Advanced Marine Pte Ltd
 Air Liquide America Specialty Gases LLC
 Air Liquide UK Ltd
 Air Products Middle East FZE
 Air Products plc
 Air Products Singapore Pte Ltd
 Amron International, Inc.
 Analox Sensor Technology Ltd
 Ansell Protective Solutions
 Aqua-Air Industries Inc
 Arabian Industrial Gases Company
 Ashtead Technology (SEA) Pte Ltd
 Balmoral Offshore Engineering
 Bibby Ship Management Group Ltd - Europe
 & Africa
 Blue Offshore
 Bridon
 Bruce Offshore Ltd
 Brunvoll AS
 CAPE Group Pte Ltd
 Chambers Oceanics Ltd

CM Labs Simulation Inc
 Comanex SAS
 CSI Offshore Pte Ltd
 CUEL Ltd
 Cygnus Instruments Ltd
 De Zeeman Pro Nv
 Deep Diving Consultancy Ltd (DDC Ltd)
 DeepOcean Group
 Divetechnoservice Ltd
 Divex Asia Pacific
 Divex Ltd
 DOF UK Ltd
 Dominion Gas
 Dominion Gas Asia Pacific Pte Ltd
 Drass Energy
 DRC Dive Systems
 Eastar Offshore Pte Ltd
 EKD Endustriyel Deniz Malzemeleri Sualti
 Hizmetleri San. Tic. Ltd. Sti
 Embient GmbH
 Emphor FZCO
 Endenburg BV
 Environmental Technologies Limited
 Fathom Systems Ltd
 Formshore Group
 Forum Energy Technologies
 Forum Energy Technologies (UK) Ltd
 Foundation Associates Engineering Pte Ltd
 Franklin Offshore International Pte Ltd
 Fugro Satellite Positioning Pte Ltd
 Fugro-TSM Group
 GE Power Conversion
 Global Gases Australia Pty Ltd
 Global Gases Group FZCO
 Global Gases Group Singapore Pte Ltd
 Global Gases Malaysia Sdn Bhd
 Global Gases South Africa (Pty) Ltd
 Global Integrated Services Ltd
 GMC Ltd
 GOL Offshore Limited
 GustoMSC BV
 Hendrik Veder Group BV
 Hydrasun
 IHC Hytech BV
 INNOVO Engineering & Construction Limited
 Intron Plus
 IUC Group Inc
 IUC Technologies LLC
 iXBlue
 James Fisher Offshore Limited
 Jiangsu Zhongtian Technology Co Ltd (ZTT)
 Joint-Stock Company Tetis Pro
 JW Automarine
 Kenz Figeo BV
 Kirby Morgan Dive Systems
 Kongsberg Maritime AS
 Kongsberg Maritime do Brazil SA
 Kongsberg Maritime Ltd
 KTL Offshore Pte Ltd
 L-3 Communications
 Lankhorst Ropes
 LexMar Engineering Pte Ltd
 Liebherr-Great Britain Ltd - Maritime Cranes
 MacGregor Norway AS
 Marine & Diving Services Ltd
 Marine Solutions (Pty) Ltd
 MCS Free Zone
 MDL Part of Renishaw PLC
 MJR Controls Ltd
 Molecular Products Ltd
 Nautronix Ltd
 Navis Engineering OY
 NETmc Marine
 NSW Technology Ltd
 Nuvair
 OCEANOS JSC
 Oceancan Ltd
 Oceanwide Safety At Sea BV
 Offshore Logistics (Asia Pacific) Pte Ltd
 Pacific Commercial Diving Supply Pty Ltd
 Petrofac Training Services (PTS)
 Pipeline & Piling Services Co Ltd
 Pommec TDE BV
 Proserv Offshore
 Redaelli Tecnica spa
 Rigmarine FZC
 Rolls-Royce Marine AS
 Rolls-Royce Oy Ab
 Rovsco Asia Pte Ltd
 Saab Seaeeye Ltd
 Samson Rope Technologies
 SapuraAcergy Sdn Bhd
 SAROV
 SBM Offshore NV
 Schilling Robotics (FMC CBV Subsea)
 Schilling Robotics Ltd
 Schilling Robotics, Inc.
 Sea and Land Technologies Pte Ltd
 Sea Rescue Gear BV
 Sea Trucks Group FZE

SeaBotix Ltd
 Sealion Shipping Ltd
 Seanetics Asia Works Pte Ltd
 Seatools BV
 Seatronics Pte Ltd
 Serimax Ltd
 Siem Offshore AS
 Siemens AG
 Singapore Oxygen Air Liquide Pte Ltd
 Skan-EI AS
 Soil Machine Dynamics Ltd
 Soil Machine Dynamics Singapore Pte Ltd
 Solstad Shipping AS
 Sonardyne Asia Pte Ltd
 Sonardyne International Ltd
 Sources Workshop Equipment Co (LLC)
 SPP Pumps
 Star Information Systems AS
 Submarine Manufacturing & Products Ltd
 SubNet Services Ltd
 Subsea Vision Ltd
 Sundan Offshore Pvt Ltd
 Synergy Diving & Equipment Solutions FZCO
 Teufelberger Seil GmbH
 TGH AP Pte Ltd
 Thrust Maritime Pty Ltd
 Totalmat Indústria e comercio de
 Equipamentos Hiperbáricos Ltda
 Transas Marine International AB
 Trim Systems Pte Ltd
 Underwater Technology Services (S) Pte Ltd
 Unique Hydra
 Unique Seaflex Ltd
 Unique System (UK) Ltd
 Unique System FZE
 United Offshore Services V.O.F.
 Usha Martin Italia
 Vanguard Offshore Pte Ltd
 Velocious Pty Ltd
 VerdErg Connectors Ltd
 Veripos
 Viking SeaTech
 Vroon Offshore Services Ltd
 WDI Westfälische Drahtindustrie GmbH

Suppliers of services

7 Seas Pte Ltd
 Abermed Ltd
 Acteon Angola Limitada
 Advanced Marine Pte Ltd
 AIMS Ltd
 Air Products Singapore Pte Ltd
 Alfa Petroleum Services
 Alliance Marine Services
 Anglo-Eastern Group
 Anglo-Eastern Group (Asia-Pacific Region)
 Applied Research International Pvt. Ltd
 Aqualis Offshore - Singapore
 Aqualis Offshore Marine Services LLC
 Arab Tanker Services
 ASP Rope Access
 ATOB
 ATR Lifting Solutions Ltd
 Auto Dynamic Positioning Services Ltd
 Babcock International Group Marine &
 Technology Division
 Baker Marine Solutions
 Bergen Marine Consulting & Engineering AS
 Bibby Ship Management Group Ltd - Europe
 & Africa
 Blade Offshore Services Ltd
 Blue Water Engineering (M) Sdn Bhd
 BOATLABS AS
 Braemar Engineering (Wavespec Limited)
 Braemar Technical Services (Offshore) Pte Ltd
 Bruce Offshore Ltd
 BSA Offshore AS
 C-MAR Group
 CAPE Group Pte Ltd
 Cescor srl
 Charles Taylor Adjusting Ltd
 Chesterfield Special Cylinders Ltd
 Consortium Underwater Engineers Ltd
 Cortez Subsea Ltd
 Curtis Davis Garrard LLP
 Delta Marine Technologies / Delta SubSea
 DfV Subsea
 Divetechnoservice Ltd
 Diving and Offshore Works Consultancy
 (DOWC)
 DNV GL
 DNV GL - Asia-Pacific
 DNV GL - Central & North America
 DNV GL - Middle East & India
 DNV GL - South America
 DRC Dive Systems
 Dynamic Positioning Tech Sdn Bhd
 Dynamic Surveys
 EnerMech Ltd
 Engineering Consulting Company

Esbjerg Survey
 ETPM Ltd
 Explorer Marine SBoSS ApS
 Fathom Systems Ltd
 Fearnley Offshore Supply
 Fender & Spill Response Services
 First Marine Solutions Ltd
 Flinders EMA Pte Ltd
 Forum Energy Technologies (UK) Ltd
 Franklin Offshore Europe BV
 Franklin Offshore International Pte Ltd
 Fugro Subsea Services Ltd
 Fugro Survey (Middle East) Ltd (incorporating Fugro DCN Global LLC)
 Global Energy Group (Access & Coatings) Limited
 Global Maritime
 Global Maritime (Middle East)
 Global Maritime Singapore
 GMC Ltd
 Goutama Weights & Testing Pte Ltd
 Green Marine Solutions Ltd
 Greenland Maritime Solutions
 GW Marine Consultants Pty Ltd
 Healing Chambers of Asia Sdn Bhd
 Holman Fenwick Willan
 Houlder Insurance Services Ltd
 Hydrasun
 IHC Offshore & Marine BV
 Imes Ltd
 Imtech Marine Singapore Pte Ltd
 Inchcape Shipping Services
 Independent Marine & Engineering Consultants (IMEC)
 Indra
 INNOVO Engineering & Construction Limited
 Inter Mar Technology Ltd
 InterMoor Marine Services Ltd
 InterOcean Marine Services Ltd
 Italian Maritime Academy Technologies
 ITIC-Insure
 JS Schumacher GmbH&Co KG
 JSL International (Trinidad) Ltd
 KB Associates Pte Ltd
 KDU Worldwide Technical Services (FZC)
 Kennedy Marr Ltd
 Khalifa A Algosaihi Diving & Marine Technical Services Company
 Laisbo Marine ApS
 Lankhorst Ropes
 LexMar Engineering Pte Ltd
 Lily Hospitals Limited
 London Offshore Consultants Ltd
 M3 Marine Group Pte Ltd
 Marex Marine Services Ltd
 Marine Cybernetics
 Maritime Assurance & Consulting Ltd
 Maritime Management Services Inc
 Marqua AB
 Marsh Ltd
 Masstrans Pte Ltd
 MatthewsDaniel
 MCS Free Zone
 Medea srl
 MJR Controls Ltd
 MOS Marine Offshore Service Pte Ltd
 National Hyperbaric Centre Ltd
 Nautronix Ltd
 Navigare International, Inc.
 Nordic Maritime Solutions
 NUI AS
 Offshore Commissioning Solutions
 Offshore Inspection Group Inc
 Offshore Installation Services (OIS) Ltd
 Orwell Offshore Ltd
 PAE Singapore Pte Ltd
 Pageo International Pte Ltd
 Peterson (United Kingdom) Ltd
 Peterson SBS Den Helder BV
 Petrofac Marine Services
 Petrofac Training Services (PTS)
 Petrustech Oil & Gas
 Positioneering Ltd
 Primo Marine
 Proios SA
 PT JF Moore International
 PT Makara Jaya Marine
 PT Pageo Utama
 PT Rigspøk Perksa
 PT Sirius Maritimindo Services
 QinetiQ Ltd
 Red Penguin Associates Ltd
 Reef Subsea Dredging & Excavation Norway AS
 Reel Group Ltd
 Rolls-Royce Power Engineering plc
 Romona Inc
 Schilling Robotics, Inc.
 Sea-Force Hyperbaric Inc
 SeaBotix Ltd
 Seacroft Marine Consultants Ltd
 Seantetics Asia Works Pte Ltd

SeaRoc Group Limited
 Seas Services
 Sebastian AS
 SERSGroup Holding Pte Ltd
 Siemens AG
 Skan-EI AS
 Skuld AS
 Southern Marine Consult AS
 Sparrows Offshore Services Ltd
 Specialist Marine Consultants Ltd
 Spica Marine Inspections Ltd
 STAT Marine SAS
 STET Maritime Pte Ltd
 Sub-Tech Systems Ltd
 SubNet Services Ltd
 Subsea Vision Ltd
 Survey Association
 Thome Offshore Management Pte Ltd
 TMC (Marine Consultants) Ltd
 TMC Marine Pte Ltd
 Transas Marine International AB
 Tristein AS
 Ulstein Marine Systems (Shanghai) Co Ltd
 Underwater Technology Services (S) Pte Ltd
 VShips Ltd
 VerdErg Connectors Ltd
 Veripos
 Vroon Offshore Services Ltd
 VTT Maritime AS
 Westcon Power & Automation AS
 Xing Wei Pte Ltd

Training establishments

ABEL ROV Training Division
 Advanced Offshore Training Centre Pvt Ltd
 Alesund University College
 AMC Search Ltd
 APAVE MARE Training Center (ex AdriaMare)
 ASET International Oil & Gas Training Academy
 Banff & Buchan College
 Bergen University College - Diver Education
 Bibby Ship Management Group Ltd - Middle East & India
 Bibby Ship Management Group Ltd - Europe & Africa
 BS Divers
 Canadian Working Divers Institute
 CDA Technical Institute, Inc
 Centre for Marine Simulation
 CFO - Centro Formazione Offshore
 Code Blue Education Ltd
 DDRC Healthcare
 De Moura Shipping Ltda
 Divers Academy International
 Divers Institute of Technology
 Divers University Esporte Aquático Ltda
 DNV GL
 Ecole Nationale Supérieure Maritime
 Falck Nutech bv
 First Ukrainian Maritime Institute
 Force Technology
 Fundação Homem do Mar
 Global Maritime
 Holland College - Marine Training Centre
 Hull Inspection Services Ltd
 Hydro Oil & Gas Training
 Hydrolab-HydroCAT
 Hyperbaric Training Associates
 i-UTech - Institute for Underwater Technology and Human Resources
 IDESS Maritime Centre (Subic) Inc
 Independent Maritime Security Associates Ltd
 Institut National de Plongée Professionnelle (INPP)
 Interdive Services Ltd
 James Fisher Australia Pty Ltd
 KB Associates (Europe) Ltd
 KBA Training Centre Pte Ltd
 Kirby Morgan Dive Systems
 LBJ Maritime Inc
 Logan's Oil Field Services Ltd
 Lowestoft College
 Marine Solutions (Pty) Ltd
 Maritech Group
 Maritime Institute Willem Barentsz
 Maritime Safety Institute
 Maritime State University named after G.I. Nevelskoy
 Maritime Training & Competence Solutions Ltd
 Mielka Dive Training Institute Ltd/Gte
 MOG Industry Training Co. Ltd
 MSTs Asia Sdn Bhd
 National Hyperbaric Centre Ltd
 National Oceanography Centre, Southampton
 Netherlands Diving Centre
 North Sea Lifting Ltd
 Northern Marine Manning Services
 NZ School of Commercial Diver Training
 Offshore Skills Training Centre (OSTRAC)
 Pan Arab E-Navigation DP Training Center
 PNI Training Centre AS

Polaris Learning Ltd
 Power & Generation Services Ltd
 Professional Diving Academy
 Professional Diving Centre
 PT Barron International
 PT ISBI
 PVD Technical Training and Certification Joint Stock Company
 QSTAR SLU
 Remote Technology Support Ltd
 Romanian Nautical College Association
 RovMarine Technologies
 Satakunta University of Applied Sciences
 SBS Intl Ltd
 SEADOG
 Seahorse Services Corporation - Training
 Seneca College - Underwater Skills Program
 Shanghai Jian Long ROV Technology Co., Ltd
 Ship Modelling & Simulator Centre
 Simsea AS
 Sogn og Fjordane Technical College, Maritime Department Máloy
 STC-Group
 STORM Ltd
 Subnet Recruitment Training and Assessment Services Inc
 SubNet Services Ltd
 Survie Mer Formation
 TATI University College Sdn Bhd
 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 Training Centre of South Australia
 Videotel Marine International Ltd
 WA Maritime Training Centre - Fremantle
 Yak Diving Academy

Personnel agencies

Ace Diving Services CC
 Advance Global Recruitment
 Alfa Petroleum Services
 ANA Subsea Ltd
 Anglo-Eastern Group
 Atlas Services Group Australia Pty Ltd
 Atlas Services Group Energy Ltd
 Bibby Ship Management Group Ltd - Middle East & India
 Bibby Ship Management Group Ltd - Europe & Africa
 Brunel Technical Services Pty Ltd
 Compass Personnel Services Inc
 Connect Energy Services Pte Ltd
 Dave Oliver Hydrographic Services Ltd
 De Moura Shipping Ltda
 EF Consult Asia Pte Ltd
 Hydrosun Ltd
 Inseacon Services
 IV Offshore
 Lerus Ltd
 Maritech Group
 MCL Medics
 NAUREX
 Nedcon Maritime
 Northern Marine Manning Services
 Oceanscan Ltd
 Offshore Marine Services UK Ltd
 Oilfield Medics UK Ltd
 Petrolis SA
 Pharos Offshore Group Ltd
 PR Offshore Services Ltd
 PT Buriliev Maritama Jaya
 Sea Offshore Services (SOS) Pte Ltd
 Seatechs Limited
 Sharp Crewing Services Pte Ltd
 Sheffield Offshore Services Pte Ltd
 Subnet Recruitment Training and Assessment Services Inc
 SubNet Services Ltd
 SubServPro
 Team Trident LLC
 Tehila Limited
 Total Marine Services
 UKPS Offshore
 Verret Marine Services

Naval units

Irish Naval Service
 PT Rigspøk Perksa
 Salvage & Marine Operations IPT

CORRESPONDING MEMBERS

ABS Europe Ltd
 Abu Dhabi Marine Operating Company (ADMA-OPCO)

Agip Kazakhstan North Caspian Operating Co NV
 AISI - Associazione Imprese Subacquee Italiane
 Apache North Sea Limited
 Association of Diving Contractors
 Bahamas Maritime Authority
 Bapco - The Bahrain Petroleum Company
 BG Americas and Global LNG - Central & North America
 BG Americas and Global LNG - South America
 BG Group
 BHP Billiton
 BP America Production Company
 BP Berau
 BP Exploration Operating Company Ltd
 Brunei Shell Petroleum Company Sendirian Berhad
 Cairn India Ltd
 Chevron Brasil Petroleo Ltda
 Chevron Energy Technology Company Subsea
 Chevron Shipping Co
 CNR International UK Ltd
 ConocoPhillips
 ConocoPhillips (UK) Ltd
 ConocoPhillips China Inc.
 Dana Petroleum Netherlands BV
 Dana Petroleum plc
 DNO Oman Limited
 DNV GL AS
 Dolphin Energy Ltd
 DONG E&P AS
 DONG Energy Wind Power AS
 Eni Petroleum US Operating
 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
 Hess Denmark ApS
 Husky Energy
 INPEX Operations Australia Pty Ltd
 Instituto Brasileiro de Petróleo, Gás e Biocombustíveis
 International Association of Oil & Gas Producers (OGP)
 International Diving Schools Association
 Kuwait Oil Company
 Maersk Oil Danish Operations
 Maersk Oil North Sea Ltd
 Maersk Oil Qatar AS
 Marathon Oil Norge AS
 Murphy Sarawak Oil Co Ltd
 National Offshore Petroleum Safety & Environmental Management Authority
 National Workboat Association
 Nautilus Minerals
 Nederlandse Aardolie Maatschappij BV
 Newfield Peninsular Malaysia, Inc
 Nexen Petroleum UK Ltd
 Noble Energy
 NOIA - National Ocean Industries Association
 Offshore Operators Committee (OOC)
 Oil & Natural Gas Corporation Ltd
 Perenco Rio Del Rey
 Perenco UK Ltd
 Petrobras SA
 Premier Oil Natuna Sea
 Premier Oil ONS Ltd
 PT Pertamina Hulu Energi ONWJ
 PTT Exploration & Production plc
 Qatar Petroleum
 Ras Laffan Industrial City
 RasGas Company Ltd
 Santos Ltd
 Sarawak Shell Berhad
 Saudi Aramco
 ScottishPower Renewables
 Shell Global Solutions International BV
 Shell Todd Oil Services Ltd
 Sonangol Pesquisa & Produção
 SSE Renewables
 Statoil ASA
 Subsea UK
 Suncor Energy Inc.
 Talisman Malaysia Ltd
 Talisman Sinopek Energy UK Limited
 The Crown Estate
 TNK Vietnam BV
 Total Austral SA
 Total E&P Indonesia
 Total E&P Nederland BV
 Total E&P UK Ltd
 Total Exploration & Production
 Wintershall Noordzee BV
 Wintershall Norge AS
 Woodside Energy Ltd
 Zakum Development Company (ZADCO)



RECENT & FORTHCOMING EVENTS

- 10-13 March 2014
EWEA Annual Event
Barcelona, Spain
- 11-13 March 2014
Oceanology International
London, UK
- 12 March 2014
IMCA ROV Training & Competence Seminar
(at Oceanology International)
London, UK
- 18 March 2014
Central & North America Section
Houston, USA
- 18 March 2014
IMCA Wire Rope Workshop
Amsterdam, the Netherlands
- 19-20 March 2014
IMCA Safety & Environment Seminar 2014: Opportunities & Exposure in Marine Operations
Houston, USA
- 25-28 March 2014
OTC Asia
Kuala Lumpur, Malaysia
- 8-11 April 2014
Santos Offshore
Sao Paulo, Brazil
- 13-16 April 2014
Annual OSV Forum
Abu Dhabi, UAE
- 14-16 April 2014
Middle East OSJ and
Middle East Dynamic Positioning
Dubai, UAE
- 23-25 April 2014
North Sea Offshore Cranes & Lifting
Aberdeen, UK
- 23 April 2014
IMCA Competence Seminar
Aberdeen, UK
- 29-30 April 2014
Subsea Vessel Operations Europe
Oslo, Norway
- 5-8 May 2014
OTC (Offshore Technology Conference)
Houston, USA
- 15 May 2014
IMCA Golf Day
Aberdeen, UK
- 15 May 2014
South America Section
Macaé, Brazil
- 16 May 2014
IMCA Training & Competence Seminar
Buzios, Brazil
- 21-22 May 2014
All Energy
Aberdeen, UK
- 22-25 May 2014
OSV Brazil
Rio de Janeiro, Brazil
- 28 May 2014
Contracts & Insurance Seminar
London, UK
- 28 May 2014
Mayfair in May
IMCA Social Reception
London, UK
- 10 June 2014
IMCA Competence Seminar
Dubai, UAE
- 20 June 2014
IMCA Midsummer Charity Ball
Aberdeen, UK

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Anti-bribery & corruption seminar

Hosted by the IMCA Contracts & Insurance Workgroup
Wednesday 28 May 2014
4 Hamilton Place • London • W1J 7BQ • United Kingdom



Competence Seminar

Wednesday 23 April 2014
Hilton Treetops Hotel • Aberdeen • UK



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THURSDAY 15 MAY



MIDSUMMER CHARITY BALL
FRIDAY 20 JUNE 2014

MAYFAIR
in
May

IMCA SOCIAL RECEPTION
LONDON, UK
28 MAY 2014