



STATESIDE SEMINAR SUCCESS

We report from our seminar in New Orleans on the future of marine and subsea operations

+ PLUS

SPOTLIGHT ON ROY HAY
IMCA SEEKS NEW STAFF
LATEST CMID UPDATE

Why fleur de lys? See page 3

From the President

Andy Woolgar, Subsea 7
IMCA President 2011



At the nineteenth IMCA annual seminar in New Orleans my keynote address was on how I see the future of marine and subsea operations. The future is rosy if the client base is confident enough to provide contractors with regular contracts and continuity. Confidence generates the investment necessary to assist the technological advances that are required in our challenging industry, and a buoyant industry attracts the manpower needed to utilise it. Each individual component is not guaranteed and we can be knocked off course as an industry.

Other keynote speakers covered the views of Chevron, NOIA, API, Louisiana State and BSEE. Naturally they focused on returning their region's activity to previous levels as well as future expansion. They also shared in the world-wide industry concern in communicating challenges and rewards to the next generation of workforce in readiness for the safe delivery of oil and gas from more remote and challenging locations.

A welcome common message from the speakers was that the conference gathered a significant representation of the marine contracting world, and that IMCA should be part of discussions about matters affecting this sector. This is an important responsibility for IMCA, and its members need to contribute both individually and collectively to the debates. They need to seek out opportunities and points of contact in relevant bodies to do this, and actively respond to calls for comment issued by the secretariat. Only in this way will IMCA's voice truly reflect members' wishes and be heard and respected by relevant bodies. Having earned this recognition we must use it wisely and be careful not to lose it.



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IMCA CORE



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CORE



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REGIONAL



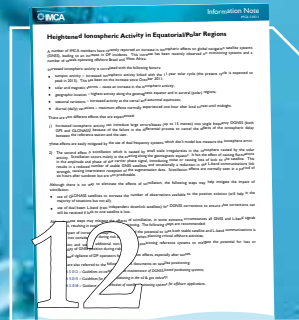
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EVENTS

big talk in the big easy

the IMCA annual seminar enjoys some southern hospitality



This issue's cover shows the fleur de lys – a symbol of New Orleans since its birth – and beads associated with the Mardi Gras that the city is so famous for.

New Orleans, USA hosted the nineteenth IMCA annual seminar from 9-10 November, with its theme on *The future of marine and subsea operations* attracting over 340 delegates. Endorsed by the Offshore Support Journal, IADC, OGP, MTS dynamic positioning committee, API, ADC International, OCIMF and OOC, there was a range of presentations, workshops, social events and an exhibition with stands from 19 different companies.

Hugh Williams welcomed delegates before Alan Allred of EMAS – Chairman, IMCA Central & North America Section – introduced the keynote speakers: IMCA President Andy Woolgar of Subsea 7, Mike Casey of Chevron E&P, Randall Luthi of the National Oceans Industries Association, Erik Milito of the American Petroleum Institute and Secretary Scott Angelle from the Louisiana Department of Natural Resources (DNR), who all spoke on this year's theme and were enthusiastically greeted by the delegates.

The morning plenary session included presentations on deep ocean seafloor extraction, a new reeling method for a state of the art multi-purpose vessel and better workability through DSV integration. The seminar then split into three parallel sessions on Marine, Diving and ROV & Survey. Presentations were given at all three followed by technical workshops covering blackout recovery for DP vessels, ROV installation, working in Arctic conditions, lifeboats and security issues. The day was pleasantly concluded with dinner on board the Steamboat Natchez while cruising down the Mississippi river. Delegates sampled the delicious local cuisine and viewed the steamboat's engine room.

Day two started with a keynote note address by Lars Herbst from the Bureau of Safety and Environmental Enforcement (BSEE) with Bruce Gresham, Heerema Marine Contractors – Vice-Chairman, IMCA Central & North America Section – introducing a plenary session. This included three presentations covering the use of video games in the offshore industry, marine accidents and their investigation, and the impact of fatigue on ships' watchkeeping officers. The technical session again split into three sections and included presentations in Marine, Diving and ROV & Survey. A final plenary session followed with two presentations, one covering process safety and the other the application of STCW 2010 and the Maritime Labour Convention 2006 to the offshore sector. The final workshop sessions covered the topics of the pitfalls of position references, the MLC and its impact on marine contractors, the diving industry for the 21st century, process safety and this year's delegates' choice on vessel assurance.

The workshop sessions and seminar were summarised by Hugh Williams who thanked all speakers, chairmen, attendees and staff involved in the seminar. The seminar was concluded with a lively drinks and buffet reception at Audubon Nature Institute, Aquarium of the Americas.

A CD of all presentations and summaries is being prepared and will be sent to all members and delegates in due course. PB





Hello to Meeta

Meeta Gurtata joined IMCA in November 2011 as our Certification Scheme Assistant. She supports the running of our internationally recognised diving

certification schemes that include IMCA certified diving supervisors and life support technicians. Meeta works with Genine – the Certification Scheme Co-ordinator – and assists with various aspects of the scheme including invoicing, marking exam papers, and issuing results and certificates.

Meeta graduated with a BA (Hons) in Business and Politics and studied for an MSc in Human Resource Management and Organisational Analysis at the University of London. She has experience in human resources from working at a London hotel. *KG*

Pete Fougere – MTS Fellow

Pete Fougere of Transocean was honoured as a Fellow of the Marine Technology Society at the recent Oceans conference in Hawaii, USA. The designation of MTS Fellow is one of the highest MTS accolades an individual can achieve. Since 1975, this title has been awarded to MTS members who have made outstanding contributions to the advancement of the Society's objectives and who have distinguished accomplishments and experience in their professional fields. This is a well deserved award and IMCA is pleased to congratulate Pete. He has served on and been Vice-Chairman of IMCA's Marine Division Management Committee for a number of years, furthering IMCA's work programme, supporting our annual seminar and promoting the memorandum of understanding between MTS and IMCA (reported in the regional news section of *Making Waves* 56). *HW*

IMCA Seeking New Staff

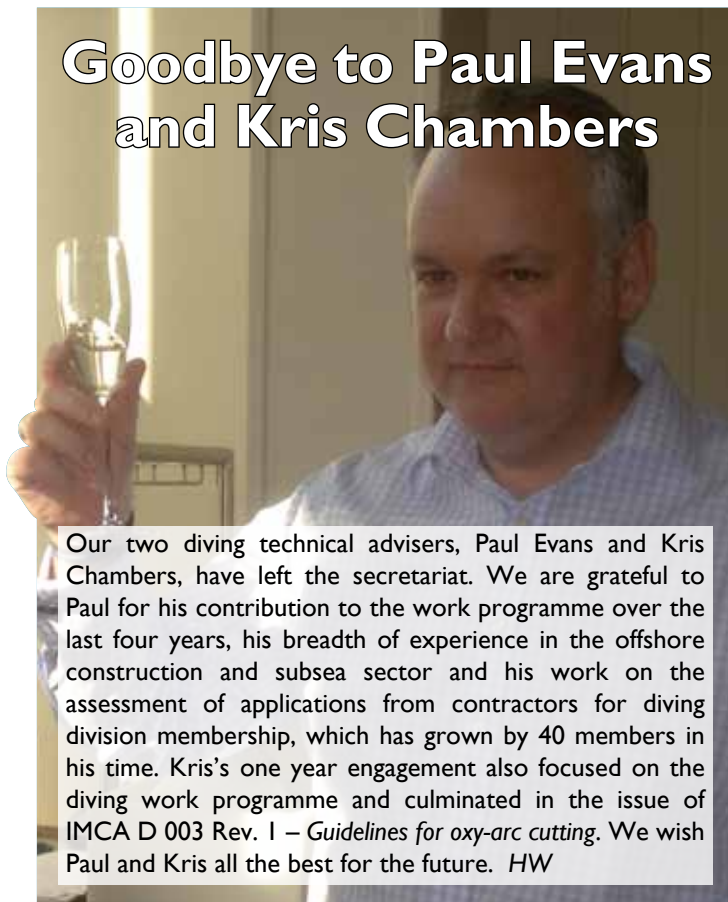
Technical Adviser roles available in both diving and marine divisions

IMCA is seeking two diving technical advisers to join the technical team supporting and implementing a wide-ranging work programme. The roles would suit a graduate engineer with 5-10 years' subsea diving/subsea experience, an offshore diving supervisor or someone with extensive offshore diving or related experience, wishing to be shore based. With responsibility for developing technical guidance, briefing members and co-ordinating committee work, the diving technical advisers will work closely with the Technical Director.

IMCA is also looking for a marine technical adviser to join the team. The role would suit a graduate engineer with 5-10 years' experience of offshore operations, a master or DPO, or someone with extensive experience of offshore construction, wishing to be shore based. Again, with responsibility for developing technical guidance, briefing members and co-ordinating committee work, they will work closely with the Technical Director.

For more information on the above roles please see www.imca-int.com/news/latest or e-mail Jane.Bugler@imca-int.com

Goodbye to Paul Evans and Kris Chambers



Our two diving technical advisers, Paul Evans and Kris Chambers, have left the secretariat. We are grateful to Paul for his contribution to the work programme over the last four years, his breadth of experience in the offshore construction and subsea sector and his work on the assessment of applications from contractors for diving division membership, which has grown by 40 members in his time. Kris's one year engagement also focused on the diving work programme and culminated in the issue of IMCA D 003 Rev. 1 – *Guidelines for oxy-arc cutting*. We wish Paul and Kris all the best for the future. *HW*

IOMOOF

IMCA has helped establish a new forum of international associations involved in offshore marine operations to discuss work undertaken, areas of concern and areas of mutual interest. Meeting at least twice a year, and including similar associations such as IADC, IAGC, ICS, ISOA, OCIMF and OGP, the aim is to get a better understanding of partners' positions on various topics and enable further co-operation where appropriate, including regulation and guidance (for example from IMO).

The group has already met twice this year – at IMCA's London, UK office in March and in Stavanger, Norway in October. There was unanimous agreement on a need for a single informal forum to discuss matters of interest amongst all the organisations involved in offshore oil and gas marine operations world-wide. This forum has been named the International Offshore Marine Operations Organisations Forum, with an acronym that is almost as hard to say: IOMOOF. *HW*

Paul Butler Passes Away

IMCA was saddened to learn of the unexpected death of Paul Butler, Executive Director of the Australian Diver Accreditation Service (ADAS). Paul's love of diving was born in 1962 when he joined the Victoria Police as a member of the Search

and Rescue Squad. Paul had been with ADAS since 1996, taking on the leadership role in 2003. He was instrumental in taking ADAS forward to provide the accreditation service for diving in Australia that is in place today. *JB*

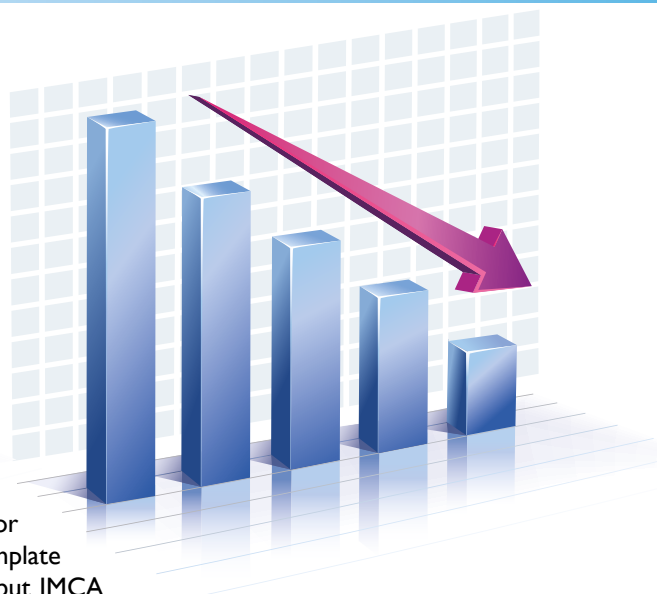
Annual Safety Statistics

Each year IMCA produces a report of safety statistics supplied by members, covering fatalities and injuries, which for many years have provided a useful insight into the health, safety and environment performance of the industry. These statistics record the safety performance of IMCA contractor members each year, enabling IMCA members to benchmark their performance. Last year, statistics were provided by 172 companies and organisations, representing roughly half the marine contractor membership in January 2011.

As the number of contributors rises each year, IMCA's safety statistics become a more authoritative picture of safety in the offshore workplace. We would like to encourage every contractor member to take part in this important exercise in 2012, welcoming both contractors who have previously contributed statistics and contractor members who have not yet taken part.

IMCA will circulate a letter to the SEL representatives of every contractor member in January 2012, inviting the submission of statistics on an Excel template that can be completed in less than 15 minutes. Instructions will be available, but IMCA 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 a number of leading indicators, such as reporting activity level (RAL) and safety observation frequency rate (SOFR). Additionally, members are asked for basic information on causes of LTIs and any fatalities. This information has proved very useful in directing the work programme of the SEL committee, which has suggested that members also contribute information about numbers and types of near miss incidents.

All information received is treated in the strictest confidence. If members have any concerns or questions regarding the IMCA safety statistics programme, please contact Nick.Hough@imca-int.com



Safety Adviser Logbook

IMCA's range of logbooks provides a consistent format that can be recognised by a variety of employing contractors, with training and competence sections that cover all aspects required for assessments under the IMCA competence assurance and assessment framework. The SEL committee is adding to the range and finalising a logbook for an Offshore Safety Adviser. As with other IMCA logbooks, it can be used to record employment, qualifications, certificates and continuous professional development, as well as ongoing competence assessment. The book will soon be available for purchase through the usual channels. Additionally, plans are being developed for a logbook for an Offshore Safety Representative. NH

Key IMCA Publications Translated into Portuguese and Spanish

Eight key IMCA publications have been translated into both South American Portuguese and Spanish, reflecting the increasing internationalisation of IMCA and the growing number of members working in Central and South America. These documents can be downloaded via the IMCA website at www.imca-int.com/regions/southamerica/publications/

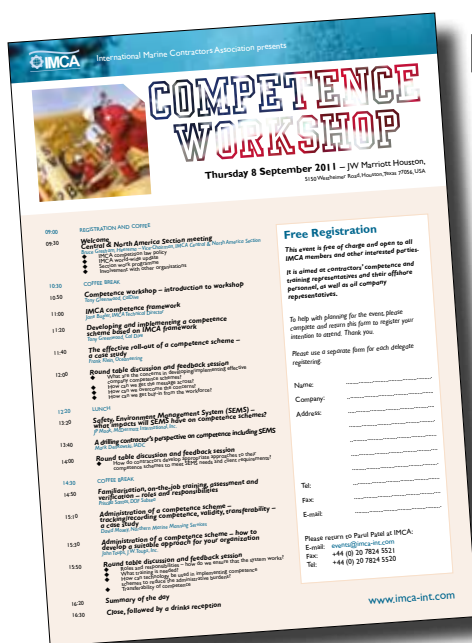
The first eight publications to be translated are:



- ◆ IMCA SEL 014 – *Guidance on travel security;*
- ◆ IMCA SEL 016 – *Guidance on the investigation and reporting of incidents;*
- ◆ IMCA SEL 019 – *Guidelines for lifting operations (also available as IMCA M 187);*
- ◆ IMCA D 014 – *IMCA international code of practice for offshore diving;*
- ◆ IMCA M 103 – *Guidelines for the design and operation of dynamically positioned vessels;*
- ◆ IMCA M 117 – *The training and experience of key DP personnel;*
- ◆ IMCA M 178 – *FMEA management guide;*
- ◆ IMCA S 003 – *Guidelines for the use of multibeam echosounders for offshore surveys.*

KG

core activities



Houston Workshop

The IMCA competence workshop, held in Houston on 8 September 2011, attracted over 70 delegates. It included a presentation on the IMCA competence guidelines that provide a framework – which members can use to develop their company-specific competence schemes – as well as two presentations from members on their in-house competence schemes based on this framework. In the USA, with the US Bureau of Safety and Environmental Enforcement (BSEE) introducing the Safety and Environmental Management System (SEMS)

requirements, knowledge and skills

assessment is now a focus for both oil companies and contractors, so the workshop included two presentations on the impact of SEMS on competence schemes. The seminar concluded that the SEMS requirement to verify the knowledge and skills of employees could be adequately met through a competence assurance programme that was active, verifiable and accredited. Delegates agreed that the workshop provided a timely discussion on the issue of competence, and in particular the regulatory impact of SEMS. *JB*

2012 Competence Workshop

IMCA has held a series of successful competence workshops around the world, the most recent taking place in Singapore and Houston. Planning is underway for the next one, which will take place in Aberdeen in February 2012. A workgroup is developing this event, with the aim of highlighting ways of raising the standard of competence amongst members' offshore personnel. Speakers and presentations on a range of topical issues are currently being identified. Anyone wishing to contribute to the event should contact Nick.Hough@imca-int.com

Pocket Safety Cards

IMCA's pocket cards highlight important safety messages on a wide range of topics in a format that workers can keep at hand. The latest card (number 20) on safety coaching, which is about to go to the printer, covers nine key aspects of the role of a coach and outlines a number of ways that they can help someone willing to learn and develop. The card should be available for purchase (in sets of 100) or download from the IMCA website in the next few weeks. *NH*

IMCA Safety and Environment Seminar

The 2012 IMCA safety and environment seminar will take place in Rio de Janeiro, Brazil on 21-22 March. The theme is *Risk and impact in marine operations* and many of the papers will focus on process safety/asset integrity challenges in marine construction. There will be keynote presentations from Rafael Neves Moura of the Brazilian regulator ANP and Jane Cutler, CEO of the Australian oil and gas regulator NOPSA. The programme will also include presentations on the legal consequences of a Macondo-style accident happening in Brazil, environmental compliance in Brazil, human reliability applied in emergency evacuation and management systems, and barrier failure root causes. As well as presentations, the seminar will include sessions on learning from incidents and round table discussions. *JB*

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- IMCA ALST
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core activities

Project Personnel & the MLC

The ILO Maritime Labour Convention (MLC) will apply to anyone whose main place of work is on board a ship – not just the marine crew. The IMCA MLC workgroup has been comparing the different categories of on board personnel against the ILO guidance, and a workshop exercise at the IMCA annual seminar confirmed its conclusion that the MLC was likely to apply to the vast majority of on board project personnel.

In December IMCA will be participating in a meeting at ILO headquarters in Geneva, Switzerland to establish the ILO tripartite committee, made up of representatives from governments, shipowners and seafarers' unions. The committee will oversee the MLC, including providing expert advice on its interpretations and managing any amendments.

The MLC is expected to be in force by the end of 2013, and is likely to be applied by most of the key offshore flag states and the main coastal states with oil and gas interests, so companies should start preparing now. The IMCA MLC workgroup is developing guidance for members, and companies are encouraged to start comparing their procedures against the main MLC requirements.

For further details, please contact

Emily.Comyn@imca-int.com

IRF Summit

IMCA was invited to participate in the safety summit conference of the International Regulators Forum (IRF) in Stavanger, Norway on 4-5 October. Several IMCA members were also represented alongside other organisations who work with IMCA.

The IRF exists to discuss and co-ordinate work between ten regulators from the Americas, the North Sea, Australia and New Zealand, and this extraordinary meeting was to discuss regulation post Macondo and Montara.

Each country had focused on preventing, containing (if necessary) and stopping similar incidents through regulation, technology and worksite behaviour. However, less was visible in terms of the various parties working together to provide common regulations or solutions, to prevent different events or events from further up the decision tree than the worksite. The event's high-level attendees and format – including several round-table workshops – provided significant opportunities for feedback that can be taken forward by the IRF into its subsequent meetings. *HW*



STCW Convention Amendments

Summarised in information note IMCA SEL 20/10 (C 05/10 & M 20/10)

A reminder that the 2010 amendments to the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (the STCW Convention and Code) enter into force on 1 January 2012.

There will be a five year transition period for seafarers who started their training or seagoing service before 1 July 2013, but the new security training requirements for everyone on board will apply to existing personnel from 1 January 2014. *EC*



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regional news

Central & North America

Alan Marriott of Technip is the new section Vice-Chairman, taking over from Bruce Gresham of Heerema Marine Contractors. We thank Bruce for his service and welcome Alan in his new role.

The latest meeting was in New Orleans, USA on 8 November 2011 – the day before the annual seminar – with discussions on DP incident reporting and how to achieve workforce buy-in for competence schemes. The next meeting is planned for early March 2012 in Houston, USA to coincide with the Subsea Tiebacks conference.

SEMS

IMCA has been keeping members up to date on developments on the US Safety and Environmental Management System (SEMS) requirements, including the 'SEMS II' proposals to expand the SEMS programme. There are concerns that the SEMS II amendments could cause regulatory confusion and possible overlap with existing US Coast Guard rules for ships. IMCA has helped co-ordinate members' response to SEMS II and contributed to a joint industry submission, with the hope that the scope of the new requirements will be clarified. Members will be kept up to date.

South America

The latest section meeting was held on 21 September 2011 at the Windsor Guanabara Hotel, Rio de Janeiro, Brazil. Presentations were given on competence, skills shortages and two local parallel associations – ABESPetro and ABEAM. The section is also helping to formulate plans for IMCA's Safety & Environment Seminar which will take place on 21-22 March 2012 at the Sofitel Hotel in Rio.

Asia-Pacific

The section has a new Vice-Chairman – Bill MacDonald of Mermaid Offshore Services – taking over from Steve MacMillan of McDermott International Inc., who has moved into the Chairman position. We welcome Bill and Steve in their new roles. The latest meeting was held in Kuala Lumpur, Malaysia in September 2011, and included presentations on the optimisation and preservation of off-hire assets and dry underwater welding. The next meeting will take place in Bangkok, Thailand on 12 January 2012.

NOPSA review

IMCA has contributed to the second operational review of the Australian National Offshore Petroleum Safety Authority (NOPSA). IMCA acknowledged

the good working relationship between IMCA and NOPSA but stressed the need for better recognition of vessel standards and a more consistent approach to the implementation of the safety case regime. The review's draft report is expected before the end of this year.

Europe & Africa

Pascal Grosjean of Technip has taken over as section Chairman from Wim de Boer of Heerema Marine Contractors, with Jim Sommerville of Fugro continuing as Vice-Chairman. We welcome Pascal and Jim in their roles, and thank Wim.

UK pension reforms

IMCA has raised concerns about UK government plans to extend the automatic pension enrolment requirements to all personnel working on the UK continental shelf and to all seafarers on vessels leaving a UK port. This would apply irrespective of the employees' nationality or place of residence, or where the employing company is based or ship registered. While IMCA fully supports moves to ensure that offshore workers and seafarers have access to the same benefits afforded to shore-based workers, these proposals do not take account of the mobile and international nature of the

offshore

vessel workforce and would potentially apply to large numbers of workers with no link to the UK. IMCA has therefore urged the UK government to limit the pension requirements to employees with a strong connection to the UK.

EU drilling safety proposals

At the end of October 2011, the European Commission published formal legislative proposals on EU drilling safety. The proposed regulation on EU-wide health, safety and environmental standards for offshore oil and gas activities is largely based on the regime already in place in the UK, but some industry players are concerned that the proposals would pave the way for E&P activities to be regulated by the EU, potentially undermining national competence.

Middle East & India

The next meeting will take place in Jebel Ali, Dubai on 18 January 2012, followed by a workshop on the ILO Maritime Labour Convention.



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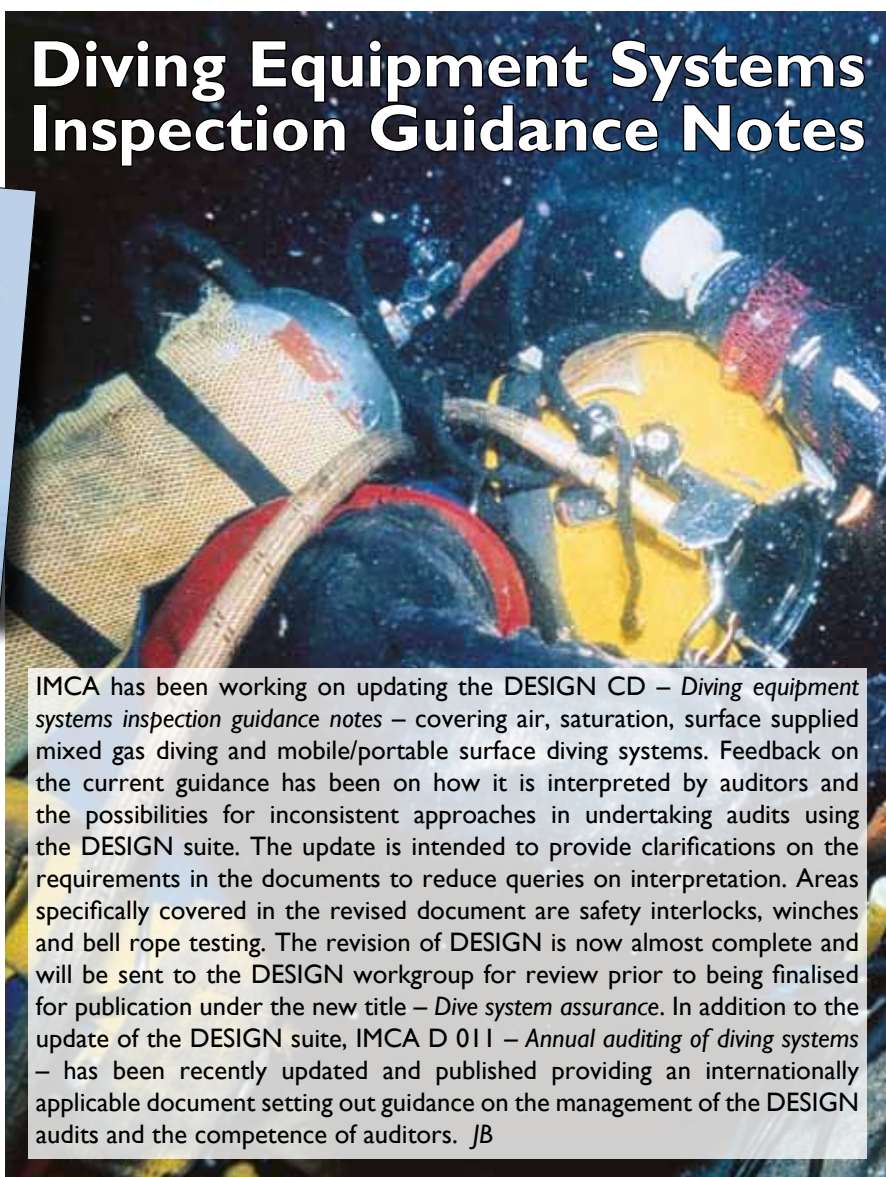
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Jetting Equipment

AODC 049 – Code of practice on the use of high pressure jetting equipment by divers – is being updated. It has been extended to cover both high and ultra-high pressure jetting equipment and includes recent safety flashes on high pressure water jetting equipment, identifying additional guidance as a result. The document is currently being finalised for publication. JB



Diving Equipment Systems Inspection Guidance Notes



IMCA has been working on updating the DESIGN CD – Diving equipment systems inspection guidance notes – covering air, saturation, surface supplied mixed gas diving and mobile/portable surface diving systems. Feedback on the current guidance has been on how it is interpreted by auditors and the possibilities for inconsistent approaches in undertaking audits using the DESIGN suite. The update is intended to provide clarifications on the requirements in the documents to reduce queries on interpretation. Areas specifically covered in the revised document are safety interlocks, winches and bell rope testing. The revision of DESIGN is now almost complete and will be sent to the DESIGN workgroup for review prior to being finalised for publication under the new title – Dive system assurance. In addition to the update of the DESIGN suite, IMCA D 011 – Annual auditing of diving systems – has been recently updated and published providing an internationally applicable document setting out guidance on the management of the DESIGN audits and the competence of auditors. JB

Acrylic Viewports

Update to AODC 030 to be published soon

Acrylic plastic viewports are used in many pressurised systems, under a variety of conditions world-wide, and this document was produced initially to provide general guidance.

The update provides additional guidance on the deterioration of viewports, as well as identifying a reference document providing technical criteria and guidelines for the inspection, care, testing and re-certification of acrylic viewports. The revised document is being finalised and will be published shortly. JB



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DP Trials

Earlier this year IMCA published IMCA M 190 – *Guidance for developing and conducting annual DP trials programmes for DP vessels*, which contained an example of an annual DP trials report. IMCA has now published IMCA M 212 – *Example of an annual DP trials report* – that provides the example report as a separate document. This replaces IMCA M 139 – *Standard report for DP vessels' annual trials* – that has now been withdrawn. JB



CMID Update

There are currently 300 vessel operators on the database representing 447 vessels, with 130 CMID reports uploaded. IMCA is keen to assist vessel operators, clients, inspectors and other industry

organisations in utilising the eCMID and the CMID database to its full potential.

Another series of CMID database workshops was held in Doha, Qatar and Abu Dhabi, UAE in October 2011, and these provided useful feedback that IMCA and the CMID Steering Committee will be considering. Further workshops for the Asia-Pacific region are planned in Singapore during early 2012 and more details will be released soon.

Gordon Kelly – the CMID Database Administrator – was on hand at the IMCA annual seminar to answer any attendees' questions regarding the database and the eCMID. If you have any feedback on the CMID database, please contact him Gordon.Kelly@imca-int.com

Reported problems with the use of the PDF electronic form version of CMID issue 8 are being addressed and it is anticipated an improved version of the PDF form will be available for download from the IMCA website in the near future.

The third issue of the CMID newsletter will soon be emailed to all database users and interested parties.

Anyone not currently receiving the newsletter who wants to should also contact Gordon. GK/IG

DP Operator Training

In recent years the subject of training DP operators and others involved in these operations has been under scrutiny by various groups, which has resulted in the inclusion of DPO training and experience in Part B of the STCW Convention and Code. Some maritime administrations and organisations, such as the US Coast Guard (USCG) and the Marine Technology Society's Dynamic Positioning Committee, have reviewed the subject and it is anticipated that further guidance and regulation on all aspects of DP will follow.

As custodians of the internationally recognised Dynamic Positioning Operator Training Scheme, the Nautical Institute recently held a DP Training Executive Group meeting, attended by the NIHQ personnel, representatives of the training centres and the industry organisations – including IMCA, IADC and OCIMF, who act as advisers to the group. Topics discussed were DP time verification, DPO certificate revalidation, DP time for those serving aboard vessels with automatic position mooring or thruster assist mooring systems, the UK Chamber of Shipping's proposals on DP training and certification for OSV personnel, and the training of cadets in DP.

IMCA is aware of the USCG's initial approach on the subject of DP that states it is interested in "training, roles and authority, proper operation of equipment as designed". At the moment the USCG is consulting with the industry and further developments are expected in due course.

Feedback can be sent to Ian.Giddings@imca-int.com



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IMO Update

Enclosed space entry – updated guidance and new drills requirement

IMCA participated in the review of the IMO recommendations for entering enclosed spaces aboard ships, which are due to be adopted by the IMO governing Assembly in November 2011.

IMO has agreed to introduce new requirements for enclosed space entry and rescue drills, and also to mandate the carriage and continuous use of oxygen meters. Members will have the chance to comment on the detail of the new requirements, before the new regulations are finalised sometime in 2012.

New towing and anchor handling stability guidance

The Norwegian government has submitted detailed proposals for new unified stability criteria and operational guidance for vessels engaged in towing and anchor handling operations. IMO has already agreed in principle to amend the 2008 International Code on Intact Stability (IS Code), but the Norwegian submission has been circulated to IMCA marine contacts. Members are encouraged to review the details and help inform IMCA's position at the IMO working group, expected to develop the draft amendments in January 2012.

Damage stability

Members' feedback is also being sought on proposals for IMO to upgrade the damage stability requirements for OSVs over 100 metres in length and OSVs carrying liquids in bulk.

Windfarm vessel standards

IMO has been asked to clarify standards for windfarm vessels. Some guidance may be helpful, as long as traditional offshore vessel classifications continue to be recognised.

Further guidance on armed guards

In September 2011, IMCA participated in a special IMO maritime security and piracy meeting, which developed further interim guidance on the use of privately contracted armed security personnel on board ships. IMO does not endorse the carriage of armed guards, but the guidance is to assist in cases where flag states have decided to permit the use of armed guards on their ships.

Antarctic fuel oil ban

As of 1 August 2011 the carriage or use of heavy grade fuel oils in the Antarctic area is prohibited. Ships trading to the area will need to switch to a different fuel type when transiting the Antarctic area, although an exception is envisaged for vessels engaged in securing the safety of ships or in a search-and-rescue operation.

For more details on IMO issues, please contact

Emily.Comyn@imca-int.com



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Offshore Survey Sensors

A workgroup will shortly be developing a document on shore-based calibration and offshore verification of offshore survey sensors. The intent is to set the basis for common client and contractor expectations in terms of the wide variety of sensors used in offshore surveying, promote agreement on set tests for verifying calibration of sensors, and work towards agreement on the frequency of sensor calibrations. Respected industry consultant Gordon Johnston will head the workgroup, looking at methodologies, influences on various systems, manufacturers' calibration and users' deployment checks. IMCA hopes to have the document ready for publication by mid 2012. *NH*

Satellite Positioning

IMCA continues to follow developments in satellite positioning. One has been the USA "LightSquared" proposals to build a wireless broadband communications network that could interfere with GPS receivers. Recent news suggests that the valid technical opposition to these plans has been taken seriously by the authorities in the USA.

During the Autumn, a number of IMCA members working in equatorial regions reported an increase in ionospheric effects on global navigation satellite systems (GNSS), leading to an increase in DP incidents. IMCA published information note S 05/11 about this, describing a number of factors that have been linked with increased ionospheric activity – elevated sunspot activity with the 11 year solar cycle (the present cycle is expected to peak in 2013), solar and magnetic storms, seasonal and diurnal variations in the atmosphere, and geographical location – and steps that may help to mitigate the effects. IMCA has a range of technical guidance on satellite positioning that can be downloaded from the IMCA website. *NH*

Personnel Statistics

The Offshore Survey Division Management Committee, as part of its competence work for offshore personnel, is undertaking a survey of personnel employed by members world-wide. IMCA believes it would be beneficial to know where, and in what capacity, freelance survey personnel are employed by its members. The survey will establish numbers working in offshore survey related roles at a given point in time and whether they were permanent or freelance. This will be a useful indication of trends and other factors and will assist IMCA in targeting competence materials.

Results from over 20 contractors allow some preliminary observations to be drawn. In some parts of the world freelance personnel are in the majority, with fewer agency personnel elsewhere. The spread of agency personnel differs with discipline, with geophysicists having the highest percentage

of freelancers. A clear trend is that that the industry employs a greater number of freelance personnel during the northern hemisphere summer. *NH*

Inertial Navigation Systems

INS technology, relatively new to the offshore industry, is becoming increasingly available and widely used by members. It is generally used offshore in conjunction with other positioning systems in a hybrid or aided form, where data input from existing positioning systems is used to augment INS data, providing a more robust and accurate overall positioning solution than with a single system. A workgroup of members of the Offshore Survey Division Management Committee is preparing a review of available INS technology, which will look at the various ways in which INS systems can be augmented by other positioning systems, and the strengths and weaknesses of each technique. *NH*

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ROV Workshop at Oceanology International 2012



IMCA will once again be holding a half day workshop during Oceanology International on Wednesday 14 March 2012 at the ExCeL Conference & Exhibition Centre, London. The theme for the event will be *the diverse role of the ROV simulator*.

The modern ROV simulator is a very sophisticated piece of equipment and is used extensively for training of personnel, both offshore and onshore. Simulators are increasingly being used for other applications including project modelling, tooling interfacing and accident investigation. The workshop's aim is to present and discuss current and future ROV simulation technology and will consist of five presentations followed by a workshop session. A call for papers has been sent to all ROV members. PB

Update of IMCA R004

At the recent ROV Division Management Committee meeting the need to revise IMCA R 004 – *Code of practice for the safe and efficient operation of remotely operated vehicles* – was discussed. It was agreed that the document is in need of an update and a number of topics have been identified for review. The committee put together a small task force to undertake the work and the revision process will begin soon. PB

Last Call for ROV Stats

As the year is nearly at an end it is time for a final check that ROV statistics have been submitted to IMCA. We will start to process the statistics early in 2012 and the report will be issued towards the end of Q1. If you have lost your report form a new one can be obtained from Paul.Bayliss@imca-int.com, which is also the address to send the completed forms to. PB

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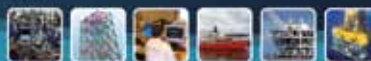
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SPOTLIGHT ON ROY HAY

Roy Hay is Director of Offshore Personnel Services within Technip Marine Operations Services and serves as Vice-Chairman of IMCA's Competence & Training Core Activity Management Committee. In this article he discusses his 'day job' and provides a personal insight into the work his committee is currently undertaking on behalf of members in his division.

Please tell us about your company and what it does

I work for Technip, a world leader in project management, engineering and construction for the energy industry. From the deepest subsea oil and gas developments to the largest and most complex on and offshore infrastructures, our 25,000 staff are constantly offering the best solutions and most innovative technologies to meet the world's energy challenges. Present in 48 countries, Technip has state-of-the-art industrial assets on all continents and operates a fleet of specialised vessels for pipeline installation and subsea construction.

“ We need to re-energise the focus on attracting young people into the industry ”

What is your current job?

I am Director of Offshore Personnel Services within Technip Marine Operations Services, which is responsible for the provision of vessels, equipment and offshore personnel delivering Technip's world-wide subsea project commitments. I have worked for Technip for seven years – the past five in this role.

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

Following a degree in English and modern history, I commenced work with the Construction Industry Training Board in a training role, before moving on to the Tarmac Group, where I worked for almost 15 years, progressing from Personnel Officer to HR Manager of the Building, Social Housing and Mechanical and Electrical Services divisions, completing my HR qualifications along the way.

“ I see constraints around the industry's ability to crew the increasing number of vessels available ”

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

The precarious state of the world economy, the recovery of the markets we serve and the implications of this on the industry's ability to respond – particularly in crewing terms. During the last 'boom' we were constrained by the vessel tonnage available; this time I see constraints around the industry's ability to crew the increasing number of vessels available with competent, suitably experienced personnel.



“ I can see IMCA's role and influence increasing ”

How can these issues be taken forward?

From an industry perspective, I believe we need to re-energise the focus on attracting young people and other new starts into the industry. At company level it is about developing strategies and allocating budgets to enable sufficient recruitment, training and familiarisation of new personnel, and in greater numbers than before. This will require us to think differently and make better use of new technology, for example e-learning and simulation techniques.

How do you think IMCA makes a difference?

By supporting and encouraging common standards and, as a consequence, increasing professionalism in the industry amongst the membership and beyond. The input of the industry through the various

committees and working groups, supported and guided by the IMCA secretariat, makes for a very powerful group that really influences the way we work to reduce incidents and improve safety in all areas. I can see IMCA's role and influence increasing further in the future as clients and jurisdictions increase their expectations of the contractors working for them.

“ I am positive about the future of the industry ”

How do you see the future?

I am positive about the future of the industry, which – despite the many and various challenges – remains a great place to work with tremendous opportunities for those involved in it, both on and offshore.



IMCA

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makingwaves

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

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

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

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Once you have finished with this magazine please recycle it.

Welcome to the IMCA Directory!

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

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

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

NEW PUBLICATIONS

- ◆ **Guidelines for oxy-arc cutting, Rev. 1** (IMCA D 003)
- ◆ **Diver and ROV based concrete mattress handling, deployment, installation, repositioning and decommissioning** (IMCA D 042, IMCA R 016)
- ◆ **Example of an annual DP trials report** (IMCA M 212)

SAFETY FLASHES

- ◆ **Safety flash 10/11** – covering seven incidents: Oxygen regulator explodes causing injury; Lifeboat drill – near casualty; Gimballed frying pan – handle assembly failure; Serious injury as a result of a fall from height; Fatality during rope access work; Collision between vessel and installation resulting in damage to both; Mooring line operational safety
- ◆ **Safety flash 11/11** – covering eight incidents: Failure of pressure washer; Equipment damage – dropped ROV/ Tether Management System (TMS); Grinding disc with defects; Gas detector safety alert; Collision between OSV and barge; Oil spill in port whilst discharging waste oil; Fire extinguisher recall – faulty equipment; Pilot ladder failure
- ◆ **Safety flash 12/11** – covering eight incidents: Offshore tank container rigging failure; Near miss: Dropped object: 6kg sledge hammer head; Near miss: Crane winch wire damaged crane cab during heavy seas; Near miss: Diver working under suspended load; Fast rescue boat dropped 18m into sea – injuring crew; Dynamic positioning (DP) system failure; Engine room CO₂ isolating valve; Engine room fire on offshore vessel
- ◆ **Safety flash 13/11** – covering seven incidents: Near miss: Dropped taut wire clump weight; LTI: Thumb injury; Near miss: Winch wire parted and crane block dropped; Fall protection product recall; Failure of rescue boat release mechanism; Person injured by parts ejected under pressure; Fatal diving incident

INFORMATION NOTES

COMPETENCE & TRAINING

IMCA C 10/11 Compulsory online application for the Nautical Institute dynamic positioning operator certification
11/11 Dynamic Positioning Training Executive Group (DPTEG) Meeting

SAFETY, ENVIRONMENT & LEGISLATION

IMCA SEL 13/11 Best management practices for protection against Somalia based piracy
14/11 Lifeboat hooks – new design requirements and industry guidance

DIVING DIVISION

IMCA D 08/11 Non-destructive evaluation (NDE) testing of gas cylinders

MARINE DIVISION

IMCA M 16/11 Best management practices for protection against Somalia based piracy
17/11 The Nautical Institute Dynamic Positioning Operator Certificates
18/11 Dynamic Positioning Training Executive Group (DPTEG) Meeting
19/11 Dynamic Positioning System Failure
20/11 Lifeboat hooks – new design requirements and industry guidance
21/11 Heightened ionospheric activity in equatorial/polar regions

OFFSHORE SURVEY DIVISION

IMCA S 05/11 Heightened ionospheric activity in equatorial/polar regions
06/11 OGP Geospatial Integrity of Geoscience Software (GIGS) initiative

COMMITTEE MEMBERS

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

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Diving:	Jim Knight, Heerema Marine Contractors	Central & North America:	Alan Allred, EMAS Alan Marriott, Technip USA
Marine:	Joar Gangenes, Subsea 7 Ian Mitchell, Technip	Europe & Africa:	Pascal Grosjean, Technip Jim Sommerville, Fugro
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ROV:	Will Primavesi, Specialist Subsea Services Walter Steedman, Veripos	South America:	Giorgio Martelli, Saipem Gilles Lafaye, Subsea 7
	Neil Milne, Subsea 7 Espen Ingebreetsen, Oceaneering International		

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 James Fisher & Sons plc
 Jan De Nul nv
 Japaul Oil & Maritime Services plc
 Jeruzeth International Engineering Co Ltd
 Jifmar Offshore Services

Jumbo Offshore VoF
 KD Marine Ltd
 Khalifa A Algosaibi Diving & Marine Services
 Knutsen OAS Shipping AS
 Kreuz Subsea Marine Pte Ltd
 Kreuz Subsea Pte Ltd
 L&T Sapura Shipping Pvt Ltd
 Lamnalco Group
 Lamnalco West Africa
 Lauritzen Offshore Services AS
 LD Travoccean
 Legacy Offshore LLC
 Leighton Contractors Pty Ltd
 Leighton Offshore Pte Ltd
 LLP FSDS
 Louisiana Overseas Inc
 Maersk Drilling
 Maersk Supply Service
 Maridive & Oil Services
 Maridive & Oil Services (SAE)
 Maridive Offshore Projects
 Marine Consulting
 Marine Engineering Diving Services
 Marine Platforms Ltd
 Maritime & Underwater Security Consultants
 Maritime Asset Security and Training Ltd
 Master Tech Diving Services
 MENAS – Middle East Navigation Aids Serv
 Mermaid Marine Australia Ltd
 Mermaid Offshore Services Ltd
 Miclyn Express Offshore Pte Ltd
 MMT (Marin Mätteknik AB)
 Mohn Drilling AS
 Mutawa Marine Works Est
 N-Sea
 Namibia Subtech Diving and Marine (Pty) Ltd
 National Marine Dredging Co
 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
 NorSkan Offshore Ltda
 Northern Marine Management Ltd
 Ocean Installer
 Ocean Technologies Geomatics Sdn Bhd
 Ocean Works Asia Inc.
 Oceaneering International (UK)
 Oceaneering International Asia Pacific
 Oceaneering International Inc.
 Oceaneering Marine Prod Systems do Brasil
 OceanWorks International Inc
 Octomar
 Odebrecht Oil & Gas
 Odfjell 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 Services
 Offshore Subsea Works Sdn Bhd
 Offshore Technology Solutions Ltd
 Olympic Shipping AS
 Orogenic GeoExpro Sdn Bhd
 OSM Offshore AS
 Overseas AST Co LLC
 P&O Maritime Services Ltd
 P&O Maritime Services Pty Ltd
 Pacific Crest Pte Ltd
 Pacific Drilling Services Inc
 Pacific Richfield Marine Pte Ltd
 PBJV Group Sdn Bhd
 Pearl River Offshore Limited
 Pelican Offshore Services Pte Ltd
 Petroleum Marine Services Company
 PetroUsaha Engineering Services Sdn Bhd
 PFCE Ocean Engineering Sdn Bhd
 Phoenix International
 PRONAV Ship Mgment GmbH & Co KG
 Prosafe Offshore Ltd
 PT Advanced Offshore Services
 PT Bahtera Niaga Internasional
 PT Ekanuri Indra Pratama
 PT Jaya Salvage Indonesia
 PT Lancar Rejeki Berkas Jaya
 PT Patra Dinamika
 PT Prima Mitranata
 PT Samudera Biru Nusantara
 PT Wintermar
 PTSC Geos & Subsea Services Co Ltd
 Queiroz Galvão Óleo e Gás
 Rana Diving spa

RBG Ltd
 RED7MARINE Ltd
 Reef Subsea
 REM Offshore ASA
 Rolv Berg Drive AS
 Romona Inc
 ROV Resources (M) Sdn Bhd
 RRC Robótica Submarina SA
 Rubicon Offshore International Pte Ltd
 RWEL OLC GmbH
 Sahara Petroleum Company
 SAL Shipping
 Sapura Diving Services Sdn Bhd
 SapuraAcergy Sdn Bhd
 Sarku Engineering Services Sdn Bhd
 SAROST SA
 SB Submarine Systems Ltd
 SBM Offshore NV
 SC Shark SRL
 Scaldis Salvage & Marine Contractors NV
 Sea Trucks Group – Asia-Pacific
 Sea Trucks Group – Europe & Africa
 Sea Trucks Group FZE
 Seabed AS
 Seacor Marine (International) Ltd
 Seacor Offshore Dubai LLC
 Seadrill Americas Inc
 Seadrill Management AS
 SeaHold GeoShips Limited
 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
 Siem Offshore Contractors GmbH
 Simon Møkster Shipping AS
 SMIT
 SMIT Subsea Africa
 SMIT Subsea Asia-Pacific
 SMIT Subsea Australia Pty Ltd
 SMIT Subsea Europe
 SMIT Subsea Middle East LLC
 SOLL-R
 Solstad Offshore Asia Pacific Ltd
 Solstad Offshore Ltda
 Solstad Shipping AS
 Songa Offshore SE
 Specialist Subsea Services Ltd
 Stanford Marine
 Stapem Offshore SA
 Stena Drilling Ltd
 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
 Switzer
 Swiber Offshore Construction Pte Ltd
 Swire Pacific Offshore Operations Pte Ltd
 Target Engineering Construction Co
 Technip Oceania Pty Ltd
 Technip USA, Inc.
 Technocean AS
 Tecnosub
 Teekay Norway AS
 Tidewater Inc.
 Tidewater Marine North Sea Ltd
 Tideway Offshore Contractors
 Timsah Shipbuilding Company
 TL Geohydrographics Sdn Bhd
 Topaz Marine
 Topaz Marine – Azerbaijan
 Topaz Marine – Kazakhstan
 Topaz Marine MENA
 Total Marine Technology Pty Ltd
 TPSMI Group Ltd
 Transocean
 Transoceanic Cable Ship Company Inc.
 Troms Offshore AS
 UMC International plc
 Underwater Services Company Ltd
 Unicom Management Services (Cyprus) Ltd
 Unidive Offshore Pte Ltd
 Unimar Ltd
 URS nv

UTEC Survey Asia Pte Ltd
 UTEC Survey Construction Services Ltd
 UTEC Survey, Inc.
 V.Ships Ltd
 Van Oord Offshore BV
 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
 Wilhelmssen Ship Management (Norway) AS
 Workfox BV
 Workshops Contractors BV
 Zakher Marine International
 Zamil Offshore Services Company

SUPPLIERS

Suppliers of equipment

ABB AS, Marine Division
 ABB Ltd
 ABB Pte Ltd
 AC Plus Marine Inc.
 ACE Winches
 Advanced Marine Pte Ltd
 Air Liquide America Specialty Gases LLC
 Air Liquide UK Ltd
 Air Products Middle East FZE
 Air Products plc
 Air Products Singapore Pte Ltd
 Amron International Diving Supply Inc
 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
 Converteam UK Ltd
 CUEL Ltd
 Deep Down Inc.
 DeepOcean Group Holding AS
 Divetechnoservice Ltd
 Divex Asia Pacific
 Divex FZE
 Divex Ltd
 Dominion Gas
 Dominion Gas Asia Pacific Pte Ltd
 Dräger Safety
 Drass Energy
 Eastar Offshore Pte Ltd
 Emphor FZCO
 Fincantieri Cantieri Navali Italiani spa
 Franklin Offshore International Pte Ltd
 Fugro GRL
 Fugro-TSM Pty Ltd
 Global Gases Australia Pty Ltd
 Global Gases Group FZCO
 Global Gases Group Singapore Pte Ltd
 Global Gases South Africa (Pty) Ltd
 GMC Ltd
 Great Offshore Ltd
 Greatship Subsea Solutions (Australia & AP)
 Guidance Navigation Ltd
 Huse Engineering AS
 Hydrasun
 IHC Hytech BV
 Intron Plus
 IUC Group Inc
 IUC Technologies Inc
 IXSEA
 Joint-Stock Company 'Oceanos'
 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
 Kystdesign AS
 L-3 Communications
 Lexmar Engineering Pte Ltd
 Liebherr Sunderland Works Ltd
 Mako Technologies LLC
 Marine & Diving Services Ltd
 MCA Electric Co Ltd
 MCS Free Zone
 Measurement Devices Ltd

MJR Controls Ltd
 Molecular Products Ltd
 Nautronix Ltd
 Navis Engineering OY
 NSW Technology Ltd
 Oceancan 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
 Redaelli Tecna spa
 Rigmare FZC
 Rolls-Royce Marine AS
 Rolls-Royce Oy Ab
 Rolv Berg Drive AS
 Rovsco Asia Pte Ltd
 Saab Seaeeye Ltd
 Samson Rope Technologies
 SBM Offshore NV
 Schilling Robotics, Inc.
 Sea and Land Technologies Pte Ltd
 Sea Software Packages & Technologies Ltd
 Sea Trucks Group FZE
 Seaflex Ltd
 Sealion Shipping Ltd
 Seanetics Asia Works Pte Ltd
 Seaswift Subsea Engineering LLC
 Seatools BV
 Serimax Ltd
 Siem Offshore AS
 Singapore Oxygen Air Liquide Pte Ltd
 Skan-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
 TGH AP Pte Ltd
 The Tritanium Company bv
 Totalmat Indústria e comércio de
 Equipamentos Hiperbáricos Ltda
 Trelleborg Protective Products AB
 Trim Systems Pte Ltd
 Ulstein Marine System (Shanghai) Co Ltd
 Underwater Technology Services (S) Pte Ltd
 Unique Hydra
 Unique System (UK) Ltd
 Unique System FZE
 United Subsea Engineering Pvt Ltd
 Vanguard Offshore Pte Ltd
 Velocious Pty Ltd
 Vroon Offshore Services Ltd

Suppliers of services

Abermed Ltd
 Acteon Angola Limitada
 Advanced Marine Pte Ltd
 AIMS Ltd
 Air Products Singapore Pte Ltd
 Alfa Petroleum Services
 Alliance Marine Services
 Anglo-Eastern Group
 Anglo-Eastern Group (Asia-Pacific Region)
 Applied Research International Pvt. Ltd
 ASP Rope Access
 Auto Dynamic Positioning Services Ltd
 Babcock Int Group Marine & Technology Div
 Bahrain Ship Repairing and Engineering Co
 Baker Marine Solutions
 Blade Offshore Services Ltd
 Blue Water Engineering (M) Sdn Bhd
 BOATLABS AS
 Braemar Falconer
 Bruce Offshore Ltd
 BSA Offshore AS
 C-MAR Group
 CAPE Group Pte Ltd
 Cescor srl
 Consortium Underwater Engineers Ltd
 Construction Specialists Ltd (CSL)
 Cosalt
 Deep Diving Consultancy Ltd (DDC Ltd)
 Deep Down Inc.
 Delta Marine Technologies Inc
 Derrick Services (UK) Ltd
 Derrick Services (UK) Pte Ltd
 Divetechnoservice Ltd
 Diving and Offshore Works
 Consultancy (DOWC)
 DMC Offshore UK Ltd

DOF UK Ltd
DRC Dive Systems
Dynamic Surveys
Echelon Claims Consultants Ltd
Egyptian Company for Oil Services (ECOS)
Emirates Industrial Laboratory
ETPM Ltd
Explorer Marine SBoSS ApS
Fearnley Offshore Supply
Fender & Spill Response Services
First Marine Solutions Ltd
Flinders EMA Pte Ltd
Franklin Offshore Europe BV
Franklin Offshore International Pte Ltd
GL Noble Denton
GL Noble Denton – Asia-Pacific
GL Noble Denton – Cen & North 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 Ltd – S America
IMEC
Independent Risk Solutions BV
Inter Mar Technology Ltd
InterMoor Marine Services Ltd
Interocean Marine Services Ltd
Italian Maritime Academy Technologies
ITIC
JSL International (Trinidad) Ltd
K2 Specialist Services Pte Ltd
KB Associates Pte Ltd
KDU Worldwide Technical Services (FZC)
Kennedy Marr Ltd
Kestrel Maritime Asia Pte Ltd
Lexmar Engineering Pte Ltd
London Offshore Consultants Ltd
M3 Marine Group Pte Ltd
Marex Marine Services Ltd
Marine Cybernetics
Marine Q AS
Marine Solutions (Pty) Ltd
Maritime Assurance & Consulting Ltd
Maritime Management Services Inc
MatthewsDaniel
MCA Electric Co Ltd
MCS Free Zone
Medea srl
MJR Controls Ltd
Modus Seabed Intervention Ltd
MOS Marine Offshore Services Pte Ltd
National Hyperbaric Centre
Nautronix Ltd
Navigare International Inc.
NUI AS
ODS-Petrodata Pte Ltd
Offshore Commissioning Solutions
Offshore Technical Management
Solutions International
OK Welding Marine Ltd
Orwell Offshore Ltd
PAE Singapore Pte Ltd
PEM Offshore Ltd
Perry Slingsby Systems Ltd
Peterson SBS Den Helder BV
Petrofac Marine Services
Positioneering Ltd
Primo Marine
PRO Marine Solutions Pvt Ltd
PT Rigspøk Perkasa
PT Sirius Maritimindo Services
QinetiQ
Reel Group Ltd
Rolls-Royce Power Engineering plc
Romona Inc
Saturation Services LLC
Scammudring
Schilling Robotics Ltd
Schilling Robotics, Inc.
Schulte Energy Services Ltd
Seacraft Marine Consultants Ltd
Seanetics Asia Works Pte Ltd
Sebastian AS
Sigma Offshore Ltd
Skan-EI 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
Thorne Offshore Management Pte Ltd
Tristein AS
Underwater Technology Services (S) Pte Ltd
United Subsea Engineering Pvt Ltd
V.Ships Ltd
Veripos
VideoRay LLC
Viking Moorings Ltd
VNSafety Ltd
Vroon Offshore Services Ltd
Wartsila Electrical & Automation Services
Wavespec Ltd
Westcon Power & Automation AS
Xing Wei Pte Ltd

Training establishments

Abyss AS
Adarsh Institute of Maritime Studies
AdriaMare Maritime Training Center
Advanced Offshore Training Centre Pvt. Ltd
Ålesund University College
AMC Search Ltd
ASET International Oil & Gas Training Academy
Banff & Buchan College
Bergen University College – Diver Education
Bibby Ship Management Group Ltd – E&A
Bibby Ship Management Group Ltd – ME&I
Bonifacio Srl
BS Divers
Centre for Marine Simulation
CMPP
CFO – Centro Formazione Offshore
Code Blue Nurses London Pty Ltd
Commercial Diving Academy
Daniels Maritime Group
De Moura Shipping Ltda
Divers Academy International
Divers Institute of Technology
Divers University Esporte Aquático Ltda
Diving Diseases Research Centre
Ecole Nationale Supérieure Maritime
Falck Nutech bv
First Ukrainian Maritime Institute
Force Technology
Fundação Homem do Mar
GL Noble Denton
Global Marine Systems Ltd – Subsea Training
Holland College – Marine Training Centre
Hydro Oil & Gas Training
Hydrolab-HydroCAT
i-UTech
IDESS Maritime Centre (Subic) Inc.
INPP
Interdive Services Ltd
ISFORM
KBA Training Centre Pte Ltd
Kirby Morgan Dive Systems
Marine Solutions (Pty) Ltd
Maritech Group
Maritime Institute Willem Barentsz
Maritime State Uni named after G.I. Nevelskoy
Maritime Training & Competence Sol Ltd
MOG Industry Training Co Ltd
MSTS Asia Sdn Bhd
National Hyperbaric Centre
National Oceanography Centre
Netherlands Diving Centre
North Sea Lifting Ltd
NZ School of Commercial Diver Training
Occupational Training Centre Pte Ltd
Offshore Marine Academy Ltd
Offshore Skills Training Centre (OSTRAC)
Pan Arab E-Navigation DP Training Center
Perry Slingsby Systems Inc.
PNI Training Centre AS
Polaris Learning Ltd
Power & Generation Services
Professional Diving Academy
Professional Diving Centre
PT Barron International
PT ISBI
PVD Technical Training and Cert Joint Stock Co
Satakunta University of Applied Sciences
SBS Intl Ltd
SEADOG
Seahorse Services Co Ltd
Seahorse Services Co Ltd – Training
Seneca College – Underwater Skills Program

Ship Manoeuvring Simulator Centre AS
Skilltrade BV
SMTC Global Inc.
Sogn og Fjordane Tech College, Maritime Dept Måløy
STC-Group
Stord/Haugesund University College
STORM Ltd
SubNet Services Ltd
SubNet Services Ltd – Asia-Pacific
Survie Mer Formation
TGH AP Pte Ltd
The Dynamic Positioning Centre Ltd
The Faraday Centre Ltd
The Ocean Corporation
The Underwater Centre (Tasmania) Pty Ltd
The Underwater Centre Fort William Ltd
The Underwater Centre Fremantle Pty Ltd
The Underwater Training Centre – S Aus
Underwater Engineering Ltd
Videotel Marine International Ltd
WA Maritime Training Centre – Fremantle
YAK Diving Academy
YellowOffshore

Personnel Agencies

Ace Diving Services CC
Alfa Petroleum Services
Atlas Services Group
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
EF Consult Asia Pte Ltd
Hydrosun Ltd
IOS (International Offshore Services)
Lerus Ltd
Maritech Group
MCL Medics
Naurex Resources
Nautech Services Ltd
Offshore Marine Services UK Ltd
OilExec International
Oilfield Medics UK Ltd
OSM Crew Management Aberdeen Ltd
Petrolis
Pharos Offshore Group Ltd
PR Offshore Services Ltd
ROVIN Marine Ltd
Saturation Services LLC
Seatek India
Sheffield Offshore Services Pte Ltd
SubNet Services Ltd
SubNet Services Ltd – Asia-Pacific
SubServPro
Team Trident LLC
The Underwater Centre Fremantle Pty Ltd
Total Marine Services
UKPS Offshore
Underwater Engineering Ltd
Verret Marine Services

Naval units

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

CORRESPONDING MEMBERS

ABS Europe Ltd
Abu Dhabi Marine Operating Company
Agip Kazakhstan N Caspian Op Co NV
AISI
Azerbaijan International Operating Company
Bahamas Maritime Authority
Bapco – The Bahrain Petroleum Company
BG Americas and Global LNG – C&N America
BG Americas and Global LNG – S America
BG Group
BHP Billiton
BP America Production Company
BP Berau
BP Exploration Operating Company Ltd
Brunei Shell Petroleum Co Sendirian Berhad
Cairn Energy India Pty Ltd
Chevron Brasil Petroleo Ltda
Chevron Energy Technology Co Subsea
Chevron Nigeria/Mid-Africa
Chevron Shipping Co
Chevron Thailand Exploration & Prod Ltd
CNR International UK Ltd
ConocoPhillips
ConocoPhillips (UK) Ltd
ConocoPhillips China Inc
Dana Petroleum Netherlands BV
Dana Petroleum plc
Department of Labour (South Africa)

Det Norske Oljeselskap ASA
Det Norske Veritas
Dolphin Energy Ltd
DONG E&P AS
Equion Energia Limited
Esso Australia Pty Ltd
ExxonMobil Development Company
GDF Suez E&P Nederland bv
Germanischer Lloyd SE
Gulf of Suez Petroleum Company (GUPCO)
Health & Safety Authority
Husky Energy
IBP
International Diving Schools Association
Kuwait Oil Company
Maersk Oil Danish Operations
Maersk Oil North Sea Ltd
Maersk Oil Qatar AS
Marathon Oil Norge AS
Mobil North Sea LLC
Murphy Sarawak Oil Co Ltd
National Offshore Petroleum Safety Authority
Nautilus Minerals
Nederlandse Aardolie Maatschappij BV
Newfield Peninsular Malaysia, Inc
Nexen Petroleum UK Ltd
Noble Energy
OGP
Offshore Operators Committee (OOC)
Oil & Natural Gas Corporation Ltd
Perenco UK Ltd
Petrobras
Premier Oil Natuna Sea
Premier Oil ONS Ltd
PT Pertamina Hulu Energi ONWJ
PTT Exploration & Production plc
Qatar Petroleum
Ras Laffan Industrial City
RasGas Company Limited
Sarawak Shell Berhad
Shell International Exploration & Prod bv
Shell Petroleum Dev Company 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

- 12 January 2012**
Asia-Pacific Section
Bangkok, Thailand
- 18 January 2012**
Middle East & India Section
Jebel Ali, Dubai, UAE
- 8-11 February 2012**
Oceantex 2012
Mumbai, India
- 15 February 2012**
Competence Workshop
Aberdeen, UK
- 6-8 March 2012**
Subsea Tieback Forum & Exhibition
Texas, USA
- 7 March 2012**
Central & North America Section
Houston, USA
- 13-15 March 2012**
Oceanology International
London, UK
- 14 March 2012**
Europe & Africa Section
London, UK
- 20 March 2012**
South America Section
Rio de Janeiro, Brazil
- 21-22 March 2012**
IMCA Safety & Environment Seminar
Risk & Impact in Marine Operations
Rio de Janeiro, Brazil
- 24-26 April 2012**
Offshore Cranes & Lifting
Aberdeen, UK
- 25-27 April 2012**
Seatrade Offshore Marine Asia
Singapore
- 30 April-3 May 2012**
Offshore Technology Conference
Houston, USA
- 23-24 May 2012**
All Energy
Aberdeen, UK
- 23-25 May 2012**
Offshore Technology, Equipment
Exhibition and Conference
Nanjing, China



Safety & Environment Seminar 2012

RISK & IMPACT

IN MARINE OPERATIONS

PRESENTATIONS INCLUDING:

- What would be the legal consequences if the Macondo accident happened in Brazil?
- Adequacy of vessels for importation to work in Brazil
- Corporate social responsibility
- Design a facility rather than a vessel
- Process safety challenges in marine operations

WORKSHOPS

- The legal consequences of the Macondo incident
- Process safety/asset integrity

SAFETY SHARE FAIR

Delegates are encouraged to bring a display of their company's safety promotional materials to the event, enabling those present to review and discuss successful safety initiatives with each other.

21-22 March 2012
Sofitel Rio de Janeiro
Copacabana, Brazil

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