

## IMCA GOES DUTCH

ALL THE NEWS FROM  
OUR ANNUAL SEMINAR  
IN THE NETHERLANDS



FAREWELL TO HUGH WILLIAMS  
DUBAI COMPETENCE WORKSHOP

ARCTIC DIVING  
SECURITY ISSUES

**PLUS**



3

IMCA CORE



5

IMCA CORE



8

REGIONAL



9

DIVING



10

MARINE



12

SURVEY



13

ROV



14

SPOTLIGHT



15

DIRECTORY



20

EVENTS

## From the President

Andy Woolgar, Subsea 7  
IMCA President 2012



My 2 year term as IMCA President finishes at the end of 2012. The role is honorary but includes chairing the IMCA Overall Management Committee (OMC) and Council. OMC is responsible for IMCA's successful management, creating direction and working with the secretariat to deliver the association's work programme, whilst Council provides support and guidance to OMC from senior representatives of IMCA's ICO members. I have enjoyed the role, and have seen firsthand and been impressed by IMCA's delivery at a number of venues and events. The gestation of some of what we have delivered during my term, for example IMCA Trading Ltd, was started earlier. But like all developments they need nurturing with the aim of creating a structure which will survive and efficiently deliver support to members – in fact, 'sustainability'.

The year end is a transition. As I step down Massimo Fontolan of Saipem will take over as President and the Vice-President will come from Technip. A task that I did not anticipate, was appointing a new Chief Executive. I am delighted that Chris Charman is now in post. The research required for such an appointment identifies new opportunities which OMC is going to explore, develop and capture in a 5 year plan with Chris. So, in this transition I am personally saying my goodbyes to you and simultaneously welcoming these three key people and wishing them every success.

On behalf of all of you I also want to thank Hugh for his 10 years' IMCA leadership. The association proudly flies its flag whose logo is recognised and respected as never before. A huge transition has been shaped and a body of guidance published to support members in every aspect of marine construction. Hugh has cheerily and diplomatically led this, fielding members' views and demands and finding routes which the whole membership from all their diverse backgrounds can support. Much has been done. There is success, direction and momentum for Chris and an opportunity to take IMCA into its next phase. Again on behalf of all of you, I want to wish Hugh a long and happy retirement.

Sustainability was aptly the theme of this year's annual seminar – another huge success – just finished in Amsterdam. With the healthy status and above appointments in place I am confident that IMCA can sustain its success, continuing to support the delivery of safe and efficient marine construction through its members.

# Straight to the Point

## another successful IMCA annual seminar

The twentieth IMCA annual seminar, on the theme of *Marine and Subsea Operations – a culture of sustainability*, took place on 28-29 November 2012.

A record 440 delegates gathered at the Hotel Okura, Amsterdam, the Netherlands, for a wide range of presentations, workshops, social/networking events and an exhibition of 20 supplier members. The supporting organisations were the Offshore Support Journal, ADCI, KNVR (the Royal Association of Netherlands Shipowners), OGP, the MTS DP Committee, IADC, NOGEPa, OCIMF and IRO.

Hugh Williams welcomed delegates before handing over to Pascal Grosjean of Technip, Chairman of IMCA's Europe & Africa Section, who introduced the keynote speakers. IMCA Vice President Massimo Fontolan spoke on how marine contractors were continuing to work hard to deliver what they did in a sustainable way. Jan Peter Balkenende, former Prime Minister of the Netherlands, gave an inspiring keynote address on sustainability as a mainstream issue, a significant business driver and a key performance indicator for successful businesses. Ruud Zoon of GDF Suez, Ronnie Bonnar of Repsol Neuvas Energias and Cato Hordnes of Statoil all gave keynote addresses on sustainability from the client's perspective, including reducing emissions, the growth of the renewables sector, and the use of innovative subsea technology.

The morning plenary session included a well-received presentation on safety and operational practice in the airline industry, an informative presentation on insurance claims handling from the legal perspective, and overcoming technical challenges through the use of 3D visualisation. The seminar then split into three parallel sessions: Diving, Marine and ROV & Survey. A range of presentations was given at all three, followed by technical workshops addressing topics such as bus tie reliability, SIMOPS, stress in the workplace, geographical information systems, noise in diving helmets, and a discussion of the Bibby Topaz incident including lessons learnt. To conclude the first day, six bus loads of delegates enjoyed a relaxing visit to the award-winning restaurant Fifteen.

Day two started with presentations on small crew boats, environmental initiatives and modular vessel design. Again, delegates chose one of three parallel technical sessions on Diving, Marine and ROV & Survey, followed by an afternoon plenary covering recent developments in competence and training, and then another set of workshops. The seminar was concluded by Hugh Williams who thanked all the supporters, speakers, chairmen, attendees and staff involved in the seminar. Jim Sommerville of Fugro, Vice Chairman of the Europe & Africa Section, took the opportunity to give a vote of thanks to the outgoing IMCA Chief Executive, Hugh Williams, for his tremendous efforts in growing the association over the last ten years. This most successful of IMCA seminars was rounded off with a visit to the Koepelkerk, a 17th century Lutheran Church adjoining the Renaissance Hotel in downtown Amsterdam, for a drinks reception in a splendid hall beneath its famous dome, inspired by the Pantheon in Rome.

A CD of all presentations and summaries is being prepared and will be sent to all members and delegates in the next couple of weeks. NH



Seminar Keynote Speakers





## GOODBYE TO HUGH

As previously announced, Hugh Williams, IMCA Chief Executive is retiring at the end of the year. Hugh joined IMCA back in April 2002 – giving him over 10 years at the helm. While providing the association with effective and diplomatic leadership, he has also very ably overseen and been instrumental to large changes to the association and its work. During Hugh's tenure IMCA has widened its global spread – with Hugh being actively involved in setting up both the Deepwater Americas section (now called the Central & North America section) and also IMCA's section in South America. In addition, IMCA's membership has risen from 150 when Hugh joined to the present world-wide membership of nearly 900! Hugh, in his enthusiastic and energetic approach, has also built a strong secretariat to help support IMCA's growth both in membership and in its provision of internationally accepted and respected technical guidance – achievements of which Hugh should be suitably proud. Hugh will leave IMCA at the end of December this year but his achievements will live on, and I am sure that members will wish to join the secretariat in wishing Hugh a long and well deserved retirement. *JB*

## WELCOME TO CHRIS

Hugh writes... This newsletter should be reaching you as your new IMCA Chief Executive, Chris Charman, is just settling in. I will be providing a handover until Christmas and endeavouring to introduce Chris to you in person, through the newsletter and by email. I know how much he is looking forward to meeting you and working with you, as well as looking forward to the role itself. Chris comes with a great background in risk management and loss prevention – these concepts underlie so much of what IMCA stands for and what our publications promote. I'm sure Chris will provide you with a further, more detailed introduction in the next newsletter.

I have been privileged to be part of the IMCA journey for the last 10 years. It has been an incredibly enjoyable and technically challenging role with no two days the same. It's also been uplifting to see members giving their time and joining together through the association to deliver benefits to everyone across the industry. Marine construction continues to lead in delivering safe and efficient projects. There's always more to do but the progress is firmly on record for all to see. I will miss the daily interaction with all of you but in its own way I'm very much looking forward to the change, and the opportunity to observe our world from one step removed. *HW*



## FAREWELL TO ANDY

The IMCA secretariat said goodbye to Andy Butler in October 2012. Andy joined IMCA in 2008 as Document Production Co-ordinator where his main focus was this quarterly newsletter. Andy was instrumental in the redesign of

*Making Waves* which gave it a modernised and fresher look. We wish Andy all the best for the future.

Andy's replacement, Chris Freer, joined the IMCA secretariat after returning from travelling and living in Asia and Australia for a year. Chris will now be in charge of putting together *Making Waves*, and designing all marketing and events material as well as many of IMCA's documents and publications. *KG*



## MLC WORKSHOPS

The ILO Maritime Labour Convention (MLC, 2006) will impact all companies operating ships or employing onboard personnel. IMCA has been holding workshops and briefings for members on the practical problems for the offshore sector – most recently in Amsterdam in November, where over 60 people debated the MLC definition of 'seafarer'!

For further MLC information see IMCA SEL 03/12 or contact [Emily.Comyn@imca-int.com](mailto:Emily.Comyn@imca-int.com)

## THE SKY'S THE LIMIT



On 14 November, Michelle Salway, Publications Sales Co-ordinator at IMCA, successfully completed a tandem skydive from a height of 12,000 ft for Cancer Research UK. With the help of 'wonderful family, friends, colleagues and IMCA' she raised over £1,000.

## SAFETY FLASHES

The IMCA safety flash system for incident reporting and analysis helps share vital safety information. Be a part of the process of helping IMCA members around the world identify potential hazards by sharing lessons learnt, and thus avoid needless repetition of incidents. Any member who has material to contribute can send it to [incidentreports@imca-int.com](mailto:incidentreports@imca-int.com).

IMCA aims for all safety flashes to be succinct, specific, factually correct and written in clear language.

A useful safety flash should provide sufficient detail to the right audience, effectively communicating risks, precautions and necessary actions, without releasing detailed information about the persons or organisations involved.



Further information on incident reporting, including reporting DP and lifting incidents as well as safety flashes, can be found in the factsheet *Avoiding incidents: Member reporting, safety flashes and analysis*, available from [www.imca-int.com](http://www.imca-int.com) NH



IMCA's twin parents (AODC and DPVOA) were strongly linked with marine crew and divers, respectively, both of whom use and know the benefits of logbooks. Therefore, it is no surprise that this area has been developed in IMCA's delivery. We now offer 15 logbooks. The logbooks cover job titles in several areas: diving roles (diver, supervisor, inspector, technician, life support), and roles for DP officer, survey, ROV, vessel manager, design engineer, auditor, safety adviser, crane driver etc. There is a logbook for cranes, as well as one for any individual's general competence and training records. The logbooks follow a common format, meaning they can often be used or adapted to other job titles. The owner is identified, qualifications, training, competence and experience are recorded chronologically and verified.

This achieves four things:

- ◆ It creates a work and experience record which is verified and is much more than a CV;
- ◆ It promotes competence, thereby improving safety and delivery in the work place;
- ◆ It supports personnel appraisal and career progression;
- ◆ It links IMCA directly to the individual employees. IMCA's delivery is mostly aimed at the employer and management teams, but the logbooks extend way beyond that.

The books are hugely popular. We sell about 15,000 books a year. If it takes about a year, on average, to fill a book, then 15,000 employees in IMCA's area of the offshore industry are on a journey with us. Does that include you?

Logbooks can be ordered from [publications@imca-int.com](mailto:publications@imca-int.com) HW

## DUBAI COMPETENCE WORKSHOP

The Middle East & India section met on 25 September, combining the meeting with a competence workshop. Around 60 delegates attended the workshop which aimed to support companies in the development and implementation of technical competency systems within their organisations.

Presentations and discussion sessions focused on systems and structures which needed to be developed to operate successful schemes, with case studies from leading members across the section as to how they had designed their own systems. Oil producers were represented by Maersk Oil offering an overview of their expectations of what contractors should have in place. NE

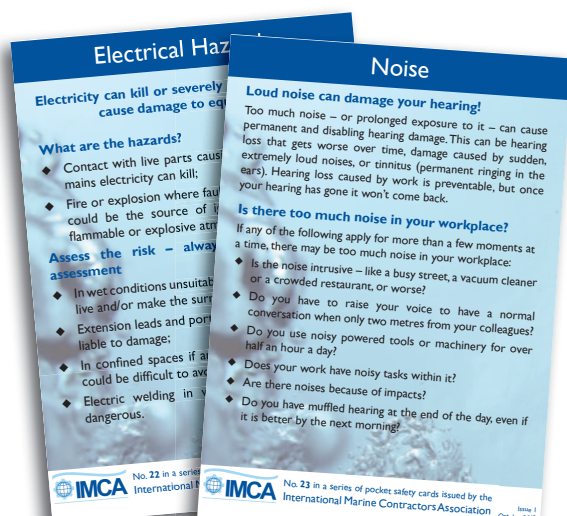


## SHIPYARD SAFETY



The SEL Core Committee has been working on guidance on safety in shipyards. This guidance is for vessel owners and/or operators and is aimed primarily at shipyard visits, vessel dry docking, or maintenance periods alongside in a repair facility. Members' vessels can visit repair yards anywhere in the world and the document is not restricted by any geographical boundaries or country-specific regulations. Several useful technical appendices are provided, and the document adopts a staged or project-based approach to shipyard operations, moving through the docking from pre-qualification and tendering through to implementation and successful project close-out. The document will become available from IMCA early in 2013. NH

# core activities



## POCKET SAFETY CARDS

Two further pocket cards are being prepared for publication as *Making Waves* goes to press. IMCA's 22nd pocket safety card will cover electrical hazards, addressing the main hazards, how to assess the risks and how to reduce the risk of electrical shock. The 23rd card covers noise, and has some handy pointers for assessing if there is too much noise in your workplace, and how to reduce exposure to noise.

We are continuing the development of new pocket cards, and two more cards are in the pipeline. One will cover NORM (naturally occurring radioactive material) and the other will form a handy pocket guide to common occupational health hazards. NH

## SECURITY TASK FORCE

IMCA's Security Task Force will be holding a one day workshop on Tuesday 11 December 2012 from 10:30 until 15:30 at the IMCA office in London. This workshop is for the workgroup to discuss the International Convention on Standards of Training, Certification & Watchkeeping for Seafarers (STCW) requirements for security training for all seafarers and seafarers with designated security duties, and to identify the possible impacts this additional training may have on vessels' crew and contractors.

Further discussion at the workshop will include the production of a new pocket travel security card. This pocket card may be a new addition or an update of the current personal security travel card which is available to members at:

<https://members.imca-int.com/documents/core/sel/safetypromo/IMCASPC13.pdf>

Revision of the following IMCA guidance documents will be discussed at the workshop:

- ◆ Review and revision of IMCA SEL 018 – *Threat Risk Assessment Procedure*
- ◆ IMCA SEL 014 – *Guidance on Travel Security*
- ◆ The proposed new document *Emergency Response Security Guidance* MF

## OCCUPATIONAL HEALTH

IMCA will shortly be publishing guidelines on occupational health. This is intended as a high level document with an international focus, providing information on the key elements of an occupational health system. It will cover basic principles for prevention of occupational ill health, health assessment and surveillance, and suggestions for developing an occupational health strategy. NH

WELLNESS  
AT WORK

### World Class Solutions from a Worldwide Business



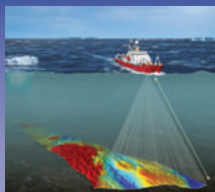
#### Rental

- Survey
- ROV
- Diving
- NDT & Inspection
- Buoyancy



#### Sales

- Diving Systems
- Survey
- Marine
- Inspection
- Buoyancy
- Environmental Monitoring



#### Service

- Training
- Pipeline Integrity
- Corrosion Monitoring
- Buoyancy
- Project Management
- Oil Spill Response
- Hot Tapping & Line Stopping
- On Site Machining
- Marine & Offshore Automation

info@uniquegroup.com  
www.uniquegroup.com

• India • Nigeria • Oman • Qatar • Russia  
• Singapore • South Africa • UAE • UK • USA



Unique Maritime Group  
Strength in Depth



## Samson takes the HEAVY out of heavy-lift slings

**Rig faster, safer, and more efficiently with lightweight synthetic rope slings.**

Samson partners with your design team to configure and certify slings tailored to your application. We bring experience and knowledge gained from extensive testing.

Samson's global dealer network is available where you need them, whenever you need them.

**SamsonRope.com**



# core activities

## IMCA PRESENTATIONS

The annual Dynamic Positioning conference, organised by the DP Committee of the Marine Technology Society, was held in Houston, Texas on 9 and 10 October 2012.

Ian Giddings presented a paper entitled "Learning the Lessons, Reporting DP Incidents". In this presentation he outlined the IMCA DP incident reporting scheme, included analysis of the incidents and the preparation of the annual report, identified possible improvements and called for further suggestions in this area.

Also noteworthy was the recipient of the Dynamic Positioning Committee's Distinguished Achievement award in 2012, Steven Cargill of GL Noble Denton, who will be well known to members as a contributor to many IMCA documents over the years. IG

Peter Sieniewicz presented a paper at the 5th Annual Canadian Underwater Conference, held in St John's, Newfoundland on IMCA's work on arctic diving. Canada is currently expanding the Sable Island and the Grand Banks oil fields together with further planned developments in the Davis Straits off the North Labrador Coast, as well as at Baffin Island and Greenland. These areas are well known for extreme weather and arctic ice. This expansion, together with a number of proposed developments in other extreme cold weather regions, has been the trigger for the development of IMCA's guidance for diving in arctic regions (see page 9). PS

## SECURITY ISSUES

The following is a summary of recent security issues identified in the high risk areas:

In West Africa there were more attacks off Togo this year than in the previous five years combined, with three vessels hijacked, two boarded and six reporting attempted attacks. Off Benin, one ship was hijacked and one boarded. Nigeria accounted for 21 attacks, with nine vessels boarded, four hijacked, seven fired upon and one attempted attack.

There have been several attacks reported off the coast of West Africa. The main areas of pirate activity are Guinea, Nigeria, Ivory Coast and Togo. Attacks are often violent, planned and aimed at stealing refined oil products that can be easily sold on the open market. To cover their tracks once the vessel is hijacked, pirates damage the communications equipment and at times even the navigation equipment. Attacks have become more frequent, more violent, and are occurring further out from shore. During the first half of 2012, 34 attacks were reported in West Africa's waters, 24 of which were successful. This is more than twice the number of attacks compared to the same time frame last year.

Southeast Asia has seen a rise in incidents of piracy and robbery at sea, while monsoon-hit east Africa remained relatively incident free. Pirate attacks in southeast Asia were reported around Indonesia, Sri Lanka, Bangladesh and Malaysia.

Members are reminded to remain vigilant when transiting these areas and follow the industry Best Management Practices (BMP4). MF



**PETROLIS**  
Your offshore crewing solution

**Petrolis provides technical assistance services to the offshore oil and gas industry world-wide.**



We supply individual personnel or can build up a complete team in all areas of offshore operations including subsea works, FPSO installation, etc.

The qualifications of our personnel comply with recognised international standards, including BOSIET.

We also make all necessary arrangements for visas and travel as required.

Please contact Patricia Merella on +41 22 593 87 41 or e-mail us:

**Petrolis SA**

54 bis route des Acacias - 1227 Carouge - Switzerland

Tel: +41 22 593 87 40

Fax: +41 22 310 09 63

E-mail: [contact@petrolis.ch](mailto:contact@petrolis.ch)

[www.petrolis.ch](http://www.petrolis.ch)



**Maritime leaders in the offshore industry**



Vessel management



Crew management



Consultancy



Offshore renewables

For more details visit **[www.adpsltd.com](http://www.adpsltd.com)**

or contact **+44 (0) 1752 226797**

Skype: **adpsinfo**

# regional news

## EUROPE & AFRICA

The UK Health & Safety Executive (HSE) is intending to undertake small revisions to its suite of Approved Codes of Practice (ACoPs), which includes the five diving ACoPs. HSE will be consulting on detailed revised texts in due course.

E&A section met on 27 November at the Okura Hotel in Amsterdam on the day before the annual seminar. There were 3 interesting and informative presentations from regulators – the UK HSE, the Norwegian PSA and the Danish DMA.

## CENTRAL & NORTH AMERICA

The last CNA section meeting took place on 27 September 2012 in Houston, with around 30 members and guests, including representatives from US industry organisations and the US Coast Guard. The meeting considered the issue of personnel shortages in the region and the possible implications of the ILO Maritime Labour Convention (MLC, 2006). There were also meetings of the regional SEL, Diving and ROV sub-groups.

## SOUTH AMERICA

The South America section met on 19 September during Rio Oil & Gas. Alongside the usual IMCA business, a series of presentations on the skills shortage was given. These were supplemented by a presentation by Hugh Williams on the IMCA materials (publications and website) that support members for promoting careers, supporting training and competence and aiding career appraisal and progression. The three speakers showed that significant efforts were already being focused by companies in the region on this issue of skills shortage. It was

agreed that more could be done collectively and it was agreed to form a small group to investigate this.

IMCA will be presenting at DP Brasil, the Brazilian dynamic positioning conference, in Rio de Janeiro on 24 and 25 April 2013. Further details can be found at <http://www.dpbrasil.com>.

## ASIA-PACIFIC

The Asia-Pacific section meeting was held in Perth, Australia in early September with over 90 members and guests in attendance. As well as the usual update on IMCA activities, the meeting included a general discussion on personnel challenges with members identifying their concerns on this issue. The afternoon session was set aside for a workshop on the impending Maritime Labour Convention where the implications for contractors and some of the main issues associated with it was discussed in detail.

On the previous day IMCA held a separate meeting with the oil and gas regulator – the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA). This discussion forum between representatives from NOPSEMA and IMCA and its members was held to discuss general issues including the safety case reviews, fees, lifeboat issues etc. At the meeting it was agreed that IMCA and NOPSEMA should aim to set up regular meetings to discuss topics of interest.

## MIDDLE EAST & INDIA

The most recent meeting was held at the Jebel Ali Golf Resort in Dubai on 25 September. Around 60 members and guests attended the section meeting and competence workshop. The meeting included a wide ranging discussion of issues including the list of doctors approved to examine divers and local skills shortages.

**pommec**  
Technical Diving Equipment

Worldwide commercial diving equipment supplier

CARE FOR DETAIL

IMCA MEMBER T: +31 (0)164 615490 W: [www.pommec.com](http://www.pommec.com)

**Offshore steel ropes  
for every application**

**Redaelli**

[www.redaelli.com](http://www.redaelli.com)  
[wireropes@redaelli.com](mailto:wireropes@redaelli.com)

## ARCTIC DIVING

Oil exploration and development is beginning to expand into the harsher regions of the Arctic. As this expansion continues, the diving industry is having to rise to face the operational challenges that oil field construction and maintenance in this climate present; challenges that it has never encountered before. In view of this IMCA was asked by the industry to begin to develop specific guidance to support diving operations in this harsh environment.

IMCA recently held a workshop in Alaska to consider guidance. The following issues were identified:

- You can't take anything for granted in extreme cold!
- There is an increased risk to life by virtue of the remoteness;
- Medical support/emergency evacuation can become more difficult due to the location, extremes of weather and ice;
- There are both psychological and physical issues which become magnified when operating in these extremes;
- The reliability of equipment suffers both topside and subsea;
- Traditional material properties like steel and fluids change as a result of the extremes in temperature;
- Planning must be meticulous: logistics of obtaining equipment and personnel can be extremely difficult.

Following discussion at the workshop, IMCA will continue to develop guidance to help provide solutions to the problems created by operating in this unique, difficult and challenging environment. IMCA aims to finalise this guidance in 2013. PS

## DIVING STATISTICS

In the past IMCA has published annual diving personnel statistics for the North Sea area. Although only a snapshot, the figures have been indicative when looking at trends. In 2009 the statistics were extended to cover all areas. After three years taking the world-wide approach it is now possible to see the changes over time. Information received indicated that over 3,600 diving personnel were employed offshore world-wide by IMCA members during 2011. Globally, between 2010 and 2011, there has been a significant increase in saturation diving operations, whereas air diving has declined over the same period. Since 2009 the number of all personnel involved in diving operations has increased, with two notable exceptions: the number of air divers and "other support personnel" have both fallen. BM

## IMCA HES DOCUMENT

A meeting of the IMCA workgroup on hyperbaric evacuation systems (HES) took place in October 2012 and final editing of the draft document is now underway. The document is a substantial piece of work and should make a significant contribution in helping members to improve the evacuation arrangements available to saturation divers world-wide.

IMCA gave a presentation on the development of the document to the International Association of Oil and Gas Producers (OGP) Diving Industry Workgroup in Anchorage, Alaska in July 2012.

The IMCA HES document will be supported by two additional IMCA guidance documents. One will be a DESIGN document dealing with the configuration, examination, testing and certification of the hardware elements found in hyperbaric evacuation systems. The other document will contain interface recommendations for hyperbaric rescue units. BM



**We keep you breathing**



*Military and professional diving equipment with a wide range of:*

- Decompression chambers
- Complete hyperbaric treatment systems
- Launch and Recovery Systems (LARS)
- Diving panels

**Decompression chambers**



**SPHL Life-support packages**



**Containerized equipment**



**IHC Hytech B.V.**  
hytech@ihcmerwede.com  
www.ihchytech.com

**The technology innovator.**

**WWW.SMP-LTD.CO.UK**





- MACHINERY CONTAINER
- WETBELL SYSTEM
- HYDRAULIC DIVER LAUNCH
- RECOVERY SYSTEM (LARS)
- DIVER HOT WATER MACHINES
- SURFACE AIR DIVING PANELS
- COMMERCIAL DIVING EQUIPMENT
- HYPERBARIC RECEPTION FACILITY
- SATURATION DIVING SYSTEMS
- HYPERBARIC MEDICAL TREATMENT CHAMBER

**VISIT US ONLINE**  
[WWW.SMP-LTD.CO.UK](http://WWW.SMP-LTD.CO.UK)  
**SIGN UP** OUR NEWS LETTER



Submarine Manufacturing & Products Ltd  
Tel: +44 (0)1772 687775 Email: sales@smp-ltd.co.uk



## CMID UPDATE

IMCA has now withdrawn the electronic PDF form version of IMCA M 149 - *Common Marine Inspection Document* due to the various issues encountered with its format. An electronic version will soon be available from the eCMID database. The eCMID software, which can be downloaded by users registered on the eCMID database, can now be used for vessels which have not yet been added to the database. Inspectors can now create an inspection, complete the sections and then lock the completed report, which produces a secure PDF, which can then be passed on to the client or operator directly. However, it should be noted that any inspections created this way cannot be uploaded to the database. The process for completing an eCMID for vessels already on the database remains unchanged.

## CMID ISSUE 9

Issue 9 of the CMID should be available for use from January 2013. This includes some changes as suggested by attendees of the eCMID workshops and direct feedback from CMID users.

## IMCA M 189

In May 2012, a revised version of IMCA M 189 - *Marine Inspection for Small Workboats* was published. An electronic version of this document is currently being tested and will soon be available for use as part of the eCMID database [www.imcacmid.com](http://www.imcacmid.com) where small workboat inspections will soon be able to be undertaken using the eCMID software.

## NEWSLETTER

The quarterly electronic newsletter details the current status of the CMID and eCMID database. It is sent to all users of the CMID database and IMCA marine contacts and is also available for download from [www.imca-int.com/cmupdate](http://www.imca-int.com/cmupdate). If you would like to receive a copy by email, please contact [Gordon.kelly@imca-int.com](mailto:Gordon.kelly@imca-int.com) for further details.

[Gordon.Kelly@imca-int.com](mailto:Gordon.Kelly@imca-int.com)

## CMID STEERING COMMITTEE

IMCA is looking for more members to actively take part in the CMID Steering Committee to retain the document's relevance in the industry and take it forward into the future. If you are employed by an IMCA member and wish to take part, please contact [Mark.Ford@imca-int.com](mailto:Mark.Ford@imca-int.com) for further information. GK



## ROPE FORUM

The next rope workshop is to be held on 29 January 2013 at the Radisson Blu Hotel in Amsterdam airport. The topic for this workshop is the Non-Destructive Testing (NDT) of offshore ropes, with an emphasis on the higher value ropes (e.g. large diameter (>100mm) subsea construction ropes with lengths in excess of 2000m). The programme, which includes the registration form, will be issued in due course. Please contact the events team at [events@imca-int.com](mailto:events@imca-int.com) with any queries. MF

**INTRON**

Global supplier of equipment and services for non-destructive inspection of wire ropes

Elektrohnaya Str., 11, Moscow, 111524, Russia  
T: +7 495 229 3747  
F: +7 495 510 1769  
[www.intron-plus.com](http://www.intron-plus.com)

ASNT Corporate Partner

IMCA

## Offshore diving operations management and training

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



To learn more about how Interdive can help your diving operations please call us on:  
Tel: +44 (0)1752 558080 or e-mail us on [diving@interdive.co.uk](mailto:diving@interdive.co.uk)

INTERDIVE SERVICES LTD, STOKE DAMEREL BUSINESS CENTRE, STOKE, PLYMOUTH, DEVON, PL3 4DT, ENGLAND [www.interdive.co.uk](http://www.interdive.co.uk)

## IMO UPDATE

### NEW GARBAGE RULES

Members are reminded that amendments to the IMO rules on ships' garbage (MARPOL Annex V) will take effect on 1 January 2013. The rules have been updated, but there has also been a change in emphasis; instead of stating which types of garbage may not be discharged, the rules now specify which types of garbage may be permitted for discharge.

### ENCLOSED SPACE ENTRY & RESCUE DRILLS

IMO has finalised draft amendments to SOLAS to mandate enclosed space entry and rescue drills. Crew members with enclosed space entry or rescue responsibilities will be required to participate in an appropriate drill at least once every two months. Drills should include the checking and use of personal protective equipment required for entry; checking and use of communication equipment and procedures; and instructions in first aid and resuscitation techniques. The new rule will be signed off later this year.

### VERIFYING CONTAINER WEIGHTS

Work is underway to strengthen requirements for the mandatory verification of gross weight of containers. This is in response to concerns from the container lines about the dangers of mis-declared weights, but IMCA will be following the discussions, to ensure any changes are also practicable for containers being used in the offshore industry.

### IMO REVIEW

As part of his first year in office, the new IMO Secretary-General has initiated a review and reform process, to help ensure the organisation is fit for the future. This will include looking into re-structuring the technical sub-committees to improve efficiency and take account of the increased focus on environmental issues.

For more details on IMO issues, please contact [Emily.Comyn@imca-int.com](mailto:Emily.Comyn@imca-int.com)

## DYNAMIC POSITIONING INCIDENTS

The recently published IMCA M 218 - *Dynamic Positioning Station Keeping Incidents – Incidents reported for 2010 (DPSI 21)* – contains the analysis of 56 incidents submitted for the year 2010. Many lessons can be learnt from these and members can be alert to the possibility of such incidents occurring on their vessels. For example

Incident #1046 deals with the spreading of a computer virus to the DP system through the transfer of data via a USB device. The manufacturer was unable to guarantee that software on the system would not be susceptible to virus attack, although we are aware that manufacturers are working on this issue. However, it is obvious that in

the meantime care needs to be taken when transferring data from one system to another and the use of USB devices possibly avoided.

We are also working towards issuing a quarterly digest of important incidents (to which members' attention should be drawn) and looking at the possibility of another ten year

analysis of station keeping incident data, the last one having been done for the years 1994 – 2003. Finally, this year we have presented on DP incident reporting and analysis at a number of seminars and will draw this together with members' input to refine and improve the scheme. IG

### The World's Leading ROV Manufacturer



[www.seaeye.com](http://www.seaeye.com)



**SAAB**

### PEM Offshore Delivering Great Services



#### OUR SERVICES

- Marine and Offshore Consultants
- Marine Warranty Surveys, Pre-purchase, On/Off - Hire Inspections,
- Riggings/Loose Lifting Equipment Inspection, NDT Services
- Vessel Managers and Marine Technical Advisers
- Rope Access Inspection / Risk Based Inspections
- Underwater Engineering, Subsea Inspections and Support



#### OUR PRODUCTS

- Sewage/Waste Water Treatment
- Reverse Osmosis Desalination water making
- Offshore Equipment supply
- Gas Detection devices/Monitors
- Lifesaving Appliances/Marine safety appliances
- Offshore Containers & Baskets

#### OUR PARTNERS



#### PEM Offshore Limited

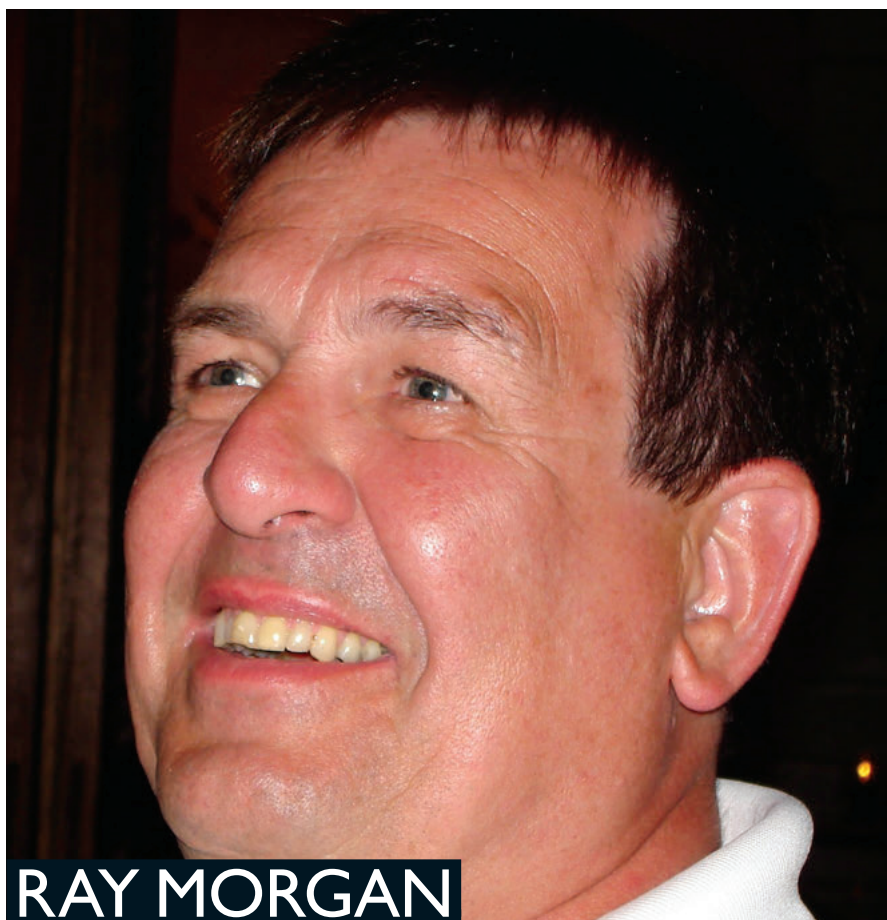
Plot 231, Trans-Amadi Industrial Layout, Port-Harcourt, Nigeria  
Phone: +234 (0)84 361 390 Mobile: +234 803 403 6905

#### PEM Offshore Inc.

2425 West Loop South, Suite 200 Houston, 77027 Texas, USA  
Phone: +1 713 297 8968 Fax: +1 281 224 9070 Mobile: +1 832 339 6843

UAE Mobile: +971 555 122 725 Email: [philips.matthew@pemoffshores.com](mailto:philips.matthew@pemoffshores.com) [www.pemoffshores.com](http://www.pemoffshores.com)

# offshore survey



**RAY MORGAN**

The Offshore Survey Division Management Committee has lost one of its members with the death of Ray Morgan, who lost his fight against cancer earlier this year. Ray had a long career in the offshore survey industry from the early 1980s, working for a number of different companies. He was a long standing and well liked member of the IMCA Offshore Survey Committee, and he made a significant contribution to the committee's work programme. Ray was always ready to help anyone with a problem, and helped many people in the survey industry progress their careers. He will be missed. *NH*

## SENSOR CALIBRATION

IMCA will be presenting two technical papers on the proposed offshore survey document on calibration and verification of peripheral survey sensors. The first of these will be presented by Gordon Johnston at the annual Seabed Mapping and Inspection technical conference in February 2013 in Geilo, Norway. The second will be presented by Nick Hough at the Offshore Survey technical conference in April 2013 at the National Oceanography Centre in Southampton, UK. This conference runs in parallel with the bi-annual Ocean Business trade show. *NH*

## SURVEY PERSONNEL

For the second year, IMCA Offshore Survey Division contractor members have contributed statistics on personnel numbers. Whilst these statistics can only ever form a snapshot, it is hoped that they will become a useful indication of trends and other factors. The aim of the exercise is to find reliable information on the overall numbers and approximate ratio of freelance and company personnel in different survey roles and, in the future, to be able to assess how this changes year on year. Further information on this will be published as an Offshore Survey information note shortly. *NH*



### YOUR TOTAL LIFEBOAT SYSTEM'S SOLUTION PROVIDER

Vanguard's ABS Classed Self Propelled Hyperbaric Lifeboat will be launched in

Singapore on 28th November 2012!

Find out more at [www.vanguardlifeboat.com!](http://www.vanguardlifeboat.com!)

Contact us: tel: +65 6887 5034 fax: +65 68875043 email: [marketing@vanguardlifeboat.com](mailto:marketing@vanguardlifeboat.com)



## AM ADVANCED MARINE AM

Celebrating 33 years of In house Design & Manufacture,  
& Testing, Rental & Servicing of Commercial Diving,  
Survey & Underwater Equipment  
Representing many of the Industry's Leading Manufacturers



Advanced Marine 1.5m Diameter Twin Lock DDC

Featuring In house Designed & Manufactured Viewports  
Custom Viewport sizes available up to 100mm thick

T : 65-62658122 F : 65-62657591 W : [www.advanced-marine.com.sg](http://www.advanced-marine.com.sg)  
E : [admar@advanced-marine.com.sg](mailto:admar@advanced-marine.com.sg)

# remote systems & roV

## UMBILICAL RE-TERMINATION

The ROV Committee has discussed possible IMCA guidelines on ROV umbilical re-termination. The proposal is to develop guidance on the various important technical issues involved in safe and effective re-termination, including electrical, mechanical, and fibre-optics. This will be a high-level guidance rather

than procedures, and will be developed from members' own documentation on the subject. Members wishing to assist with this work are welcome to submit re-termination procedures and work instructions to the secretariat for consideration and collation into the document. Please contact [Nick.Hough@imca-int.com](mailto:Nick.Hough@imca-int.com)



## TETHER TEMPLATE

The ROV Committee has in the past identified failures and problems with ROV umbilicals and tethers as something which needs addressing. A report form has been developed, which captures many of the most common failures and problem issues for ROV tethers and umbilicals. This form will be available for use by any member after its review by the ROV Committee. NH

## INSTALLATION GUIDELINES

The proposed guidelines on installation of ROV systems onto a vessel or a platform are nearly complete. IMCA anticipates being able to publish this document before the end of the year or early in 2013. It is intended to assist vessel and platform owners understanding the requirements of installing and mobilising an ROV system, and to be a useful guide for ship and platform owners, designers and fabricators, allowing them to consider all aspects of ROV installation. The document will cover the main operational requirements for ROVs and address, in detail, the layout and services required for an efficient and well-installed ROV system. NH



**10% Discount if you book your course before 31st Jan for courses taken between Jan-Mar\* Quote IMCA1110**

\* Subject to terms and conditions

**Specialists in Electrical Training & Consultancy**



### Electrical Training for the Marine Industry

Many of our courses are designed in line with IMCA syllabus, and accepted by MCA

[www.faradaycentre.co.uk](http://www.faradaycentre.co.uk)

Call us: +44 (0)1642 467236

[training@faradaycentre.co.uk](mailto:training@faradaycentre.co.uk)

### Precision Made Heavy Lift Slings and Grommets for the World's Largest Offshore Contractors

Our recent project reference list for the supply of heavy lift slings and grommets for the installation jobs offshore, reads like a 'Who's Who' of the offshore construction industry:

- Ssao Marlim P-37 Project (Brazil)
- Kipper Tuna Field (Australia)
- Montara Field (Australia)
- Iwaki Decommissioning Project (Japan)
- North Tapti Field (India)
- Gumasut J-Lay Tower Upgrade (Malaysia)
- Gorgon Barrow Island (Australia)
- Saudi Aramco Long Term Agreement (Saudi Arabia)



With full rigging and heavy lift sling manufacturing capability including a 2,000MT test bed in Singapore and a 1,000MT test bed in Sharjah, UAE, KTL Offshore can deliver your precision made slings to your doorstep.

**KTL Offshore Heavy Lift Slings – Lifting You Into The Future!**

**KTL OFFSHORE PTE LTD**

71 Tuas Bay Drive Singapore 637430

Tel: (65) 6543 8888 Fax: (65) 6545 2323 Email: [kti@ktlsg.com.sg](mailto:kti@ktlsg.com.sg) [www.ktlgroup.com](http://www.ktlgroup.com)



Our Distinguished Partners:





# SPOTLIGHT ON PASCAL GROSJEAN

Pascal Grosjean is the Deputy VP Marine New Builds for the Technip Subsea Division and serves as Chairman of IMCA's Europe & Africa Section. 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 region.

*Please tell us about your company and what it does*

Technip is a world leader in project management, engineering and construction for the energy industry.

From the deepest subsea oil & gas developments to the largest and most complex offshore and onshore infrastructures, our 32,000 people 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.

“ Our industry is buoyant but we face various challenges ”

*What is your current job?*

Deputy Vice President Marine New Builds.

We are responsible for delivering appropriate assets to Technip's Business Units, within agreed budget and schedule. This includes construction, pipelay and diving support vessels, and pipelay equipment.

This exciting workscope covers all phases, from concept, design / FEED, contractual set up, definition of

rates, project management and site supervision, until delivery to our internal clients.

With five vessels in construction, our involvement varies from technical support to full control.

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

After starting as a Field Engineer within the Marine Operations Division of Bouygues Offshore in 1995, I transferred to the Saibos division in charge of Saipem's South Atlantic deepwater activities.

I joined Technip in 2007 to develop the Operations Department of the West Africa and India Business Unit based in Paris.

My career has mainly focused on managing operations and logistics for large, complex deepwater projects in challenging locations.

In 2011 I moved to Aberdeen, leading to the creation of the Marine New Builds Business Unit and my current role.

I became IMCA Chairman for the Europe and Africa (E&A) section in November 2011.

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

We are on a permanent quest for performance, quality and safety, based on the right balance between man and technology.

Balancing the technical complexity of assets with the right level of people skills is

a constant challenge. This is especially true for those involved in the specification and delivery of next generation assets.

*How can these issues be taken forward?*

As key industry players, we are empowered to shoulder the responsibility to raise standards, from large businesses to the smaller subcontractors.

It is imperative for the complex future assets in our industry that we involve end-users at the specification stage. This will ensure the appropriate development and use of fit-for-purpose technology, for safe and efficient operations.

“ We must adapt our approach and rejuvenate the E&A section ”

*How do you think IMCA makes a difference?*

Industry-wide adoption of IMCA guidelines, competence portfolio and sharing of lessons learnt are the foundations of a constantly improving quality and a safer approach to our activities. There is still more we can do on this.

“ We are on a permanent quest for performance, quality and safety ”

IMCA is the forum where user feedback is collated and made available to the industry. Members must be encouraged to use this forum to ensure that the assets of the future are fit for our challenging environment.

*How do you see the future?*

Our industry is buoyant but we face various challenges, ranging from ultra deepwater to the ageing workforce.

Low attendance at E&A meetings concerns me, as the opportunity for feedback is being lost. This may be due to all the activity and good work performed in divisional and core committees and workgroups, however section meetings can bring significant value.

We must adapt our approach and rejuvenate the E&A section: get closer to members, encourage greater participation and extend the reach of our organisation, particularly in remote geographic locations.



**CHRIS CHARMAN**  
CHIEF EXECUTIVE  
Chris.Charman@imca-int.com



**JANE BUGLER**  
TECHNICAL DIRECTOR  
Jane.Bugler@imca-int.com

**KYLIE GRIFFITHS**  
OPERATIONS SUPPORT MANAGER  
Kylie.Griffiths@imca-int.com

**ANN BARNATT**  
DOCUMENT PRODUCTION CO-ORDINATOR  
Ann.Barnatt@imca-int.com

**CLAUDINE BLEZA**  
EVENTS CO-ORDINATOR  
Claudine.Bleza@imca-int.com

**JEAN CARMICHAEL**  
FINANCIAL ADMINISTRATOR  
Jean.Carmichael@imca-int.com

**CHRIS FREER**  
DOCUMENT PRODUCTION CO-ORDINATOR  
Chris.Freer@imca-int.com

**KAYLEIGH GLASSCOCK**  
RECEPTIONIST & OFFICE ADMINISTRATOR  
Kayleigh.Glasscock@imca-int.com

**MEETA GURTATA**  
CERTIFICATION SCHEME ADMINISTRATOR  
Meeta.Gurtata@imca-int.com

**GORDON KELLY**  
DATABASE DEVELOPER & ADMINISTRATOR  
Gordon.Kelly@imca-int.com

**MICHELLE KILLINGTON**  
MEMBERSHIP CO-ORDINATOR  
Michelle.Forward@imca-int.com

**PARUL PATEL**  
EVENTS CO-ORDINATOR  
Parul.Patel@imca-int.com

**MICHELLE SALWAY**  
PUBLICATION-SALES CO-ORDINATOR  
Michelle.Salway@imca-int.com

**KAYLEIGH TUCKER**  
ACCOUNTS ASSISTANT  
Kayleigh.Tucker@imca-int.com



**NICK HOUGH**  
TECHNICAL ADVISER  
OFFSHORE SURVEY  
SAFETY

Nick.Hough@imca-int.com



**IAN GIDDINGS**  
TECHNICAL ADVISER  
MARINE

Ian.Giddings@imca-int.com



**MARK FORD**  
TECHNICAL ADVISER  
MARINE

Mark.Ford@imca-int.com



**EMILY COMYN**  
TECHNICAL ADVISER  
REGULATORY AFFAIRS

Emily.Comyn@imca-int.com



**BRYAN MCGLINCHY**  
TECHNICAL ADVISER  
DIVING

Bryan.McGlinchy@imca-int.com



**PETER SIENIEWICZ**  
TECHNICAL ADVISER  
DIVING

Peter.Sieniewicz@imca-int.com



**GENINE da CRUZ HARVEY**  
CERTIFICATION SCHEME  
CO-ORDINATOR

Genine.daCruz-Harvey@imca-int.com



**NEIL EVANS**  
TECHNICAL ADVISER  
COMPETENCE & TRAINING

Neil.Evans@imca-int.com

## 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](http://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

- ◆ **Safe lifting (DVD)**  
(IMCA M 215, IMCA SEL 030)
- ◆ **Thruster integrity management guidance**  
(IMCA M 216)
- ◆ **Offshore vessel high voltage safety**  
(IMCA M 217, IMCA SEL 031)
- ◆ **DP incidents reported for 2010**  
(IMCA M 218)
- ◆ **Example specification for a DP FMEA for a new DP vessel**  
(IMCA M 219)
- ◆ **Guidance on operational activity planning**  
(IMCA M 220)
- ◆ **Contract for the provision of ROV, support vessel and associated work (based on BIMCO Supplytime 89)**  
(IMCA R 013 Rev. 1)
- ◆ **Contract for the provision of ROV, support vessel and associated work (based on BIMCO Supplytime 2005)**  
(IMCA R 017)

### SAFETY FLASHES

- ◆ **Safety flash 09/12** - covering five incidents: Inadvertent lowering of lifeboat; Near miss: Cement tank hatch failure; LTI hand cut during cutting operations; Near miss: Potential fall when TMS protection gate came loose; MODU mooring line failure
- ◆ **Safety flash 10/12** - covering five incidents: Diver injured during subsea lifting operations; Tombarra fall wire fatality; Updated reports; Lifejacket recall - Mullion Compact 150N ISO 12402; Damage to davit-mounted small boats; Hand injury during O2 handling and equipment maintenance
- ◆ **Safety flash 11/12** - covering five incidents: LTI: Hand injury; Near miss: Dropped object; LTI: Crush injury - arm trapped by movement of crane block; Near miss: Faulty lifebuoys discovered; Able seaman injured by shifting cargo
- ◆ **Safety flash 12/12** - covering four incidents: Lifeboat damaged whilst being lowered on davit; Near miss: Dropped object; High potential near miss: Dropped object; US Coast Guard Alert: problem with certain kinds of personal flotation device

### INFORMATION NOTES

#### COMPETENCE & TRAINING

IMCA C 11/12 Diving on offshore renewable energy projects: Regulations and guidance  
12/12SMSC/DNV SeaSkill training and certification scheme for DP operators

#### SAFETY, ENVIRONMENT & LEGISLATION

IMCA SEL 11/12 Diving on offshore renewable energy projects: Regulations and guidance  
12/12Surface swimmers  
13/12Preventing major incidents in offshore operations and marine construction

#### DIVING DIVISION

IMCA D 03/12 IMO Diving on offshore renewable energy projects: Regulations and guidance  
04/12Surface swimmers

#### MARINE DIVISION

IMCA M 17/12 ILO MLC, 2006 - Entry into force August 2013  
18/12Diving on offshore renewable energy projects: Regulations and guidance  
19/12Surface swimmers  
20/12The inspection and auditing of manned and unmanned barges  
21/12SMSC/DNV SeaSkill training and certification scheme for DP operators  
22/12Marine Technology Society Guidance Documents  
23/12Voyage Data Recorder Information

#### OFFSHORE SURVEY DIVISION

IMCA S 06/12 Diving on offshore renewable energy projects: Regulations and guidance

#### REMOTE SYSTEMS & ROV DIVISION

IMCA R 05/12 World-wide ROV personnel and vehicles - statistics for 2011  
06/12Diving on offshore renewable energy projects: Regulations and guidance  
07/12Serial Communications Formats - Remote Technology



# COMMITTEE MEMBERS

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

## OVERALL MANAGEMENT COMMITTEE

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

## CORE ACTIVITIES

### COMPETENCE & TRAINING

Chairman:	Gavin Smith, Subsea 7
Vice-Chairman:	Roy Hay, Technip
	Claire Duncan, Bibby Offshore Gary McKenzie, Offshore Installation Services Kathleen Mathisen, DOF Subsea Steve Sheppard, Helix Energy Solutions Group David Moxey, Northern Marine Management Jonelle Salter, Saipem Gillian Henderson, Subsea 7 Hilary Cliffe/Julian Nelson, Fugro Survey George Robertson, Fugro Subsea
Asia-Pacific:	Mike Robinson, McDermott International
Central & North America:	Pete Goodman, Cal Dive International
Middle East & India:	Mohamed Omar, INW
South America:	Priscila Santos, DOF Subsea Brasil

### SAFETY, ENVIRONMENT & LEGISLATION

Chairman:	Dave Forsyth, Bibby Offshore
Vice-Chairman:	Alan Forsyth, Subsea 7
	Johan Vermeer, Allseas Group Gary McKenzie, Offshore Installation Services Desmond Power, EMAS-AMC Henk van Ketel, Heerema Marine Contractors Lisa Peck, Helix Energy Solutions Group Sal Ruffino, Saipem John Greensmyth, Technip Rolinda van Zanten, Van Oord Offshore
Asia-Pacific:	Joe McWilliam, Hallin Marine
Central & North America:	Phil Miller, Subsea 7
Middle East & India:	Darren Male, Fugro Survey
South America:	Rosalie Medeiros, Saipem

## TECHNICAL DIVISIONS

### DIVING

Chairman:	Joar Gangenes, Subsea 7
Vice-Chairman:	Ian Mitchell, Technip
	Barry Porter, Bibby Offshore Steve Sheppard, Helix Energy Solutions Group Jerry Starling, Integrated Subsea Services Darren Brunton, KB Associates Hamish Petersen, KD Marine Steve MacMillan, McDermott International Inc. Hans Berkhof, N-Sea David Smith, National Hyperbaric Centre Maurizio Chines, Saipem Alan Melia, Stork Technical Services
Asia-Pacific:	Glyn Jones, Hallin Marine
Central & North America:	Allan Palmer, Cal Dive International
Middle East & India:	Nigel Dixon, Dulam International.
South America:	Rafael de Nicola, Divers University Esporte Aquático
SMTT Chairman:	Dave Munro, Subsea 7

### MARINE

Chairman:	Pete Somner, Technip
Vice-Chairman:	Pete Fougere, Transocean
	Quirien Grul, Allseas Tom Paling, Bibby Offshore Anders Waage, DOF Management Joe Hughes, GL Noble Denton Willem van Woercom, Heerema Marine Contractors Carl Annessa, Hornbeck Offshore John de Hartog, Saipem Tore Larsen, Subsea 7 Kjell-Egil Helgøy, Teekay
Asia-Pacific:	Mike Meade, M3 Marine
Central & North America:	Jeff Stephens, EMAS-AMC
Middle East & India:	Ian Bacon, GL Noble Denton
South America:	Daniel Marins, Subsea 7

### OFFSHORE SURVEY

Chairman:	Will Primavesi, Specialist Subsea Services
Vice-Chairman:	Walter Steedman, Veripos
	Michiel van de Munt, Allseas Andy Dare, Andrews Survey Edwin Danson, C&C Technologies Simon Barrett, DOF Subsea Norman Morrison, DeepOcen Group Aris Lubbes, Fugro Survey Sam Hanton, Nautronix Mike Clark, Subsea 7 Dave Matthews, Technip Jamie Laing, UTEC Survey
Asia-Pacific:	Bill Russell-Cargill, DOF Subsea
Central & North America:	Iain Miller, Technip
Middle East & India:	Milind Abhyankar, McDermott International Inc.
South America:	Andy Seymour, Fugro Brasil

### REMOTE SYSTEMS & ROV

Chairman:	Jim Mann, Fugro Subsea Services
Vice-Chairman:	Richard Benzie, Subsea 7
	Piero Bruti Liberati, Bourbon Ollie Foster, Global Marine Systems Chris Gardner, Hallin Marine Gordon Zimmermann, Helix Energy Solutions Group David Rhodes, Integrated Subsea Services Gary Thomson, Marine Platforms Steven Cowie, Oceaneering International Ewan Emslie, Saipem John Pirie, Technip
Asia-Pacific:	Mahesh Govindan, IKM Subsea
Central & North America:	Jeremiah Hebert, Helix ESG
Middle East & India:	Vacancy
South America:	Davi Lima, DOF Subsea Brasil

## IMCA WELCOMES THE FOLLOWING NEW MEMBERS

### ◆ Abyssal SA

Abyssal is a software development company focused on developing operating systems for ROVs using 3D visualisation and augmented reality. We design, develop and implement a wide range of subsea software solutions for several applications in the Oil & Gas industry.

Web: [www.abysal.eu](http://www.abysal.eu)

Tel: +351 22 0120 768

### ◆ AMI - American Marine International

### ◆ Arabian Gulf Mechanical Services & Contracting Co. Ltd

### ◆ ATOB

### ◆ B&A Engineering Srl

### ◆ Briggs Marine Contractors Ltd

Briggs Marine Contractors has over 40 years' experience in supplying services to the marine sector including vessel charter and management, subsea cable repair and maintenance, marine civil engineering, operation and maintenance of aids to navigation and salvage and wreck removal.

Web: [www.briggsmarine.com](http://www.briggsmarine.com)

Tel: +44 1592 872939

### ◆ Charles Taylor Adjusting Ltd

### ◆ Divetech Marine Engineering Services LLC

### ◆ Fendercare Marine and Diving Services

### ◆ Gasstocks Limited

A company based in Nigeria providing deep offshore vessels, barges, fast crew, tugs & accommodation boats. She also facilitates security operations by providing surveillance boats & security personnel for third party operations for major E&P companies.

Web: [www.gasstocksltd.com](http://www.gasstocksltd.com)

Tel: +234 84 750101; +234 8025240251

### ◆ Global Spectrum Energy Services Limited

### ◆ Healing Chambers of Asia Sdn Bhd

### ◆ HT Training & Services Co Ltd

Hyperbaric Medical Clinic, medic & paramedic training centre for commercial divers.

Email: [info@httraining.us](mailto:info@httraining.us)

Tel: +66 84 85 00 890

### ◆ I-Tech

### ◆ IV Offshore

IV Offshore is a specialist employment agency focused on the global offshore and subsea employment sectors. We work around the clock to provide ROV, survey & inspection, and marine & diving personnel. Contact IV Offshore today here: [info@ivoffshore.co.uk](mailto:info@ivoffshore.co.uk)

Web: <http://www.ivoffshore.co.uk>

Tel: +44 (0) 1473 283485

### ◆ KT Submarine Co Ltd

A company based in Korea with modern 3M plough, ROVs and cable ship (SEGERO), multipurpose DP vessel (MIRAERO). Our staff and crew constantly strive and innovate to be best for the demanding customer's needs.

Web: [www.ktsubmarine.co.kr](http://www.ktsubmarine.co.kr)

Tel: +82 51 709 3371

### ◆ Neptune

### ◆ Optic Marine Services International Limited

An established leader in submarine telecommunications industry in Asia-Pacific region providing integrated solutions through project management and consultancy for fibre optic and power cable including shore-end submarine cable installation. Our scope includes permit acquisition, marine agency and logistics consultancy.

Web: [www.oms.com.my](http://www.oms.com.my)

Tel: +603 5518 3888

### ◆ ROVOP Limited

ROVOP is an independent operator of subsea remotely operated vehicles (ROVs) for the offshore oil & gas and wind farm industries. ROVOP owns a fleet of modern and latest technology equipment, with a team of highly experienced professionals.

Web: [www.rovop.com](http://www.rovop.com)

Tel: +44 (0)1224 472565

### ◆ Strides Energy & Maritime Limited

### ◆ TETRA Technologies Inc

### ◆ UTEC Survey JLT

### ◆ VerdErg Connectors Ltd

### ◆ Waverider Services Limited

### ◆ Zone Offshore Free Zone

Bluewater Energy Services BV  
Boskalis Offshore  
Boskalis Offshore Subsea Services  
t/a SMIT Subsea Australia Pty Ltd  
Bourbon  
Briggs Marine Contractors Ltd  
Britoil Offshore Services Pte Ltd  
Brodospas dd  
Bumi Armada Berhad  
C&C Technologies  
C&C Technologies Inc.  
C&I Leasing plc  
C-Innovation LLC  
Cal Dive International Inc.  
Cal Dive International Pte Ltd  
Cal Dive International Pte Ltd - Middle East  
Canship Uglund Ltd  
Cape Diving  
Caspian Sea Oil Fleet (CSOF)  
CCCC International Shipping Corp  
CDS Subsea Pte Ltd  
Celtic Africa Ltd  
CH Offshore Ltd  
CNS International srl  
Companhia Brasileira de Offshore - CBO  
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  
Dalgidj Private Company  
Damas Oil & Marine Services Ltd  
DCN Diving BV  
DCN Global LLC  
Deep Sea Supply Management (Singapore) Pte Ltd  
Deep Ocean Group (Asia Pacific)  
Deep Ocean Group  
(Deep Ocean - CTC Marine-Trico Supply)  
Diamond Offshore Drilling Inc  
Divetech Marine Engineering Services LLC  
(one-year temporary membership)  
Dockwise  
DOF Management AS  
DOF Subsea (Australia & Asia Pacific)  
DOF Subsea Brasil Servicos Ltda  
DOF Subsea Norway AS  
DOF Subsea UK Ltd  
DOF Subsea USA Inc  
DOF UK Ltd  
Dolphin Drilling Ltd  
Dolphin Offshore Enterprises (India) Ltd  
Drexel Oilfield Equipment  
Dulam International Ltd  
Dunnimaa Engineers & Divers Enterprises Pvt Ltd  
EDT Marine Construction Ltd  
EDT Shipmanagement Ltd  
EGS (Asia) Ltd  
Eidesvik AS  
EMAS Offshore Pte Ltd  
EMAS-AMC AS  
EMAS-AMC Inc  
EMAS-AMC Pte Ltd  
Emergency Risk Management Asia-Pacific Pty Ltd  
(one-year temporary membership)  
ENSCO plc  
Epic Divers & Marine  
ER Offshore GmbH & Cie KG  
ESNAAD-ADNOC Group  
Fairmount Marine bv  
Far Eastern Shipping Company  
Farstad Shipping ASA  
Fendercare Marine and Diving Services  
Film-Ocean Limited  
Floatel International AB  
Forland Shipping AS  
Fugro Brasil Servicos Submarinos e  
Levantamentos Ltda  
Fugro Marine Services bv  
Fugro RUE AS  
Fugro SAE  
Fugro Subsea Services Ltd  
Fugro Survey (India) Pvt Ltd  
Fugro Survey (Middle East) Ltd  
Fugro Survey Ltd  
Fugro Survey Pte Ltd  
Fugro-TSM Pty Ltd

Gasstocks Limited  
GC Rieber Shipping AS  
GEMS Group Limited  
GeoSea NV (Member of the DEME Group)  
GEOSHIIPS Limited  
Global Marine Services  
Global Marine Systems Ltd  
Global Spectrum Energy Services Limited  
GO Offshore  
GOGAS Gulf Oil & Gas LLC  
Golden Energy Offshore Management AS  
Great Offshore Ltd  
Greatship (India) Ltd  
Greatship Subsea Solutions (Australia & Asia Pacific)  
Grup Servicii Petroliere SA  
Gulf Dredging & General Contracting Co (SAK)  
Gulf Marine Services  
Gulf Offshore (North Sea) Ltd  
Gulf Offshore Logistics LLC  
HAL Offshore Ltd  
Hallin Marine  
Hallin Marine UK Ltd  
Halul Offshore Services Company  
Harbor Star Shipping Services Inc  
Harms Bergung, Transport Und Heavylift GmbH  
& Co KG  
Havila Shipping ASA  
HEISCO - Heavy Engineering Industries &  
Shipbuilding KSC  
HGO InfraSea Solutions GmbH & Co KG  
Horizon Survey Company (FZC)  
Hornbeck Offshore Operators LLC  
Hull Support Services Ltd  
Huta Marine Works Ltd  
HydroDive Nigeria Ltd  
HydroDive Offshore International Ltd  
i-Tech  
IDMC Overseas FZE  
IDMC srl - Impresub Diving & Marine Contractor  
IKM Subsea AS  
IMI Del Perú SAC  
Impresub International LLC  
Inspectahire Instrument Co Ltd  
Integrated Subsea Engineering & Services LLC  
Integrated Subsea Services (Australia) Pty Ltd  
Integrated Subsea Services Asia Pacific Pte Ltd  
Integrated Subsea Services Ltd  
International Grout Operations Private Limited  
International Marine Works - Alexandria  
International Naval Works - Abu Dhabi  
Interoil Angola  
Intership Ltd  
Intertug SA  
IOTA-Survey  
Irenis  
iROV Underwater Services  
IRSHAD  
Island Offshore Management AS  
iSurvey Group AS  
Jack-Up Barge BV  
James Fisher & Sons plc  
Jan De Nul nv  
Jaya Holdings  
Jifmar Offshore Services  
Jumbo Offshore Vof  
KD Marine Ltd  
Khalifa A Algosaiib Diving & Marine Services  
Knutsen OAS Shipping AS  
Kreuz Subsea Marine Pte Ltd  
Kreuz Subsea Pte Ltd  
KT Submarine Co Ltd  
L&T Sapura Shipping Pvt Ltd  
Lamnalco Group  
Lamnalco West Africa  
Lauritzen Offshore Services AS  
LD Travocean  
Leighton Contractors Pty Ltd  
Leighton Offshore Pte Ltd  
LLP FSOS  
Louisiana Overseas Inc  
Maersk Drilling  
Maersk Supply Service  
Manifest Fortune Sdn Bhd  
Maridive & Oil Services  
Maridive & Oil Services (SAE)  
Maridive Offshore Projects  
Marine Consulting  
Marine Engineering Diving Services  
(one-year temporary membership)

## INTERNATIONAL CONTRACTORS

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

## CONTRACTORS

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  
Ajang Shipping Sdn Bhd  
Aker Oilfield Services  
Alam Subsea Pte Ltd  
All-Sea Deepwater Solutions Limited  
Alliance Seaworks Sdn Bhd  
Allied Marine & Equipment Sdn Bhd  
AlMansoori Production Services LLC  
AMI - American Marine International

Andrews Survey  
Aqua Diving Services  
Arab Tanker Services  
Arabian Gulf Mechanical Services & Contracting Co. Ltd  
Archirodon Construction (Overseas) Co SA  
Arctia Shipping Ltd  
Arena Sub srl  
Argus Remote Systems AS  
Asian Geos Sdn Bhd  
Assodivers Ltd  
ATCO Ports Management & Marine Services  
Atlantic Towing Ltd  
Atwood Oceanics Pacific Ltd  
Awaritise Nigeria Ltd  
BEKK Solutions Ltd  
Benthic Geotech Pty Ltd  
BGP  
Bibby Offshore  
Bibby Offshore Singapore Pte Ltd  
Bibby Remote Intervention Ltd  
BIDCO Ltd  
BJ Services Co Middle East Ltd  
Bluefone Marine  
Bluestream Offshore BV

Marine Platforms Ltd  
 Maritime & Underwater Security Consultants (MUSC)  
 Maritime Asset Security and Training (MAST) Ltd  
 Master Tech Diving Services  
 MENAS - Middle East Navigation Aids Service  
 Meriaura Ltd  
 Mermaid Marine Australia Ltd  
 Mermaid Offshore Services Ltd  
 Miclyn Express Offshore Pte Ltd  
 Modus Seabed Intervention Ltd  
 Mohn Drilling AS  
 Mutawa Marine Works LLC  
 N-Sea  
 Namibia Subtech Diving and Marine (Pty) Ltd  
 National Marine Dredging Co  
 National Petroleum Construction Company (NPCC)  
 (one-year temporary membership)  
 Navtec Marine Services SA  
 NDE Offshore AB  
 Neptune  
 Neptune Survey Expedition ehf  
 Newcruz Offshore Marine Pte Ltd  
 Nexans Norway AS - Energy Division  
 Nippon Steel & Sumikin Engineering Co Ltd  
 NIVWA Vessel Management Ltd  
 Noble Drilling Services Inc  
 NoelDive Pte Ltd  
 NorSkán 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 Production Systems do Brasil  
 OceanWorks International Inc  
 Octomar  
 Odebrecht Oil & Gas  
 Odjell Drilling  
 Offshore Geo-Surveys Sdn Bhd  
 Offshore Installation Services (OIS) Ltd  
 Offshore Manpower SA  
 Offshore Marine Management Ltd  
 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  
 OSM Offshore AS  
 Overseas AST Co LLC  
 P&O Maritime Services Ltd  
 P&O Maritime Services Pty 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 Management GmbH & Co KG  
 Prosafe Offshore Ltd  
 PT Advanced Offshore Services  
 PT Bahtera Niaga Internasional  
 PT Ekanuri Indra Pratama  
 PT Jaya Salvage Indonesia  
 (one-year temporary membership)  
 PT Lancar Rejeki Berkat Jaya  
 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  
 (one-year temporary membership)  
 Reef Subsea  
 Reef Subsea Power & Umbilical  
 REM Offshore ASA  
 Rolv Berg Drive AS  
 Romona Inc  
 ROV Resources (M) Sdn Bhd  
 ROVOP Limited  
 RRC Robótica Submarina SA  
 RWVE OLC GmbH  
 S&O Ship Management Ltd  
 Sahara Petroleum Company  
 SAL Heavy Lift GmbH  
 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  
 Seahorse Services Corporation  
 Sealion Shipping Ltd  
 SEAMEC - South East Asia Marine Engineering &  
 Construction  
 Searie Sdn Bhd  
 Searoff Offshore  
 Seascope Surveys Pte Ltd  
 Seatrans AS  
 Seatrax Singapore Pte Ltd  
 Seaway Heavy Lifting Engineering BV  
 Seaways International LLC  
 Seaworks Ltd  
 Secunda Canada LP  
 Sevan Drilling ASA  
 Shanye Marine Services Co Ltd  
 Shapadu Energy & Engineering Sdn Bhd  
 Siem Offshore AS  
 Siem Offshore Contractors GmbH  
 Simon Mokster Shipping AS  
 Six Construct Ltd  
 Skansi Offshore  
 SMIT  
 SMIT Subsea (Singapore)  
 SMIT Subsea Africa  
 SMIT Subsea Europe  
 SMIT Subsea Middle East LLC  
 SOLL-R  
 Solstad Shipping AS  
 Songa Offshore SE  
 Specialist Subsea Services Ltd  
 Stadt Sjøtransport AS  
 Stanford Marine  
 Stapem Offshore SA  
 Stena Drilling Ltd  
 Stork Technical Services (RBG) Limited  
 Strides Energy & Maritime Limited  
 Subsea 7 Singapore Contracting Pte. Ltd  
 Subsea Explore Services (M) Sdn Bhd  
 Subsea Petroleum Services  
 Subsea Robotics Services Pte Ltd  
 Subtech (Pty) Ltd  
 Subtech Qatar Diving and Marine Services LLC  
 Supreme Hydro Engineering Pvt Ltd  
 SURF Subsea Inc  
 Svitzer  
 Swiber Offshore Construction Pte Ltd  
 Swire Pacific Offshore Operations Pte Ltd  
 Target Engineering Construction Co  
 Technip Oceania Pty Ltd  
 Technip USA, Inc.  
 Technocean AS  
 Tecnosub  
 Teekay Norway AS  
 TETRA Technologies Inc  
 Tidewater Inc.  
 Tidewater Marine North Sea Ltd  
 Tideway Offshore Contractors  
 (Member of the DEME Group)  
 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  
 (one-year temporary membership)  
 Transocean  
 Transoceanic Cable Ship Company Inc.  
 Tristation Sdn Bhd  
 Troms Offshore Management 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 JLT  
 UTEC Survey, Inc.  
 V.Ships Ltd  
 Van Oord Offshore BV  
 Vantage Deepwater Drilling Inc  
 Vector Offshore Ltd  
 Veolia Environmental Services Special Services  
 Visser & Smit Marine Contracting bv  
 Vroon Offshore Italia Srl

Vroon Offshore Services BV  
 VTT Maritime AS  
 Wagenborg Offshore BV  
 Waha Maritime  
 Watergate Technical Services Ltd  
 Waverider Services Limited  
 Wilhelmsen Ship Management (Norway) AS  
 Workfox BV  
 Workshops Contractors BV  
 Zakher Marine International Inc  
 Zamil Offshore Services Company  
  
**SUPPLIERS**  
*Suppliers of equipment*  
 ABB AS, Marine Division  
 ABB Ltd  
 Abyssal SA  
 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  
 Ansell Protective Solutions  
 Aqua-Air Industries Inc  
 Arab Tanker Services  
 Arabian Industrial Gases Company  
 Ashtead Technology (SEA) Pte Ltd  
 Balmoral Offshore Engineering  
 Bridon  
 Brunnvoll AS  
 CAPE Group Pte Ltd  
 Cargotec Norway AS (Offshore)  
 Chambers Oceanics Ltd  
 Chesterfield Special Cylinders Ltd  
 CMC Industries  
 Comanex SAS  
 CSI Offshore Pte Ltd  
 CUEL Ltd  
 Cygnus Instruments Ltd  
 Deep Down Inc.  
 DeepOcean Group  
 (DeepOcean -CTC Marine-Trico Supply)  
 Divetechservice Ltd  
 Divex Asia Pacific  
 Divex FZE  
 Divex Ltd  
 Dominion Gas  
 Dominion Gas Asia Pacific Pte Ltd  
 Drass Energy  
 Eastar Offshore Pte Ltd  
 Emphor FZCO  
 Environmental Technologies Limited  
 Formshore Group  
 Franklin Offshore International Pte Ltd  
 Fugro GRL  
 Fugro-TSM Pty Ltd  
 GE Energy Power Conversion UK Ltd  
 Global Gases Australia Pty Ltd  
 Global Gases Group FZCO  
 Global Gases Group Singapore Pte Ltd  
 Global Gases Malaysia Sdn Bhd  
 Global Gases South Africa (Pty) Ltd  
 GMC Ltd  
 Great Offshore Ltd  
 Greatship Subsea Solutions (Australia & Asia Pacific)  
 Guidance Navigation Ltd  
 HATLAPA Marine Equipment  
 Huse Engineering AS  
 Hydrasun  
 IHC Hytech BV  
 Intron Plus  
 IUC Group Inc  
 IUC Technologies LLC  
 IXSEA  
 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  
 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  
 OCEANIOS JSC  
 Oceancan Ltd  
 Oceanwide Safety at Sea BV  
 Offshore Logistics (Asia Pacific) Pte Ltd  
 Pacific Commercial Diving Supply Pty Ltd  
 Perry Slingsby Systems Inc.  
 Perry Slingsby Systems Ltd  
 Petrofac Training Services (PTS)  
 Pipeline & Piling Services Co Ltd  
 Pommec TDE BV  
 Proserv Offshore  
 Redaelli Tecna spa  
 Rigmarine FZC  
 Rolls-Royce Marine AS  
 Rolls-Royce Oy Ab  
 Rolv Berg Drive AS  
 Rovsco Asia Pte Ltd  
 Saab Seaeeye Ltd  
 Samson Rope Technologies  
 SBM Offshore NV  
 Schilling Robotics (FMC CBV Subsea)  
 Schilling Robotics, Inc.  
 Sea and Land Technologies Pte Ltd  
 Sea Software Packages & Technologies Ltd (SSP&T Ltd)  
 Sea Trucks Group FZE  
 Seaflex Ltd  
 Sealion Shipping Ltd  
 Seanetics Asia Works Pte Ltd  
 Seatools BV  
 Serimax Ltd  
 Siem Offshore AS  
 Singapore Oxygen Air Liquide Pte Ltd  
 Skan-EI AS  
 Soil Machine Dynamics Singapore Pte Ltd  
 Solstad Shipping AS  
 Sonardyne Asia Pte Ltd  
 Sonardyne International Ltd  
 Sources Workshop Equipment Co (LLC)  
 SS Subsea Pte Ltd  
 Submarine Manufacturing & Products Ltd  
 SubNet Services Ltd  
 Subsea Vision Ltd  
 Sundan Offshore Pvt Ltd  
 Synergy Diving & Equipment Solutions FZCO  
 TGH AP Pte Ltd  
 Totalmat Indústria e comercio de Equipamentos  
 Hiperbáricos Ltda  
 Trim Systems Pte Ltd  
 Underwater Technology Services (S) Pte Ltd  
 Unique Hydra  
 Unique System (UK) Ltd  
 Unique System FZE  
 Vanguard Offshore Pte Ltd  
 Velocious Pty Ltd  
 VerdErg Connectors Ltd  
 Vroon Offshore Services Ltd  
 Zone Offshore Free Zone  
  
*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  
 ATOB  
 Auto Dynamic Positioning Services Ltd  
 B&A Engineering Srl  
 Babcock International Group Marine &  
 Technology Division  
 Baker Marine Solutions  
 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  
 Consortium Underwater Engineers Ltd  
 Cosalt  
 Deep Diving Consultancy Ltd (DDC Ltd)  
 Deep Down Inc.  
 Delta Marine Technologies Inc  
 Derrick Services (UK) Ltd  
 Derrick Services (UK) Pte Ltd  
 Divetechservice Ltd  
 Diving and Offshore Works Consultancy (DOWC)

DOF UK Ltd  
DRC Dive Systems  
Dynamic Positioning Tech Sdn Bhd  
Dynamic Surveys  
Egyptian Company for Oil Services (ECOS)  
Emirates Industrial Laboratory  
ETPM Ltd  
Explorer Marine SBOSS ApS  
Fairtex Integrated Services Limited  
Fearmley Offshore Supply  
Fender & Spill Response Services  
First Marine Solutions Ltd  
Flinders EMA Pte Ltd  
Franklin Offshore Europe BV  
Franklin Offshore International Pte Ltd  
Fugro Subsea Services Ltd  
GL Noble Denton  
GL Noble Denton - Asia-Pacific  
GL Noble Denton - Central & North America  
GL Noble Denton - Middle East & India  
GL Noble Denton - South America  
Global Maritime  
Global Maritime Singapore  
GMC Ltd  
GoAGT Ltd  
Goutama Weights & Testing Pte Ltd  
Green Marine Solutions Ltd  
Greenland Maritime Solutions  
GW Marine Consultants Pty Ltd  
Healing Chambers of Asia Sdn Bhd  
Hill International (UK) Limited  
Holman Fenwick Willan  
Horizon  
Houlder Insurance Services Ltd  
Hydrasun  
IHC Offshore & Marine BV  
Imes Ltd  
Inchcape Shipping Services  
Inchcape Shipping Services Ltd - South America  
Independent Marine & Engineering Consultants (IMEC)  
Inter Mar Technology Ltd  
InterMoor Marine Services Ltd  
Interocean Marine Services Ltd  
Italian Maritime Academy Technologies  
ITIC-Insure  
JSL International (Trinidad) Ltd  
KB Associates Pte Ltd  
KDU Worldwide Technical Services (FZC)  
Kennedy Marr Ltd  
Kestrel Maritime Asia Pte Ltd  
Lexmar Engineering Pte Ltd  
LMC ApS  
London Offshore Consultants Ltd  
M3 Marine Group Pte Ltd  
Marex Marine Services Ltd  
Marine Cybernetics  
Marine Q AS  
Marine Solutions (Pty) Ltd  
Maritime Assurance & Consulting Ltd  
Maritime Management Services Inc  
MatthewsDaniel  
MCA Electric Co Ltd  
MCS Free Zone  
Medea srl  
MJR Controls Ltd  
MOS Marine Offshore Services Pte Ltd  
National Hyperbaric Centre  
Nautronix Ltd  
Navigare International Inc.  
NUI AS  
ODS-Petrodata Pte Ltd  
Offshore Commissioning Solutions  
Offshore Installation Services (OIS) Ltd  
OK Welding Marine Ltd  
Orwell Offshore Ltd  
Overseas Marine International Services  
PAE Singapore Pte Ltd  
PEM Offshore Ltd  
Perry Slingsby Systems Ltd  
Peterson SBS Den Helder BV  
Petrofac Marine Services  
Petrofac Training Services (PTS)  
Positioneering Ltd  
Primo Marine  
PRO Marine Solutions Pvt Ltd  
PT Makara Jaya Marine  
PT Rigspøk Perkasa  
PT Sirius Maritimindo Services  
QinetiQ  
Red Penguin Associates Ltd  
Reel Group Ltd  
Rolls-Royce Power Engineering plc  
Romona Inc  
Scannudring  
Schilling Robotics Ltd  
Schilling Robotics, Inc.  
Seacroft Marine Consultants Ltd  
Seanetics Asia Works Pte Ltd  
Seas Services

Sebastian AS  
Sigma Offshore Ltd  
Skan-EI AS  
Skuld AS  
Soil Machine Dynamics Ltd  
Southern Marine Consult AS  
Sparrows Offshore Services Ltd  
Specialist Marine Consultants Ltd  
Spica Marine Inspections Ltd  
STAT Marine SAS  
Steel Repair Services  
STET Maritime Pte Ltd  
Sub-Tech Systems Ltd  
SubNet Services Ltd  
Subsea Vision Ltd  
Survey Association  
Thorne Offshore Management Pte Ltd  
Tristein AS  
Ulstein Marine Systems (Shanghai) Co Ltd  
Underwater Technology Services (S) Pte Ltd  
V.Ships Ltd  
VerdErg Connectors Ltd  
Veripos  
VideoRay LLC  
Viking SeaTech  
Vroon Offshore Services Ltd  
Westcon Power & Automation AS  
Xing Wei Pte Ltd

#### *Training establishments*

Abyss AS  
Advanced Offshore Training Centre Pvt. Ltd  
Ålesund University College  
AMC Search Ltd  
APAVE MARE Training Center (ex AdriaMare)  
ASET International Oil & Gas Training Academy  
Bariff & Buchan College  
Bergen University College - Diver Education  
Bibby Ship Management Group Ltd - Europe & Africa  
Bibby Ship Management Group Ltd - Middle East & India  
BS Divers  
Centre for Marine Simulation  
Centre Méditerranéen de Plongée Professionnelle (CMPP)  
CFO - Centro Formazione Offshore  
Commercial Diving Academy  
DAN Europe  
De Moura Shipping Ltda  
Divers Academy International  
Divers Institute of Technology  
Divers University Esporte Aquático Ltda  
Diving Diseases Research Centre  
Ecole Nationale Supérieure Maritime  
Falck 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  
HT Training & Services Co Ltd  
Hydro Oil & Gas Training  
Hydrolab-HydroCAT  
Hyperbaric Training Associates  
i-UTech - Institute for Underwater Technology and Human Resources  
IDESS Maritime Centre (Subic) Inc.  
Institut National de Plongée Professionnelle (INPP)  
Interdive Services Ltd  
KBA Training Centre Pte Ltd  
Kirby Morgan Dive Systems  
LBJ Maritime Inc  
Logan's Oil Field Services Ltd  
Marine Solutions (Pty) Ltd  
Maritech Group  
Maritime Institute Willem Barentsz  
Maritime State University named after G.I. Nevelskoy  
Maritime Training & Competence Solutions Ltd  
MOG Industry Training Co Ltd  
MSTS Asia Sdn Bhd  
National Hyperbaric Centre  
National Oceanography Centre  
Netherlands Diving Centre  
North Sea Lifting Ltd  
NZ School of Commercial Diver Training  
Occupational Training Centre Pte Ltd  
Offshore Marine Academy Ltd  
Offshore Skills Training Centre (OSTRAC)  
Pan Arab E-Navigation DP Training Center  
Perry Slingsby Systems Inc.  
PNI Training Centre AS  
Polaris Learning Ltd  
Power & Generation Services  
Professional Diving Academy  
Professional Diving Centre  
PT Barron International  
PT ISBI

PVD Technical Training and Certification Joint Stock Company  
QSTAR SLU  
Satakunta University of Applied Sciences  
SBS Int Ltd  
SEADOG  
Seahorse Services Corporation - Training  
Seneca College - Underwater Skills Program  
Ship Modelling & Simulator Centre  
Simsea AS  
Sogn og Fjordane Technical College, Maritime Department Måløy  
STC-Group  
STORM Ltd  
SubNet Services Ltd  
SubNet Services Ltd - Asia-Pacific  
Survie Mer Formation  
TGH AP Pte Ltd  
The Dynamic Positioning Centre Ltd  
The Faraday Centre Ltd  
The Ocean Corporation  
The Underwater Centre (Tasmania) Pty Ltd  
The Underwater Centre Fort William Ltd  
The Underwater Centre Fremantle Pty Ltd  
The Underwater Training Centre - South Australia  
Underwater Engineering Ltd  
Videotel Marine International Ltd  
WA Maritime Training Centre - Fremantle  
YAK Diving Academy

#### *Personnel Agencies*

Ace Diving Services CC  
Alfa Petroleum Services  
Anglo-Eastern Group  
Atlas Services Group Australia Pty Ltd  
Atlas Services Group Energy Ltd  
Bibby Ship Management Group Ltd - Europe & Africa  
Bibby Ship Management Group Ltd - Middle East & India  
Compass Personnel Services Inc  
Connect Energy Services Pte Ltd  
Dave Oliver Hydrographic Services Ltd  
De Moura Shipping Ltda  
Del. Seatex India Pvt. Ltd  
EF Consult Asia Pte Ltd  
GOSS Consultants Ltd  
Hydrosud Ltd  
Inseacon Services  
IOS (International Offshore Services)  
IV Offshore  
Lerus Ltd  
Maritech Group  
MCL Medics  
Naurex Resources  
Nautech Services Ltd  
Nedcon Maritime  
Oceanscan 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  
Seatechs Limited  
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  
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  
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  
Caim Energy India Pty Ltd

Chevron Brasil Petroleo Ltda  
Chevron Energy Technology Company Subsea  
Chevron Shipping Co  
Chevron Thailand Exploration & Production Ltd  
CNR International UK Ltd  
ConocoPhillips  
ConocoPhillips (UK) Ltd  
ConocoPhillips China Inc  
Dana Petroleum Netherlands BV  
Dana Petroleum plc  
Department of Labour (South Africa)  
Det Norske Veritas  
Dolphin Energy Ltd  
DONG E&P AS  
Equion Energia Limited  
Esso Australia Pty Ltd  
ExxonMobil Development Company  
GDF Suez E&P Nederland bv  
Germanischer Lloyd SE  
Gulf of Suez Petroleum Company (GUPCO)  
Health & Safety Authority  
Husky Energy  
Instituto Brasileiro de Petróleo, Gás e Biocombustíveis  
International Association of Oil & Gas Producers (IOGP)  
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  
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 UK Ltd  
Petrobras SA  
Premier Oil Natuna Sea  
Premier Oil ONS Ltd  
PT Pertamina Hulu Energi ONVJ  
PTT Exploration & Production plc  
Qatar Petroleum  
Ras Laffan Industrial City  
RasGas Company Limited  
Santos Ltd  
Sarawak Shell Berhad  
Saudi Aramco  
Shell International Exploration & Production bv  
Shell Todd Oil Services Ltd  
Sonangol Pesquisa & Produção  
Statoil ASA  
Suncor Energy Inc.  
Talisman Energy (UK)  
Talisman Malaysia Ltd  
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 ASA  
Woodside Energy Ltd  
Zakum Development Company (ZADCO)

## RECENT & FORTHCOMING EVENTS

5-6 December 2012  
Offshore Wind Health & Safety Summit  
Copenhagen, Denmark

**12 December 2012**  
**Asia-Pacific Section**  
**Jakarta, Indonesia**

15 January 2013  
Underwater Intervention  
New Orleans, USA

**23 January 2013**  
**South America Section**  
**Rio de Janeiro, Brazil**

**18 February 2013**  
**Middle East & India Section**  
**Dubai, UAE**

**19-20 February 2013**  
**Major Incident Prevention in**  
**Marine Operations**  
**IMCA Safety & Environment Seminar**  
**Dubai, UAE**

19-20 February 2013  
Annual Offshore Support Journal Conference  
London, UK

5-7 March 2013  
Subsea Tieback  
San Antonio, USA

**21 March 2013**  
**Asia-Pacific Section**  
**Hong Kong**

9-11 April 2013  
Ocean Business  
Southampton, UK

9-11 April 2013  
Sea Asia  
Singapore

23-25 April 2013  
North Sea Offshore Cranes & Lifting  
Stavanger, Norway

24-25 April 2013  
DP Brasil  
Rio de Janeiro, Brazil

6-9 May 2013  
Offshore Technology Conference 2013  
Houston, USA

22-23 May 2013  
All Energy 2013  
Aberdeen, UK

**22 May 2013**  
**The Wellington Reception**  
**London, UK**

11-14 June 2013  
Brasil Offshore  
Macaé, Brazil

**14 June 2013**  
**Midsummer Charity Ball**  
**Aberdeen, UK**

3-5 September 2013  
Oceanology International China  
Shanghai, China

3-6 September 2013  
Offshore Europe  
Aberdeen, UK

30 September-2 October 2013  
Middle East Workboats & Offshore Marine  
Abu Dhabi, UAE

22-24 October 2013  
Deep Offshore Technology International  
Houston, USA

For full details on all events,  
please visit our website:

[www.imca-int.com/events](http://www.imca-int.com/events)

# Major Incident Prevention in Marine Operations

**19-20 FEBRUARY 2013**

JW Marriott Hotel Dubai  
Abu Baker Al Siddique Rd  
Deira, Dubai  
United Arab Emirates

For more information contact:

IMCA  
[events@imca-int.com](mailto:events@imca-int.com)  
Tel: + 44 (0) 20 7824 5520



[www.imca-int.com/events](http://www.imca-int.com/events)

## COMPETENCE WORKSHOP

**12 MARCH 2013**  
**HILTON TREETOPS**  
**ABERDEEN, UK**

[EVENTS@IMCA-INT.COM](mailto:EVENTS@IMCA-INT.COM)  
[WWW.IMCA-INT.COM/EVENTS](http://WWW.IMCA-INT.COM/EVENTS)