

## CMID database launches

The CMID, a common format for inspection of offshore vessels, has helped improve efficiency and minimise repeat inspections over ten years. Now, a new website and software application will further enhance the useability and availability of CMID reports.

The IMCA Common Marine Inspection Document (CMID) Database website and e-CMID application have gone live this month and are available at [www.imcacmid.com](http://www.imcacmid.com)

The CMID was originally launched in 1999 and has helped to avoid duplicate inspections every time a new client wishes to charter a vessel and to standardise

inspection requirements, by providing a common, recognisable format. Issue 7 of the CMID was published in March 2009 following cross-industry review to enhance the quality of the report, remove subjectivity and provide additional guidance on inspector competency.

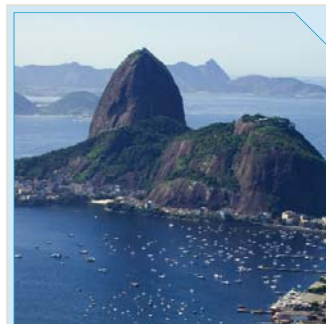
The website aims to improve the availability of completed

CMID inspection reports and is available to all companies (not just IMCA members) who are vessel operators, their clients and the inspectors who are commissioned to undertake CMID inspections.

In parallel, the new e-CMID application will assist inspectors in completing reports to a consistent standard, obtaining certain vessel-specific information in the report template, then uploading directly into the database for review.

There is no charge for use of the site – it is fully funded by IMCA for the industry.

Each company should register once – the first user will be the administrator and key contact, able to add other users within the company. User guides have been developed for each role – vessel operator, client and inspector – and the system allows for situations where companies may operate and charter vessels or where vessel operators and clients have in-house inspectors.



### Rio seminar success

The seventeenth IMCA annual seminar took place at the Sofitel Rio de Janeiro, Brazil, on 4-5 November 2009. On the theme *Integrated marine operations in challenging times*, the event attracted over 300 delegates for a range of presentations, workshops, social/networking events and an exhibition.

Supporting organisations included IBP (Instituto Brasileiro de Petró, Gás e Biocombustíveis – the Brazilian petroleum institute). A number of local delegates attended, including both members and those new to the association and its work.

The new IMCA Central & South America Section is already seeing much interest and growth and this event both further raised the association's profile and enabled the exchange of ideas from and to the region in the pursuit of safe and efficient marine contracting.

*Continued on page 2*

### Also in this issue:

#### Deep water acoustic positioning

A new guide to deep water acoustic positioning principles, systems and their use is now available from IMCA.

[Get the full story on page 13](#)

#### Safe isolation for diver access

IMCA has published new guidance on isolation and intervention to enable safe access by divers to subsea systems.

[Find out more on page 11](#)

#### IMCA on the move

The IMCA secretariat is moving to new London offices in mid-December 2009. Please update your address books!

[Full details on page 3](#)



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### Rio seminar success

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The programme included the usual broad range of subjects, covering recent technical developments with implications for the industry, through to health, safety and environmental issues. For this year's event, a simultaneous translation service was provided throughout.

The strong growth of the seminar exhibition continued, once again breaking a record as 28 supplier members displayed their products and services.

Hugh Williams welcomed delegates to the event, before introducing IMCA President Johan Rasmussen of Acergy for the opening keynote address. Johan spoke on how marine contractors can make progress in challenging times, outlining the importance of continued investment, ongoing integration and of common principles of risk assessment and safety management. He concluded that IMCA membership remained a key part of integration in challenging times. Alvaro Teixeira of IBP followed with a keynote address outlining some of the key challenges facing the E&P industry offshore Brazil. Giorgio Martelli of Saipem reiterated the importance of integration for successful contracting, proposing key integration tools including knowledge sharing. Steve Preston of Heerema Marine Contractors then brought the keynote session to a close with a historical perspective on marine contracting, concluding that the industry could respond well to technical and economic challenges through adoption of the common guidance and practices encouraged by IMCA.

After a morning plenary session which included further presentations on subsea safety, dockyard safety and geopolitical challenges, the seminar then split into three parallel sessions. For the second year, marine and diving sessions were joined by a successful and well-attended offshore survey and ROV stream. These sessions covered a diverse range of technical matters, including green DP, deep diving health issues and atmospheric and solar effects on precise positioning.

Day two commenced with a plenary session with presentations on transportation and installation of mooring piles in deep water, lifting equipment design and decommissioning of large structures.

The technical sessions included presentations on economic design of fault tolerant DP systems, hyperbaric diver emergency facilities and high resolution AUV survey sensors and data.

The afternoons featured a series of workshops on topics such as diver health, IMCA's role at IMO, deepwater umbilical and handling systems, lifting operations and DP incident reporting. The social and networking programme included a poolside drinks reception on the first evening, dinner at Porcao Rio, a renowned beachside barbeque restaurant and a very successful closing drinks reception onboard the vessel Spirit of Brazil, including a tour of the Guanabara Bay.

A CD of the presentations and summaries is now being prepared. Initial plans for 2010 see the event returning to Abu Dhabi, UAE.



Keynote speakers and panel (L-R) Steve Preston, Alvaro Teixeira, Johan Rasmussen, Claudio Araujo (Petrobras) and Giorgio Martelli



*Making Waves* – the newsletter of the International Marine Contractors Association – is published quarterly to promote knowledge of safety and technical matters affecting the offshore, marine and underwater engineering industry.

Succinct, positive contributions of potential interest to a wide cross-section of members are welcome.

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

Editor: **Adam Hugo**  
(Adam.Hugo@imca-int.com)

### Get involved

In this edition of *Making Waves* you can find a variety of ways in which you can get the most from your IMCA membership. Here are a few pointers:

- ◆ Be part of the industry's drive to further improve offshore safety by

submitting your incident reports, advising of hazards identified and sharing lessons learnt through IMCA see page 4

- ◆ Get involved in the Diving Division work programme through membership of the SMTT committee see page 11

- ◆ Help IMCA build accurate and comprehensive data on the industry and its activities worldwide by providing your company data see page 11 (diving personnel) and 14 (ROV personnel and ROVs in use)
- ◆ Attend an event – see the IMCA calendar on page 16

## Contracts & Insurance Workgroup update

A new chairman has been appointed for the IMCA Contracts & Insurance Workgroup – Barbara de Roo of Heerema Marine Contractors. The group developed the well received *IMCA contracting principles*, published in February 2005, the 2006 risk document and considers a range of contracting-related issues.

Earlier in 2009, IMCA held a successful offshore construction insurance workshop and it is proposed to follow this up with a similar event in early 2010. This will address insurance itself, as well as where it fits into construction contracts.

To keep up to date with developments, log in via [www.imca-int.com/contracts](http://www.imca-int.com/contracts) or contact [Hugh.Williams@imca-int.com](mailto:Hugh.Williams@imca-int.com)



## Office move

The IMCA secretariat is moving to new offices in mid-December.

Five years in Lower Belgrave Street have seen an expansion from eight to 17 members of staff, matching the growth in membership which has enabled a significant expansion in the association's work programme.

With the lease expiring and the building due for redevelopment, the opportunity afforded by the current economic situation to obtain more space at competitive rent has been taken, so the secretariat is moving.

The new offices are literally across the street, with the new entrance even closer to London Victoria rail/tube station, with excellent airport access – perfect for members and others visiting the secretariat for meetings.

Please update your address books from 14 December to show IMCA's new mailing/street address as:

52 Grosvenor Gardens, London  
SW1W 0AU, UK

Telephone, fax and e-mail addresses remain the same.

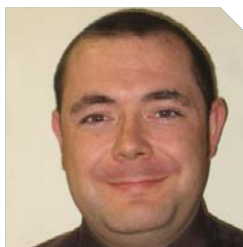
## Gordon Kelly joins the IMCA secretariat

With the launch of the new CMID Database website and e-CMID (see page 1), a new member of staff has been recruited to administer the system and support its users.

Gordon Kelly joined the secretariat in September 2009 as Database Administrator/Developer and has already been busy with the test programme for the system and development of a series of user guides.

He will also assist in supporting the secretariat's IT network and with the development of both existing and new databases for the association.

Gordon studied computing science at university in Glasgow and comes from a software and database development background with experience of helpdesk and IT support.



## From the President

Johan Rasmussen, Acergy  
IMCA President 2009



I was delighted to attend the very successful annual seminar in Rio recently and see first hand how IMCA's work and its newest section, the Central & South America Section, are progressing.

I was impressed how the spread of the association's membership continues to widen. It is increasing numerically, regionally and with new disciplines and technical developments. This brings new challenges to the association and the secretariat. To tackle these requires priorities and focus which can be facilitated by being clear about what IMCA stands for.

The association exists to help its members deliver safe and efficient marine projects. In the current climate there is also a renewed focus on costs. In such a fast moving, cost aware industry both simplification and standardisation offer significant rewards to contractors and hence to their clients, so these remain top aims for IMCA especially as the work moves around the world into new arenas.

The uncertain work loads predicted for 2010/11 may force employment to shrink. Dealing with this was the subject of a recent seminar hosted by Deloitte and IMCA in Houston for clients and contractors. The seminar focused on the risks: losing key personnel; putting off new recruits; endangering hard-won competence; and threatening the ability of contractors to deliver value and solutions to clients as fast as previously possible. It also focused on the opportunities of working together now for a better, more efficient future.

IMCA has an important role in bringing parties together for such dialogue and endeavouring to facilitate follow-up action and I will play my part in trying to give priority and focus where needed.



## News from IMCA's core activities

### Improving safety together

IMCA safety flashes and systems for incident reporting and analysis help share vital safety information. Shouldn't your company be a part of them?

By publishing vital safety information, IMCA helps its members around the world identify potential hazards, share lessons learnt and thus avoid needless repetition of incidents.

Examples of how these systems have helped keep the offshore workforce and fleet safe include:

- ◆ identifying defective equipment, drawing the attention of users to hazards and working with manufacturers on remedies
- ◆ sharing investigation findings and actions taken to improve company procedures
- ◆ highlighting how better safety awareness in the workplace, particularly in 'routine' situations, can help to avoid incidents.

These have been vital tools for the industry in the continuous improvement in safety performance over many years but, since fatalities, injuries and damage still occur, there can be no let-up in the importance of participation by all parties.

Anonymity is vital in IMCA's approach, whereby safety flashes, annual DP incident reports and other documents have identifying details removed and are checked with contributors prior to publication. Un-minuted discussion of safety-related incidents takes place at committee and section meetings with the same purpose. The aim is not to apportion blame but rather to share safety information and help improve safety throughout the industry.

Visit [www.imca-int.com/incidentreports](http://www.imca-int.com/incidentreports) for more details and ensure your distribution list for alerts includes [incidentreports@imca-int.com](mailto:incidentreports@imca-int.com)

### New guidance on radioactive material

IMCA has published new *Guidance on handling naturally occurring radioactive materials*, otherwise known as NORM.

Small quantities of solid NORM can be generated by petroleum production facilities and the pipes, flowlines and other equipment which may be handled by IMCA members' personnel. Correct handling is important to avoid issues of occupational health and safety, environmental protection, waste disposal and management. If handled correctly, it poses no hazard to health or the environment.

The new document provides guidance for members on such material and how it should be handled, including:

- ◆ a brief background on what NORM is
- ◆ identifying the hazards involved and their context
- ◆ considerations for properly handling and disposing of such material when planning offshore operations.

The guidance (IMCA SEL 024) is available via the members-only website and in printed format.

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

### Safety seminar 2010

Plans for the 2010 IMCA safety seminar – *Safety is our common language* – are well advanced and the seminar brochure will be published shortly.

A full two-day programme has been assembled, with topics ranging from safety promotion among the workforce through to environmental and health issues, including case studies on incidents and lessons learnt.

Visit [www.imca-int.com/events](http://www.imca-int.com/events) for full details as they are announced.

### Security DVD plans

As part of its extensive work programme, the IMCA Security Task Force is working to produce a security DVD.

Developed from a video originally commissioned by two IMCA members, the DVD will refer extensively to the well-received *Guidance on travel security* (IMCA SEL 014) published in June 2006.

The guidance provides many useful tips which this new development will help share with the offshore workforce.

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**MAREX**  
MARINE AND SAFETY SERVICES

## Updated competence documents available

IMCA has published the first two volumes in the latest update of its *Guidance on competence assurance and assessment*.

The overview competence guidance, which sets out how the IMCA framework can be implemented in contractors' own competence schemes, has been updated and forms the front part of IMCA C 004 (Offshore Survey) and C 005 (ROV) Rev. 2.

The overall revision includes:

- ◆ technical updates, based on developments in technology and operational practices
- ◆ changes to improve the consistency of format and wording between the various sectors
- ◆ a number of additional positions being introduced to the competence framework, including client representative positions first introduced via an information note in 2004.

The offshore survey volume reflects these updates.



The ROV volume also includes five new positions: ROV superintendent, ROV tooling supervisor and three grades of ROV tooling technician.

### Work continues

The marine volume (C 002) is currently under review, as is the diving volume (C 003), which is being expanded to incorporate additional task-specific competences.

The combined volume covering all four divisions (C 001) has been temporarily withdrawn pending completion of the diving and marine updates.

Information packs for freelance personnel, available via the website, will be updated to reflect the newly published competence tables, but remain available for now as they are still a useful reference.

The Competence & Training committee is working to assist members, by developing additional guidance and case studies on implementation of company competence schemes, a DVD to promote use and awareness of competence schemes and updates to the *IMCA record of competence* (IMCA C 006).

## Human capital forum

The US oil and gas market responds to economic swings faster than most, with intense pressure on contractors to downsize when projects drop away. This risks losing the competence and structured career progression of employees which were beginning to build during the past few steadily busy years.

Deloitte had addressed IMCA a few years ago about skills shortages and 'Generation Y' and was asked again about options during this lean time. From this, a joint Deloitte/IMCA forum entitled "*Our road to recovery: The human capital challenge*" was developed, taking place on 10 November in Houston, USA, with about 50 oil company and contractor delegates attending. A line-up of very senior speakers and panellists included Gary Luquette (Chevron), Dave Dickson (Technip), Bruce Crager (J Ray McDermott), Chuck Meloy (Anadarko), Ben Bentley (Kiewit) and Joe Kelly (Deloitte), who were all informative, entertaining and engaging in their clear exposition of the challenges and opportunities that the credit crunch has brought to our industry and each sector.

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## Regional news

### Central & South America

The new Central & South America Section is off to a flying start. Following July's briefing seminar, the IMCA annual seminar held in Rio de Janeiro earlier this month (see pages 1-2) helped further raise the profile of the association in the region and attracted interest from a range of local companies and members active elsewhere in the world.

Elections are now taking place for the section's first chairman and vice-chairman, ahead of the first section meetings in 2010.

In related developments, IMCA has been working to translate a number of key guidance documents into Latin American Portuguese and Spanish, to assist members and others working in the region. The first translated documents are now available, with others in development. As with the English versions, certain of these are freely downloadable from our website, with printed copies also available.

For details and downloads, visit [www.imca-int.com/centralsouthamerica](http://www.imca-int.com/centralsouthamerica)

### Asia-Pacific

The Asia-Pacific Section held its latest meeting on 13 August 2009 in Bangkok, Thailand. The well attended meeting included presentations on the SPS Code and on an unusual diving project a member had undertaken.

Two useful workshops were also held, on personnel transfer guidance and proposals for a database of national regulatory requirements, obtaining useful feedback for the committees leading these items.

The next meeting is scheduled for 3 December in Kuala Lumpur, Malaysia, before the section turns its attention to Singapore as it hosts the 2010 IMCA safety seminar on 24-25 February.

### Middle East & India

The latest section meeting took place on 6 October 2009 alongside the Middle East Workboats exhibition in Abu Dhabi, UAE. 45 members and guests attended the meeting, which included the regular updates on global activities and discussion on the role of a trade association and use of guidance.

IMCA also exhibited at the workboats event, where the association's stand received a number of member and new visitors who were able to find out more about IMCA's work.

The next meeting is scheduled for 19 January in Jebel Ali, UAE, with presentations planned to further enhance interactivity.

### Europe & Africa

The latest section meeting took place alongside the popular Offshore Europe exhibition and conference in Aberdeen, UK, on 10 September 2009. As usual, the meeting featured updates for members and guests on the current IMCA work programme. Robin Davies of Subsea 7 was a guest speaker and gave an interesting presentation on the role of a trade association in challenging times, which was further explored by a panel-led discussion. The next section meeting is currently being planned for March 2010, to take place alongside Oceanology International in London, UK.

### MIST briefing

IMCA hosted a seminar on 20 October 2009 in Aberdeen, UK, to update members on the introduction in the UK of the Minimum Industry Safety Training programme. Presentations covered the background to MIST, as well as feedback from different parties on implementing the scheme. A panel-led discussion followed which addressed members' questions and helped identify issues still to be resolved, such as whether MIST will apply to vessel personnel.

Contact [Emily.Comyn@imca-int.com](mailto:Emily.Comyn@imca-int.com) for further information.

### North America

The section met on 10 November 2009 at Downtown Houston's Doubletree Hotel with around 30 members and guests present. This was the first section meeting under the new 'North America' name and members discussed revised objectives for the section. Work in the region includes:

- ◆ representations in relation to US Customs proposals with regard to Jones Act rulings. Since issue 52 IMCA made the planned submission and the proposals were withdrawn. However, we understand they are likely to re-emerge and discussion is ongoing with various parties in industry and government
- ◆ Plans are forming for a Houston seminar in spring 2010, following the successful safety seminar held at Minute Maid Park in 2009
- ◆ IMCA continues to have representation at the US National Offshore Safety Advisory Committee (NOSAC) meetings – industry's best link with the US Coast Guard – which increasingly addresses items relevant to IMCA.

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## IMCA secretariat:



**Hugh Williams**  
Chief Executive



**Jane Bugler**  
Technical Director



**Philip Wiggs**  
Technical Adviser



**Nick Hough**  
Technical Adviser



**Ian Giddings**  
Technical Adviser



**Paul Evans**  
Technical Adviser



**Emily Comyn**  
Technical Adviser

**Genine da Cruz Harvey**  
Certification Schemes Administrator  
for diving supervisors and LSTs

**Adam Hugo**  
Support Services Manager

**Nina Adams**, Senior Administrator  
- publication sales

**Parul Patel**, Administrator  
- seminars and committee meetings

**Claudine Bleza**, Administrator  
- social events and exhibitions

**Ann Barnatt**, Administrator  
- document production and member records

**Andy Butler**, Administrator  
- document production and certification support

**Chi Edwards**, Administrator  
- document production and member records

**Gordon Kelly**, Database Administrator/Developer  
- CMID database and IT

**Jean Carmichael**, Bookkeeper

## IMCA is moving – see page 3

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## 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**

Johan Rasmussen, Acergy

**IMCA Vice-President:** Andy Woolgar, Subsea 7

Hugh Williams, *Chief Executive*

Jane Bugler, *Technical Director*

### Committee Chairmen and Vice-Chairmen

**CT:** Steve Sheppard, Helix ESG  
Mark Elder, Subsea 7

**SEL:** Wallace Robertson, Helix ESG  
Dave Forsyth, Bibby Offshore

**Diving:** Alan Forsyth, Subsea 7  
Paul Blewett, Technip

**Marine:** Pete Somner, Technip  
Pete Fougere, Transocean

**Survey:** Will Primavesi, Oceanteam Subsea Services  
Walter Steedman, Veripos

**ROV:** Neil Milne, Subsea 7  
Espen Ingebretsen, Oceaneering

### Regional Section Chairmen and Vice-Chairmen

#### Asia-Pacific

Andy Bolton, Technip Subsea 7 Asia Pacific  
Mark Shepherd, Mermaid Offshore Services

#### Central & South America

*New positions – election underway*

#### Europe & Africa

Wim de Boer, Heerema Marine Contractors  
Jim Sommerville, Fugro-Rovtech

#### Middle East & India

Roy Donaldson, BUE Marine  
Kris Chambers, Global Industries

#### North America

Alan Allred, Aker Marine Contractors  
Bruce Gresham, Heerema Marine Contractors

### Competence & Training Committee

**Chairman:** Steve Sheppard, Helix ESG

**Vice-Chairman:** Mark Elder, Subsea 7

Craig Darroch, Acergy

Pauline Irwin, DOF

George Robertson, Fugro-Rovtech

David Moxey, Northern Marine Management

Paul Gleisner, Schilling Robotics

Gavin Smith, Subsea 7

Roy Hay, Technip

**Asia-Pacific:** Anthony Reudavey, Blue Water Engineering

**Middle East & India:** Mohamed Omar, INW

**North America:** Tony Greenwood, Cal Dive International

### Marine Division MC

**Chairman:** Pete Somner, Technip

**Vice-Chairman:** Pete Fougere, Transocean

Alistair MacLeod, Acergy

Quirien Grul, Allseas

Derek Judd, Bibby Offshore

Anders Waage, DOF Management

Michiel Goedkoop, Heerema Marine Contractors

David Blencowe, Maersk Supply Service

John de Hartog, Saipem

Geir Karlsen, Subsea 7

Kjell Egil Helgøy, Teekay

**Asia-Pacific:** Mike Meade, M3 Marine

**Middle East & India:** Ron Clark, NICO Middle East

**North America:** Mike Lawson, Transocean

### Safety, Environment & Legislation Committee

**Chairman:** Wallace Robertson, Helix ESG

**Vice-Chairman:** Dave Forsyth, Bibby Offshore

Andrew Culwell, Acergy

Keith Mobbs, DeepOcean

Jos van der Horst, Heerema Marine Contractors

Jim Knight, Heerema Marine Contractors

Sal Ruffino, Saipem

Alan Forsyth, Subsea 7

Allan Hannah, Technip

Henk Swennen, Van Oord Offshore

**Asia-Pacific:** Des Power, Subsea 7 Asia Pacific

**Middle East & India:** Mohamed Osman, Maridive

**North America:** Greg Payne, Heerema Marine Contractors

### Offshore Survey Division MC

**Chairman:** Will Primavesi, Oceanteam Subsea Services

**Vice-Chairman:** Walter Steedman, Veripos

Ray Morgan, Acergy

Michiel van de Munt, Allseas

Stuart Reid, Andrews Survey

Ed Danson, C&C Technologies

Keith McGregor, DeepOcean

Simon Barrett, DOF Subsea

Ian McKenzie, Fugro Survey

Egbert Verweij, Heerema Marine Contractors

Peter Thomas, Maritech

Paul van Waalwijk, Noordhoek

Paul Bennion, Saipem

Martin Day, Subsea 7

**Asia-Pacific:** Dave Scott, Fugro Survey Pte Ltd

**Middle East & India:** Mark Beloeil-Smith, GEMS International

**North America:** Vacancy

### Diving Division Management Committee

**Chairman:** Alan Forsyth, Subsea 7

**Vice-Chairman:** Paul Blewett, Technip

Joar Gangenes, Acergy

Alan Thomas, Cape Diving

Steve Sheppard, Helix ESG

Jerry Starling, Integrated Subsea Services

Darren Brunton, KB Associates

David Smith, National Hyperbaric Centre

Hans Berkhof, Noordhoek Offshore

Calum Buchanan, RBG

Maurizio Chines, Saipem

Dennis Stolk, SMIT Subsea

**Asia-Pacific:** Glyn Jones, Hallin Marine

**Middle East & India:** Kris Chambers, Global Industries

**North America:** Allan Palmer, Cal Dive International

**SMIT Chairman:** Dave Munro, Subsea 7

### Remote Systems & ROV Division MC

**Chairman:** Neil Milne, Subsea 7

**Vice-Chairman:** Espen Ingebretsen, Oceaneering International

Colin Mackay, Acergy

Piet Sluiter, Allseas

Federico Morello, DNT Offshore

Keith Robathan, DOF Subsea

Jim Mann, Fugro

John Davies, Global Marine Systems

Mike Arnold, Hallin Marine

David Rhodes, Integrated Subsea Services

Kevin Kerins, Oceaneering International, Inc.

John Pirie, Technip

Grant Cowie, TS Marine

**Asia-Pacific:** Ian Huggins, Hallin Marine

**Middle East & India:** Doug Graham, Fugro Survey ME

**North America:** Ian Edmonstone, Helix ESG



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**Aceryg**  
**Allseas Group**  
**Global Industries**  
**Heerema Marine Contractors**  
**Helix Energy Solutions Group**  
**J Ray McDermott**  
**Saipem**  
**Subsea 7**  
**Technip**

## Contractors

Abel  
Acergy Asia Middle East  
Adams Offshore Services Ltd  
Advanced Energy Systems (ADES)  
Ajang Shipping Sdn Bhd  
Aker Marine Contractors AS  
Aker Marine Contractors, Inc.  
Aker Oilfield Services  
Alam Subsea Pte Ltd  
Algoasibi Diving & Marine Services  
Allied Marine & Equipment Sdn Bhd  
AlMansoori Production Services LLC  
Andrews Survey  
Aqua Diving Services  
Aquanos Ltd  
Arab Tanker Services  
Arabian Gulf Mech. Svcs & Ctrg Co.  
Arena Sub srl  
Argus Remote Systems  
ATCO Ports Mgt & Marine Svcs  
Atlantic Towing Ltd  
B+H Equimar Singapore Pte Ltd  
BEKK Solutions Ltd  
Bibby Offshore Ltd  
BJ Services Co (Middle East) Ltd  
Bluestream Offshore BV  
Bluewater Energy Services BV  
Bluewater Offshore Construction  
Boskalis Offshore  
Bourbon  
BUE Marine Ltd  
Bumi Armada Berhad  
C&C Technologies Inc.  
C&C Technologies (Europe & Africa)  
Cal Dive International, Inc.  
Cal Dive International Pte Ltd  
Cal Dive International Pte Ltd - ME  
PT Calmarine  
Canship Ugland Ltd  
Cape Diving  
Caspian Sea Oil Fleet (CSFOF)  
CCC (Underwater Engineering) SAL  
CDMS Ltd  
CDS Subsea Pte Ltd  
Celtic Africa Ltd  
CH Offshore Ltd  
Clough Oil & Gas  
CNS International srl  
Copetech-SM  
Coral Alliance Sdn Bhd  
CUEL Ltd  
Dalgidj Private Company  
DCN Global LLC  
DeepOcean (a Trico Group co.) – E&A  
DeepOcean (a Trico Group co.) – ME&I  
Diamond Offshore Drilling Inc  
DNT Offshore srl  
Dockwise  
DOF Management AS  
DOF Subsea (Australia & Asia Pacific)  
DOF Subsea Brasil Serviços Ltda  
DOF Subsea Norway AS  
DOF Subsea UK Ltd  
DOF UK Ltd  
Dolphin Drilling Ltd  
Dolphin Offshore Enterprises (India)  
Duik Combinatie Nederland BV  
Dulam International Ltd  
Dunnimaa Engineers & Divers Ent. Pvt Ltd  
EDT Marine Construction Ltd  
EDT Offshore  
EGS (Asia) Ltd  
Eidesvik AS  
PT Ekanuri Indra Pratama  
EMAS Offshore Pte Ltd  
ER Offshore GmbH & Cie KG

Fairmount Marine bv  
Far Eastern Shipping Company  
Finstaship  
Five Oceans Services GmbH  
LLP FSDS  
Fugro Marine Services bv  
Fugro-Rovtech  
Fugro SAE  
Fugro Subsea Services Pte Ltd  
Fugro Survey (India) Pvt Ltd  
Fugro Survey (Middle East) Ltd  
Fugro Survey (Singapore) Pte. Ltd  
Fugro Survey Ltd  
Galliano Marine Service LLC  
GAS Geological Assistance & Services srl  
GEMS International NV – Abu Dhabi  
GeoLab Ltd – Abu Dhabi  
GeoLab srl  
GEOTeam srl  
Global Marine Services  
Global Marine Systems Ltd  
GO Offshore  
GOGAS Gulf Oil and Gas LLC  
Great Offshore Ltd  
Greatship (India) Ltd  
SC Grup Servicii Petroliere SA  
Gulf Dredging & General Contracting  
Gulf Marine Services  
Gulf Offshore (North Sea) Ltd  
Gulmar Offshore Middle East LLC  
HAL Offshore Ltd  
Halani Shipping Pvt Ltd  
Hallin Marine  
Hallin Marine UK Ltd  
Halul Offshore Services Co.  
Harbor Star Shipping Services, Inc.  
HEISCO  
Horizon Survey Company (FZC)  
Hornbeck Offshore Operators LLC  
Hull Support Services Ltd  
Huta Marine Works Ltd  
IDMC – Impresub Diving & Marine  
Impresub International LLC  
Inspecta International Co. LLC  
Inspectahire Instrument Co. Ltd  
Integrated Subsea Services Ltd  
Integrated Subsea Services AP Pte Ltd  
Intl Marine Works - Alexandria  
Intl Naval Works - Abu Dhabi  
IOTA-Survey  
IRSHAD  
Island Offshore Management AS  
Jack-Up Barge BV  
Jifmar Offshore Services  
Jumbo Offshore VoF  
KD Marine Ltd  
Knutson OAS Shipping AS  
Kreuz Offshore Marine Pte Ltd  
Kreuz Subsea Pte Ltd  
Lamnalco Group  
PT Lancar Rejeki Berkas Jaya  
LD Travocean  
Louisiana Overseas Inc.  
Maersk Drilling  
Maersk Supply Service  
Maridive & Oil Services  
Maridive & Oil Services (SAE)  
Maridive Offshore Projects  
Marine Consulting srl  
Marine Subsea AS  
Master Tech Diving Services  
MENAS  
Mermaid Marine Australia Ltd  
Mermaid Offshore Services Ltd  
Miclyn Express Offshore Pte Ltd  
Mohn Drilling AS  
Mutawa Marine Works Est  
NDE – Nordisk Dyk Entreprenad AB  
Neptun Subsea AS  
Neptune Marine Services  
Nexans Norway AS - Energy Division  
NICO Middle East Ltd  
Noordhoek Offshore BV  
NOR Offshore Ltd  
Nordic Heavy Lift ASA  
Northern Marine Management Ltd  
NPCC Survey  
Ocean Works Asia Inc.  
Oceaneering International (UK)  
Oceaneering International Asia Pacific

Oceaneering International Inc.  
Oceaneering Subsea Services Ltd  
Octomar  
Odjell Drilling  
Offshore Geo-Surveys Sdn Bhd  
Offshore International FZC  
Offshore Manpower SA  
Offshore Marine Services Pty Ltd  
Offshore Oil Eng. Co. Ltd (COOEC)  
Offshore Subsea Services  
Offshore Subsea Works Sdn Bhd  
Offshore Technology Solutions Ltd  
Olympic Shipping AS  
Orogenic GeoExpro Sdn Bhd  
OSM Ship Management AS  
Pacific Crest Pte Ltd  
Pacific Richfield Marine Pte Ltd  
PT Patra Dinamika  
Pelican Offshore Services Pte Ltd  
Petra Resources Sdn Bhd  
Petroleum Marine Services Company  
PFCE Ocean Engineering Sdn Bhd  
Phoenix International  
Pride International  
PT Prima Mitranata  
Prosafte Offshore Ltd  
PWV-Group  
Rana Diving spa  
RBG Ltd  
REM Offshore AS  
Riise Underwater Engineering AS  
Riise Underwater Engineering AS (AP)  
Riise Underwater Engineering AS (MEI)  
Rolv Berg Drive AS  
Rubicon Offshore Intl Pte Ltd  
Sahara Petroleum Company  
Saipem sa - Saibos Division  
SAL Shipping  
Sapura Diving Services Sdn Bhd  
PT Samudera Biru Nusantara  
Sarku Engineering Services Sdn Bhd  
SAROST SA  
SBM Offshore NV  
Sea Trucks Group FZE (ME & India)  
Sea Trucks Group FZE (Asia-Pacific)  
Sea Trucks Group FZE (Eur & Africa)  
Seabed AS  
Seacor Marine (International) Ltd  
Seadrill Americas Inc.  
Seadrill Management AS  
Seahorse Services Co. Ltd  
Sealion Shipping Ltd  
SEAMEC  
Searov Offshore  
Seascope Surveys Pte Ltd  
Seatrans AS  
Seatrax Singapore Pte Ltd  
Seaway Heavy Lifting Engineering BV  
Seaways International LLC  
Seaworks Ltd  
Secunda Marine Svcs/J Ray McDermott  
SC Shark srl  
Siem Offshore AS  
SMIT  
SMIT Subsea (Africa)  
SMIT Subsea Europe  
SMIT Subsea Middle East LLC  
SMIT Subsea (Singapore)  
Solstad Offshore Ltda  
Solstad Shipping AS  
Stapem Offshore SA  
Stena Drilling Ltd  
Submersible Technology Services (UK) Ltd  
Subocean Group Ltd  
Subsea 7 Asia Pacific  
Subsea Explore Services (M) Sdn Bhd  
Subsea Intervention Technologies  
Subsea Petroleum Services  
Subtech (Pty) Ltd  
Subtech Qatar Diving & Marine Svcs LLC  
Switzer  
Swire Pacific Offshore Operations  
Target Engineering Construction Co.  
Technip Subsea 7 Asia Pacific  
Technip USA, Inc.  
Technocean AS  
Teekay Norway AS  
Tideway Marine & Offshore  
Timsah Shipbuilding Company  
TL Geohydrographics Sdn Bhd

Total Marine Technology Pty Ltd  
Transocean  
Transoceanic Cable Ship Co. Inc.  
Troms Offshore AS  
TSMarine Pty Ltd  
TSMarine Subsea Ltd  
UMC International plc  
Underwater Services Company  
URS nv  
UTEC Survey, Inc.  
UTEC Survey Asia Pte Ltd  
VShips Ltd  
Van Oord Offshore BV  
Varun Shipping Co. Ltd  
Vastalux Sdn Bhd  
Vector Offshore Ltd  
Veolia Environmental Services Special Svcs  
Visser & Smit Marine Contracting bv  
Vroon Offshore Services BV  
VTT Maritime AS  
Wagenborg Offshore BV  
PT Wintermar  
Workshops Contractors BV  
Zakher Marine International  
Zamil Offshore Services Co. Ltd

## Suppliers

### Suppliers of equipment

ABB Ltd  
ABPro Pte Ltd  
AC Plus Marine, Inc.  
Advanced Marine Pte Ltd  
Ageotec srl  
Air Liquide UK Ltd  
PT Advanced Oil & Gas Consulting  
Air Products plc  
Air Products Middle East FZE  
Air Products Singapore Pte Ltd  
Analox Sensor Technology Ltd  
Arabian Industrial Gases Co.  
Arab Tanker Services  
Ashtead Technology (SEA) Pte Ltd  
Balmoral Offshore Engineering  
Bibby Offshore Ltd  
Bourbon  
Bridon  
Brunvoll AS  
CAPE Group Pte Ltd  
CCC Arcadia (Subsea) Ltd  
Chem-Gas Pte Ltd  
Chesterfield Special Cylinders Ltd  
Clough Oil & Gas  
Comanex SAS  
Converteam Ltd  
CUEL Ltd  
D&R Boats Pte Ltd  
Deep Diving Consultancy Ltd (DDC Ltd)  
Deep Down, Inc.  
DeepOcean (a Trico Group co.) – E&A  
Divex Asia Pacific  
Divex FZE  
Divex Ltd  
DOF UK Ltd  
Dominion Gas  
Dominion Gas Asia Pte Ltd  
Dräger Safety  
Drass Galeazzi Underwater Technology  
Drexel Oilfield Equipment  
Eastar Offshore Pte Ltd  
Fincantieri Cantieri Navali Italiani spa  
Foundation Associates Engineering Pte Ltd  
Franklin Offshore International Pte Ltd  
Fugro GRL  
Global Marine Systems Ltd  
Global Gases Australia Pty Ltd  
Global Gases Group FZCO  
Global Gases Group (Singapore) Pte Ltd  
Global Gases South Africa (Pty) Ltd  
Great Offshore Ltd  
Guidance Navigation Ltd  
Halani Shipping Pvt Ltd  
Hydratight Ltd  
Hyperbaric Technology BV (Hytech)  
IXSEA  
JW Automarine  
Kenz Figee BV  
Kirby Morgan Dive Systems  
Kongsberg Maritime AS  
Kongsberg Maritime Ltd  
KTL Offshore Pte Ltd



Kystdesign AS  
 L-3 Communications  
 Lexmar Engineering Pte Ltd  
 MacGregor Hydramarine AS  
 Mako Technologies LLC  
 Marine Solutions (Pty) Ltd  
 Measurement Devices Ltd  
 MJR Controls Ltd  
 Modern Computing Services (MCS)  
 Nautronix plc  
 Navis Engineering Oy  
 Offshore Joint Services  
 Offshore Logistics (Asia Pacific) Pte Ltd  
 OSM Ship Management AS  
 Pacific Commercial Diving Supply Pty Ltd  
 Pacific Crest Pte Ltd  
 Palumbarus srl  
 Perry Slingsby Systems, Inc.  
 Perry Slingsby Systems Ltd  
 Pommec TDE bv  
 Proserv Offshore  
 Redaelli Tecnica spa  
 Rolls-Royce Marine AS  
 Rolls-Royce Oy Ab  
 Rolv Berg Drive AS  
 Rovsco Asia Pte Ltd  
 Saab Seaeeye Ltd  
 SBM Offshore NV  
 Schilling Robotics, Inc.  
 Schilling Robotics Ltd  
 Sea and Land Technologies Pte Ltd  
 Seaflex Ltd  
 Sealion Shipping Ltd  
 Seantetics Asia Works Pte Ltd  
 Seaswift Subsea Engineering LLC  
 Seatools BV  
 Sea Trucks Group FZE  
 Serimax Ltd  
 Siem Offshore AS  
 Skan-El AS  
 Soil Machine Dynamics Ltd  
 Solstad Offshore Ltda  
 Solstad Shipping AS  
 Sonardyne Asia Pte Ltd  
 Sonardyne International Ltd  
 Submarine Manufacturing & Products Ltd  
 Subsea Vision Ltd  
 Sundan Offshore Pvt Ltd  
 TGH AP Pte Ltd  
 Trelleborg Protective Products AB  
 Trim Systems Pte Ltd  
 The Tritanium Company  
 TSMarine Pty Ltd  
 Underwater Technology Services Pte Ltd  
 Unique Hydra  
 Unique System FZE  
 Veripos  
 Viking Moorings Ltd  
 Vroon Offshore Services Ltd

#### Suppliers of services

Abermed Ltd  
 Advanced Marine Pte Ltd  
 Advanced Offshore Contractors Pvt Ltd  
 PT Advanced Oil & Gas Consulting  
 Air Products Singapore Pte Ltd  
 Alfa Petroleum Services  
 Alliance Marine Services  
 Anglo-Eastern Group  
 Anglo-Eastern Group (Asia-Pacific)  
 ARV Offshore Co. Ltd  
 ASP Rope Access  
 Auto Dynamic Positioning Services  
 Bahrain Ship Repairing & Engineering Co.  
 Bergen DP & Marine Survey  
 Blade Offshore Services Ltd  
 Blue Water Engineering (M) Sdn Bhd  
 Braemar Falconer  
 Braemar Howells Ltd  
 CAPE Group Pte Ltd  
 C-MAR Group  
 Construction Specialists Ltd (CSL)  
 Cosalt  
 Deep Down, Inc.  
 Delta Marine Technologies, Inc.  
 DMC Offshore  
 DOWC  
 Drexel Oilfield Equipment  
 El-Automation AS  
 ESS Support Services Worldwide  
 ETPM Ltd  
 Exmed UK Ltd  
 Fender & Spill Response Services

Flinders Practice Hyperbaric & Occ Med  
 Franklin Offshore International Pte Ltd  
 Global Maritime  
 GW & Associates Ltd  
 Houlder Insurance Services Ltd  
 Imes Ltd  
 Inchcape Shipping Services  
 Inchcape Shipping Services – North America  
 Inchcape Shipping Services (S) Pty Ltd  
 Inchcape Shipping Services Ltd  
 Inchcape Shipping Services – South America  
 Independent Risk Solutions BV  
 Inter Mar Technology Ltd  
 InterMoor Marine Services Ltd  
 InterOcean Marine Services Ltd  
 K2 Specialist Services Pte Ltd  
 KB Associates Pte Ltd  
 Kennedy Marr Ltd  
 Lexmar Engineering Pte Ltd  
 London Offshore Consultants Ltd  
 M3 Marine Pte Ltd  
 Marex Marine Services Ltd  
 Marine Cybernetics  
 Maritime Management Services, Inc.  
 MatthewsDaniel  
 MJR Controls Ltd  
 Modern Computing Services (MCS)  
 Modular Underwater Systems Ltd  
 MOS Marine Offshore Service Pte Ltd  
 National Hyperbaric Centre Ltd  
 Nautronix plc  
 Navigare International Inc.  
 NBB Dredging & Engineering  
 Noble Denton & Ass. Serviços Marítimos  
 Noble Denton Consultants Ltd  
 Noble Denton Marine, Inc.  
 Noble Denton Middle East Ltd  
 Noble Denton Singapore Pte Ltd  
 NUI AS  
 Offshore Commissioning Solutions  
 Offshore Joint Services  
 Offshore Marine Management Ltd  
 Offshore Technical Management Solutions  
 Optimus Safety Management Ltd  
 Orwell Offshore Ltd  
 PAE Singapore Pte Ltd  
 PEM Offshore Ltd  
 Perry Slingsby Systems Ltd  
 Peterson SBS Den Helder BV  
 Promarine Ltd  
 QinetiQ Ltd  
 Reel Group Ltd  
 Rolls-Royce Power Engineering plc  
 Schilling Robotics, Inc.  
 Seantetics Asia Works Pte Ltd  
 Sebastian AS  
 Sigma Offshore Ltd  
 PT Sirius Maritimindo Services  
 Skan-El AS  
 Skuld AS  
 Sparrows Offshore Services Ltd  
 Subsea Vision Ltd  
 Survey Association  
 Thome Offshore Management Pte Ltd  
 Tigitrans SA  
 The Tritanium Company  
 Underwater Technology Services Pte Ltd  
 United Oil Company (Unico)  
 Vassnes MB Consultants AS  
 Veripos  
 Vroon Offshore Services Ltd  
 Wartsila Electrical & Automation Services  
 Wavespec Ltd

#### Personnel agencies

Ace Diving Services CC  
 ACSM  
 Advanced Offshore Contractors Pvt Ltd  
 Alfa Petroleum Services  
 Amberjack Oil & Gas Recruitment Svcs  
 Aqua Omega Services Pvt Ltd  
 Atlanta Ltd Maritime Agency  
 Atlantic Resourcing Ltd  
 Atlas Seistech  
 Atlas Services Group Australia Pty Ltd  
 PT Bahana Galang Jaya  
 Bibby Ship Management Group - E&A  
 Bibby Ship Management Group - ME&I  
 Dave Oliver Hydrographics Services  
 De Moura Shipping Ltda  
 Drexel Oilfield Equipment  
 Flare Project Services LLC  
 Hydrosulb Ltd

Lerus Ltd  
 Maritech Group  
 MJD (North East) Ltd  
 Naurex Resources  
 Oceanscan Ltd  
 Offshore Marine Services UK Ltd  
 Oilfield Medics UK Ltd  
 PT Pakar Sinar Jaya  
 Petrolis SA  
 Pharos Offshore Group Ltd  
 PR Offshore Services Ltd  
 ROVin Marine Ltd  
 Seatek India  
 Sheffield Offshore Services Pte Ltd  
 SubNet Services Ltd  
 SubNet Services Ltd – Asia-Pacific  
 SubServPro  
 Total Marine Services  
 UK Project Support Ltd  
 Underwater Engineering Ltd

#### Training establishments

AI Safety Training Consultants (1995) Ltd  
 Aberdeen Skills & Enterprise Training Ltd  
 Adriamare Maritime Training Center  
 Ålesund University College  
 AMC Search Ltd  
 ANFE (Associazione Nazionale Famiglie Emigrati)  
 Banff & Buchan College  
 PT Barron International  
 Bergen University College - Diver Ed.  
 Bibby Ship Management Group Ltd - E&A  
 Bibby Ship Management Group Ltd - ME&I  
 Bonifacio srl  
 Centre for Marine Simulation  
 CFO - Centro Formazione Offshore  
 Commercial Diving Academy  
 Daniels Maritime Group  
 De Moura Shipping Ltda  
 Delphinus Services - ROV Training  
 Divers Academy International  
 Divers Institute of Technology  
 Divers University Esporte Aquático Ltda  
 DiveSafe International  
 Diving Diseases Research Centre  
 The Dynamic Positioning Centre Ltd  
 Falck Nutech bv  
 The Faraday Centre Ltd  
 Force Technology  
 Fundação Homem do Mar  
 Gdynia Maritime University  
 Global Marine Systems - Subsea Training  
 Holland College - Georgetown Centre  
 Holland College - Marine Training Centre  
 Hydratight Ltd  
 Hydrolab-HydroCAT  
 IDESS Maritime Centre (Subic), Inc.  
 INPP  
 The Institute of ROVs  
 Interdive Services Ltd  
 PT ISBI  
 KBA Training Centre Pte Ltd  
 Kirby Morgan Dive Systems  
 Lowestoft College  
 Marine Solutions (Pty) Ltd  
 Maritech Group  
 Maritime Institute Willem Barentsz  
 Maritime Training & Competence Solutions  
 Marseille Maritime Academy  
 MOG Industry Training Co. Ltd  
 MSTs Asia Sdn Bhd  
 National Hyperbaric Centre Ltd  
 National Oceanography Centre  
 National Polytechnic College of Science  
 Netherlands Diving Centre  
 Noble Denton Consultants Ltd  
 North Sea Lifting Ltd  
 The Ocean Corporation  
 Offshore Skills Training Centre (OSTRAC)  
 Petrofac Training, Inc.  
 PetroVietnam Manpower Training College  
 PNI Training Centre AS  
 Power & Generation Services  
 Professional Diving Academy  
 Professional Diving Centre  
 PVD Technical Training & Certification JSC  
 Satakunta University of Applied Sciences  
 PT SBS Indonesia  
 SEA Team Solutions Pte Ltd  
 Seahorse Services Co. Ltd – Training  
 SEATAG Offshore Ltd  
 Seneca College - Underwater Skills Prog.  
 Ship Manoeuvring Simulator Centre

Skilltrade BV  
 SMTC Global Inc.  
 Southern Institute of Technology  
 Stord/Haugesund University College  
 SubNet Services Ltd  
 SubNet Services Ltd – Asia-Pacific  
 Survie Mer Formation  
 The Underwater Centre Fort William  
 The Underwater Centre Fremantle  
 The Underwater Centre (Tasmania)  
 Underwater Engineering Ltd  
 WA Maritime Training Centre - Fremantle  
 West Coast Commercial Diving School  
 Yak Diving Academy

#### Naval units

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

#### Corresponding Members

Abu Dhabi Marine Operating Company  
 Agip Kazakhstan North Caspian Op. Co.  
 AISI  
 Aker Exploration AS  
 Azerbaijan International Operating Co.  
 Bapco - The Bahrain Petroleum Co.  
 BG Group  
 BG Americas and Global LNG – C&S America  
 BG Americas and Global LNG – N America  
 BHP Billiton  
 BP America Production Company  
 BP Berau  
 BP Exploration Operating Company Ltd  
 Brunei Shell Petroleum Company  
 Cairn Energy India Pty Ltd  
 Chevron Brasil Petroleo Ltda  
 Chevron Energy Technology Co. – Subsea  
 Chevron Nigeria/Mid-Africa  
 Chevron Shipping Co.  
 Chevron Thailand E&P Ltd  
 CNR International UK Ltd  
 ConocoPhillips  
 ConocoPhillips China  
 ConocoPhillips Indonesia  
 ConocoPhillips (UK) Ltd  
 Dana Petroleum plc  
 Department of Labour (South Africa)  
 Det Norske Veritas  
 Esso Australia Pty Ltd  
 GDF Suez E&P Nederland bv  
 Gulf of Suez Petroleum Company  
 Health & Safety Authority  
 Husky Energy  
 International Diving Schools Association  
 International DP Operators Association  
 Kuwait Oil Company  
 Lloyd's Register EMEA  
 Maersk Oil Qatar AS  
 Mobil North Sea Ltd  
 Murphy Sarawak Oil Co. Ltd  
 Nautilus Minerals  
 NOPSA  
 Nederlandse Aardolie Maatschappij BV  
 Nexen Petroleum UK Ltd  
 Oil & Natural Gas Corporation Ltd  
 Perenco UK Ltd  
 Petro Canada - Terra Nova Project  
 Petro Canada Netherlands BV  
 Petrobras SA  
 Premier Oil Natuna Sea Ltd  
 PTT Exploration & Production plc  
 Qatar Petroleum  
 Ras Laffan Industrial City  
 Sarawak Shell Berhad  
 Shell International E&P BV  
 Shell Petroleum Dev. Co. of Nigeria Ltd  
 Shell Todd Oil Services Ltd  
 Sonangol Pesquisa & Produção  
 StatoilHydro  
 Talisman Energy (UK)  
 Talisman Malaysia Ltd  
 Total Exploration & Production  
 Total Austral (Argentina)  
 Total E&P Nederland BV  
 Total E&P UK plc  
 Wintershall Noordzee BV  
 Woodside Energy Ltd

## IMCA welcomes the following new members:

- ◆ **Ageotec srl**
- ◆ **Air Liquide UK Ltd**
- ◆ **ANFE (Associazione Nazionale Famiglie Emigrati)**  
An Italian organisation whose activities include provision of ROV training to emigrant workers.  
Tel: +39 091 671 0267
- ◆ **Arabian Industrial Gases Company**  
A UAE-based supplier of industrial, medical and speciality gases and associated equipment.  
Web: [www.gulfcryo.com](http://www.gulfcryo.com) Tel: +971 4 885 1245
- ◆ **Bergen DP & Marine Survey**
- ◆ **Braemar Howells Ltd**  
A provider of oil/chemical spill and incident response services and environmental consultancy.  
Web: [www.braemarhowells.com](http://www.braemarhowells.com) Tel: +44 (0) 1646 697 041
- ◆ **Celtic Africa Ltd**  
A Nigerian marine company offering offshore support vessels and services off West Africa.  
Web: [www.celticafrica.com](http://www.celticafrica.com) Tel: +234 (0) 84 746 543
- ◆ **Copetech-SM**
- ◆ **D&R Boats Pte Ltd**
- ◆ **Deep Diving Consultancy Ltd (DDC)**  
A provider of technical support for offshore diving systems and subsea operations.  
Web: [www.ddcl.co.uk](http://www.ddcl.co.uk) Tel: +44 (0) 1768 789 008
- ◆ **Delta Marine Technologies Inc**  
A US-based consultancy specialising in ROV, diving and deep water construction activities.  
Web: [www.deltamarinetech.com](http://www.deltamarinetech.com) Tel: +1 936 582 7237
- ◆ **Duik Combinatie Nederland BV**
- ◆ **Dunnimaa Engineers & Divers Enterprises Pvt Ltd**
- ◆ **Fincantieri Cantieri Navali Italiani spa**
- ◆ **Global Gases Australia Pty Ltd**
- ◆ **Global Marine Services**
- ◆ **Hornbeck Offshore Operators LLC**
- ◆ **Inchcape Shipping Services Ltd**
- ◆ **Inchcape Shipping Services Ltd – South America**
- ◆ **International Dynamic Positioning Operators Association (IDPOA)**
- ◆ **KD Marine Ltd**
- ◆ **Kennedy Marr Ltd**
- ◆ **MacGregor Hydramarine AS**
- ◆ **Mako Technologies LLC**  
A full service rental company offering topside construction, diving and ROV equipment.  
Web: [www.makotechnologies.com](http://www.makotechnologies.com) Tel: +1 985 385 7817
- ◆ **Nautilus Minerals**
- ◆ **NBB Dredging & Engineering**
- ◆ **Neptun Subsea AS**  
A Norwegian contractor providing ROV and trenching services and manufacturing ROVs.  
Web: [www.neptunsubsea.no](http://www.neptunsubsea.no) Tel: +47 962 00 210
- ◆ **Noble Denton & Associates Serviços Marítimos Ltda**
- ◆ **PEM Offshore Ltd**  
A marine consultancy, offering services and products to the oil and gas sector in West Africa.  
Web: [www.pemoffshores.com](http://www.pemoffshores.com) Tel: +234 803 403 6935
- ◆ **Perenco UK Ltd**
- ◆ **Pharos Offshore Group Ltd**
- ◆ **PT Prima Mitranata**
- ◆ **Riise Underwater Engineering AS**  
– Asia-Pacific  
– Middle East & India
- ◆ **Seanetics Asia Works Pte Ltd**  
A Singapore-based provider of consultancy, design and fabrication services for diving systems.  
Web: [www.seanetics.com.sg](http://www.seanetics.com.sg) Tel: +65 6862 3888
- ◆ **Survey Association**
- ◆ **Tigtrans SA**
- ◆ **United Oil Company (Unico)**
- ◆ **VShips Ltd**
- ◆ **Vassnes MB Consultants AS**
- ◆ **Viking Moorings Ltd**

### Recent name changes

- ◆ General Robotics Ltd is now *Fugro GRL*
- ◆ Hydra Marine (Pty) Ltd is now *Unique Hydra*

### ICO membership

- ◆ **Global Industries** has become the ninth International Contractor (ICO) member of the association. ICO members participate in all aspects of the global work programme and serve on IMCA Council, which provides political direction and support for the association. Global Industries has long been active in various regions and this enhanced membership has been welcomed by Council and the Overall Management Committee.

## You may have missed ...

This summary of recent IMCA documentation keeps all members updated on activities throughout IMCA. If you would like a copy of any document, or for further information, please contact the secretariat.

### New publications:

- ◆ **Competence assurance and assessment: Offshore Survey Division** (IMCA C 004 Rev. 2)
- ◆ **Remote Systems & ROV Division** (IMCA C 005 Rev. 2)
- ◆ **Guidance on handling naturally occurring radioactive material** (IMCA SEL 024)
- ◆ **Guidelines on isolation and intervention: Diver access to subsea systems** (IMCA D 044)
- ◆ **International guidelines for the safe operation of DP offshore supply vessels** (IMCA M 182 Rev. 1)
- ◆ **Guidelines on installation and maintenance of DGNSS-based positioning systems** (IMCA M 199/S 012)
- ◆ **Deep water acoustic positioning** (IMCA M 200/S 013)

### Safety flashes:

- ◆ **Safety flash 11/09** – covering one incident: Falling object - struck by crane stop/striker plate
- ◆ **Safety flash 12/09** – three incidents: Pillar valve failure; Dropped object near-miss; Lift bag lost when rigging parted
- ◆ **Safety flash 13/09** – Use of pre-mixed nitrox gases
- ◆ **Safety flash 14/09** – three incidents: Failure of gas supply to diving bell; Torn ankle ligaments; Potential threat to aviation posed by Skysails
- ◆ **Safety flash 15/09** – four incidents: Trapped diver umbilical incident resulting in diver fatality; Lost time injury: Gangway deployment; Helicopter Task Group update: Briefing on S-92 helicopter fleet; Importance of inspecting fall protection equipment
- ◆ **Safety flash 16/09** – six incidents: Near-miss: Unexpected lowering of a suspended load; Near-miss: Loss of a small crane ('cherry picker') wire; Hand injury: Injection of hydraulic fluid; Tumble dryer fire onboard a vessel; Bell bottom door hydraulic operating system failure; Near-miss: ROV fuse bolt failure

### Information notes:

#### Safety, Environment & Legislation

- IMCA SEL 19/09** – Industry best management practices against piracy in the Gulf of Aden off Somalia
- 20/09 Winch drum design
- 21/09 Inclusion of drilling brines in IMO IBC Code
- 22/09 Piracy off Somalia
- 23/09 Ensuring the wearing of immersion suits in helicopter evacuation or escape to sea
- 24/09 IMCA submission to IMO regarding the SPS Code: Feedback invited

#### Diving Division

- IMCA D 11/09** – Medical examination of divers: Italy initiative
- 12/09 Diving statistics for the North Sea – Statistics for 2007-8
- 13/09 Diving from, on or in close proximity to merchant vessels – Protocol for isolating machinery systems: New industry guidance published
- 14/09 OGP diving recommended practice

#### Marine Division

- IMCA M 20/09** – Control of sub-contractors onboard
- 21/09 NWEA guidelines for the safe management of offshore supply and rig move operations
- 22/09 Industry best management practices against piracy in the Gulf of Aden off Somalia
- 23/09 Winch drum design
- 24/09 Inclusion of drilling brines in IMO IBC Code
- 25/09 Piracy off Somalia
- 26/09 Ensuring the wearing of immersion suits in helicopter evacuation or escape to sea
- 27/09 IMCA submission to IMO regarding the SPS Code: Feedback invited



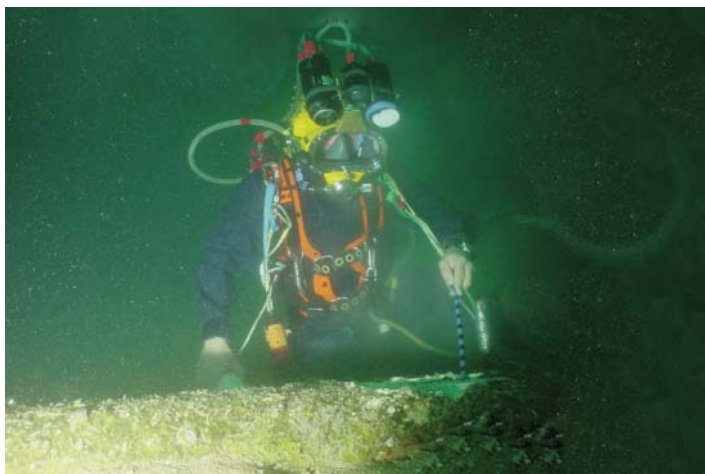
## Diving Division

# Safe isolation for diver access

IMCA publishes new *Guidelines for isolation and intervention: Diver access to subsea systems*

The latest guidance document from IMCA Diving Division sets out what is considered to be good practice for ensuring a safe degree of isolation is established prior to conducting diver intrusive works on any energy-conveying system in which pressure differentials, electrical power or laser power may exist at levels which – on loss of containment – would be harmful to personnel or cause damage to the environment or equipment.

The document is primarily aimed at project managers, project engineers, offshore construction managers, diving supervisors and safety personnel, all of whom have a responsibility for developing safe schemes of isolation and intervention for divers accessing subsea systems. Engineering personnel involved with the design of such systems should also use the document to ensure that all new (or being modified) subsea systems incorporate adequate isolation facilities.



The guidelines are applicable for use when preparing scopes of work, procedures, reviews and risk assessments for any diving-related work.

The document begins by addressing the principles of isolation, before going into some detail on different system types – flowline/manifold/tree and wellhead systems plus subsea control and umbilical systems.

A generic flowchart will help users develop their own processes while typical system drawings are also included.

### Electrical code update

The guidelines for isolation and intervention reference the forthcoming update of guidance note AODC 035 – *Code of practice for the safe use of electricity under water*.

This update, which has been carried out by a workgroup involving contractors, oil company representatives and other specialists, is progressing well and we anticipate publication (as IMCA D 045) around the end of this year.

For more details on this work, contact [Jane.Bugler@imca-int.com](mailto:Jane.Bugler@imca-int.com)

### Call for diver data

The annual diving activity statistics exercise is underway for 2009. Building on the previous North Sea exercise, carried out over the past twelve years, members around the world are now being asked to contribute their data to enable a global view to be formed. Many members have already submitted their figures and we would encourage other contractors to do so promptly to enable production of a report which accurately reflects members' activity.

### SMTT committee

The Diving Division's technical output owes much to the dedicated work of members of the Safety, Medical, Technical & Training (SMTT) Committee.

Dave Munro of Subsea 7 (Chairman) and Adam Young of Integrated Subsea Services (VC) lead work on a wide range of topics including updating guidance issued by the division (and previously AODC) and addressing a variety of new issues as they arise.

Participation is open to all diving contractor (ICO/Co) and supplier (S/S\*) members.

Contact [Paul.Evans@imca-int.com](mailto:Paul.Evans@imca-int.com) for details and to get involved.



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## Marine Division

# IMCA at IMO

Members may be aware that IMCA has had consultative status at the International Maritime Organization (IMO) since 1999 and attends IMO meetings on a variety of topics. We keep members up to date on IMO activities through the minutes of IMCA committee meetings, updates in this newsletter and information notes on specific technical issues.

As part of efforts to explain this aspect of IMCA's work more clearly, the recent annual seminar included a workshop on IMCA's role at IMO.

The workshop opened with a general introduction to what IMO does and how it works. IMO is often criticised for being too slow and aiming at the lowest common denominator. However, IMO decisions often have a major impact on shipping, so they need to represent a common achievable standard and be supported by as many governments as possible. Therefore, ensuring a proper set of global standards can take time.

The workshop also looked at the role of non-governmental organizations (NGOs) at IMO. Although NGOs only have observer status and have no voting rights, they play an important part in the IMO decision making process by providing expert advice on a particular area of IMO's activities and representing the views of groups who may be impacted by IMO's work. For example, IMO has traditionally looked to IMCA for assistance on dynamic positioning issues and DPVOA, one of the predecessors to IMCA, was instrumental in developing IMO MSC/Circ.645, the international guidelines for vessels with DP systems. IMCA's other key role is to try to ensure that regulations that are usually aimed at the international trading fleet do not conflict with the specific operational requirements of offshore construction vessels.

There was discussion about the current IMO activities in which IMCA is already participating and possible areas for future work.



Two current key issues are:

- ◆ the review of the International Convention on Standards of Training, Certification & Watchkeeping for Seafarers (STCW), which governs seafarers' training and certification requirements
- ◆ potential confusion about the classification of offshore vessels following the revised Special Purpose Ships (SPS) Code published in 2008.

As directed by IMO, IMCA and the Oil Companies International Marine Forum (OCIMF) proposed some draft guidance on training and certification of DP operators (DPOs) for inclusion in part B of the revised STCW Code. The draft text provides a clear framework for DPO training and reflects current accepted

industry practice. It has been forwarded to the IMO STW sub-committee for approval at its next session – STW 41, which will take place in January 2010.

IMCA has also submitted a paper to the IMO ship design and equipment (DE) sub-committee highlighting some of the practical difficulties of building construction class vessels to the SPS Code and underlining the importance of a risk based approach to unusual vessel designs.

In the meantime, IMCA aims to keep members briefed on IMO developments – members are encouraged to let the secretariat know of any issues of interest.

*If you have an issue on which you would like IMCA to get involved at IMO, please contact Emily Comyn, our Technical Adviser on regulatory affairs – [Emily.Comyn@imca-int.com](mailto:Emily.Comyn@imca-int.com)*



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## Offshore Survey Division

### New guidance on deep water acoustic positioning

IMCA has published *Deep water acoustic positioning* – a new, authoritative guide for users and potential users of acoustics for underwater positioning (especially in relation to deep water activities). It covers the basics of acoustics and signalling, the equipment required, methods of acoustic positioning and their limitations, and the operation and performance of acoustic positioning systems.

The focus is on the use of acoustic positioning systems and techniques for deep water operations. However, many of the techniques and applications also apply to shallower waters and, in these circumstances, users should consider the pros and cons of each approach.

This document is not intended to compare nor evaluate different manufacturers, their products, services or the specific performance of systems - nor does it set out to provide a prescriptive set of procedures. Rather, it is designed to provide consideration and guidance for the use and operation of

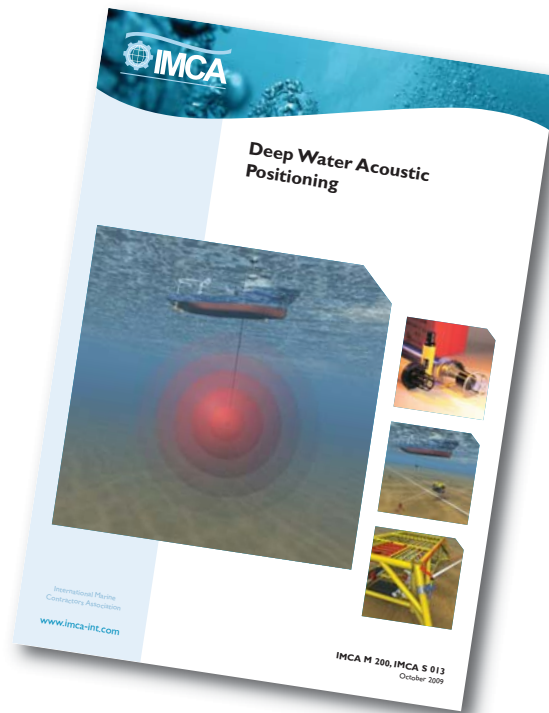
any of the main types of system.

The guide focuses on the use and application of acoustics for positioning tasks and how a user should consider the various factors influencing the selection of operational techniques for different applications. The main part of the document is intended to inform and bring a general

understanding of deep water acoustics to the reader. Detailed technical appendices enable more in-depth study.

The guidance, published jointly as IMCA M 200/S 013, is available via the members-only website and in our colourful, glossy printed format.

For more details or to order, visit [www.imca-int.com/publications](http://www.imca-int.com/publications)



### Survey news in brief

- ◆ The joint OGP/IMCA workgroup updating the former UKOOA guidelines on DGPS has produced an early draft which has been favourably received by the OGP Survey & Positioning Committee and the IMCA Offshore Survey Division Management Committee. Work now continues to further develop the text.
- ◆ Guidance on ultra-short baseline (USBL) positioning systems is in development, with an initial draft currently being prepared.
- ◆ Guidance on geographical information systems (GIS) is planned and a small workgroup is to meet shortly to prepare a scope of work for the project.
- ◆ Following the publication this June of the updated *Digital video offshore: A review of current and future technologies* (IMCA R 012/S 008 Rev. 1), the Digital Video Workgroup is now preparing a companion guide, entitled 'Discovering digital video'.

For more details on any of these projects, please get in touch with Nick.Hough@imca-int.com

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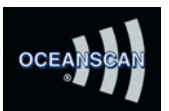
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## Remote Systems & ROV Division

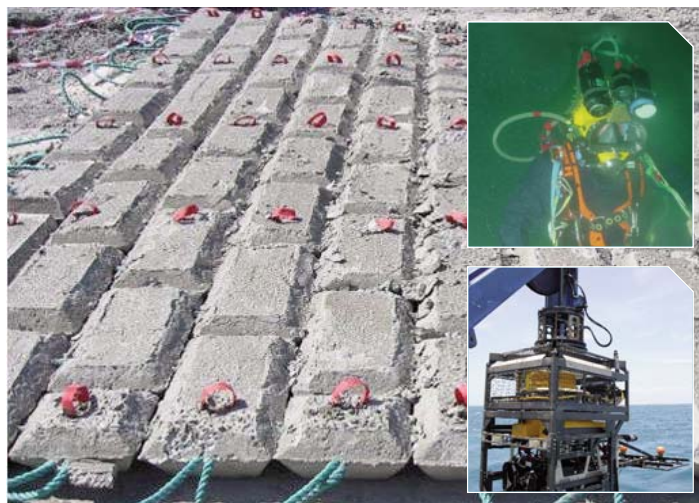


### ROV competence

2009 has seen a full review of key guidance on ROV competence and training.

Earlier this year, IMCA R 002 was updated to clarify guidance on entry level criteria for new ROV personnel. This aims to ensure that those undergoing training have the appropriate technical background so that they emerge from courses with the skills needed as part of an offshore ROV support team.

Now, as part of a wider review, guidance on competence assurance and assessment in the ROV sector has been published (IMCA C 005 Rev. 2), with new positions added to the ROV competence framework – see page 5 for more details. Information packs for freelance personnel on assembly of competence portfolios and assessment are now being updated to reflect these changes.



### Mattress handling guidance updated

IMCA is updating its publication *Concrete mattress handling, deployment, installation, repositioning and decommissioning*, previously focused solely on diver-based operations, to provide additional guidance on mattress operations undertaken using ROVs.

The updated guidance will cover situations both where the ROV supports diver-led work and ROV-only operations beyond diver depth or where for other reasons divers are not suitable or available.

Safety and environmental issues are addressed, with a review of mattress types and handling equipment. Guidance covers all aspects of mattress operations, as shown by the document title. Appendices include a variety of checklists and drawings to assist in the development of company procedures and project-specific work plans.

The updated guidance note will be published jointly as IMCA D 042/R 014 (Rev. 1) and distributed to members of both the diving and ROV divisions.

### ROV news in brief

- ◆ An IMCA ROV seminar is to be held alongside the Oceanology International exhibition (which takes place in London, UK, on 9-11 March 2010). The IMCA event, entitled *Umbilical and handling systems for deep water ROV applications*, will build on discussions at the annual seminar earlier this month. Details will be issued soon.
- ◆ IMCA is expanding its annual ROV statistics exercise and members are reminded to provide their submissions as soon as possible to aid publication. For the third year, analysis of personnel working offshore on ROV projects around the world is being undertaken. Information on the project type is also being sought. In addition, data is being collected on numbers and types of ROV in operation.  
*To contribute, please contact Nick.Hough@imca-int.com*
- ◆ The Remote Systems & ROV Division Management Committee is currently undergoing its biennial election. The results will be announced later this month.









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## Spotlight on Wim de Boer

Wim de Boer is Business Acquisition Manager for North West Europe with Heerema Marine Contractors and serves as Chairman of the IMCA Europe & Africa Section and a member of the Overall Management Committee.

In this article, he discusses his 'day job' and provides a personal insight into the work currently being undertaken in the region on behalf of members.

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

Heerema Marine Contractors, part of the Heerema Group, provides integrated management and installation services to the oil and gas industry.

The company focuses its resources on providing its clients with tailor-made solutions based on a number of identified products:

- ◆ Deep water – we offer the capabilities to design, procure, install and test infrastructures for deep water field development in up to 3,000m water depth. HMC operates two deep water construction vessels – Balder and Thialf – and diverse deep water installation equipment
- ◆ Heavy lift – we have over five decades of experience when it comes to heavy lift operations
- ◆ Decommissioning and removal – HMC offers turnkey platform decommissioning and removal services. We have experience in this field going back many years and covering numerous projects
- ◆ Float-over – float-over operations offer new opportunities and open the way to installations in remote areas and for deck weights beyond existing crane vessel capacities and availability.

At the moment, our key areas of operation are the Atlantic Basin and Asia. We currently have three SSCVs to complement our service.

*What is your current job?*

I am Business Acquisition Manager for North West Europe, meaning I am in contact with our clients and involved from the moment they need support for their development concepts until the moment the contract is signed and passed on to the project manager.

I enjoy the travel involved and the diversity of the clients and projects. Being still a privately owned family business, Heerema is a great company to work for.

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

During my studies at the Delft University of Technology, I had already spent six months in the Structural and Marine Department within Heerema. However, after graduation in 1995 I joined Allseas – a pipelay contractor then heavily involved in shallow water pipelay. I quickly found out that, although it was a great company to work for, it was not what I was looking for. I then went back to the same department at Heerema.

Ten years ago I took on a Nigerian adventure, leaving Heerema for another privately owned company – Sea Trucks – where I set up the offshore engineering office, which I found a very welcome and useful experience.

After five years in Nigeria I decided to go back to Heerema and have continued to build on the experience I gained in West Africa.

*What are the key areas affecting the industry at the moment?*

Recently the focus has been mainly on cost control. The downturn in the global economy, caused by the latest credit crisis, has resulted in additional pressure on operating margins. Both operators and contractors have been forced to reassess their operational expenditure and investment programmes. This has resulted in fewer contracts being awarded in recent months, resulting in lower activity scheduled for next year.

Based on the previously high oil price, a large number of new vessels are currently coming on to the market but finding sufficient work to be executed over the coming years may be challenging for vessel operators with the activity level in the industry lower than when the vessels were being planned.

*How can these issues be taken forward?*

IMCA's role in relation to cost control is limited, but I think the focus should be on those areas which might otherwise be neglected at a time when the main pressure is on cost. Safety and training come particularly to mind – if we do not give proper attention to these subjects, we risk not being able to deliver the level of service we need and want to offer in the future.

*Europe, and the North Sea in particular, is a mature market – is there still much for IMCA to do?*

While the installation sector is mature, I currently see several growing markets which require the support of the marine contracting society. Decommissioning is one, where the experience gained during installation work undertaken over more than 40 years can be translated directly into today's decommissioning projects. Similarly, renewable energy projects can benefit a lot from our expertise. These growing market segments should be supported by IMCA in the same way that it has supported oil and gas exploration and production.

The current economic climate calls for a focus on cost. IMCA helps us maintain emphasis on issues such as safety and security, which might otherwise easily be overlooked in these times.

The North Sea is not a stable market and new issues (which ones we do not yet know) will always arise, so a forum like IMCA will always be required.

*Working offshore Africa presents different challenges – what issues are key at present?*

Contractors working in the West Africa region are exposed to a multitude of changes in local legislation and requirements, such as tax regimes. While we recognise that, over a period of time, these changes will contribute to the creation of a solid base of business environment stability, today we see that lengthy legislative processes can create a high level of

uncertainty in the contracting community. At times this uncertainty can increase further still, such as during national elections (although this can vary from country to country) to the point that contract awards can be postponed awaiting political developments.

Some parts of West Africa require tailor-made solutions to ensure the security of resources.

The requirements of cabotage laws might result in dedicated vessels for specific areas or even countries. Furthermore, the increasing local content requirements are a movement towards sustainable local businesses but, on the other hand, might limit the free movement of personnel and equipment.

*How do you think IMCA makes a difference?*

In a region characterised by the high presence of governmental institutions, it can be much more effective to communicate with these parties through a central organisation such as IMCA. IMCA's capacity to speak as one voice is a better vehicle to express concern or to influence decisions on matters related to our industry.

*How do you see the future?*

With an always-evolving client base and a consolidating contractor base (as we have seen before in the mid nineties), we will have to reconquer the marine world. The contractors who have based their current (investment) plans on prudent strategies can sustain themselves during the current dip in the market, whereas the more opportunistic players and entrants might see their independence come to an end.

Overall, this downturn will strengthen the contracting base in the longer run.

That is why, even if my pension is far from being near, I still have confidence that I will not have to change industry before my working life ends.

## Forthcoming events

3 December 2009

### Asia-Pacific Section

Kuala Lumpur, Malaysia

19 January 2010

### Middle East & India Section

Jebel Ali, UAE

17-18 February

OSJ Annual Conference

London, UK

24-25 February

### **Safety is our common language**

IMCA safety seminar

Singapore

2-4 March

Subsea Tieback Forum & Exhibition  
Galveston, USA

3-6 March

OceanTEX World Expo 2010  
Mumbai, India

9-11 March

Oceanology International  
London, UK

12-14 April

SPE International HSE Conference  
Rio de Janeiro, Brazil

27-29 April

North Sea Offshore Cranes & Lifting  
Aberdeen, UK

3-6 May

OTC  
Houston, USA

24-27 August

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Stavanger, Norway

For full details on forthcoming IMCA and third-party events, please visit the website:

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## 24-25 February 2010

### Singapore Marriott Hotel, Singapore

Registration opening soon at [www.imca-int.com/events](http://www.imca-int.com/events)