



## Scaling new heights in KL

Over 430 delegates gathered at the Hotel Nikko Kuala Lumpur, Malaysia on 5-6 November, for the sixteenth IMCA annual seminar, entitled *Global alignment in marine operations*.

This was again a record attendance, by a substantial margin, and with 24 supplier members displaying their products and services the seminar exhibition broke all records too.

The seminar programme included a broad range of subjects, from the many innovative uses of technology in today's marine contracting industry through to current health and safety issues in the workplace.

Andy Bolton, Chairman of the IMCA Asia-Pacific Section, welcomed delegates to the event before handing over to IMCA President Knut Boe for the first of three keynote addresses. Knut Boe noted that, despite the 'credit crunch', economic fundamentals were still strong and that IMCA's growth should continue given a collective effort from all members, particularly with regard to the challenge of ensuring safety as new vessels and new crews enter the marketplace. Harry van Langen of Shell continued with a review of Shell's local operations, reiterating that the fundamentals remained strong, then Steve Bertone of J Ray McDermott concluded by outlining the importance of IMCA in providing a common language for taking forward global alignment in marine contracting.

The seminar then split into three parallel sessions – marine, diving and, for the first time, an offshore survey and ROV stream which proved a popular innovation. These sessions included specialised technical ground, covering subjects as diverse as the use of extended diving umbilicals, standardisation of DP vessel FMEAs and multibeam sonar wreck visualisation technology.

Day two's programme included a variety of plenary presentations, including an interesting talk on human factors in safety and a poignant presentation on the rediscovery of the sunken HMAS Sydney. The technical sessions included discussion of new technology for 3D visualisation of underwater assets, the evolution of diving technology and the testing of large diameter wire ropes used offshore.

Each afternoon a number of workshops took place, on topics such as risk assessment, diver training and ROV training, amongst other subjects.

Another innovation was the inclusion of a partner programme which included city and country tours, taking in a number of local tourist highlights. Delegates' own social programme included a drinks and buffet reception on the first evening, a dinner at Restoran Seri Melayu – a popular cultural venue in the city – and a closing drinks reception in a revolving restaurant atop KL Tower, affording outstanding evening views of the city and surrounding hills.

The seminar was very well received by delegates, with interesting presentations, constructive debate and wide ranging discussions. A CD of the presentations and summaries is now being prepared for issue to delegates and other members.

The 2009 event is already being planned, for Rio de Janeiro, Brazil, in November with expectations high after this year's amazing successes.

Keep up to date on the 2009 seminar plans and other events via our website: [www.imca-int.com/events](http://www.imca-int.com/events)



### Also in this issue:

#### New wire rope guidance

An IMCA workgroup with specialist input has developed new guidance on wire rope integrity management for the offshore industry.

[Find out more on page 4](#)

#### IMCA risk assessment DVD

A new DVD sets out the benefits of and ways of undertaking risk assessment for use with the global offshore workforce.

[More details on page 4](#)

#### IMCA-funded trials a success

Trials on the use of extended umbilicals have both helped to demonstrate the safety of their use and provide further guidance to members on procedures.

[For the full report, turn to page 11](#)

### In this issue:

#### News from around IMCA 2

From the President 3

Core activity news 4

#### Regional news 6

#### IMCA Directory 7

Secretariat staff and committees 7

Current members 8

You may have missed ... recent documentation 10

#### Divisional news 11

Diving 11

Mafine 12

Offshore Survey 13

Remote Systems & ROV 14

#### Spotlight 15

on Will Primavesi

#### Forthcoming events 16

## Spreading the word – technical team out and about

Over recent months, members of the IMCA staff have been travelling the world, presenting at, exhibiting at and attending a variety of industry meetings and events, to help promote the association, its work and key messages to an ever wider audience.

- ◆ Chief Executive Hugh Williams attended the Safety Committee of the International Association of Oil & Gas Producers (OGP) in Doha, Qatar.
- ◆ Together with events administrator Claudine Bleza, Hugh also attended *Subsea Europe* in London, UK, where they exhibited alongside several IMCA members, with Hugh also chairing a conference session.
- ◆ Technical Director Jane Bugler gave a well received presentation on 'IMCA's approach to training and competence for diving and ROV personnel' at the Canadian Underwater Conference & Exhibition in Halifax, Nova Scotia, on 7–9 September.



Jane Bugler with other speakers at the Canadian Underwater Conference & Exhibition

As well as the presentation, Jane participated in two panel discussions on international standards for diver competency. The first panel discussion proved so popular that it was reconvened on the second day to allow the debate to continue. Discussion focused on the importance of good, well-run initial diver training courses and third-party audits of them and that competence was a combination of training, skills and experience.

- ◆ Philip Wiggs is speaking at the *Offshore Support Vessels* conference taking place in London, UK, on 11–12 November, where he will describe the work of IMCA's workgroup addressing issues arising from the IMO review of the Special Purpose Ships (SPS) Code. His presentation will identify the issues affecting the marine contracting sector that have arisen and describe the progress of the workgroup. See page 12 for more details on this issue.

- ◆ Nick Hough joined several leading safety professionals from an IMCA member in Aberdeen, UK, for the Step Change Network Share Fair, a safety share fair event intended as a learning opportunity for offshore and office personnel at every level. IMCA's stand was laden with safety promotion materials (DVDs, pocket cards and posters) together with recent safety-related publications, all of which were very well received. Delegates at the event were keen to learn more about IMCA and the key role it plays in improving safety offshore.



Attendees visit the IMCA stand at the Step Change Network Share Fair

- ◆ Ian Giddings attended the dynamic positioning conference organised by the Marine Technology Society in Houston, USA, on 9–10 October. He presented a paper on revisions to the *International guidelines for the safe operation of dynamically positioned offshore supply vessels* (IMCA M 182) which are currently being prepared by an IMCA-led cross-industry group.
- ◆ IMCA held its second briefing seminar of the year in Mumbai, India, on 15 October. The event was again well attended, with a higher number of oil company representatives present this time, as well as contractor and supplier members and potential new members for presentations on the association, its work and key guidance in relation to diving, marine and positioning issues. See page 6 for details.
- ◆ The IMCA annual seminar attracted record attendance in Kuala Lumpur on 5–6 November (see cover), with members from around the world attending a special session of the Asia-Pacific Section (see page 6).

IMCA is keen to continue raising its profile at relevant industry events around the world, by speaking, exhibiting and/or supporting with additional materials and welcomes suggestions of additional events that members are aware of. Information on forthcoming IMCA-supported events can be found online at [www.imca-int.com/events](http://www.imca-int.com/events)

## Get involved

In this edition of Making Waves you can find a variety of ways in which you can get the most out of IMCA.

Here are a few pointers:

- ◆ Get ready to contribute to the annual safety statistics exercise next January – see page 4
- ◆ Share your story to attract new recruits to the industry see page 5
- ◆ Provide feedback on the entry level requirements needed by the ROV industry to enhance IMCA's guidance see page 14
- ◆ Attend an event – see the IMCA calendar on page 16

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



## New faces at the IMCA secretariat

### Genine da Cruz Harvey

Genine has joined the London secretariat as Certification Schemes Administrator, taking over from Vicki Graham who will retire later this year after over twenty years in the role.

Genine will organise IMCA's internationally recognised certification schemes, through liaison with examination candidates, IMCA-approved training establishments and invigilation centres throughout the world; as well as preparation and assessment of examination papers and issue of certificates.

She will also support the work of the Training, Certification & Personnel Competence (TCPC) core activity.

Genine comes to IMCA from the International Tanker Owners Pollution Federation (ITOPF), an organisation promoting and supervising effective marine spill responses, where she managed the membership scheme.

### Andy Butler

Andy has joined the support team as an additional administrator focused on document production.

With a growing range of output in terms of guidance and information notes, committee and workgroup minutes plus new brochures and factsheets, Andy's experience in document preparation and print production using a variety of publishing and design software, is already proving useful.

In due course, Andy will also act as support for Genine, providing additional backup and continuity for members and their examination candidates when Genine is away.

### Supporting a growing membership

The substantial and consistent growth in membership over many years has enabled significant expansion of the work programme. To support this, the secretariat has grown too. The latest addition will be a new technical adviser, focusing on international legislative affairs, currently being recruited.

## Update on IMCA membership survey

The results of the IMCA membership survey which took place over recent weeks are now being analysed, with a summary due to be reported to members shortly.

Participation has been very high – with around 350 member respondents – our thanks to all who took part. Interim results show high levels of satisfaction in terms of the benefits members receive and the services IMCA provides, with some useful suggestions identified that will be taken forward by the secretariat and committees.



## From the President



The credit crunch is dominating the news these days.

The banks are the first to take the hit, but there is no doubt that this will spread to the

wider economy – clearly our industry will also be affected.

My concerns are not primarily with the market, despite the fact that the next few years may prove to be challenging on the market side as well. However, the fundamentals of the demand for oil and gas are so strong that in a three to five year perspective I do remain optimistic.

My main concern for our industry is the short-term effect on financing, given our long tradition in leveraging ship investments. The paradox we may witness is that member companies with a sound and solid business could face financing difficulties due to the banks' reluctance to lend, rather than problems with their businesses or our industry.

I do hope that our members will manage to mitigate these problems to the greatest possible degree.

Regardless of the credit crunch the number of new vessels coming into our business will continue to remain at a high level over the coming years. With this in mind it is encouraging to read the IMCA safety statistics for 2007; not because the results are any better than they need to be, but because we are able to maintain the safety performance at a constant level despite all the pressures which we experience in our industry. The long term objective is clearly to improve, but with the continuous inflow of vessels to the industry I believe just to maintain this level will be a tall order in the years to come. A clear and visible personal commitment from the leaders of our member companies is a necessity to keep us on the right track.

As I write this, the IMCA annual seminar is just around the corner and I hope to see many of you there.

Finally, since this is the last issue of *Making Waves* before year end I would like to wish our members a Merry Christmas and a Happy New Year.

**Knut Boe, Technip**  
IMCA President 2007-8

## News from IMCA's core activities – SEL and TCPC

### Risk assessment DVD

Risk assessment is a very important process. The more it is used, the better we will get at controlling hazards and the less likely the occurrence of injuries to people, damage to equipment or harm to the environment. IMCA has developed a *Risk assessment DVD* (IMCA SEL 021) to help.

The video covers the basic definitions of risk and hazard, particularly offshore, and goes on to introduce the concept of risk assessment. This is dealt with in a number of basic, well understood steps: identifying the hazards; deciding who might be harmed; evaluating the risk of harm and the possible consequences; and then working to control those risks.

The importance of keeping written records of formal risk assessments is covered, as is the need to review the entire process after significant change. Viewers are reminded that if work is not going safely, they should feel able to stop the job at any time to put things right.

The DVD, in PAL and NTSC formats, includes ten language versions to enable wide use with the offshore workforce.

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

### Wire rope integrity management

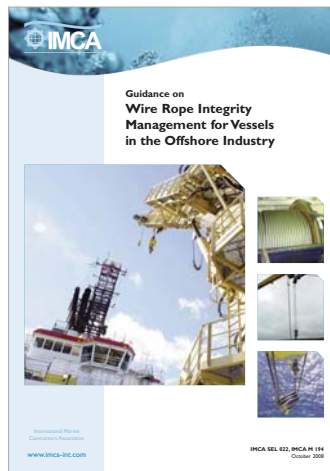
IMCA has published new *Guidelines on wire rope integrity management for vessels in the offshore industry* (IMCA SEL 022/M 194).

In early 2007, prompted by discussion within IMCA committees, a questionnaire was issued seeking feedback from members on wire rope examination and use. This identified that guidance on wire rope discard criteria was needed by the industry and a workgroup was formed.

The group swiftly identified that broader guidance on wire rope integrity management would be useful and began work on its development.

The group grew as news of the work spread and included contractors, manufacturers and a wide range of specialist and official organisations.

The resulting guidance sets out an industry consensus on discard criteria, supported by an 'integrity assurance toolbox' approach to wire rope management, with a flowchart on information flows and guidance on records and documentation systems.



The workgroup included representation from the UK Health & Safety Executive (HSE), whose guidelines DVIS 6 – *Maintenance of diving bell hoist ropes* – are expected to be withdrawn in favour of this guidance. The next revision of IMCA D 018 – *Code of practice on the initial and periodic examination, testing and certification of diving plant and equipment* – will take this into account.

The guidelines supersede the earlier *Guidance on the management of life cycle maintenance of non-man riding wire ropes* (IMCA SEL 012) which is now withdrawn.

### Get your safety statistics ready

As we draw near the end of 2008, plans are being made for the annual exercise to collect and analyse safety statistics for IMCA members.

A call will be issued to all contractor (ICO/Co) SEL reps early in the new year seeking member input of both lagging and leading safety data. We hope to beat last year's record number of contributors and to show the results of ongoing IMCA work to further improve safety in the industry.

#### Review of LTI categories

The SEL committee has been reviewing its categorisation of lost time incidents (LTIs). In the analysis for 2007 it was found that one sixth of the total number of LTIs could not be fitted into a category used in IMCA's analysis.

A challenge has been to ensure that the categories reflect immediate causes of incidents rather than trying to explore their root causes which, of course, often requires a deeper and more complex analysis.

Several new categories have been identified and should be agreed by the committee for use in the 2008 exercise.



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## Simulator workgroup underway

Simulators play an important role in training and competence within the offshore industry, particularly in relation to vessel bridge/DP, ROV and crane operations.

The wide range of systems and variety in their functionality and realism mean that it can be hard to determine to what extent simulator experience should be counted and relied upon as compared to true offshore experience, yet the ability for users to experience operational and, in particular, emergency situations that are seldom found offshore can help ensure preparedness for any situation.

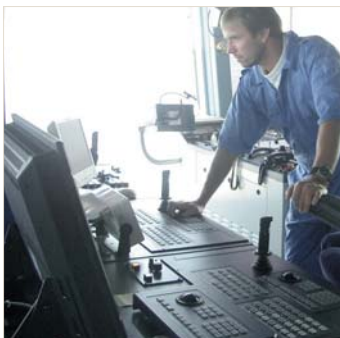
A member questionnaire exercise in 2004-5, the results of which were published as IMCA C 009, solicited useful feedback from members around the world working in a variety of operational situations, which has enabled further debate to take place.

A new IMCA workgroup has now been founded, under the TCPC committee with cross-divisional membership, to consider the issues relating to the use of simulators in relation to training and competence in the offshore industry, with the intention of



better defining classes of simulator and providing guidance on the extent to which they can be used and relied upon to provide offshore personnel with the skills to operate safely and efficiently within their team.

Contact [Jane.Bugler@imca-int.com](mailto:Jane.Bugler@imca-int.com) for more details on the workgroup.



## Competence & Training – TCPC relaunch

The TCPC core activity, since its establishment in 1997, has been at the heart of IMCA's objective to "provide the framework for training, certification, competence and recruitment to support and sustain the industry globally".

More than ten years on, the competence assurance and assessment guidance framework launched in 1999 is well used and recognised in the industry, shortly to be further enhanced by the results of the latest review which is aiming to improve clarity and consistency within the competence tables as well as considering possible additional positions where applying the same approach could be useful to members.

Keen to build on these successes, the TCPC committee recently held a review of its own composition, objectives and activities. The most noticeable outcome is a change of name, which will be implemented in the new year, to Competence & Training – setting out more clearly the committee's role. The committee will continue to work directly on these issues from an industry-wide perspective and to provide co-ordination of work within the four IMCA technical divisions.

Existing document references will remain, but from 1 January information notes will follow a new IMCA C series.

## Could your story help attract new recruits?

The relaunched IMCA website contains a vast amount of new and updated material, nowhere more so than in the careers zone at [www.imca-int.com/careers](http://www.imca-int.com/careers)

The facts articles describe the exciting careers available in the industry such as educational background needed, skills and training requirements, working conditions and career paths.

New in depth feature articles describe a number of personal passions, from cranes and offshore lifting through diving, DP, materials and survey to ROVs.

Make the move articles help identify the options for those thinking of entering our industry both from college or university and from various other careers.

However, gaining a personal insight to the rewarding careers available can particularly attract new personnel. With this in mind, IMCA is looking to expand its series of My story case studies. We are looking for people in a broad range of roles from around the globe to tell their story.

To tell your story, please contact [Hugh.Williams@imca-int.com](mailto:Hugh.Williams@imca-int.com)

## THE DYNAMIC POSITIONING CENTRE Technical Services & Training

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## Regional news

### Americas Deepwater Section

As we go to press, the first in a new style of meeting is being held by the Americas Deepwater Section. Following a more traditional member session, the afternoon of 11 November sees the first *IMCA Americas Seminar*, which will take place at larger hotel venues in Houston and will focus on presentations from guest speakers on a variety of topics of interest to members and the wider industry, as well as providing time for oil company representatives and potential members to find out more about the association and its work. A good turnout from both members and guests is expected for the first event, which includes presentations on: the Jubilee project offshore Ghana; Hurricane Ike and business continuity planning; and successful self-regulation in the marine contracting sector.

The section is also looking forward to the 2009 IMCA safety seminar, being organised together with the Gulf Coast Safety & Training Group, which will take place on 11-12 March at Minute Maid Park in Houston – see back cover for outline information. Full details will be circulated to members and placed online at [www.imca-int.com/events](http://www.imca-int.com/events) shortly.

### Asia-Pacific Section

Guests in Kuala Lumpur for the annual seminar on the following two days helped swell attendance at the 4 November Asia-Pacific Section meeting to over 50 persons. Representatives from IMCA's global committees and workgroups were present, providing an excellent opportunity for two-way dialogue on current projects and suggested future work.

Among the issues discussed were representation on the global committees from the Asia-Pacific region, the new IMCA careers information packs, the proposed IMCA supervisor training syllabus and the ongoing review of the Common Marine Inspection Document.

The next meeting will take place on 22 January 2009 in at the Sheraton Perth in Western Australia.

Keep up to date on the latest regional developments, forthcoming meetings and third party events at [www.imca-int.com/regions](http://www.imca-int.com/regions)

### Europe & Africa Section

Wim de Boer of Heerema Marine Contractors has been elected as the new Chairman of the Europe & Africa Section, taking over from Brian Leith (Acergy) with Jim Sommerville (Fugro-Rovtech) remaining as Vice-Chairman.

The next section meeting is being planned for early 2009, to be held as a joint seminar with the relaunched Competence & Training (currently TCPC) committee – see page 5 for details.

### Middle East & India Section

Around 30 members were present for good discussion at the latest section meeting, held in Abu Dhabi, UAE, on 13 October. Discussions on current work within IMCA's global committee and various local issues were wide-ranging, reflecting the growth in membership across all of IMCA's technical divisions.

It was reported at the meeting that Charlie Rogerson, who served for many years as Hon. Secretary and subsequently Vice-Chairman of the section, was taking up a new position in Australia and thus moving out of the region. Section chairman Steve MacMillan and members noted their thanks to Charlie for his considerable contribution to the growth and success achieved by IMCA in the Middle East.

The same week saw IMCA hold its second briefing seminar of the year in Mumbai, India. The event was well attended by oil companies and contractors and included presentations on diving, marine and positioning issues. Delegates asked for further similar seminars to be held in the future.

The next section meeting will take place in early January 2009.

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## Who to contact at IMCA:



**Hugh Williams**  
Chief Executive



**Jane Bugler**  
Technical Director



**Philip Wiggs**  
Technical Adviser



**Nick Hough**  
Technical Adviser



**Ian Giddings**  
Technical Adviser



**Paul Evans**  
Technical Adviser

**Vicki Graham**  
**Genine da Cruz Harvey**  
Certification Schemes Administrators  
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 member records

**Jean Carmichael**, Bookkeeper

**IMCA** 5 Lower Belgrave Street  
London SW1W 0NR, UK

Tel: +44 (0) 20 7824 5520

Fax: +44 (0) 20 7824 5521

E-mail: [imca@imca-int.com](mailto:imca@imca-int.com)

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

## 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**

Knut Boe, Technip

**IMCA Vice-President**

Johan Rasmussen, Acergy

### Regional Section Chairmen and Vice-Chairmen

**Americas Deepwater**

Alan Allred, Aker Marine Contractors

Tony Duncan, Acergy

**Asia-Pacific**

Andy Bolton, Technip Subsea 7 Asia Pacific

Mark Shepherd, Mermaid Offshore Services

**Europe & Africa**

Wim de Boer, Heerema Marine Contractors

Jim Sommerville, Fugro-Rovtech

**Middle East & India**

Steve MacMillan, J Ray McDermott

Roy Donaldson, BUE Marine

Hugh Williams, *Chief Executive*

Jane Bugler, *Technical Director*

### Committee Chairmen and Vice-Chairmen

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

**TCPC:** John Greensmyth, Technip  
Mark Elder, Subsea 7

**Diving:** Alan Forsyth, Subsea 7  
*Vice-Chairman – election underway*

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

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

**Remote Systems & ROV:**  
Neil Milne, Subsea 7  
Espen Ingebreetsen, Oceaneering

### SEL Core Committee

**Chairman:** Wallace Robertson, Helix ESG

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

Bart Westerhout, Allseas

Jim Knight, Heerema Marine Contractors

Sal Ruffino, Saipem

Alan Forsyth, Subsea 7

Allan Hannah, Technip

Bram Sluiskes, Van Oord

**Americas:** Wayne Seelbach, Helix ESG

**Asia-Pacific:** Matt Hort, Clough Oil & Gas

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

### Marine Division MC

**Chairman:** Pete Somner, Technip

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

Alistair MacLeod, Acergy

Quirien Grul, Allseas

Derek Judd, Bibby Offshore

Michiel Goedkoop, Heerema Marine Contractors

David Blencowe, Maersk Supply Service

John de Hartog, Saipem

Geir Karlsen, Subsea 7

Kjell Egil Helgøy, Teekay

**Americas:** Mike Lawson, Transocean

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

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

### TCPC Core Committee

**Chairman:** John Greensmyth, Technip

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

Craig Darroch, Acergy

Pauline Irwin, DOF

Steve Sheppard, Helix ESG

Gavin Smith, Subsea 7

Roy Hay, Technip

Andy Stewart, UK Project Support

**Americas:** Tony Greenwood, Cal Dive International

**Asia-Pacific:** Mike Kelly, SeaSafe

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

### Offshore Survey Division MC

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

**Vice-Chairman:** Walter Steedman, Subsea 7/Veripos

Ray Morgan, Acergy

Michiel van de Munt

Stuart Reid, Andrews Survey

Ed Danson, C&C Technologies

Perry Balls, DeepOcean

Simon Barrett, DOF Subsea

Ian McKenzie, Fugro Survey

Robert van der Velden, Heerema Marine Contractors

Peter Thomas, Maritech

Martin Day, Subsea 7

**Americas:** Stephen Browne, Subsea 7

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

**Middle East & India:** Darren Male, Fugro Survey Middle East

### Diving Division Management Committee

**Chairman:** Alan Forsyth, Subsea 7

Joar Gangenes, Acergy

Hans Berkhof, Bluestream

Alan Thomas, Cape Diving

Steve Nairn, Helix ESG

Jerry Starling, Integrated Subsea Services

Darren Brunton, KB Associates

David Smith, National Hyperbaric Centre

Norb Gorman, Oceaneering International

Calum Buchanan, RBG

**Americas:** Allan Palmer, Helix ESG

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

**Middle East & India:** Steve MacMillan, J Ray McDermott

### Remote Systems & ROV Division MC

**Chairman:** Neil Milne, Subsea 7

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

Colin Mackay, Acergy

Jim Mann, Fugro

John Davies, Global Marine Systems

Mike Arnold, Hallin Marine

David Rhodes, Integrated Subsea Services

Kevin Kerins, Oceaneering International, Inc.

Mark Slessor, Saipem

John Pirie, Technip

Grant Cowie, TS Marine

**Americas:** Ian Edmonstone, Helix ESG

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

**Middle East & India:** Chris Blake, Fugro Survey Middle East

## International Contractors

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

## Contractors

Abel  
Acery Asia Middle East  
Adams Offshore Services Ltd  
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  
Arabian Gulf Mech. Svcs & Ctrg Co.  
Arena Sub srl  
ATCO Ports Mgt & Marine Svcs  
Atlantic Towing Ltd  
B+H Equimar Singapore Pte Ltd  
Bibby Offshore Ltd  
BJ Services Co (Middle East) Ltd  
Bluestream NL bv  
Bluewater Energy Services BV  
Bluewater Offshore Construction  
Boskalis Offshore  
Bourbon  
British Antarctic Survey  
BUE Marine Ltd  
Bumi Armada Berhad  
C&C Technologies Inc.  
C&C Technologies (Europe & Africa)  
C&M Group Ltd  
Cal Dive International, Inc.  
Cal Dive International Pte Ltd  
Cal Dive International Pte Ltd - ME  
PT Calmarine  
Canship Uglan Ltd  
Cape Diving  
Caspian Sea Oil Fleet (CSOF)  
CCC (Underwater Engineering) SAL  
CDMS Ltd  
CDS Subsea Pte Ltd  
CH Offshore Ltd  
Clough Oil & Gas  
CNS International srl  
Con-Dive, LLC (Americas)  
Con-Dive, LLC (Asia-Pacific)  
Con-Dive, LLC (Europe & Africa)  
Con-Dive, LLC (Middle East & India)  
Coral Alliance Sdn Bhd  
CTC Marine Projects Ltd  
CUEL Ltd  
Dalgidi Private Company  
DCN Global LLC  
DeepOcean  
Diamond Offshore Drilling Inc  
DNT Offshore srl  
Dockwise  
DOF Management AS  
DOF Subsea (Australia & Asia Pacific)  
DOF Subsea Norway AS  
DOF Subsea UK Ltd  
DOF UK Ltd  
Dolphin Drilling Ltd  
Dolphin Offshore Enterprises (India)  
Dulam International 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 Survey (India) Pvt Ltd  
Fugro Survey (Middle East) Ltd  
Fugro Survey (Singapore) Pte. Ltd

Fugro Survey Ltd  
Galliano Marine Service LLC  
GeoLab srl  
Global Industries Ltd (Americas)  
Global Industries Ltd (Asia-Pacific)  
Global Industries Ltd (Europe & Africa)  
Global Industries Ltd (ME & India)  
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  
Halani Shipping Pvt Ltd  
Hallin Marine  
Hallin Marine UK Ltd  
Halul Offshore Services Co.  
Harbor Star Shipping Services, Inc.  
HEISCO  
Horizon Survey Company (FZC)  
Hull Support Services Ltd  
Huta Marine Works Ltd  
IDMC – Impresub Diving & Marine  
Impresub International LLC  
Integrated Subsea Services Ltd  
Intl Marine Works - Alexandria  
Intl Naval Works - Abu Dhabi  
IOTA-Survey  
IRSHAD  
Island Offshore Management AS  
Jack-Up Barge BV  
Jumbo Offshore VoF  
Knutsen OAS Shipping AS  
Lamnalco Group  
PT Lancar Rejeki Berkas Jaya  
LD Travocan  
Louisiana Overseas Inc.  
Maersk Drilling  
Maersk Supply Service  
Maridive & Oil Services (SAE)  
Maridive Offshore Projects  
Marine Consulting srl  
Marine Logistics Solutions (MarSol)  
Marine Subsea AS  
Marine Survey & Services Intl Ltd  
Master Tech Diving Services  
Med Marine  
MENAS  
Mermaid Marine Australia Ltd  
Mermaid Offshore Services Ltd  
Mohn Drilling AS  
Mutawa Marine Works Est  
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.  
Oceanteam Subsea Services Ltd  
Octomar  
Odffell Drilling  
Offshore Geo-Surveys Sdn Bhd  
Offshore International FZC  
Offshore Manpower SA  
Offshore Oil Eng. Co. Ltd (COOEC)  
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  
Prosafe Offshore Ltd  
PWV-Group  
Rana Diving & Marine Contractor srl  
RBG Ltd  
REM Offshore AS  
Riise Underwater Engineering AS  
Rolv Berg Drive AS  
Rubicon Offshore Intl Pte Ltd  
Sahara Petroleum Company  
Saipem sa - Saibos Division  
SAL Shipping  
PT Samudera Biru Nusantara  
Sapura Diving Services Sdn Bhd  
Sarku Engineering Services Sdn Bhd  
SAROST SA  
SBM Offshore NV  
Seacor Marine (International) Ltd  
Seadrill Management AS  
Seahorse Services Co. Ltd  
Sealion Shipping Ltd  
SEAMEC  
Seascope Surveys Pte Ltd  
Sea Trucks Group FZE (ME & India)  
Sea Trucks Group FZE (Asia-Pacific)  
Sea Trucks Group FZE (Eur & Africa)  
Seaway Heavy Lifting Engineering BV  
Seaways International LLC  
Seaworks Ltd  
Secunda Marine Svcs/J Ray McDermott  
Siem Offshore AS  
SMIT  
SMIT Subsea (Africa)  
SMIT Subsea Europe  
SMIT Subsea Middle East LLC  
SMIT Subsea (Singapore)  
Solstad Shipping AS  
Stapem Offshore SA  
Stena Drilling Ltd  
Submersible Television Surveys Ltd  
Subocean Group Ltd  
Subsea 7 Asia Pacific  
Subsea Explore Services (M) Sdn Bhd  
Subsea Intervention Technologies  
Subsea Petroleum Services  
Subtech (Pty) Ltd  
Subtech Offshore  
Superior Offshore International  
Svitzer  
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.  
Trico Marine Services Inc.  
Trico Supply (UK) Ltd  
Troms Offshore AS  
TS Marine (Contracting) Ltd  
TS Marine Pty Ltd  
Underwater Services Company  
Unidive Marine Services Pte Ltd  
URS nv  
Van Oord Offshore BV  
Vastalux Sdn Bhd  
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  
Advanced Marine Pte Ltd  
PT Advanced Oil & Gas Consulting  
Air Liquide America LP  
Air Products plc  
Air Products Middle East FZE  
Air Products Singapore Pte Ltd  
Analox Sensor Technology Ltd  
Ashtead Technology (SEA) Pte Ltd  
Balmoral Offshore Engineering  
Bibby Offshore Ltd  
Bourbon  
Bridon  
Brunvoll AS  
CAPE Group Ltd  
CCC Arcadia (Subsea) Ltd  
Chem-Gas Pte Ltd  
Chesterfield Special Cylinders Ltd  
Clough Oil & Gas  
Comanex SAS  
Converteam Ltd  
CUEL Ltd  
Cynergetix Pte Ltd  
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  
Franklin Offshore International Pte Ltd  
General Robotics Ltd  
Global Gases & Chemicals FZCO (Dubai)  
Global Gases Group (Singapore) Pte Ltd  
Global Gases South Africa (Pty) Ltd  
Great Offshore Ltd  
Guidance Navigation Ltd  
Halani Shipping Pvt Ltd  
Hydra Marine (Pty) Ltd  
Hyperbaric Technology BV (Hytech)  
IXSEA  
JW Automarine  
Kenz Figeo BV  
Kirby Morgan Dive Systems  
Kongsberg Maritime AS  
Kongsberg Maritime Ltd  
KTL Offshore Pte Ltd  
Kystdesign AS  
L-3 Communications  
Lexmar Engineering Pte Ltd  
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) Pty Ltd  
Pacific Commercial Diving Supply Pty Ltd  
Perry Slingsby Systems, Inc.  
Perry Slingsby Systems Ltd  
Proserv Abandonment & Decommissioning  
Redaelli Tecnica spa  
Rolls-Royce Oy Ab  
Rolv Berg Drive AS  
ROV Supply Pte Ltd  
Saab Seaeey Ltd  
SBM Offshore NV  
Schilling Robotics, Inc.  
Schilling Robotics Ltd  
Sea and Land Technologies Pte Ltd  
Seaflex Ltd  
Sealion Shipping Ltd  
Seatools BV  
Serimax Ltd  
Skan-El Skipsprosjektering AS  
Soil Machine Dynamics Ltd  
Sonardyne Asia Pte Ltd  
Sonardyne International Ltd  
Submarine Manufacturing & Products Ltd  
Submec Offshore Pty Ltd  
Subsea Vision Ltd  
Sundan Offshore Pvt Ltd  
Technical Diving Equipment Pommec bv  
Trelleborg Protective Products AB  
Trico Supply (UK) Ltd  
Trim Systems Pte Ltd  
The Tritanium Company  
Underwater Technology Services Pte Ltd  
Unique System FZE  
Veripos  
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  
Anglo-Eastern Group  
Anglo-Eastern Group (Asia-Pacific)  
Auto Dynamic Positioning Services  
Bachrach & Wood  
Blade Offshore Services Ltd  
Braemar Falconer Pte Ltd  
CAPE Group Ltd  
C-MAR Services (UK) Ltd  
Construction Specialists Ltd (CSL)  
Cosalt  
DMC Offshore  
DOWC  
EI-Automation AS  
Electrical Power Engineering Ltd  
ETPM Ltd  
Exmed Stirling Ltd  
Fender & Spill Response Services  
Franklin Offshore International Pte Ltd  
Global Maritime  
GW & Associates Ltd  
Houlder Insurance Services Ltd  
Imes Ltd  
Inchcape Shipping Services  
Inchcape Shipping Services – Americas  
Independent Risk Solutions BV  
Interocean Marine Services Ltd



K2 Specialist Services Pte Ltd  
 KB Associates Pte Ltd  
 Lexmar Engineering Pte Ltd  
 London Offshore Consultants Ltd  
 M3 Marine Pte Ltd  
 Marex Marine Services Ltd  
 Marine Cybernetics  
 MJR Controls Ltd  
 Modern Computing Services (MCS)  
 Modular Underwater Systems Ltd  
 MOS Marine Offshore Service Pte Ltd  
 Nautronix plc  
 Navigare International Inc.  
 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  
 PAE Singapore Pte Ltd  
 Perry Slingsby Systems Ltd  
 Peterson SBS Den Helder BV  
 PML (Noble Denton Consultants Ltd)  
 Promarine Ltd  
 QinetiQ Ltd  
 Reel Group Ltd  
 Rolls-Royce Power Engineering plc  
 Schilling Robotics, Inc.  
 SeaSafe Pte Ltd  
 Sebastian AS  
 Skan-El Skipsprosjektering AS  
 Skuld AS  
 Sparrows Offshore Services Ltd  
 Submec Offshore Pty Ltd  
 Subsea Vision Ltd  
 Thome Offshore Management Pte Ltd  
 Trident Offshore Ltd  
 The Tritanium Company  
 Veripos  
 Vroon Offshore Services Ltd  
 Wavespec Ltd

#### Training establishments

AI Safety Training Consultants (1995) Ltd  
 Aberdeen Skills & Enterprise Training Ltd  
 Adriamare Maritime Training Center  
 Alesund University College  
 Banff & Buchan College  
 PT Barron International  
 Bergen University College - Diver Ed.  
 Bibby Ship Management Group Ltd  
 Centre for Marine Simulation  
 CFO - Centro Formazione Offshore  
 C-MAR Asia Pte Ltd  
 Commercial Diving Academy  
 De Moura Shipping Ltda  
 Delphinus Services - ROV Training  
 Divers Academy International  
 Divers Institute of Technology  
 Diving Diseases Research Centre  
 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  
 Hydrolab-HydroCAT  
 IDESS Maritime Centre (Subic), Inc.  
 INPP  
 The Institute of ROVs  
 Interdive Services Ltd  
 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  
 National Hyperbaric Centre Ltd  
 National Oceanography Centre  
 National Polytechnic College of Science  
 Netherlands Diving Centre  
 The Ocean Corporation  
 Offshore Skills Training Centre (OSTRAC)  
 PetroVietnam Manpower Training College  
 PML (Noble Denton Consultants Ltd)  
 PNI Training Centre AS  
 Power & Generation Services  
 Professional Diving Academy  
 Professional Diving Centre  
 Satakunta University of Applied Sciences  
 PT SBS Indonesia  
 SEATAG Offshore Ltd  
 Seneca College - Underwater Skills Prog.  
 Ship Manoeuvring Simulator Centre  
 Skilltrade BV  
 SMTC Global Inc.  
 Stord/Haugesund University College

SubNet Services Ltd  
 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

#### Personnel agencies

Ace Diving Services CC  
 ACSM  
 Advanced Offshore Contractors Pvt Ltd  
 Amberjack Oil & Gas Recruitment Svcs  
 Aqua Omega Services Pvt Ltd  
 Atlanta Ltd Maritime Agency  
 Atlantic Resourcing Ltd  
 Atlas DOOR  
 PT Bahana Galang Jaya  
 Dave Oliver Hydrographics Services  
 De Moura Shipping Ltda  
 Flare Project Services LLC  
 Hydrosud Ltd  
 Maritech Group  
 Oceanscan Ltd  
 Offshore Marine Services Pty Ltd  
 Offshore Marine Services UK Ltd  
 Oilfield Medics UK Ltd  
 Petrolis SA  
 PR Offshore Services Ltd  
 Seatek India  
 SubNet Services Ltd  
 SubServPro  
 Superior Subsea Personnel Services  
 Team Trident LLC  
 Total Marine Services  
 UK Project Support Ltd  
 Underwater Engineering Ltd

#### Naval units

Irish Naval Service  
 Royal Saudi Navy Forces  
 Salvage & Marine Operations IPT  
 Superintendent of Diving (UK)

#### Corresponding Members

Abu Dhabi Marine Operating Company  
 Agip Kazakhstan North Caspian Op. Co.  
 AISI  
 Azerbaijan International Operating Co.  
 Babco - The Bahrain Petroleum Co.  
 BG Group  
 BHP Billiton  
 BP America Production Company  
 BP Exploration Operating Company Ltd  
 BP Shipping  
 BP West Java Ltd  
 Brunei Shell Petroleum Company  
 Cairn Energy India Pty Ltd  
 Chevron Energy Technology Co. - Subsea  
 Chevron Shipping Co.  
 Chevron Thailand E&P Ltd  
 CNR International UK Ltd  
 ConocoPhillips China  
 ConocoPhillips Indonesia  
 ConocoPhillips (UK) Ltd  
 Dana Petroleum plc  
 Det Norske Veritas  
 Esso Australia Pty Ltd  
 GDF Production Nederland bv  
 Gulf of Suez Petroleum Company  
 Health & Safety Authority  
 Husky Energy  
 International Diving Schools Association  
 Kuwait Oil Company  
 Lloyd's Register EMEA  
 Maersk Oil Qatar AS  
 Mobil North Sea Ltd  
 Murphy Sarawak Oil Co. Ltd  
 Nederlandse Aardolie Maatschappij BV  
 Nexen Petroleum UK Ltd  
 Oil & Natural Gas Corporation Ltd  
 Oilexco North Sea Ltd  
 Petro Canada - Terra Nova Project  
 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  
 Zakum Development Company

#### IMCA welcomes the following new members:

- ◆ **Advanced Offshore Contractors Pvt Ltd**
  - ◆ **B+H Equimar Singapore Pte Ltd**  
 A Singapore-based service company, re-entering the offshore market with a DP2 300-man accommodation barge with a 300T crane under construction for delivery Q4 2009.  
 Tel: +65 6323 5253 Web: [www.bhocean.com](http://www.bhocean.com)
  - ◆ **PT Calmarine**
  - ◆ **Chem-Gas Pte Ltd**  
 A Singapore-based manufacturer and supplier of a wide range of industrial and speciality gases, established in 1997 with an experienced team of technical personnel to assist its clients.  
 Tel: +65 6897 8998
  - ◆ **Drexel Oilfield Equipment**
  - ◆ **ETPM Ltd**
  - ◆ **GO Offshore**  
 An Australian company providing rig moving, vessel operation, crewing and consultancy services for a growing fleet within the Australasian oil and gas market.  
 Tel: +61 8 9474 3600 Web: [www.goaus.com.au](http://www.goaus.com.au)
  - ◆ **SC Grup Servicii Petroliere SA**
  - ◆ **GW & Associates Ltd**
  - ◆ **Interocean Marine Services Ltd**
  - ◆ **IOTA-Survey**  
 An independent French company with additional operational bases in West Africa, specialising in technical assistance and offshore services for the oil and gas industry and coastal studies.  
 Tel: +33 (0) 4 99 13 70 50 Web: [www.iota-survey.fr](http://www.iota-survey.fr)
  - ◆ **Knutsen OAS Shipping AS**
  - ◆ **Lloyd's Register EMEA**
  - ◆ **Maersk Drilling**  
 A provider of drilling services to oil companies around the world with a growing, modern fleet of semi-submersibles, jack-up rigs and cantilevered drilling barges.  
 Tel: +45 33 63 33 63 Web: [www.maersk-drilling.com](http://www.maersk-drilling.com)
  - ◆ **Modular Underwater Systems Ltd**
  - ◆ **MOS Marine Offshore Service Pte Ltd**
  - ◆ **Neptune Marine Services**  
 An Australian provider of subsea engineering services, with a growing ROV capability using new builds certified for operation in deep water and strong current environments.  
 Tel: +61 8 9424 1111 Web: [www.neptunems.com](http://www.neptunems.com)
  - ◆ **Octomar**
  - ◆ **Odfjell Drilling**  
 A Norwegian-based provider of drilling services internationally, building on the 35+ years' experience of its 2,700 employees with operations in the North Sea, Middle East and Far East.  
 Tel: +47 55 99 89 00 Web: [www.odfjelldrilling.com](http://www.odfjelldrilling.com)
  - ◆ **Offshore International FZC**  
 A new joint venture company between Larsen & Toubro and SapuraCrest formed to build, own and operate a heavy lift/pipelay vessel, expected for delivery in September 2009.  
 Tel: +91 22 6705 1609
  - ◆ **Orogenic GeoExpro Sdn Bhd**
  - ◆ **Pacific Crest Pte Ltd**  
 A Dutch marine-based owner and operator of a growing fleet of offshore service vessels.  
 Tel: +65 6278 0239 Web: [www.pacificradiancance.com](http://www.pacificradiancance.com)
  - ◆ **PW-Group**  
 A Nigerian marine construction, engineering and logistics company providing heavy lifting, cable laying, subsea construction and platform services to the West African oil and gas industry.  
 Tel: +234 805 829 6546/803 745 6175 Web: [www.pwlimited.com](http://www.pwlimited.com)
  - ◆ **Qatar Petroleum**
  - ◆ **Skuld AS**
  - ◆ **Sundan Offshore Pvt Ltd**
  - ◆ **Technical Diving Equipment Pommec BV**
  - ◆ **Trident Offshore Ltd**  
 A UK-based marine consultancy providing a range of services from moving, positioning and installing offshore units and mooring systems to subsea positioning and construction support.  
 Tel: +44 (0) 1224 622 111 Web: [www.trident-offshore.com](http://www.trident-offshore.com)
  - ◆ **Veolia Environmental Services Special Services**
  - ◆ **Visser & Smit Marine Contracting bv**  
 A Dutch marine contractor specialising in offshore power cable and burial both on- and offshore, involved in the renewable energy sector with inter-turbine and export power cable lay.  
 Tel: +31 (0) 78 641 7222 Web: [www.vsmc.nl](http://www.vsmc.nl)
  - ◆ **Yak Diving Academy**  
 An Indian government-approved merchant navy training establishment offering maritime courses with diving aspects. NB These are not initial diver training or IMCA-approved courses.  
 Tel: +91 9324 255 664 Web: [www.yakindia.com/diving-academy-services.asp](http://www.yakindia.com/diving-academy-services.asp)
  - ◆ **Zamil Offshore Services Co Ltd**
- #### Recent name changes
- ◆ Falconer Bryan is now Braemar Falconer Pte Ltd
  - ◆ The DP Centre Singapore is now C-MAR Asia Pte Ltd
  - ◆ OSM Schifffahrt is now ER Offshore GmbH & Cie KG

# You may have missed ...

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

## New publications:

- ◆ **Risk assessment DVD** (IMCA SEL 021)
- ◆ **Guidance on wire rope integrity management for vessels in the offshore industry** (IMCA SEL 022/M 194)
- ◆ **Vessel security** (Safety poster number 5)
- ◆ **Caught between and pinch points: what you should know** (Safety pocket card number 16)
- ◆ **IMCA Document Register** issue 3

## Safety flashes:

- ◆ **Safety flash 13/08** – covering 2 incidents: Faulty governors; Seaeye ROV tether arcing incident
- ◆ **Safety flash 14/08** – covering 2 incidents: Serious injury incident during routine crane maintenance; Failure of fall arresters
- ◆ **Safety flash 15/08** – covering 4 incidents: Crew member injured during ROV maintenance; Risk of electrocution during routine work; Uncontrolled ascent of spool and diver during a lift bag operation; Near-miss incident involving a diver's umbilical
- ◆ **Safety flash 16/08** – covering 3 incidents: Laptop battery fire and explosion; Pallet lifter failure; Fire risks of intermediate bulk containers (IBCs)

## Information notes:

### Safety, Environment & Legislation (SEL)

- IMCA SEL 13/08 – Revision of the STCW Convention and Code
- 14/08 Long range identification and tracking (LRIT)
- 15/08 Special Purpose Ships Code: Draft UK marine guidance note
- 16/08 Guidance on health and safety whilst travelling on business

### Training, Certification & Personnel Competence (TCPC)

- IMCA TCPC 04/08 – Minimum standard of competence for officers in charge of a navigational watch on an offshore supply vessel

### Diving Division

- IMCA D 12/08 – The use of bell outer doors during saturation diving operations
- 13/08 Extended umbilical trials

### Marine Division

- IMCA M 16/08 – Revision of the STCW Convention and Code
- 17/08 Long range identification and tracking (LRIT)
- 18/08 Special Purpose Ships Code: Draft UK marine guidance note
- 19/08 Minimum standard of competence for officers in charge of a navigational watch on an offshore supply vessel
- 20/08 Election results: Marine Division Management Committee

### Offshore Survey Division – None

### Remote Systems & ROV Division – None

If you aren't receiving documents that you think should have been sent to you, please contact the secretariat to check your representation and contact records so that we can keep you up to date:

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



WHEREVER YOU NEED US TO BE

K2 Subsea is a division of K2 Specialist Services (K2). We provide a range of 3rd party auditing and quality assurance services to offshore operators and marine contractors involved in subsea activities.

## Overview of Our Services

- **Evaluation and Testing of Hyperbaric Rescue Systems**
- **3rd Party Dive System Audits**
- **3rd Party ROV Audits**
- **Failure Mode and Effect Analysis (FMEA)**
- **Subsea Equipment Asset Management System (SEAMS)**
- **NDT and Quality Assurance Services**
- **Engineering Services**

Contact: Tel: +(65) 65457646,  
Email: [sale@k2.com.sg](mailto:sale@k2.com.sg)

Fax: +(65) 65457138,  
Website: [www.k2.com.sg](http://www.k2.com.sg)



# PROVIDING WATER WORLDWIDE



Coral Sea Range (with LCD display)	10 - 25 tons/day
North Sea Range	20 - 80 tons/day
Tasman Sea Range	41 - 199 tons/day



S.E Asia Contact  
Advanced Marine Pte Ltd /  
Hydro Resources Asia Pte Ltd  
T : +65 62658122 F : +65 62657591  
E : [sales@hydroresources.com.sg](mailto:sales@hydroresources.com.sg)  
W : [www.hydroresources.com.sg](http://www.hydroresources.com.sg)



# Offshore diving operations management and training

- **NPD Leadership**
- **IMCA Diver Medic**
- **IMCA Trainee Air and Bell Diving Supervisor**
- **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**
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- **Overseas training**



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## Diving Division

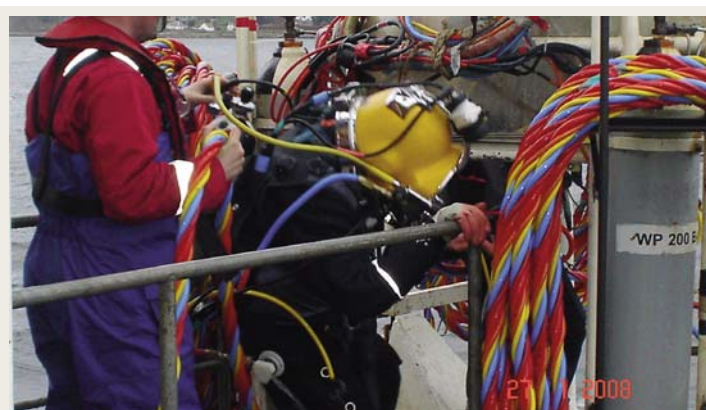
### Bell outer doors

Following communications and discussions with regulators in certain areas of operations regarding the use of bell outer doors during saturation diving operations, an IMCA workgroup was formed to develop guidance to assist diving contractors when using a risk-based approach to decide if the use of bell outer doors is appropriate or not.

The issue is to avoid increased external pressure acting on the inner door causing the bell to flood should the bell fall below planned working depth. Using a bell outer door could avoid external pressure acting on the inner door, but an outer door could only provide this external pressure seal during launch and recovery phases of the run, i.e. when divers are not locked out.

Historically, bell outer doors have been used to enable the option of bell-bounce diving, but advances in dedicated and certified bell launch and recovery systems have led some to question this requirement.

The workgroup developed information note IMCA D 12/08, which sets out guidance on the detailed aspects required in a risk assessment to be undertaken when reviewing the need for bell outer doors.



### Extended umbilical trials report

In July 2007, IMCA was presented with the results of a regulatory questionnaire which raised potential concern over the practice of divers' umbilicals being passively tended through a remote tend point while diving from a DP vessel.

An IMCA workgroup was established to look into the practice, with a particular focus on diver rescue scenarios. It was agreed that a suitable way to proceed would be to carry out diving trials to test a number of scenarios and to compare active and passive tending techniques.

The workgroup developed a procedure to reflect current industry practice, with dry trials carried out to walk through the procedure. Diving trials took place on 25-28 January at the Professional Diving Academy in Dunoon, UK, using a three-man wet bell system with diver hat-mounted and fixed cameras for real-time in-water monitoring. The trials showed that both active and passive techniques, under appropriate conditions and subject to appropriate risk assessments, were viable for use.

Information note IMCA D 13/08 summarises the trials and details the procedures used, which can be modified to suit individual dive sites and modes of diving as appropriate.

A presentation was given on this work at the annual seminar in Kuala Lumpur and will be included on the forthcoming proceedings CD.

### NURGOD update

The Norway/UK regulatory guidance on offshore diving (NURGOD – IMCA D 034), originally published in December 2003, is under review.

Produced jointly by IMCA with OLF, the Norwegian Oil Industry Association, the document sets out minimum requirements which contractors should follow when transferring a diving support vessel between UK and Norwegian waters.

Since its original publication there have been a number of developments – new and updated IMCA guidance, regulatory changes and notably revision of the Norwegian NORSOK U-100 standard. These are now being addressed with updated guidance expected next year.

### Committee election

The Diving Division Management Committee is currently undergoing its biennial election with good participation at the nomination stage and a mix of new and familiar names on the ballot paper.

Alan Forsyth has been re-elected unopposed as chairman of the committee. Voting members are reminded to submit ballot papers by the 27 November deadline.

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## Marine Division

### CMID update news

The 25 September CMID workshop in Amsterdam attracted around ninety delegates from as far away as the USA and Indonesia for a hugely productive day.

Members of the CMID Steering Committee, representing both IMCA and the International Association of Oil & Gas Producers (OGP), gave presentations on the aims of the *Common Marine Inspection Document* (IMCA M 149) and why the current cross-industry review is taking place.

A discussion session addressed topics such as the content of the CMID (with delegates having been sent the current draft revision for review ahead of the event), inspector competence and access to completed reports, perhaps via a secure online database at some point in the future.

Feedback is now being addressed by the secretariat, the steering committee and CMID Workgroup.

It is hoped that a new edition of the CMID will be published early in the new year (Q1 2009).

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



## OCSVs in focus at IMO

**IMCA is working with governments and other associations to address industry concerns and requirements in light of revised SPS Code application.**

One year ago, an International Maritime Organization (IMO) working group produced a paper which brought surprise and caused concern for many IMCA members. The paper sought to categorise many types of offshore construction support vessels as 'special purpose ships'. A number of significant requirements would need to be met by such vessels, possibly involving significant changes, such as to ballast tank configuration.

As SPS is not a mandatory code, an implementation date could not be set at IMO, so flag states could adopt different dates or even be retroactive. Several vessels were on order at this point and it became unclear to

what code they should be built, especially with regard to multi-purpose vessels.

Time constraints precluded IMCA from developing a paper within the required IMO timetable to respond at the next meeting, but IMCA attended the meeting and talked to a number of flag states and other non-governmental organisation (NGO) representatives.

These discussions highlighted, not for the first time, that offshore issues are often relatively low profile at IMO. This is perhaps understandable as the size of even the entire international offshore fleet forms a very small portion of world-wide shipping

tonnage. Also, the offshore industry has thus far been pretty good at self regulating.

It became clear that we would not be able to defer acceptance of revised SPS Code, but we were able to gain support from the German delegation and others in proposing the possibility of a new OCSV code. This new code would be aimed at removing the confusion of applicability of codes and regulations presently used by flag states when classifying the wide range of offshore construction support vessel types.

The resulting IMCA workgroup has grown to include other associations and organisations and we have submitted a paper, jointly with Germany, to the IMO Maritime Safety Committee's November 2008 meeting. This will be presented in such a way that problems are identified and suggestions offered for solving them. At present these solutions appear to be clarifying the existing requirements, especially defining 'personnel onboard', or developing a new code.

It is hoped that the IMO Design & Equipment Sub-Committee can then be tasked with taking this forward in March 2009.

For more details or to get involved in the workgroup, please contact [Philip.Wiggs@imca-int.com](mailto:Philip.Wiggs@imca-int.com)

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## Offshore Survey Division

### Marine news in brief

#### Election results

The biennial election of the Marine Division Management Committee saw Pete Somner (Technip) and Peter Fougere (Transocean) re-elected unopposed as Chairman and Vice-Chairman respectively. With a number of personnel changes around the time of the election, some fresh faces have joined the committee, including Alistair MacLeod (Acergy), Quirien Grul (Allseas), Derek Judd (Bibby Offshore) and John de Hartog (Saipem).

#### Work programme priorities

The annual seminar in Kuala Lumpur (see page 1) enabled the Marine Division Management Committee to seek the views of members and industry colleagues on the projects they would find most valuable through a questionnaire exercise. The results will be reviewed and future action identified at the committee's next meeting.

#### UPS guidance progresses

Draft guidance on the use of uninterruptible power supplies has now reached the committee review stage and is expected to be published around year end.



### Addressing advances in digital video

In September 2005, IMCA published the first edition of *Digital video offshore: A review of current and future technologies* (IMCA R 012/S 008).

At that time, it was recognised that with the rapid advances in digital video technology, regular review and updating would be required. Over the past eighteen months this review has been taking place within a reconvened workgroup comprising both IMCA members and third-party experts. The workgroup has now submitted an updated version to IMCA's technical committees for review prior to publication.

The main areas in which the document has been updated address these technological developments, covering changes in practice brought about by continuing advances in digital data

storage such as the use of portable hard disks and USB-based storage devices using flash memory for client digital data deliverables. The commercial rivalry between the new blue laser, higher-capacity DVD formats reflected in the original document is now over, with Blu-Ray being the technology of choice today. The revision also touches on high definition (HD) TV and 3D video stereoscopy.

The revision also takes account of upcoming technologies. Much of this change goes relatively unseen and is incremental, as much that was looked forward to in 2005 has now become established as industry practice, reflecting the increasing maturity of the digital video industry.

For more details, please contact Nick.Hough@imca-int.com

### Brian Beard

The Offshore Survey Division Management Committee has lost one of its members with the death of Brian Beard. Brian had served on the committee representing Noordhoek Offshore for a number of years but lost his fight against a terminal illness in August.

He began work as a land surveyor in the UK, working on projects such as the British Museum and London City Airport, then moving to Saudia Arabia before starting his offshore survey career in the Netherlands.

Brian was well known for introducing a social element to the projects he was involved in and had a keen interest in building personal relationships with colleagues and coaching younger staff. He will be missed.

### Survey Chairman

Following his move to Oceanteam Subsea Services, Will Primavesi has been re-elected as Chairman of the Offshore Survey Division Management Committee.

Will is the subject of this issue's Spotlight – see page 15. The full committee list can be found in the IMCA Directory on page 7.

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## Remote Systems & ROV Division

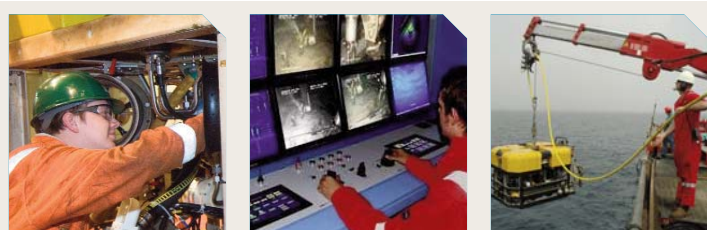
### Global ROV focus good all round

The Remote Systems & ROV Division has been expanding its global focus, with the result that membership has grown by 30% in the first ten months of 2008.

There is no question that remote technology is ever more important as the industry moves into deeper waters and harsher environments, hence a growing interest in the work of the division, but the benefits of working together on safety and related issues, of sharing good practice among companies operating world-wide and of networking with industry colleagues are just as important.

Recent initiatives have included:

- ◆ a regular ROV-focused workshop at the quarterly meetings of the Asia-Pacific Section which take place in locations around the region
- ◆ the successful addition of an offshore survey/ROV strand at the annual seminar in KL
- ◆ the ROV seminar held alongside Oceanology in London in March 2008
- ◆ the involvement of members active in the Americas ROV sub-group in meetings of the world-wide ROV committee, through both tele- and video-conferencing.



### Reviewing ROV personnel requirements

In discussions regarding the skills shortages being faced by members around the world, a key point has been that the shortages are not just in terms of the number of people applying for jobs in the industry (new entrants rather than inter-company moves), but also whether those applying are equipped with the knowledge and skills necessary to work in the positions in both offshore and onshore teams employers are looking to fill.

In the ROV sector, individuals are often involved in a wide range of tasks – not just flying an ROV but also being involved in electrical/hydraulic/mechanical technical aspects such as maintenance. Concern has been expressed to IMCA by a number of contractors that those applying to work in the sector do not always have the necessary background skills and qualifications to fulfil these requirements.

IMCA has previously issued guidance on entry level requirements and an initial training course for ROV personnel (IMCA R 002), which seeks to ensure that those undergoing ROV training are first skilled in at least one of the key disciplines – perhaps through technical training or experience in related industries – and that courses then meet industry needs.

The guidance is now under review and input would be welcome. IMCA is also in ongoing dialogue with training providers to promote awareness of these entry level requirements and wider industry needs.

Contact [Nick.Hough@imca-int.com](mailto:Nick.Hough@imca-int.com) for more details on this issue.

### ROV news in brief

#### Ultra-high voltage guidance

The Remote Systems & ROV committee has suggested that guidance on ultra-high voltage (>6.6kV), to complement IMCA's existing syllabus on *High voltage training* (IMCA C 010), could be of benefit to members.

The secretariat is now looking further into the issue, including discussion with the Marine Division committee.

Members interested in receiving updates on this work should contact [Nick.Hough@imca-int.com](mailto:Nick.Hough@imca-int.com)

#### ROV competence review

The review of the competence assurance and assessment tables (IMCA C 005) that has been ongoing this year and at last is drawing to a conclusion.

IMCA engaged the services of a consultant to harmonise the language and layout of the competence framework across all divisions, while the ROV tables have also seen the inclusion of competencies for ROV tooling technicians at different levels of seniority, as well as a new ROV superintendent position.

The workgroup is reviewing a proposed final draft, which will be submitted to the full committee for review shortly.



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## Spotlight on Will Primavesi

Will Primavesi is Survey Services Director with Oceanteam Subsea Services Ltd and serves as Chairman of the Offshore Survey Division Management Committee and a member of the Overall Management Committee. In this article, he discusses his 'day job' and provides a personal insight into the work his committee is currently undertaking on behalf of members.

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

Oceanteam Subsea Services (OSS), part of the Bergen-headquartered Oceanteam ASA Group, is an Aberdeen based company with a subsidiary company in Angola.

OSS itself is a relatively new company which has only been going for one year; but a lot has been achieved already. The company is currently providing survey services on cable installation vessels and is also operating three work class ROVs in the oil and gas sector. OSS is currently working in the renewable energy sector (with wind farm-related projects ongoing at several sites), in relation to installation and operation of submarine power cable inter-connectors and looking to expand in the oil and gas sector. The delivery in 2009 of two new build vessels and associated survey and ROV services will help support these increased operations.

### What is your current job?

I am the Director of the Survey Division of Oceanteam Subsea Services. As such, I am responsible for the reliable and cost effective implementation of survey services within Oceanteam and also for external markets on a global basis.

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

I joined Racal Survey Ltd in 1983 as a graduate surveyor. I spent four years working in Racal's overseas field pool, with time spent offshore as a hydrographic surveyor in the oil fields of the Middle East and India. I transferred to the UK in 1987 to work in cooler climes and was appointed area surveyor for the

North Sea in 1992. Three years later, I was posted to the Asia Pacific region. This was a fantastic opportunity both for me and my family and I have some great memories of Kuala Lumpur and South East Asia as a whole. In 1999 I returned to Aberdeen when the submarine cable industry was at its height, with deep water route survey operations for oceanic cables running for tens of thousands of miles across the Pacific and Atlantic oceans.

In 2004, I joined Saipem's Sonsub Division as survey manager., when Sonsub was growing from an ROV company to the construction company that it is today. This rapid growth presented many challenges in ensuring reliable survey services for some very complex subsea operations. I joined OSS in 2008.

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

I have to speak mainly of the survey industry, but from my activities with the Overall Management Committee of IMCA, I can see that the current issues are similar for all in the marine contracting world.

It almost goes without saying that the main challenge at present remains the sourcing of sufficient numbers of competent personnel. IMCA and its members have been working on this problem since 2006 when the latest 'boom' in the industry started. Progress is being made with personnel being utilised on a global basis from both the world-wide pool of offshore personnel and also from other industries. However, with the gradual influx of new personnel, a renewed vigilance is required to ensure that the resulting dilution of offshore experience does not

compromise either the safety or the technical success of projects.

The other key area affecting the survey industry is the rapid development of new technology, but this should be viewed as a positive effect which is being driven by the ever increasing use of digital systems. Advances in subsea acoustic positioning, seabed imaging, digital video recording and subsea vehicles such as ROVs and AUVs are pushing the boundaries of what can be achieved.

However, the combination of new technology and new personnel exacerbates the potential for mistakes, delays and incidents, which reinforces the requirements for good training, planning and monitoring of competence. IMCA is working on guidelines covering a number of these topics, including deep water acoustics, digital video, AUVs, DGPS and inertial navigation systems.

### How can these issues be taken forward?

From a personnel point of view, the focus should be on the safety cultures which IMCA and its member companies have worked hard to implement, such that they remain at the forefront of offshore operations. In terms of finding new personnel, we must continue to raise the profile of our industry within the education systems and also within other industries and armed forces. Such work is being done by IMCA itself and together with other groups, involving OGP (the International Association of Oil & Gas Producers) and similar organisations.

The successful adoption of new technology is very much in the hands of the individual member

companies, but the work of the technical committees can assist in this process by the publication of technical reviews and guidelines.

### How do you think IMCA makes a difference?

IMCA acts as a facilitator for the work that is required in ensuring safe operations offshore and also for maintaining a level of technical good practice. For the Diving and Marine divisions, this is very evident with a large number of guidelines and audit systems available to assist with self-regulation. In the Survey and ROV divisions, the high level of technical competition between the various member companies prohibits the production of in-depth technical guidelines, but there is a useful level of documentation on current technology being produced. It is hoped that these are of value to all the divisions of IMCA, including corresponding members, and that they provide a basis on which to create contractual specifications that are mutually beneficial to all parties.

### How do you see the future?

As I write this, the 'credit crunch' is biting, manufacturing outputs are down in the US and in China, global energy demand is slowing, OPEC is reducing production, the USA has a new president-elect and the price of oil is dropping to around \$60 per barrel! I'm not sure that any of us would have expected such events a year ago, making this question very difficult to answer. I would say that next year may see a slight fall in general activity offshore, but as the world recovers from the current crisis, I think the medium term will remain positive for the marine contracting industry ... but don't quote me on it!

## Forthcoming events

- 2-5 December  
OSEA – Offshore South East Asia  
Singapore
- 11-19 December  
Haldane 2008 – Future of diving  
Trondheim, Norway
- 22 January 2009  
**Asia-Pacific Section**  
Perth, Australia
- 19-20 February  
China Offshore Engineering  
Summit, Shanghai, China
- 24-25 February  
OSJ Annual Conference  
London, UK
- 3-5 March  
Subsea Tieback  
San Antonio, USA
- 11-12 March  
**Covering the global HSE  
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Houston, USA
- 31 March-2 April  
Ocean Business and  
Offshore Survey 09  
Southampton, UK
- 31 March-2 April  
MCE Deepwater Development  
Copenhagen, Denmark
- 4-7 May  
OTC, Houston, Texas, USA
- 12-13 May  
IADC Environmental  
Conference & Exhibition  
Stavanger, Norway
- 8-11 September  
Offshore Europe  
Aberdeen, UK
- 5-7 October  
Middle East Workboats  
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*Third party IMCA-supported events  
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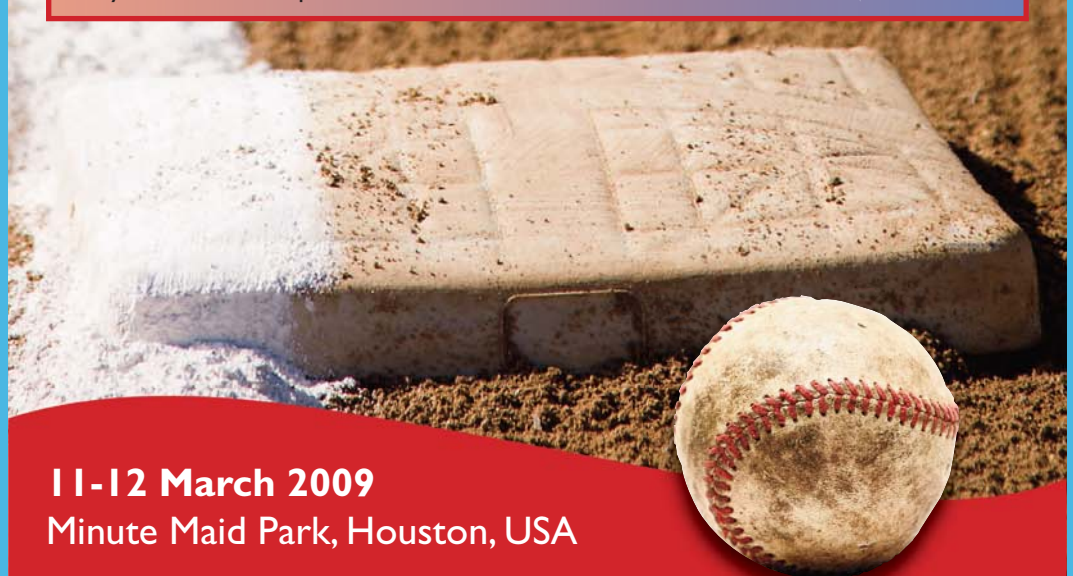
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