

Putting people first

IMCA brings together contractors, training establishments and agency representatives to identify industry needs, discuss training provision and tackle the skills shortage together.

Trinity Hall in Aberdeen was the venue for an IMCA seminar dedicated to training and related issues which took place on 27 February and attracted over 75 eager delegates.

The event had been organised by the HR Specialist Workgroup, under the TCPC committee, to facilitate better communication between contractors and training establishments on current training needs and delivery.

Roy Hay of Technip, the workgroup's chairman, opened the event by outlining this objective. He noted that a primary objective was for contractors and training establishments to work together to identify the 'log jams' that were hindering training and retention of personnel, such as the difficulties in getting bed space for trainees offshore (see page 4 for more on this issue).

Jane Bugler, IMCA Technical Director, provided delegates with an overview on the state of play with regard to training programmes and qualifications, including existing IMCA material.

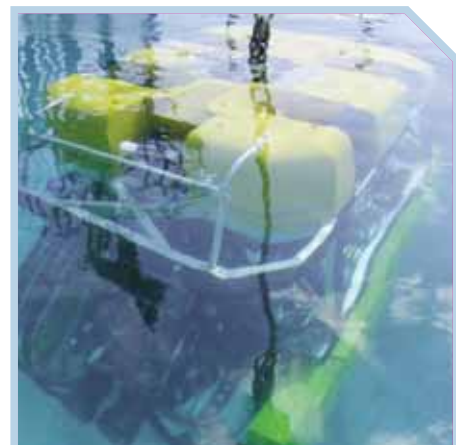
Gavin Smith (Subsea 7) and Anne Thomson (Technip) then spoke from the viewpoint of major contractors, outlining what such companies needed and wanted

from training providers and agencies. They covered issues such as the balance between standardised and bespoke courses, consistency both between contractors and between schools, along with the critical role agencies play in supplying appropriately trained and competent personnel to support the industry's work.

Four presentations from training establishments in the four technical divisions – diving, marine, offshore survey and ROV – set out the variety of courses on offer and how in each area training providers looked to work together with industry for the benefit of all.

Delegates then split into sector-specific workshops to address the practical issues being faced in each part of the industry before reconvening for a final discussion and summary session.

The event placed great emphasis on partnership and there was a willingness to work together expressed by all parties. The HR Specialist Workgroup and IMCA more widely are taking forward a number of excellent ideas identified at the event as part of the ongoing work to tackle skills shortages now and in the future.



ROV seminar success at oi8

Developments in ROV Technology – IMCA's second seminar on ROV issues alongside Oceanology International, attracted an increased audience of over 120 delegates for a series of presentations and panel-led discussions, covering the latest advances and predictions for the future as the industry undertakes an increasing range of operations in ever deeper waters.

Turn to page 14 for a full report.

Also in this issue:

Communications in lifting

New guidance on communications in lifting operations is now available, as part of IMCA's current focus on offshore lifting safety.

Get the message in full on page 12

Fresh look for offshore careers

IMCA has expanded and relaunched its range of careers materials, with a bright new look and information on a broader range of roles.

See what's coming on the horizon on page 4

Diving DESIGN review

The diving equipment systems inspection guidance notes are being reviewed, with a new name and additional guidance on use planned.

Find out more on page 11

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HQS Wellington attracts attention for IMCA

Some 120 members and guests attended a social reception aboard HQS Wellington on 5 March.

The vessel, moored on the Thames in London, is a restored World War II sloop and home of the Honorable Company of Master Mariners. She is a

floating museum and so provides a wonderful venue for an IMCA event, with maritime interest in detail, history and background.

Over 70 companies were represented at the event and such diversity clearly encouraged enjoyable conversation about today's

industry among those present.

Hugh Williams, in his welcoming speech, gave guests a brief update on IMCA, its guidance and how the association strives to improve efficiency in marine operations, in itself prompting discussion on a number of subjects.

With contractors, consultants, lawyers, insurance personnel and regulatory representatives present, a variety of perspectives and personal areas of expertise and interest added further to the conversation.

Many members attended, including representatives of the Overall Management Committee, IMCA Council and secretariat, who were on hand to entertain our guests, who enjoyed the refreshments and a delicious buffet with music in the background.

Redesigned websites about to go live

After much anticipation, the new IMCA websites are approaching launch. A thorough review has taken place to ensure their content is fully up to date and relevant for the variety of visitors the sites receive.

Following the most radical overhaul in over six years, a brand new design has been implemented, intended to be clearer, brighter and more visually appealing and to help you focus on the content you need.

Those who regularly use the current sites won't be lost, however, as the overall structure has been retained, albeit with revised navigation to help all levels of user find what they are looking for – the latest downloads, information on logbook and publications ordering, event programmes and booking, membership joining materials, incident reporting (see page 4) certification enquiries or information on the wide variety of exciting careers available in our industry (see page 4).

The new public website – www.imca-int.com – is well advanced and will be launching very shortly. The members-only website will follow shortly afterwards, integrating the new design with the wealth of additional material including over a thousand documents available for exclusive member downloading plus additional information on taking part in seminars, meetings and other association activities.

Contact Adam.Hugo@imca-int.com with any feedback on the new sites.

Discover IMCA in depth in our new brochure

The eye-catching *IMCA in depth* brochure is undergoing review and refreshment. Expanded to 16 pages with additional text and photographic content, the result will be an enhanced guide to IMCA for use by secretariat staff and members with a wide audience.

Updated document register available

The April 2008 issue of the IMCA Document Register, containing a full listing of current publications and information notes setting out guidance, is now available at <https://members.imca-int.com/documents/>

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:

- ◆ Add our new incident reporting address to your distribution lists and help make the industry safer see page 4
- ◆ Share your passion to help attract new recruits see page 4
- ◆ Contribute your feedback as the review of IMCA's diving equipment (DESIGN) guidance begins see page 11
- ◆ Submit your reports on DP incidents in 2007 to help make the analysis even more comprehensive see page 12
- ◆ Find out about how your company can support scientific research with the SERPENT project 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)

Not ‘The Industry Policeman’

IMCA is not a regulator, but questions received by the secretariat often indicate that some people think we are. Here are a few facts about IMCA to describe our position:

- ◆ IMCA publishes *good practice guidelines*
 - These are not standards, requirements or law, unless another party (a client or government) adopts them and demands compliance
 - They are internationally recognised ‘good’ practice in marine operations – not ‘best’ practice, which could be construed as being ‘gold plated’ or over-the-top
 - We encourage members, in every way we can, to comply with the guidelines
- ◆ Contractor (ICO and Co) members agree to be audited against these guidelines by clients. This is a powerful statement and an unusual position for our industry and trade associations
 - IMCA publishes a number of audit documents to supplement the guidelines. These help members check their own operations against the guidelines and can be used by clients and other agencies to complete their own audits
 - Using these materials and others, clients are responsible for ensuring that contractors deliver what is stated in the contract
- ◆ IMCA has published several factsheets (available on our websites) to explain these processes, including *What is a trade association?*, *Be an active member*, *Self-regulation* and *Avoiding incidents*.

IMCA material is aimed at improving safety and efficiency in all marine operations. It includes aspects on equipment, personnel and procedures. It encourages detailed planning, trials, audit, risk analysis, quality assurance, responsibility, training and the development of competence. The documents are for companies covering activities from conceptual design to completion and for employees from the boardroom to the afterdeck encouraging a responsible approach from each party to deliver small tasks or huge projects.

This relies on the published IMCA material being shared throughout the membership and on members sharing their experience with the secretariat and the committees to improve our material and add to our knowledge – be an active member.

The suite of IMCA material is a library of ‘knowledge’:

- ◆ knowledge aimed externally at government, media and the public
- ◆ knowledge aimed at members (good practice)
- ◆ emerging knowledge (research and innovation)
- ◆ sharing knowledge (training at all career stages, learning from one another through incident reporting and by participating in events)

It is critical that this knowledge is used now and in the future with the industry so busy and with so many new vessels and employees arriving.



Joe Turner 1919-2008

It is with great sadness that we report the passing of Joe Turner, who retired last year after 22 years working with AODC and IMCA.

Joe served the association loyally under three secretariat heads – Tom Hollobone, Tony Read and Hugh Williams – preparing packages of logbooks and IMCA publications for despatch to members around the world.

Joe was much loved and will be missed by his secretariat friends.

From the President



Demand for oil continues to exceed supply with a resultant increase in oil price. We increasingly hear that we are at, or are close to, ‘peak oil’.

For our industry, ‘peak oil’ necessitates working in ever more challenging environments: deeper water, Arctic climate and remote locations with little infrastructure, as well as high security risk locations.

Not good news for the planet, perhaps, but it does reinforce the sustainability of our industry at a high level for many years to come.

However, there is also some good news on the oil exploration side – news which at the present time comes mainly from Brazil. Brazil has always been an important country for our industry and it seems that its importance will only increase in the future. This aligns well with the effort IMCA is putting in to translate a number of our documents into Portuguese (as well as Spanish for other South American countries) in order to overcome the language barrier.

For IMCA to be better able to support its members where the activity is, the question arises as to whether Brazil and other South American countries should have a region of their own within the IMCA network. This topic is currently being debated.

The geopolitical barriers study which is ongoing in IMCA is approaching its conclusion and I am revealing no great secret when I say that there are many barriers. Over the coming quarters the report will be analysed and the intention is to add selected problem areas to the association’s long term objectives, for IMCA to influence these areas to the best of its ability in the direction of a more open market.

To conclude, there are two forthcoming events to look forward to on the IMCA calendar over the next two months. The IMCA Golf Day is taking place on 22 May (as we prepare to distribute this issue of *Making Waves*), while the Midsummer Charity Ball will take place this year at Castle Fraser in Aberdeenshire on 6 June. Recalling the spectacular success of last year’s ball, I feel confident in saying that it is an event which should not be missed.

Knut Boe, Technip
IMCA President 2007-8

News from IMCA's core activities – SEL and TCPC

An industry full of exciting opportunities

IMCA launches its new range of careers promotional materials, building on the *Open your horizons* theme, with a broad range of new and updated material as the association seeks to address the skills shortage.

One part of IMCA's work to address skills shortages being faced by members around the world has been to review, update and expand its careers promotional materials, aiming to attract new recruits into the industry.

Major steps have been taken in recent weeks and months to extend IMCA's array of material and to make it more appealing to those we seek to attract.

The first step came last year, with the *Open your horizons* brochure. This was well received by members and distributed widely to members and a variety of careers services all around the world. A poster version has also been made available.



Now our printed and online materials have undergone a makeover to reflect the horizons theme, with eye-catching photography used throughout. A web micro-site (www.imca-int.com/careers) added ahead of the main relaunch (see page 2) has

attracted much interest, with a CD version also distributed at recent events.

Finally, we are adding new factsheets and articles on a wider range of opportunities, from engineering to project management, together with additional in-depth features.

Share your passion

One of the new additions to our range of careers material is a selection of in-depth articles entitled "Passionate about ...".

In these, the authors describe a particular topic related to the industry that they are passionate about, with infectious enthusiasm and interesting facts helping draw readers in.

Current articles cover:

- ◆ cranes and offshore lifting
 - ◆ dynamic positioning
 - ◆ materials
 - ◆ offshore survey
 - ◆ ROVs
- with a diving feature planned.

If you feel you could describe your passion in an article for inclusion in this series, please e-mail Hugh.Williams@imca-int.com

Incident reporting

The annual safety statistics report and new website provide a timely opportunity to remind members of the ways they can help share information on incidents for the benefit of all.

- ◆ **Safety flashes** – sharing information on various incidents, near-misses and hazard observations to help avoid recurrences elsewhere in the industry
- ◆ **DP incident reporting** – enabling analysis of trends and common causes and subsequent work with vessel operators, manufacturers, training providers and others
- ◆ **Lifting incident reporting** – tackling incidents relating to cranes and offshore lifting in a similar manner
- ◆ **Security incidents** – discussion via the Security Task Force helps identify and share information on threats and to develop guidance on how they can be avoided
- ◆ **Un-minuted discussions** – sessions at regional section, committee and workgroup meetings enable free discussion and information sharing on safety-related issues

A new e-mail address – incidentreports@imca-int.com – has been set up, dedicated to these confidential reporting and analysis systems. All members are encouraged to add this address to their internal distribution lists for safety alerts and other related material.

An incident reporting hub will form part of the new websites at www.imca-int.com/incidentreports where full information on and reporting forms for these systems will be available.

IMCA addresses bed space concerns

Members continue to report what can be a significant barrier to introducing much-needed new personnel to the workforce – lack of bed space offshore.

While much of IMCA's efforts has been aimed at attracting new recruits, if there is not sufficient space for them to be able to join offshore teams, they will not have the opportunity to learn from such expertise and to progress to a level of individual knowledge, experience and competence necessary for them to work fully in their intended offshore roles.

It is thought that significant progress is possible by working together with clients to free up existing bed space and enable this wider introduction of trainee workers. IMCA is helping lead dialogue, through its corresponding membership and liaison with client organisations. Members are encouraged to repeat this message in their own discussions and to ensure it is raised at the relevant levels in their own organisations.

Updating basket transfer guidance

In 2001 IMCA, together with the North Sea Chapter of the International Association of Drilling Contractors, developed guidance on safe transfer of personnel offshore using baskets, published via information note IMCA SEL 08/01. This was particularly relevant for the region in light of regulatory requirements.

These regulatory requirements are currently being reviewed and IMCA is taking the opportunity to contribute and also to review its own guidance, both for the region and from an international perspective.

The SEL committee will be co-ordinating this review. Members wishing to contribute should contact Jane.Bugler@imca-int.com

Record input to IMCA safety statistics

A record 100 contractor members have contributed to the IMCA safety statistics exercise for 2007. This is an increase for the third successive year and almost double the number of contributors for 2005. The report on members' safety statistics, due shortly, will therefore reflect the safety performance of almost half the IMCA contractor membership.

Preliminary figures show that the overall lost time injury frequency rate (LTIFR) and the overall total recordable injury rate (TRIR) have risen slightly, although this is broadly a continuation of the overall 'flat-line' trend of recent years.

For the second year, further information has been collected on fatalities and the root causes of lost time incidents (LTIs). This shows that the most common root causes are 'slips, trips and falls' and 'struck by', with 'caught between' following a close third. The SEL committee will consider adding further categories to allow an even deeper analysis of the root causes.

An interesting breakdown by region is again available. For 2007 this shows that members in the Middle East & India Section had the lowest overall TRIR and LTIFR, while half of all contributors came from the Europe & Africa Section.

There is a changing demographic within the offshore industry, as the continuing skills shortage draws new and inexperienced people into marine contracting, so it is heartening that incident rates remain much lower than in previous years, but there is clearly more to do.

Following on from the discussion on fatal accidents at the safety seminar in Abu Dhabi in February this year, IMCA will be working closely with other trade associations to ensure that all fatal accidents in the industry are appropriately captured in safety statistics, with the primary aim of learning lessons from them to avoid further fatalities in the offshore workplace.

IMCA would like to thank all those who contributed statistics this year and would encourage all contractor members to take part. The more participants in this exercise, the more authoritative the results will be as an industry benchmark representing good safety practice.

IMCA logbooks flying off the shelves

In issue 46 we reported on two new logbooks – *Offshore Engineer* and *Offshore Manager* – that are now available.

These are already proving popular with contractors around the world as a means of recording working experience, training and competence assessments in a consistent, recognisable format.

The new books are adding further to the increasing workload of our publications team, with logbooks of all varieties being ordered in record quantities.

The full range now comprises:

- ◆ Crane operator
- ◆ Diver
- ◆ Diving inspection personnel
- ◆ Diving supervisor
- ◆ Dive technician
- ◆ Dynamic positioning
- ◆ Life support technician
- ◆ Offshore engineer
- ◆ Offshore manager
- ◆ ROV personnel
- ◆ Survey personnel

For more details on purchasing IMCA logbooks, please visit www.imca-int.com/publications

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Regional news

Americas Deepwater Section

The Americas Deepwater Section met on 2 April at Heerema's new offices near Houston Airport, where Alan Allred of Aker Marine Contractors officially took the chair. He was welcomed by Hugh Williams, who provided an update on IMCA's world-wide activities and thanked Roy Sijthoff for his considerable contribution as chairman for the previous four years.

Some 40 people attended especially to hear two guest speakers – Cesar Palagi of Petrobras America and Randy Perry of StatoilHydro. The speakers had been asked to describe their deepwater project challenges with an emphasis on the marine support which IMCA members provide.

Petrobras' Cascade and Chinook projects import their Brazilian experience of phased developments and deepwater fields. A number of Gulf of Mexico (GoM) 'firsts' include FPSO and shuttle tanker export, free-standing hybrid risers, subsea boosting and polyester moorings secured to 'torpedo' piles.

StatoilHydro is not currently a GoM operator, but has several assets and will also be developing, with others, innovative deepwater fields with floating platforms: two spars and a semi-submersible hull for Tahiti, Caesar, Tonga and Thunder Hawk respectively. Like Petrobras, Statoil brings international deepwater experience, as well as the necessary skills in explaining new concepts to all the parties, including government agencies.

Both presentations were high quality and very well received, drawing a number of questions and prompting good discussion.

The section is currently reviewing opportunities to develop the section, its meetings and membership further.

Americas in brief ... The SEL and TCPC sub-groups are in future to hold separate meetings, under the leadership of Wayne Seelbach (Helix) and Tony Greenwood (Cal Dive) to enable dedicated discussion of the issues relevant to each activity. More details on this and other sub-group developments in the next issue.

Asia-Pacific Section

The latest meeting of the Asia-Pacific Section took place on 27 March in Singapore, attracting a record 93 members and guests. The meeting agenda included the usual world-wide updates and discussion of matters of local interest, as well as presentations on diving bell doors, the Common Marine Inspection Document and ROV issues.

Members in the region have been actively involved in monitoring and providing feedback to legislative developments, notably in Australia. These include ongoing consultations on the National Offshore Petroleum Safety Authority (NOPSA), its fee charging regime, biofouling and other planned requirements.

The next section meeting is scheduled for 17 July in Indonesia.

Europe & Africa Section

The Europe & Africa Section has a new chairman and vice-chairman – Brian Leith of Acergy and Jim Sommerville of Fugro-Rovtech. Brian succeeds Ian Stevenson of Technip, who stood down after two years in the role.

Ian's final responsibility was to lead the section's March meeting alongside oi08 in

London, which attracted 25 attendees and included a presentation from Charles Bowen, Executive Director of the International Association of Oil & Gas Producers (OGP) on its work and possibilities for collaboration.

The day also saw a successful ROV seminar (see page 14) and drinks reception.

Middle East & India Section

Steve MacMillan has been re-elected unopposed as chairman of the Middle East & India Section – his fourth term in office. The section is holding its quarterly meeting in the UAE. This is to be followed by a briefing seminar in Mumbai, India, aimed at clients and prospective members, introducing IMCA, its role and activities and membership to a wider audience.



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Vicki Graham
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Adam Hugo
Support Services Manager

Nina Adams, Senior Administrator
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Parul Patel, Administrator
- seminars and committee meetings

Claudine Bleza, Administrator
- social events and exhibitions

Ann Barnatt, Administrator
- document production and member records

Jean Carmichael, Bookkeeper

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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

Knut Boe, Technip

IMCA Vice-President

Johan Rasmussen, Acergy

Hugh Williams, Chief Executive

Jane Bugler, Technical Director

Regional Section Chairmen

Americas Deepwater

Alan Allred, Aker Marine Contractors

Asia-Pacific

Andy Bolton, Technip Subsea 7 Asia Pacific

Europe & Africa

Brian Leith, Acergy

Middle East & India

Steve MacMillan, J Ray McDermott

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
Derek Beddows, Technip

Marine: Pete Somner, Technip
Pete Fougere, Transocean

Offshore Survey:

Will Primavesi, Saipem
Walter Steedman, Veripos

Remote Systems & ROV:

Neil Milne, Subsea 7

SEL Core Committee

Chairman: Wallace Robertson, Helix ESG

Vice-Chairman: Dave Forsyth, Bibby Offshore

Norman Smith, Acergy

Bart Westerhout, Allseas

Jos van der Horst, Heerema Marine Contractors

Mat Schreurs, Heerema Marine Contractors

Finn Brodersen, Maersk Supply Service

Sal Ruffino, Saipem

Alan Forsyth, Subsea 7

Allan Hannah, Technip

Bram Sluiskes, Van Oord

Foeke Tulner, Workshops Contractors

Americas: Wayne Seelbach, Helix ESG

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

Middle East & India: Mohamed Osman, Maridive

TCPC Core Committee

Chairman: John Greensmyth, Technip

Vice-Chairman: Mark Elder, Subsea 7

Jennifer Cook, 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

Diving Division Management Committee

Chairman: Alan Forsyth, Subsea 7

Vice-Chairman: Derek Beddows, Technip

Joar Gangenes, Acergy

Hans Berkhof, Bluestream

Alan Thomas, Cape Diving

Keith Noble, CUJEL

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: RP Singh, Sarku Engineering Services

Middle East & India: Steve MacMillan, J Ray McDermott

Marine Division MC

Chairman: Pete Somner, Technip

Vice-Chairman: Pete Fougere, Transocean

Arnfinn Vika, Acergy

Alan Allred, Aker Marine Contractors, Inc.

Mike Houdijk, Allseas

Anders Waage, DOF Management

Michiel Goedkoop, Heerema Marine Contractors

David Blencowe, Maersk Supply Service

Geir Karlsen, Subsea 7

Kjell Egil Helgøy, Teekay

Americas: Vacancy

Asia-Pacific: Andy Bolton, Technip Subsea 7 Asia Pacific

Middle East & India: Alan Adamson, MENAS

Offshore Survey Division MC

Chairman: Will Primavesi, Saipem

Vice-Chairman: Walter Steedman, Subsea 7/Veripos

Ray Morgan, Acergy

Stuart Reid, Andrews Survey

Perry Balls, DeepOcean

Simon Barrett, DOF Subsea

Ian McKenzie, Fugro Survey

Peter Thomas, Maritech

Brian Beard, Noordhoek Offshore

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

Remote Systems & ROV Division MC

Acting Chairman: Neil Milne

Colin Mackay, Acergy

Massimo Martini, DNT Offshore

Jim Mann, Fugro

John Davies, Global Marine Systems

Mike Arnold, Hallin Marine

David Rhodes, Integrated Subsea Services

Kevin Kerins, Oceaneering International, Inc.

Espen Ingebretsen, Oceaneering International

Mark Slessor, Saipem

John Pirie, Technip

Grant Cowie, TS Marine (Contracting)

Americas: Ian Edmonstone, Helix ESG

Asia-Pacific: Neil Forbes, Technip Subsea 7 Asia Pacific

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

Regional Section Vice-Chairmen

Americas: Tony Duncan, Acergy

Asia-Pacific: Mark Shepherd, Mermaid Offshore Services

Europe & Africa: Jim Sommerville, Fugro-Rovtech

Middle East & India: Vacancy

International Contractors

Aceryg

Allseas Group

Heerema Marine Contractors

Helix Energy Solutions Group

J Ray McDermott

Saipem

Subsea 7

Technip

Contractors

Abel
 Aceryg Asia Middle East
 Adams Offshore Services Ltd
 Ajang Shipping Sdn Bhd
 Aker Marine Contractors AS
 Aker Marine Contractors, Inc.
 Aker Oilfield Services
 Algosaihi Diving & Marine Services
 Allied Marine & Equipment Sdn Bhd
 AlMansoori Production Services LLC
 Andrews Survey
 Aqua Diving Services
 Arabian Gulf Mech. Svcs & Ctrg Co.
 Arena Sub srl
 ATCO Ports Mgt & Marine Svcs
 Atlantic Towing 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
 Canship Uglund Ltd
 Cape Diving
 Caspian Sea Oil Fleet (CSFOF)
 CCC (Underwater Engineering) SAL
 CDMS Ltd
 CDS Subsea Pte Ltd
 CH Offshore Ltd
 Clough Oil & Gas
 CNS International srl
 Coral Alliance Sdn Bhd
 CTC Marine Projects Ltd
 CUEL Ltd
 Dalgidj 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
 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
 GeoLab srl
 Global Industries Ltd
 Global Industries Ltd – Asia-Pacific
 Global Industries Ltd – ME & India
 Global Marine Systems Ltd
 GOGAS Gulf Oil and Gas LLC
 Great Offshore Ltd
 Greatship (India) Ltd
 Gulf Dredging & General Contracting
 Gulf Marine Services
 Gulf Offshore (North Sea) Ltd
 Gulmar Offshore Middle East LLC
 Halani Shipping Pvt Ltd
 Hallin Marine
 Halul Offshore Services Co.
 Harbor Star Shipping Services, Inc.
 HEISCO
 Horizon Survey Company (FZC)
 Hull Support Services Ltd
 Huta Marine Works Ltd
 Integrated Subsea Services Ltd
 Intl Marine Works - Alexandria
 Intl Naval Works - Abu Dhabi
 IRSHAD
 Island Offshore Management AS
 Jack-Up Barge BV
 Jumbo Offshore VoF
 Lamnalco Group
 PT Lancar Rejeki Berkat Jaya
 LD Travocean
 Louisiana Overseas Inc
 Maersk Supply Service
 Maridive & Oil Services (SAE)
 Maridive Offshore Projects
 Marine Consulting srl
 Marine Logistics Solutions (MarSol)
 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
 Nexans Norway AS - Energy Division
 NICO Middle East Ltd
 Noordhoek Offshore BV
 NOR Offshore Ltd
 Northern Marine Management Ltd
 NPCC Survey
 Ocean Works Asia Inc.
 Oceaneering International (UK)
 Oceaneering International Asia Pacific
 Oceaneering International Inc.
 Oceanteam 2000 Ltd
 Oceanteam Power & Umbilical Ltd
 Offshore Geo-Surveys Sdn Bhd
 Offshore Oil Eng. Co. Ltd (COOEC)
 Offshore Subsea Works Sdn Bhd
 Offshore Technology Solutions Ltd
 Olympic Shipping AS

OSM Schifffahrt GmbH & Cie KG
 OSM Ship Management AS
 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
 Pride International
 Prosafe Offshore Ltd
 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
 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 Intervention Technologies
 Subsea Petroleum Services
 Subtech (Pty) Ltd
 Superior Offshore International
 Switzer
 Swire Pacific Offshore Operations
 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
 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
 Vron Offshore Services BV
 VTT Maritime AS
 PT Wintermar
 Workshops Contractors BV
 Zakher Marine International

Suppliers

Suppliers of equipment

32Group Mid-Water LLC
 ABB Ltd
 Advanced Marine Pte Ltd
 PT Advanced Oil & Gas Consulting
 Air Products plc
 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
 Chesterfield Special Cylinders Ltd
 Clough Oil & Gas
 Comanex SAS
 Convertteam 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
 Franklin Offshore International Pte 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 Tecna spa
 Rolls-Royce Oy Ab
 Rolv Berg Drive AS
 ROV Supply 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
 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
 Trelleborg Protective Products AB
 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
 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
 CAPE Group Ltd
 C-MAR Services (UK) Ltd

Construction Specialists Ltd (CSL)
 DMC Offshore
 DOWC
 El-Automation AS
 Electrical Power Engineering Ltd
 Equinox Engineering & Installation Pty Ltd
 Falconer Bryan Pte Ltd
 Fender & Spill Response Services
 Franklin Offshore International Pte Ltd
 Global Maritime
 Goodrich, Riquelme y Asociados, AC
 GTC Group
 Houlder Insurance Services Ltd
 Imes Ltd
 Inchcape Shipping Services
 Independent Risk Solutions BV
 KB Associates Pte Ltd
 Lexmar Engineering Pte Ltd
 London Offshore Consultants Ltd
 Marex Marine Services Ltd
 Marine Cybernetics
 MJR Controls Ltd
 Modern Computing Services (MCS)
 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
 PML (Noble Denton Consultants Ltd)
 Promarine Ltd
 QinetiQ Ltd
 Reel Group Ltd
 Rolls-Royce Power Engineering plc
 Schilling Robotics LLC
 SeaSafe Pte Ltd
 Sebastian AS
 Skan-El Skipsprosjektering AS
 Sparrows Offshore Services Ltd
 Submec Offshore Pty Ltd
 Subsea Vision Ltd
 Thome Offshore Management Pte 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 International Services Group Ltd
 Centre for Marine Simulation
 CFO - Centro Formazione Offshore
 Commercial Diving Academy
 De Moura Shipping Ltda
 Delphinus Services - ROV Training
 Divers Academy International
 Divers Institute of Technology
 Diving Diseases Research Centre
 The DP Centre Singapore
 Falck Nutech bv
 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)
 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

Personnel agencies

Ace Diving Services CC
 ACSM
 Amberjack Oil & Gas Recruitment Svcs
 Aqua Omega Services Pvt Ltd
 Atlanta Ltd Maritime Agency
 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
 Oilfield Medics UK Ltd
 Petrolis SA
 PR Offshore Services Ltd
 Seatek India
 SubNet Services Ltd
 SubServPro
 Superior Subsea Personnel Services
 Total Marine Services
 UK Project Support Ltd
 Underwater Engineering Ltd

Naval units

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.
 Bapco - 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 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
 International Diving Schools Association
 Kuwait Oil Company
 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
 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
 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:

- ◆ **Abel**
- ◆ **ACSM**
- ◆ **AdriaMare Maritime Training Center**
 A provider of maritime and nautical training since 1989, AdriaMare became the first Nautical Institute-approved DP centre in Croatia earlier this year.
 Tel: +385 21 485 724 Web: www.adriamare.net
- ◆ **Air Products plc**
- ◆ **Aker Oilfield Services**
 A fully integrated provider of subsea services, ranging from installation and construction to advanced well intervention operations.
 Tel: +47 2308 4400 Web: www.akeroilfield.com
- ◆ **Atlanta Ltd Maritime Agency**
- ◆ **Balmoral Offshore Engineering**
 Designer and manufacturer of a wide range of buoyancy and elastomer products for use from surface to seabed.
 Tel: +44 (0) 1224 859 000 Web: www.balmoraloffshore.com
- ◆ **C&C Technologies**
- ◆ **C&M Group Ltd**
 A vessel operator providing engineering and floating accommodation solutions, with particular expertise in engineering in hazardous environments.
 Tel: +44 (0) 625 928 Web: www.c-m-group.com
- ◆ **Cal Dive International, Inc.**
- ◆ **CAPE Group Ltd**
- ◆ **CDS Subsea Pte Ltd**
 A Singapore-based contractor providing diving, project management and manpower services.
 Tel: +65 6581 5144
- ◆ **CNS International srl**
- ◆ **DCN Global LLC**
 A UAE-based contractor, building on over 50 years' experience in underwater construction operations of its Dutch parent company.
 Tel: +971 2 644 2335
- ◆ **Fender & Spill Response Services**
- ◆ **Global Gases South Africa (Pty) Ltd**
- ◆ **Greatship (India) Ltd**
- ◆ **International Diving Schools Association**
 The international trade association for diving schools, covering both offshore and inland/inshore diving, aiming to develop common international diving standards.
 Tel: +33 (0) 2 9773 7261 Web: www.idsaworldwide.org
- ◆ **Jack-Up Barge BV**
 A provider of jack-up barge services through a world-wide network with experience of civil construction, oil and gas, windmill and general marine activities.
 Tel: +31 (0) 184 420 091 Web: www.jackupbarge.com
- ◆ **KTL Offshore Pte Ltd**
- ◆ **Kystdesign AS**
- ◆ **Marex Marine Services Ltd**
- ◆ **Marine Solutions (Pty) Ltd**
- ◆ **Offshore Marine Management Ltd**
- ◆ **Oilexco North Sea Ltd**
 Part of the Canadian oil and gas exploration and production company Oilexco, responsible for its North Sea activities, including flagship fields Brenda and Nicol.
 Tel: +44 (0) 1224 618 900 Web: www.oilexco.com
- ◆ **Ras Laffan Industrial City**
- ◆ **Redaelli Tecna spa**
 Manufacturer of high-performance steel wire ropes for offshore cranes, providing a range of R&D, design, production and technical support services.
 Tel: +39 030 89171 Web: www.redaelli.com
- ◆ **Schilling Robotics Ltd**
- ◆ **Seascope Surveys Pte Ltd**
 An Asia-Pacific based provider of marine survey, positioning and subsea inspection services, specialising in support for DSVs, ROVs and offshore construction barges.
 Tel: +65 6501 0770 Web: www.seascopesurveys.com
- ◆ **Sparrows Offshore Services Ltd**
- ◆ **Submarine Manufacturing & Products Ltd**
- ◆ **Subocean Group Ltd**
- ◆ **Trelleborg Protective Products AB**
 Developer of advanced vulcanised rubber dry diving suits for 'serious diving activities' sold under the Viking and Hunter diving brands.
 Tel: +46 (0) 410 51 000 Web: www.vikingdiving.com
- ◆ **Underwater Technology Services (S) Pte Ltd**

Recent name changes

- ◆ Circle Technical Services is now *Proserv Abandonment & Decommissioning*
- ◆ CODERO is now part of *Caspian Sea Oil Fleet (CSOF)*
- ◆ GB Diving is now *SMIT Subsea Europe*
- ◆ National Polytechnic College of Engineering & Oceanengineering is now *National Polytechnic College of Science*
- ◆ Petroleum Developments Consultants is now *Equinox Engineering & Installation*
- ◆ Poseidon Maritime (UK) Ltd (PML) is now part of *Noble Denton Consultants Ltd*
- ◆ Superior Offshore International (SA) Pty Ltd is now *Subtech (Pty) Ltd*

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:

- ◆ **IMCA Document Register, Issue 2 – February 2008**
- ◆ **Proceedings of Safety Excellence in a Global Environment – IMCA safety seminar 2008**
- ◆ **Guidance on the use of chain lever hoists in the offshore subsea environment (IMCA D 028 Rev. 1)**
- ◆ **Guidelines for annual DP trials for DP mobile offshore drilling units (IMCA M 191)**
- ◆ **Station keeping incidents reported for 2006 (IMCA M 192)**

Safety flashes:

- ◆ **Safety flash 03/08** – covering 2 incidents: ROV pilot injured by fibre optic glass; Lifting incident
- ◆ **Safety flash 04/08** – covering 2 incidents: Unauthorised modification to electrical plant equipment; DDC chamber view-port catastrophic failure
- ◆ **Safety flash 05/08** – covering 2 incidents: Movement of vessel during crane operations caused near-miss; Report on the loss of the Bourbon Dolphin
- ◆ **Safety flash 06/08** – covering 1 incident: Sikorsky S76A+ and S76A++ helicopters
- ◆ **Safety flash 07/08** – covering 1 incident: Fatal accident in connection with the operation of an A-frame based launch and recovery system (LARS) used for ROV operations
- ◆ **Safety flash 08/08** – covering 3 incidents: Fall through open hatch in walkway; Near-miss involving knuckle boom crane – hydraulic pump selection; Partial parting of a bell main lift wire

Information notes:

Safety, Environment & Legislation (SEL)

- IMCA SEL 05/08 – Aviation security – passport requirement for the UK sector
- 06/08 Helideck perimeter safety nets – new guidance for the UK sector
- 07/08 International Maritime Organization (IMO) Code of Safety for Special Purpose Ships
- 08/08 Transportation Worker Identification Credential (TWIC) – Update 4

Training, Certification & Personnel Competence (TCPC)

- IMCA TCPC 03/08 – New logbooks for offshore managers and offshore engineers

Diving Division

- IMCA D 04/08 – New logbooks for offshore managers and offshore engineers
- 05/08 Implementation of DMAC 28 Rev. 1
- 06/08 DMAC statement on health surveillance of commercial divers
- 07/08 Revision of the United States Navy Diving Manual

Marine Division

- IMCA M 06/08 – IMO Sub-Committee on Ship Design and Equipment – 51st session
- 07/08 Completion of the common marine inspection document (CMID)
- 08/08 Aviation security – passport requirement in the UK sector
- 09/08 New logbooks for offshore managers and offshore engineers
- 10/08 Helideck perimeter safety nets – new guidance for the UK sector
- 11/08 IMO Code of Safety for Special Purpose Ships
- 12/08 Proposed IMCA Guidance on the design, selection, installation and use of uninterruptible power supplies (UPSs) onboard vessels

Offshore Survey Division

- IMCA S 02/08 – Election results: Offshore Survey Division Management Committee
- 03/08 New logbooks for offshore managers and offshore engineers

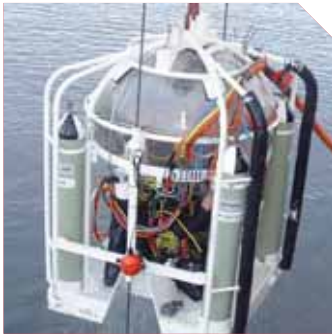
Remote Systems & ROV Division

- IMCA R 02/08 – New logbooks for offshore managers and offshore engineers

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

Diving Division



What's in a name?

When it's DESIGN, quite a bit, actually

A new Diving Division workgroup has been established to review the Diving Equipment Systems Inspection Guidance Notes (DESIGN) – a key element in IMCA's guidance on safe and efficient offshore diving operations

Since publication of the latest versions for air and bell systems (IMCA D 023/024) in 2000/1 and the subsequent volumes for mixed gas and mobile/portable surface supplied diving systems in 2006, feedback and queries have been received on technical issues which will be considered as part of this review, while other IMCA guidance has been produced or updated that will be reflected in revisions of each volume.

Another key aspect of feedback on the current guidance has been how it is interpreted by auditors and the possibilities for inconsistent approaches in undertaking audits using the DESIGN suite. To address this, IMCA D 011 – *Annual audit of diving systems on the UK continental shelf* – is to be completely revised as an internationally applicable document setting out guidance on the management of the DESIGN audit documents and on the competence of auditors.

One final piece of feedback actively being considered relates to the name, or more specifically its acronym. DESIGN is known to have caused confusion as to the purpose of this suite of documents and a new title – *Dive system assurance* – is being considered.

For more details on this work, including to provide feedback on the current DESIGN suite, please contact Paul.Evans@imca-int.com

Use of outer doors for saturation diving

The use of bell outer doors during saturation diving operations is being considered by a new IMCA workgroup.

The work has been prompted by communications to the effect that use of outer doors is expected by regulators for operations in certain sectors.

IMCA guidance covers the need for outer doors to be in place which are capable of providing a pressure seal against both internal and external pressure.

An information note is being prepared which will outline the risk assessment process which should be used when considering whether or not to utilise bell outer bottom doors. Its publication is expected later this year.

Lost bell survival – DVD guide available

A 'lost bell' diving incident is fortunately a rare occurrence, but one which is life-threatening for the divers concerned.

Previous experience tells us that the divers' chances of survival will be enhanced if the divers and their support crews know how to make effective use of the emergency survival equipment provided in each diving bell.

This knowledge requires training so that divers are familiar with the equipment and so that support crews recognise their role in deploying and maintaining an effective survival system.

IMCA and the UK Health & Safety Executive (HSE) came together in 1998 to produce the video '*Lost Bell Survival*' and an accompanying trainers' guide. Together they were designed to supplement in-house training for dive teams, dive supervisors, life

support technicians, maintenance personnel and diving school trainees, in use of the survival equipment provided in a diving bell or welding habitat.

Originally produced on VHS cassette, IMCA has now transferred the video to DVD to facilitate ongoing use with dive teams. The trainers' guide has also been put into the current IMCA publications format.

Diving Division members have been alerted to the availability of the video in this new format, with one copy available to each member free of charge and additional copies available for purchase by members and non-members alike. This has proved a popular initiative, with over 60 DVDs sent out in the first two weeks of availability.

For details on obtaining this DVD, contact publications@imca-int.com

Logbook sales soar

With global activity at record levels, increasing numbers are in need of logbooks and competence records – with the IMCA secretariat experiencing a surge in orders.

Indeed, such has been the growth that stocks have run low and the *Professional Diver's Logbook* reprint (incorporating a few changes to bring it into the current IMCA style) has come much sooner than expected, so please bear with us if there's a slight delay in fulfilling your order.

A closer analysis reveals that not only are more divers and companies ordering from areas where IMCA has historically been well known, but that orders and interest are increasing world-wide.

This confirms the ongoing global spread of IMCA and its guidance, as demonstrated through heightened awareness and use within oil and gas companies, the continued increase in membership and interest from countries until now not represented in IMCA.

In brief

Guidance on the use of chain lever hoists in the offshore subsea environment has been updated and reissued as IMCA D 028 Rev. 1. The new version reflects the experience gained by the industry and lessons learnt during investigations into lever hoist incidents over the past five years. In particular it contains a new section on the use of hoists underwater.

Other guidance currently under review includes:

- ◆ *Competence assurance and assessment tables* (IMCA C 003)
- ◆ *Use of high pressure water jetting equipment by divers* (AODC 049)
- ◆ *Protection of water intake points for diver safety* (AODC 055)

Contact Paul.Evans@imca-int.com for more information on this work.

Marine Division



Picking up the message – lifting communications

New guidance on operational communications in lifting operations has gone to press and will be available shortly as IMCA SEL 020/M 193.

Adding to the guidance on communications from bridge to dive control published in January 2005 (IMCA M 175), a colourful, illustrated format has been used for this new

document, including diagrams showing communication flows and systems.

Following a brief introduction and definition of key terms, general guidance is provided on communication aspects of lift planning (addressed in more detail in IMCA's *Guidelines for Lifting Operations* – IMCA SEL 019/M 187).

Various procedures are outlined, which members will be able to use to review and possibly enhance their own in-house documentation.

Use of hand signals, which have been found to vary in different industry sectors and different areas of the globe, is also covered in a dedicated section of the guidance.

Equipment relevant to various communications systems is addressed, as are elements of human-machine interaction.

The guidance is relevant to a variety of operations, including quayside, on-deck, subsea, between platform and ship, ship-to-ship, small craft launch and recovery and drilling operations.

New workgroups sharpen lifting focus

The Crane & Winch Operations Workgroup (COWW) continues to make good progress on its extensive work programme.

Since its establishment less than two years ago, the group has already produced the popular *Crane operator's logbook (for offshore vessels)*, the major *Guidelines on lifting operations* and the new operational communications guidance described above.

The group is now turning its attention to personnel competence issues, reviewing and enhancing the lifting-related parts of IMCA C 002 – *Competence assurance and assessment tables (Marine Division)*.

Crane testing

Guidance on crane testing is in development, intended to supplement the guidance on selection set out in IMCA M 171 – *Crane specification document* – to be updated and likely re-titled 'Guidance on crane selection'.

The new document will cover the range of testing required for the increasingly sophisticated cranes currently available and will effectively set out a basis for integrity management of cranes on vessels.

Heave compensation

A group has started work on the development of high level guidance relating to crane testing and to heave compensation.

The guidance will be aimed at those operating the diverse types of system on vessels currently being supplied. It will not be a detailed technical document, but instead is intended to be of practical use to those on deck who are confronted with a possibly complicated heave compensation system, giving practical operational guidance for the different types of system used on vessels in our industry.

For more details or to get involved in the COWW, please contact Philip.Wiggs@imca-int.com

Data sought on DP incidents

The report on dynamic positioning system station keeping incidents for 2006 – the seventeenth such report – has been published (IMCA M 192) and circulated to Marine Division members. As always, a copy has been provided for each vessel operated, with folders available for storage onboard, helping ensure this vital reference is available to all key DP personnel.

Preparation of the report on incidents which occurred in 2007 is underway, but IMCA is keen to encourage higher levels of reporting, to make the analysis as comprehensive as possible, thus identifying as many common factors – and being able to subsequently address them through dialogue with equipment manufacturers and training providers, development of new or updated guidance as required and other work items.

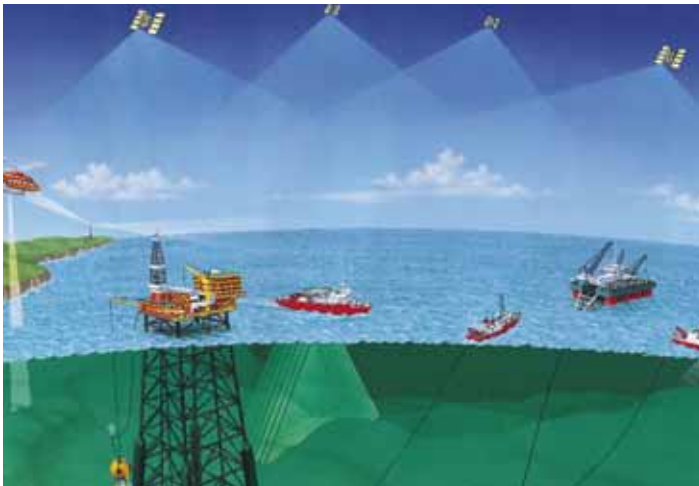
Please contact Ian.Giddings@imca-int.com for more information.

Updating of DP trials guidance

New guidance on a phased approach to annual DP trials for mobile offshore drilling units (MODUs) was published in February (IMCA M 191), prompted by a wish for trials common in other parts of the industry to be undertaken for drilling rigs, where the need for continuous operations could otherwise make them impractical if carried out all at once.

Updating of the general guidance on DP trials (I 12 UKOOA Pt 2 – to become IMCA M 190), maintaining the recommendation for trials for all other DP vessels to be undertaken during one single period (i.e. not a phased approach), is now in underway.

Offshore Survey Division



Progress continues on new survey guidance

Three new guidance documents are currently in preparation under the auspices of the Offshore Survey Division Management Committee.

Guidance on deepwater acoustics, prepared by consultant Gordon Johnston and a workgroup drawn from members of the committee, is approaching completion. It will be an authoritative document covering the general background and context of deepwater acoustics together with a detailed technical overview.

The thoroughness and quality of Gordon Johnston's work has resulted in a document containing a true wealth of information for those wishing to learn about deepwater acoustics today. In order to provide IMCA members with a manageable guidance document, some of this detailed material will form technical appendices to the main text.

The finalisation of the document is now well advanced, with publication anticipated mid-year.

Global navigation satellite systems are the focus of the two other documents, following a technical presentation and workshop at the 2006 IMCA annual seminar in Copenhagen.

One will provide guidance on GNSS installation, addressing the various requirements of such systems, including:

- ◆ hardware
- ◆ software
- ◆ correction systems and atmospheric conditions
- ◆ installation of antennae, cabling and other hardware
- ◆ ongoing maintenance.

It is intended as a guide to installation issues for all involved in the construction, chartering and operation of marine vessels.

This GNSS installation guidance is anticipated to be published during mid-2008.

Finally, a second GNSS guidance document is planned, covering specification of such systems.

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

Election results

The Offshore Survey Division Management Committee underwent its biennial election in March. Will Primavesi of Saipem and Walter Steedman (Veripos) were re-elected as chairman and vice-chairman respectively, with high levels of support for those previously on the committee, who have overseen recent expansion both in terms of the technical work programme and, reflecting the increased profile of the division, membership.

Simon Barrett of DOF Subsea UK is a new addition to the committee.

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Remote Systems & ROV Division



Dwight Howse of the Marine Institute, Newfoundland, addresses delegates at IMCA's ROV seminar at ExCeL.

Successful IMCA ROV seminar at OI

Over 120 delegates from around the world gathered at ExCeL in London on 12 March 2008 for *Developments in ROV Technology*, an IMCA ROV seminar held alongside the popular Oceanology International exhibition for the second time.

The seminar covered the latest developments and future predictions at the cutting edge of the industry, as operations move into ever deeper waters with rapid advancements in technology. Presentations included:

- ◆ Robotic convergence between ROVs and AUVs
- ◆ Motion forecasting for ROV work
- ◆ ROV DP: Where are we and where are we going?
- ◆ ROV operator training needs

A productive panel-led discussion followed, which addressed various issues raised in the presentations and identified future actions for IMCA before the event closed with a drinks reception. A CD of proceedings has been circulated to delegates and members and it is intended to hold another seminar at the next Oceanology event, in 2010.

SERPENT

The 2008 IMCA safety seminar in Abu Dhabi included a roundtable discussion session on SERPENT – the *Scientific and Environmental ROV Partnership using Existing iNdustry Technology*. This partnership includes some of the world's largest oil companies, universities and marine contractors together with other related organisations.

The programme aims to use high-tech oilfield equipment (ROVs) to capture material in its 'spare time' which may be useful to the research community. Especially in deep water and observational deployments, there may be spare time between operations when it is not feasible to recover the ROV. This time can be gainfully used to help research that could otherwise be very expensive to complete.

The concept of industry and academia sharing is a win-win situation. The academic world is the source of industry's next-year recruits, a formulator of opinion about what we do and the environment and a vital partner in continuing to push the frontiers of technology in our industry. We need to work together better and SERPENT is a great conduit. More collaborators and collaboration are encouraged.

The ROV is central to this work and, with IMCA members carrying out a very high percentage of ROV subsea time world-wide, members are asked to see how they might contribute. Visit www.serpentproject.com (which also includes amazing still and video photography) for further details.

Andrew Beveridge retires

Andrew Beveridge has retired from Fugro-Rovtech and his position as Chairman of the IMCA Remote Systems & ROV Division Management Committee. An election is underway to find his successor.

Andrew has played an important role in the recent significant growth of the division, both in terms of its technical work and membership, and our sincere thanks have been expressed to him.



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Spotlight on Alan Forsyth

Alan Forsyth is Director of HSE with Subsea 7 and serves as Chairman of the IMCA Diving Division Management Committee, a member of the Safety, Environment & Legislation Core Committee and a member of the Overall Management Committee too.

In this article, he discusses his 'day job' and provides a personal insight into the work the Diving Division is currently undertaking on behalf of members.

Tell us about your company

Subsea 7 is one of the world's leading subsea engineering and construction companies servicing the oil and gas industry.

Our skilled and experienced multinational workforce of over 5,000 onshore and offshore, supports operations in the North Sea, Africa, Brazil, Gulf of Mexico and Asia-Pacific regions.

We have a strong focus on the growing, high-tech and high-value deepwater subsea umbilical, riser, and flowline (SURF) sector; also retaining a leading role in the key North Sea and Asia-Pacific shallower water markets.

We also provide ROVs and tooling services to support E&P activities and precise navigation and positioning services.

What is your current job?

Director of Health, Safety and Environment working in support of our global and regional operations. I am also the technical authority for diving for our group world-wide.

How did you reach this point in your career?

On leaving college in 1982 I began my career in the diving industry with Wharton Williams (2W), where I trained in life support and worked offshore on vessels and barges across the globe. This was around the time the IMCA (then AODC) life support training and certification scheme was introduced and I was promoted to supervisor.

I contributed to the revision of the company's diving operations manuals and other projects for the safety department, leading to my involvement in a 450msw deep dive project funded by the UK government. On reflection, this was a turning point in my

career, taking me back onshore in the 2W engineering department and starting my long relationship with AODC and now IMCA.

In the early 90s, I moved into health and safety as Rockwater's UK HSE manager and have been managing health and safety and providing technical support to our diving operations ever since.

Along the way I studied for a Masters degree in Occupational Health & Safety at the Robens Institute, University of Surrey, under Professor David Elliott. This gave me insights into risk management that have enabled me to get to where I am today.

After a long history of developing guidance for the diving industry, is there more left to do?

Definitely. IMCA has a long history of developing good practice guidance that has helped to significantly improve safety in the global offshore diving industry. However, we are far from complacent – incidents still occur and we must do all we can to design risks out of our operations.

New equipment can help substantially in this regard, but at the same time can introduce new factors to be considered, so we must remain vigilant and continue to update and extend our guidance where appropriate.

Legislation is also important and IMCA provides a forum for sharing experience and expertise, keeping members up to date and joining in dialogue with regulators for our mutual benefit.

IMCA diving guidance is being adopted in ever more regions. Where are the next targets?

Our guidance is used to make a difference in most of the major regions of offshore activity, but

we do not yet have full coverage. We are currently working to translate key guidance documents into Portuguese and Spanish, which we hope will facilitate greater use in South America in particular.

This is an important step, while we continue to promote IMCA guidance and membership all over the globe. Recent briefing session locations include India, Norway, the UAE, Singapore, Australia and the UK.

What are the key issues affecting the industry at the moment?

We are facing a massive upturn in investment in both hardware and resource to meet current demands. Whilst this is good for us as an industry, we recognise that it introduces increasing levels of risk as we introduce more and more new personnel.

There is a danger that through the rapid growth of our industry we risk losing focus on some of the more fundamental standards that have provided the cornerstones for us to use in the management of our operational safety today. We have guidance published that is probably not as widely adopted in some regions as in others – a challenge that we need to continue focusing on.

How can they be addressed?

I don't see an easy quick fix for these issues, but there is a focus on the development of suitable guidance that will assist our contractor members in managing these risks.

One typical example that illustrates this perfectly is the use of the diving equipment systems inspection guidance notes (DESIGN), which help provide diving environments which meet the best guidance available. Today

we recognise DESIGN is not applied as rigidly as it should be and, to overcome this, we are refreshing the DESIGN suite to place emphasis on application and management of the process rather than the 'tick in the box' approach that is now prevalent. By improving our guidance and making it easy to translate we will help our members to identify and mitigate some of the risks in front of them.

How does IMCA make a difference?

IMCA is a very dynamic organisation that caters for a very diverse membership. What I believe contributes to the success of IMCA is the way this very diverse membership can use one common forum in which they can get advice and guidance on common issues, whether they be legislative or technical. The technical content and quality of documentation IMCA provides is excellent and I am pleased to see that it does get a truly global distribution.

Committees and workgroups involve members from all regions. Together with the strength of the secretariat, this allows IMCA to be recognised by our regulators and our clients alike and provides an unrivalled forum for addressing our industry's issues and challenges.

How do you see the future?

There are challenges ahead and as we move into more remote geographic locations we will no doubt be faced with new challenges too. However, the future is exciting and looks set to stay that way for some years to come. The level of investment today has never been seen before in our sector of industry and can only drive improvement.



Forthcoming events

- 21-22 May 2008
All Energy
Aberdeen, UK
- 22 May
IMCA Golf Day
Aberdeenshire, UK
- 6 June
IMCA Midsummer Ball
Aberdeenshire, UK
- 17 July
Asia-Pacific Section
Indonesia
- 26-29 August
ONS – Offshore Northern Seas
Stavanger, Norway
- 10-12 September
Deepwater Asia Pacific
Guangzhou, China
- 5-6 November
Global alignment in marine operations – IMCA annual seminar
Kuala Lumpur, Malaysia
- 31 March-2 April 2009
Ocean Business and
Offshore Survey 09
Southampton, UK
- 4-7 May
OTC
Houston, Texas, USA

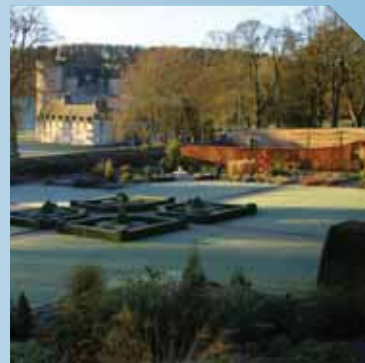
IMCA Midsummer Charity Ball 2008

Following the huge success of the 2007 event at Fyvie Castle, the 2008 ball will be held at Castle Fraser, Aberdeenshire, on **6 June**.

Once again, an exceptional National Trust for Scotland property set in stunning scenery will provide the backdrop for an elegant and engaging evening of sumptuous dining, traditional and more modern dancing and a variety of first-class entertainment.

Make sure you and your team are there to join us for what will be a truly great evening.

Full details and online registration available at www.imca-int.com/events



GLOBAL ALIGNMENT IN MARINE OPERATIONS

IMCA Annual Seminar 2008 5-6 November Kuala Lumpur, Malaysia

An interesting and varied programme for this year's annual seminar is being prepared, including:

- ◆ **Presentations**
 - Keynote session on the conference theme
 - Plenary sessions for all delegates
 - Parallel sessions for marine, diving and survey/ROV
- ◆ **Workshops**
 - A variety of discussion sessions dedicated to key issues facing the industry
- ◆ **Exhibition**
 - Supplier members of IMCA displaying their latest products and services
- ◆ **Social events and networking opportunities**



Third party IMCA-supported events are listed above in plain (not bold) text

For full details on forthcoming events, including downloadable brochures, online registration and a more detailed calendar, please visit the website:

www.imca-int.com/events

Booking due to open during June

Full details, including programme, hotel details and registration

www.imca-int.com/events