IMCA Offshore Survey Division Management Committee

IOGP/IMCA/THSiS Geomatics Industry Day
Weds 20 April 2016

www.imca-int.com
IMCA Offshore Survey Committee

• IMCA in brief
• IMCA update
• Offshore Survey committee
  – Who and where we are
  – What we do
• Technical guidance review
IMCA in brief – what do we do?

- International trade association representing companies that deliver offshore, marine and underwater solutions
  - Improving performance in the marine contracting industry
  - A secretariat supports global committees of members, which develop respected, usable good practice guidance
  - IMCA committees are elected
- What do IMCA members do?
  - Pipe-laying
  - Heavy lifting and installation
  - Decommissioning
  - Diving and dive support
  - ROV operations and ROV support
  - Offshore survey
  - Offshore construction – including wind turbines
  - Operation of specialist marine equipment
  - $150bn collectively worldwide
  - 350,000 employees
- Members ask: what does IMCA say?

www.imca-int.com
IMCA update

• New Chief Executive – Allen Leatt
• New Technical Director – Richard Benzie
• Renewed focus in a world of $40 oil
  – Relevant
  – Meaningful
  – Efficient
  – Fit for purpose
  – Cost-effective
• Reminder: IMCA Annual Seminar
  – London, 9-10 November
IMCA’s Offshore Survey Committee
Chairman: Mike Liddell, Fugro Survey

- Vice chairman: Dave Matthews, Technip
- Michiel van de Munt - Allseas
- Robin Longstaff – Bibby Offshore
- Norman Morrison – Deepocean
- Simon Barrett – DOF Subsea
- Andy Dare – Harkand
- Hans van Peet - Heerema Marine Contractors
- Sam Hanton – Proserv/Nautronix
- GianMaria Iacobone - Saipem
- Mike Clark - Subsea 7
- Ranald Blair - UTEC
  - Competence & Training: Dingena Theunisse, Atlas Professionals
  - Competence & Training: Julian Nelson/Simon Gray, Fugro Survey
  - Asia-Pacific: Jason French, Neptune Marine Services
  - Central & North America: Cory Goodyear, UTEC Survey Inc.
  - Middle East & India: Milind Abhyankar, McDermott International
  - South America: Tim Farrow, Fugro Brasil
Offshore Survey Committee

What we do

- Offshore and subsea surveying, positioning and inspection in all phases of offshore projects
- Shared use – the survey c’ttee is a link between different groups sharing equipment and space on a single vessel.
- Technical guidance
- Work closely with IMCA ROV C’ttee
- Standard contract for survey support services
- Personnel competence
Recently (re)published documents

- July 2015: IMCA S 003 rev 2
  Guidelines for the use of multibeam echosounders for offshore surveys
Recently (re)published documents

• October 2015: IMCA S 023 Guidelines on the shared use of sensors for survey and positioning purposes

• Replacing:
  – IMCA S 009 Guidelines for the shared use of DGPS for DP and survey operations
  – IMCA S 010 Guidelines for the shared use of sensors for DP and survey operations
Review and revision!
High priorities

- IMCA S 017 *Guidance on vessel USBL systems for use in offshore survey and positioning operations*
- IMCA S 021 *Guidelines for the management of peripheral survey sensors*
- IMCA S 013 *Deep water acoustic positioning*
- IMCA S 019 *Guidance on subsea metrology*
Subsea metrology – IMCA S 019

• Standardised or typical metrology bracket?
• New technologies
  – Inertial
  – Laser & Sonar Scanning Techniques
  – LiDAR Underwater Laser Metrology
  – Echoscope
  – Blueview
• Derivation of metrologies from point cloud data, typical accuracies to be considered
• Update to methodology for onshore Dimensional Control 3D Lasers
Review and revision!

continued

- IMCA S 012  *Guidelines on installation and maintenance of DGNSS-based positioning systems*
- IMCA S 016  *Mobilisation checklist for offshore survey operations*
- IMCA S 018  *Guidance on the selection of satellite positioning systems for offshore applications*
- IMCA S 011  *Considerations for the safe operations of autonomous underwater vehicles (AUVs)*
- IMCA S 007  *Terms and conditions for survey support services*
OOS – Guidance on “out of straightness” survey

- Vertical OOS
- Lateral OOS
- Currently available survey techniques
- The relation of OOS criteria vs survey accuracy
- De-spiking - filtering
- Error budgets
In conclusion…

• IMCA
  – Representing the collective interests of the members in offshore and related activities

• IMCA promotes close co-operation by interfacing with:
  – Oil & gas and other offshore operators
  – Governments and other regulatory bodies
  – Other trade associations

• Offshore Survey Division Management Committee
  – Respected technical guidance
  – Revision of that guidance ongoing to ensure that it reflects the needs of our members

• Thank you