

Summary from the Diving seminar in 2009.

- challenges and results

The Diving Seminar 16 – 17 November 2011

Presented by Arnfinn Anfindsen (Subsea7) and Cato Hordnes (Statoil)



The Diving seminar in Bergen - 2009

- Focused on diving as a global industry through the headline:
- What are the challenges and how can we all contribute to make it a safer and more efficient tool?
- The seminar consisted of 4 sessions:
- Session 1: Globalization within the diving industry and manned underwater operations
- Session 2: Recruitment and education
- Session 3: R&D and continuous improvement
- Session 4: Regulating the activities



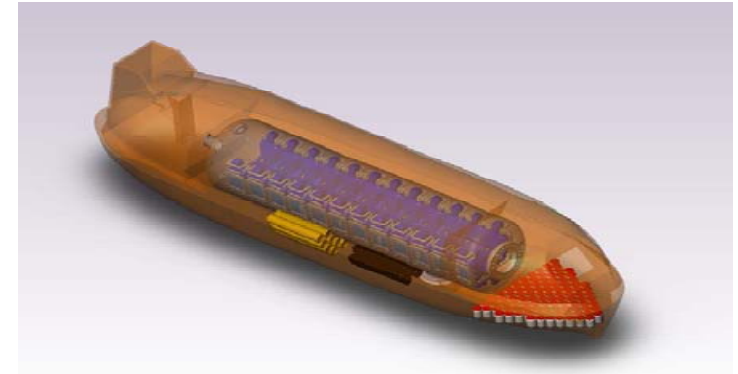


Shell

Session 1 Summarised by Nigel Lysby

1. An international solution to the process of hyperbaric evacuation
2. The introduction of new technology into the diving industry is moving faster than the development of rules, regulations and guidelines. How to tackle this challenge?
3. Can someone take the initiative to initiate and manage an “Open online College for exchange of experience and ideas” within the professional diving world?

Achievements' Session 1



1. - OGP, IMCA and ADC-int. have formed an international working group to make an industry standard and recommendations for reception facilities
 - Some contractors' have build portable HLB reception facilities and some operators requires reception facilities for sat. diving globally
2. - Industry have discussed handling of new technology, but no united approach established.
 - Some IMCA documentations are being revised (doc. D024 Design of saturation (Bell) Diving Systems – PLC control under development
3. - No commonly known united initiative taken
 - Some national initiatives from OLF (The Subsea Awareness & Training Portal - Subsea 1) and SINTEF (Diving Academy knowledge training)

Session 2 Summarised by Cato Hordnes



1. Competence within the diving industry – Not only for divers
 - Need focus also on support personnel such as diving supervisors, LST`s and diving superintendents as well as subsea engineers and client representatives
2. How to tackle the upcoming “generation change” both relating to age and to background?
3. How to safely transform a diver from newly educated/fresh from school to a competent member of a professional diving team?

Achievements' Session 2

1. - An international workgroup for use of simulators for training of diving supervisors and Life support personnel is established
 - IMCA requirement for qualifications being revised
 - ADC-int consensus document rev 6 implemented
2. - **No known united initiative** (except for the simulator work group)
 - Ongoing on an individual company basis
 - All contractors working independently , average age is still around 45 yrs for a sat diver and 37 for an air diver, 54 yrs for a Dive Supv, 50 yrs for LSS, LST 42 yrs.
3. - **No known united initiative**
 - Initiative worked on with each diving contractor
 - The diver training centres seek industrial support to overcome this problem



Session 3 Summarised by Ole Jan Iversen - NTNU in Trondheim

1. Hyperbaric research must open itself to other fields and research environments, and must take into use the common research platforms developed for all research.
2. Hyperbaric research must take into use methods and tools developed outside of the hyperbaric research environment
3. Hyperbaric research must seek to balance better between basic research and “problem solving research”.

Achievements' Session 3



1. - The voluntarily IMCA/OLF long term health surveillance program for divers has used international established solutions for the questioners'
 - Through the "competence program for Diving" , the scientist struggle with ear infection bacteria and have joined forces with clinical research at Haukeland university Hospital
2. - The PhD students in the same program are using new available methods at different universities
3. - **No known united initiative.**
 - Industry must specify more accurately what they see as a problem and more actively order "new" research.



Session 4 Summarised by Leif Tore Skjerven

1. We need a common international diving personnel competence standard and we need quality assurance of the schools involved.
2. Harmonization of rules, regulations and guidelines must be an aim for the industry. OGP was pointed out as the organization in the best position to bring this initiative forward.
3. Norway should focus on harmonization internally and get one set of rules and regulations, as well as coordinated supervision, for inshore and offshore diving

Achievements' Session 4



1. - See achievements' for session 2
2. - US Coast Guard joined OGP DOsC two days meetings in February establishing good relationships and common exchange understanding.
 - OGP diving recommended practice being actively implemented as minimum standard for members diving operations globally. OGP upcoming Diving safety workshop for inshore diving is one important step
3. - No known united initiative initiated between the different governing parties. However offshore and inshore regulations have been revised separately.
 - The diving industry initiated by OLF and Standard Norge have developed and implemented NORSOK U-103 for inshore oil and gas related diving.
 - Arbeidstilsynet (Ministry of Labour) still struggling to manage its role as the regulator for the inshore diving activity. Lack of recourses

Have we achieved anything at all?



- Offshore diving in the 21. century
 - A small step for a man – a giant leap for the mankind - with new technology flooding over us struggling to control it with the brain capacity of men in the 50's!
- The fact is yes we have achieved some over the last couple of years.
 - OGP DOsC has taken its role promoting harmony and corporation across borders and between Operators
 - IMCA and ADC-int. is working more together doing a good job to updating and harmonising guidelines with input from various industry expert workgroups
 - With the focus given to the Hyperbaric Evacuation process the last two years we believe a common minimum standard and operational requirements for reception facilities will be implemented.

Thank you

