



**IADC UBO & MPD
Committee Meeting
Houston TX**

**3rd Quarter Meeting
September 10-12 2013**

DAY 1 - Tuesday September 10th 2013

Welcome, Announcements & Safety Moment.

Mike Vander Staak welcomed the UBO-MPD committee, thanked IADC for hosting the meeting and Blade Energy Partners for sponsoring the coffee and lunches. Scott Maddox gave the group a safety orientation and reviewed emergency procedures.

Scott reviewed the IADC Anti-Trust Guidelines and expressed that the guidelines could be retrieved in their entirety from the IADC web site.

Mike encouraged the group to use the upcoming two days to populate the IADC committee and subcommittee web pages and add useful links. This portal is a key to successful outreach to the industry.

Mike then presented a safety moment on dropped objects engaging the audience to reflect on how to eliminate those drops incidents and change the mindset and the culture onboard our rigs. A fruitful discussion ensued in the room around drops survey, hazard hunts, design improvements (interlocks), dynamic drops, what if? way of thinking.

Mike also presented a second safety moment more personal where a teenager of a colleague injured himself at home with a knife. The knife got stuck while cutting a watermelon and bounced back hitting the kid on the head. Remain aware of hazards at home anywhere anytime.

Introduction of New Committee Members and Guests.

Each attendee gave an introduction including company name and work location. See Appendix 1 for the detailed list of the 41 attendees.

Review & Approval of 2Q13 Meeting Minutes.

Minutes were posted on the IADC committee webpage. Some changes that had been requested by committee members prior to the meeting have been incorporated. Minutes were reviewed by attendees during the morning session and breaks and approved after lunch.

Motion to approve raised by Sara Shayegi, seconded by Stuart Wilson, unanimously approved by the committee.

Subcommittee reports

Mike encouraged attendees to get involved in the various subcommittees and volunteer for chair and vice-chair roles to avoid one person assuming multiple roles. Nomination will take place in Q4 meeting for chairs and 2 vice chairs (one based in Europe and one based in US) for each sub-committee if possible.

• UBO Subcommittee – Martin Culen

92U discussion held in Q2 meeting. Operational matrix is with API pending review finalization. Next step is for the document to go to technical writer for final edition. Martin will follow up with David Pavel who is leading the API task group review.



• **MPD Subcommittee – John Kozicz**

Gas in riser session was organized. Riser gas handling is an issue with equipment being undersized in the industry at present in some instances.

- 92M Surface Back Pressure MPD update – Brian Grayson

Document has been transmitted to API. Next step: one diagram showing barriers needs to be improved John Kozicz explained the structure required for future MPD best practice documents between Constant Bottom Hole Pressure (CBHP), Riser Gas Handling (RGH) and Pressurized Mud Cap (PMCP).

Fig 1 below reflects that structure highlighting the need for additional CBHP Floating, RGH and PMDC Floating Best Practices document to be drafted, either as 1, 2 or 3 separate documents.

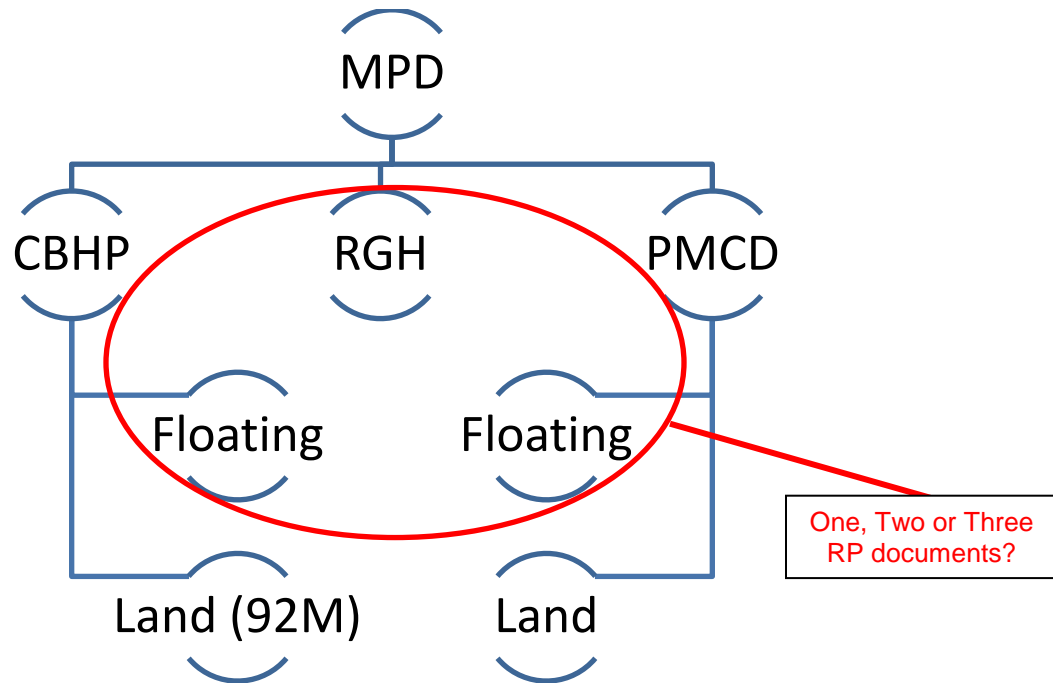


Fig 1 - Remaining MPD categories RP outstanding

- Constant Bottom Hole Pressure / Floating – Gavin Humphreys
Will get started during this committee meeting

- Pressurized Mud Cap Drilling / Floating – John Kozicz
Derivates from the CBHP floaters (same document or separate?)

- Riser Gas handling – John Kozicz
Needs to be addressed as well.

- Pressurized Mud Cap Drilling / Land or fixed platforms – Bob Goodwin
Bob Goodwin is leading the best practice project. Dennis Moore will help gathering a few people. John Kozicz volunteered to look at the marine aspects. Brian Grayson will be part of that group too.



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- **DGD Subcommittee – Frederic Jacquemin**

Building on the success of 2013 DGD seminar earlier in the year, discussion will be initiated this week on 2014 DGD seminar to be held in Madrid in April 2014. Format, sessions, speakers, suggestions will be discussed.

The DGD subcommittee now has an updated webpage on the IADC committee site, more educational material like material describing the four categories of Dual Gradient Drilling solutions, some drivers leading operators to need a DGD solution.

- **HSE Subcommittee – CJ Bernard (via email)**

No action to report from the HSE subcommittee

DNV drill and class report prepared ahead of Q4 meeting in Norway

- **Training Subcommittee – Martin Cullen**

Martin had a discussion with Brenda Kelly in San Antonio

Curriculum has been circulated within IADC. Action was taken to review status of document review in Frankfurt lead by Ryan, and Branda's recommendations from IADC. The review will happen over the morning of the final day.

- **Outreach Subcommittee – Brian Grayson and Dag Ove Molde**

Video posted on IADC committee website. Article to be published in Drillbits. Subcommittee need to update and improve material on their respective sections on the web page. Need to encourage the inclusion of videos and visual aids/diagrams on the web page rather than text.

- **Regulatory Liaison Subcommittee – George Medley and Per Cato Berg**

How to maximize our interaction with regulators like BSEE, publish communication process on our website, how can we help? What we need from them? The subcommittee will break out to establish a communication flow chart that will be published on the committee webpage.

Knowledge Skills and Abilities Project (KSAs) Presentation.

Brooke Comeaux – IADC presented the KSAs project. Core minimum accepted worldwide, will be released in October for 73 offshore positions vs 12 on current version (released 2001).

The KSAs do not prescribe how to assess each employee for competency, this is left to the individual companies using those KSAs.

The KSA participating companies will be mentioned on the IADC UBO / MPD web page so that committee participants can research who represents our company and engage them as to allow active UBD MPD participation in the KSA's/

KSAs will be released in English in phase 1 and several other languages in subsequent phases.

Document Status.

- Draft HSE Guidelines – CJ Bernard. No change
- MPD Best Practices – David Pavel. No change



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- API Spec 16 RCD – Martin Culen.

16RCD had editorial changes and was resubmitted to task group members for last review prior to clean up and API ballot. Next step is to develop operational guidelines for RCD with engagement from large number of end users of RCD vs equipment manufacturers.

- Update on 92M – Brian Grayson. No change

Report on DGD Breakout.

DGD subcommittee webpage was reviewed during the breakout and few improvements recommended:

- Bring the banner for the DGD workshop up top with highlights on the date
- Remove link for the 4 technology posters and replace by 4 poster icons to be clicked on
- Introduce better and rename the link for the Attributes Handout as a Comparison table between 4 technologies
- Add a line to welcome anybody interested in joining the DGD committee to contact the chairman

The subcommittee members reviewed agenda and lessons learned from 2013 DGD seminar in Houston and proposed a draft agenda for the 2014 DGD Seminar in Madrid April 7th 2014. Session titles, presentation topics and presenters were selected. Several people volunteered to act as followers during the DGD Seminar.

A lesson learned from the DGD Seminar in Milan 2012 was to group registration of the 1-day DGD seminar with the 2-day MPD workshop to facilitate communication to potential attendees and foster greater participation. This was communicated to IADC staff to arrange in the back office.

Representatives from the DGD sub-committee met with Leesa Teel - IADC to review the format, agenda and timeline for the DGD workshop.

The agreed DGD workshop timeline was:

- | | |
|---|--------------------------------|
| • Draft agenda to be established in Q3 committee meeting..... | Sep 10-12 2013 (<i>done</i>) |
| • Final agenda to be agreed in Q4 committee meeting..... | Dec 3-5 2013 |
| • Deadline for Speakers/Topics selection..... | Dec 7 th 2013 |
| • Conference Program Distribution via e-mail..... | Dec 15 th 2013 |
| • Speaker Notification & Conference Guidelines..... | Dec 15 th 2013 |
| • Conference Program Distribution via Post..... | Jan 6 th 2014 |
| • Deadline for Presentations & CVs..... | March 21 st 2014 |
| • DGD Workshop..... | April 7 th 2014 |

DAY 2 - Wednesday September 11th 2013

Safety moment of the day was a minute of silence to commemorate the 12th anniversary of Sep 11th 2001. Mike thanked again IADC for hosting in their facility and Blade for sponsoring coffee breaks and lunch.

DNV MPD certification



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Scott proposed that DNV makes a presentation to the committee in Q4 2013 meeting in Oslo. Committee discussed possible topics of interest for that presentation. Mike drafted a letter to DNV thanking them for their Q4 committee meeting sponsorship, requesting a copy of the document titled DNV-OS-E101-Drilling Plant sent to several operators, proposing a 30 min presentation followed by 30min Q&A and setting an expectation of DNV future engagement in this IADC committee

Iain Sneddon suggested to reach out to other classifications societies as well (ABS, Lloyds, BV) trying to engage them in 2014 and discuss their positions on this.

Alan Spackman, IADC Offshore Division was invited to the discussion and suggested that if this committee is interested in participating in the DNV project, nothing precludes that, and recommended to approach DNV either as an IADC committee or individually. DNV usually welcomes industry participation in their projects.

SPE Forum Series – MPD Niche Technology or the Future of Drilling?

Martin Culen presented the forum that will be held in Algarve Portugal 20-25 October 2013. Information and detailed agenda can be downloaded at:

http://www.spe.org/events/13fse5/documents/13FSE5_Brochure.pdf

If anybody is interested in attending, send an email to syoung@spe.org

RP for Air Drilling.

There were not enough representatives present in the committee to have a meaningful discussion on Air Drilling. This topic will be postponed to future committee meetings.

Review of Action Items from 2Q Meeting in Frankfurt, Germany

Action items included in the minutes of the Q2 committee were reviewed and updated. An action tracker has been created and a snapshot of that action tracker will be added to every committee meeting minutes (See Appendix 2)

Mike, as committee chairman will be the owner of the action tracker.

2013/2014 Meeting Plans, Locations and Sponsors

4Q 2013 – December 3-5 confirmed in Oslo, Norway. Sponsored by DNV. The sponsor information will be updated on the IADC web page as well as Hotel information as soon as possible to allow for travel plans to be made.

1Q 2014 – February 11-13 confirmed in Houston, Texas at IADC office, sponsored by Weatherford or Maersk. Maersk offered up their location at 2500 Citywest Suite 100 Houston, Texas 77042

2Q 2014 - April 10-11 confirmed in Madrid, Spain. Sponsored by Repsol or MPO? (tied with DGD April 7, MPD April 8-9). Room block is available on IADC website until March 7th 2014.

3Q 2014 – September **??** confirmed in Bergen, Norway. Sponsored by AGR (tied with DGD ATW)

4Q 2014 – December **??** to be confirmed in New Orleans, Louisiana. Sponsored by Shell



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2015-2016 MPD/UBO and DGD Workshops location

The committee discussed the benefits and disadvantages of combining timing and location of the 1-day DGD Workshop with the 2-day UBO/MPD conference like Milan 2012 and Madrid 2014, or have them separate keeping with the DGD workshop aligned with OTC (Houston 2011 and 2013). The committee agreed to combine the events in 2015 and 2016.

Locations suggested for a vote to occur in Q4 meeting

- Calgary, Canada,
- Dubai, EAU
- Kuala Lumpur, Malaysia.
- New Orleans, USA.

2014 MPD/UBO Conference Paper Selection – Leesa Teel IADC

74 abstracts were received and ranked by the conference selection committee ahead of the meeting. About half of those abstracts will submit an SPE paper. A third of the papers had no relation to UBO/MPD topic and got eliminated. A third had an average ranking above 3 out of 4. The selection committee met and selected the 20 highest ranked papers. The selection committee proposed some keynote speakers and agreed on a panel sessions on training/competency. Presentations will be submitted for review to respective session chairs to ensure quality control, topic match with abstract and no commercialism.

MPD 101

It was suggested that a MPD 101 document be published on the IADC website and a link posted on the conference website that each presenter could refer too. It could also be a poster session.

Report on MPD CBHP / PMCD Floating Breakout

John Kozicz led the preparation of a first draft of a Recommended Practice document for Constant BHP Floating / PMCD. The outline was worked out during the breakout session and people nominated to draft a first pas of respective sections of the document ahead of the Q4 meeting.

DAY 3 – Thursday September 12th 2013

Mike welcomed the committee for the last day of the Q3 meeting and thanked again IADC for the venue and Blade for the catering.

Roy Long presented a safety moment quoting the book “Deep Survival” by Gonzales. Tendencies are based on both our long term memory experience and our short term cognition skills. Important to remember those cognition skills to always be aware of our surroundings and not get carried away.

Mike presented another safety moment on teaching his kids to wear helmets on anything with wheels, using a real life situation when a helmet saved the life of a family friend kid involved in a car accident.

Report on Regulatory Liaison

Roy presented the BSEE MPD Guidance flowchart drafted by George Medley. Recommendation was made to polish the flowchart and replace BSEE Mike Connor’s contact information with George Medley’s contact information from the committee prior to posting on the webpage.

Review interfaces and work already done within other IADC committees (HSE, offshore, onshore...) to ensure this subcommittee does not reinvent the wheel.



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Nominations for 2014 subcommittees

Stuart Wilson made a motion to have subcommittee chair and vice-chair elected for a one year term (a nominee becomes vice-chair for a year then chair the next year). Seconded by Iain Sneddon and approved unanimously by the committee.

Motion made by Iain Sneddon, seconded by Sara Shayegi to nominate once for both chair and vice chair of the UBO subcommittee. 1st voted will become chairman, 2nd will become vice-chair. All in favor.

Motion made by Frederic Jacquemin, seconded by Sara Shayegi to combine HSE and Training subcommittee. 15 votes for, 4 votes against, 1 abstention. This decision can be reconsidered in 2014 by the Training-HSE subcommittee chairman.

Motion made by Iain Sneddon, seconded by Sara Shayegi to role the regulatory liaison into the Outreach subcommittee.

Ballots will be sent with all nominees for vice-chair (one company one vote) for election in Q4 committee.

UBO subcommittee: Dennis Moore, Isabel Poletzky, Mohamed Sati

MPD subcommittee: John Kozicz, David Pavel, Per Cato Berg, Oscar Gabaldon, Dennis Moore

DGD subcommittee: Iain Sneddon, Dale Straub, Jim Dech, Dag Ove Molde

Training-HSE subcommittee: CJ Bernard, Ryan Haggins, Isabel Poletzky, Oscar Gabaldon, George Medley

Outreach subcommittee: Bryan Grayson, Mike Vander Staak, Emad Bakri

MPD-UBO committee: John Kozicz, Ray Bullock, David Pavel, Per Cato Berg

Report on 16 RCD Breakout

Martin Culen reported on the ongoing revamping effort and editing of the API 16 RCD. Goal is to avoid a necessary recertification of manufacturers currently certified against 16 RCD. Document edits are complete and will be submitted to API for ballot on this rev 2 of the 16RCD document. Current document is pending revalidation (one negative ballot).

It was recognized that there is a need to provide operational guidelines that are not included in the manufacturing standard for specific operations like HP/HT for instance.

For this operational guidelines effort to be meaningful it is essential to reach out to end users of RCDs rather than equipment manufacturers. The RCD end user client list has been updated with individual point of contacts for the respective companies.

New Standard for Continuous Circulation

A motion was raised to further investigate the committee's involvement in a new standard for Continuous Circulation equipment. Initiated by Jim Dech, seconded by Wade Cornelson. Unanimous vote.



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Adjournment:

Meeting was adjourned at 12:00pm.

Appendix 1: Attendees List

#	Name		Company Name
1	James	Dech	AGR Enhanced Drilling
2	Martin	Culen	Blade Energy
3	Oscar	Gabaldon	Blade Energy
4	Lei	Zhou	BP America
5	Stuart	Butler	Canrig Drilling Technology LTD
6	Dale	Straub	Chevron
7	Roy	Long	DOE/NETL Houston
8	Isabel	Poletzky	Halliburton
9	Raymond	Bullock	Halliburton
10	Mike	Vander Staak	Hess
11	Scott	Maddox	IADC
12	Christopher	Goetz	Kingston Systems
13	Juan	Munoz	Maersk Oil
14	Dennis	Moore	Marathon Oil Company
15	Charles	Kamps	M-I Swaco / Schlumberger
16	Jaye	Shelton	M-I Swaco / Schlumberger
17	Juan	Beltran	M-I Swaco / Schlumberger
18	Bastiaan	Liezenberg	M-I Swaco/ Schlumberger
19	Shantur	Tapar	National Oilwell Varco
20	Daan	Veeningen	National Oilwell Varco
21	Frederic	Jacquemin	Pacific Drilling
22	Cris	Braun	Pruitt Tool & Supply Co
23	Ken	Downs	Pruitt Tool & Supply Co
24	Shawn	McBride	Pruitt Tool & Supply Co
25	Sara	Shayegi	Shell



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26	Tom	Askeland	Siem Wis
27	Harry	Bolle	Siem Wis
28	Kent	Fortney	Signa Engineering
29	George	Medley	Signa Engineering
30	Sagar	Nauduri	Signa Engineering
31	Dag Ove	Molde	Statoil
32	Per Cato	Berg	Statoil
33	Stewart	Wilson	Strata Energy Services Inc
34	Emad	Bakri	Total
35	Wade	Cornelson	Transocean
36	Iain	Sneddon	Transocean
37	John	Kozicz	Transocean
38	Brian	Grayson	Weatherford
39	Thomas	Bailey	Weatherford
40	Mohamed	Sati	Weatherford
41	James	Chambers	Weatherford



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Appendix 2: Action Item Tracker snapshot as of Sep 12th 2013

Item No.	Action Party	Issue	Action	Initiation Date	Desired Completion Date
1	J Kozicz	DNV / IADC Committee coordination to address SME input to DNV standards	Follow up with TransOcean staff who correspond with DNV to find	10/Sep/13	1-Dec-13
2	M Culen	92U status - Next step is to send document through a technical writer.	Contact D Pavel about status of document	10-Sep-13	1-Dec-13
3	M Vanderstaak	PMCD Best Practices	Contact Bob on PMCD Subsea stack work.	6-Jun-13	1-Dec-13
4	M Culen	16RCD End User list	Complete the list	6-Jun-13	1-Dec-13
5	M Vanderstaak	Write news articles/subcommittee updates for IADC DrillBits magazine.	Chase SC chairs for updates.	6-Jun-13	1-Dec-13
6	M Vanderstaak	Content required for SC web pages.	Chase SC chairs for updates.	6-Jun-13	1-Dec-13
7	M Vanderstaak		Reach out to Air Drilling contractors for inclusion in committee	6-Jun-13	1-Dec-13
8	M Culen	CBHP Best Practices Document	Send sanitized riser tension curve to Sara	12-Sep-13	1-Dec-13
9	B Grayson	The role of the outreach committee seems to be ill defined.	Develop a mission statement for the Outreach subcommittee	12-Sep-13	1-Dec-13
10	L Teele	Registration for DGD workshop and UBO/MPD conference	Combine two events into one registration with a la carte booking for one or both events	11-Sep-13	1-Nov-13