


|   |  |  |
|---|--|--|
|  | <p style="text-align: center;"><b>IADC UBO &amp; MPD<br/>Committee Meeting<br/>MOM</b></p> | <p style="text-align: center;"><b>2nd Quarter Meeting<br/>April 14-15 2016<br/>Houston</b></p> |
|---|--|--|

**DAY 1 – Thursday April 14th**

**Welcome, Announcements & Safety Moment**

Per Cato Berg welcomed the UBO-MPD committee and thanked Halliburton for sponsoring the meeting.

Leesa Teel gave a short safety information and information about IADC antitrust policy. The guidelines can be retrieved in their entirety from the IADC web site.

Introduction of Committee Members and Guests. The group was asked to introduce itself. Each attendee gave an introduction including company name and work location. See Appendix 1 for the detailed list of the attendees.

Dag Vavik appointed to be a minute taker.

Martin Culin gave the Safety moment.

Leesa Teel encouraged:

- All who attended the conference in Galveston to answer the survey send out to all attendees. (213 attendees).
- If you have changed company, you should inform IADC to update contact info.

**Q1.16 Meeting Minutes – Review**

Per Cato went through the MOM from the 1<sup>st</sup> quarter meeting. The minutes have been distributed earlier, and no comments received. The minutes are approved.


**Discussed Meeting and conference schedule**

**2016 Committee Meeting Destination**

| <b>Quarter</b> | <b>Date</b>                 | <b>Location</b>                                  | <b>Sponsor</b> |
|----------------|-----------------------------|--|----------------|
| Q2             | April 14 - 15               | <b>Houston</b> IADC (after Galveston conference) | Halliburton    |
| Q3             | August 23 - 25              | <b>Houston</b> & London (by video)               | MPO            |
| Q4             | November 29 – 1<br>December | <b>Milan</b> & Houston (by video)                | Saipem         |

Q3 is confirmed in Houston (MPO to decide 2<sup>nd</sup> location (London or Oslo). The paper selection meeting will be in the Q3 meeting.

Q4 Ocean Rig needs to re-confirm Q4 meeting (within 1 month). IADC office in Houston will be booked for back-up.

|   |  |  |
|---|--|--|
|  | <p style="text-align: center;"><b>IADC UBO &amp; MPD<br/>Committee Meeting<br/>MOM</b></p> | <p style="text-align: center;"><b>2nd Quarter Meeting<br/>April 14-15 2016<br/>Houston</b></p> |
|---|--|--|

**2017** Committee Meeting Destination.

| <b>Quarter</b> | <b>Date</b>   | <b>Location</b> | <b>Sponser</b> |
|----------------|---------------|-----------------|----------------|
| Q1             | March 30 - 31 | Rio de Janeiro  | ??             |
| Q2             | June 6-8      | Houston         | Blade?         |
| Q3             | August        | ?               | ?              |
| Q4             | December      | ?               | ?              |

Blade (Martin Culen) will check whether they can host the Q2 meeting at their offices in Houston.

**2018 Conference location was briefly discussed.**

### Subcommittee reports

#### **MPD – John Kozicz/Christian Stridsklev**

Per Cato went through the status of the documents;


- Surface Backpressure - Surface BOP (92M)  
Comments after ballot are processed and submitted to API. API has updated document. The committee has suggested some further updates but left it to API to evaluate which updates can be implemented without delaying issuing of the document  
Roland Goodman informed that the normative references are only used when the document are required to be used (*shall*). He will remove the Normative references in both 92M & 92P.
- PMCD - Subsea BOP (92P)  
Revised in September and sent to API. API has formatted the document and sent it back to committee with some questions which we have processed. API hope to get this out for ballot next month.
- Surface Backpressure - Subsea BOP (92S)  
The document was distributed to the group for comments (IADC internal), 531 comments were made. There are still 150 comments left that needs to be processed. The MPD task group will be concentrating on processing comments during their breakout sessions.

#### **UBO – Mike Vander Staak and/or Dennis Moore**

No work has been done since last meeting. The SBP documents have been priority.

#### **DGD – Børre Fossli (Dale Straub not present)**

Work started to prepare a draft for Controlled Mud Level (CML) MPD RP. The intention is to have a break-out sessions during this meeting.

|   |  |  |
|---|--|--|
|  | <p style="text-align: center;"><b>IADC UBO &amp; MPD<br/>Committee Meeting<br/>MOM</b></p> | <p style="text-align: center;"><b>2nd Quarter Meeting<br/>April 14-15 2016<br/>Houston</b></p> |
|---|--|--|

**Regulatory liaison - Earl Dietrich (not present).**

New guidelines/rules have been issued by BSSE (safe drilling margin, etc), that might influence MPD operation. At the moment MPD & UBO needs exception that will be handled case by case. The committee will not do anything at the moment.

**Well Control Liaison – Paul Sonneman**

In the Q4 meeting the committee decided to hand over the “Gas in riser” document over to the IADC Well Control committee. Paul Sonnemann has handed this over in the last well control committee meeting, however it is uncertain if they will start working on the proposed document. Suggestion is that we could take the work on the “Gas in riser” document back to the committee. Work on this will need to be prioritized with other work the committee has taken on. Proposal is that Well Control liaison (Steve Kropla) should talk to Paul Sonnemann and/or Robert Ziegler to agree the way going forward.

**Certifying Authority Liaison – CJ Bernard (not present)**

ABS issued the final draft MPD document on march 28<sup>th</sup> MPD for comment. Comment should be sent by next Friday (April 22<sup>nd</sup>). ABS plan to issue the document soon (after having a meeting in Houston to discuss final comments).

**API 16RCD – Martin Culen**

Working on “Operational testing standard” for RCD. It will be addendum to API 16RCD.

**HSE / Training Subcommittee – Oscar Gabaldon and/or George Medley (not present)**

Oscar informed that they aim to send out the updated MPD training curriculum to the committee before the Q3 meeting.

**Any Other Topics**


- Antonio Torrealba gave a short summary of status of work in the subcommittee. A document called “Underbalanced Drilling and Managed Pressure Drilling Operations Using Jointed Pipe” (An Industry Recommended Practice (IRP) for the Canadian Oil and Gas Industry), has been updated. Proposal to appoint a liaison to follow up this Canadian work.
- Seadrill wants volunteers for JIP on Risk assessment for tripping with closed ram. Contact person in Seadrill is Jay Lancaster: [jay.lancaster@seadrill.com](mailto:jay.lancaster@seadrill.com)

**Breakout sessions**

Working sessions covering:

- MPD sub committee will review reminding comment on Subsea BOP – Surface Backpressure - MPD Document 92S.
- API 16 RCD task group will review “Operational testing standard”
- DGD breakout session on CML.

**Lunch** - Sponsored by Halliburton.

|   |  |  |
|---|--|--|
|  | <p style="text-align: center;"><b>IADC UBO &amp; MPD<br/>Committee Meeting<br/>MOM</b></p> | <p style="text-align: center;"><b>2nd Quarter Meeting<br/>April 14-15 2016<br/>Houston</b></p> |
|---|--|--|

## DAY 2 – Friday April 15th

Per Cato Berg welcomed the UBO-MPD committee to the 2<sup>nd</sup> day and thanked Halliburton for sponsoring the meeting again.

### UBO-MPD Training Curriculum Review

Mark Denkowski of the IADC presented the Wellsharp program and the focus was the development of MPD and UBO training curriculum.

**Action:** The HSE & Training sub-committee (Oscar Gabaldon) to discuss internally, and with IADC, and report their recommendation back to the committee in the Q3 meeting.

### Summary of yesterday's breakout sessions:

#### MPD subcommittee:

Processed 59 comments to the Surface back-pressure-Subsea BOP document.

#### DGD subcommittee:

Discussed the draft CML RP and the way forward with the document. The sub-committee plans to perform Drill Well On Paper exercise on simulator in the Q3 meeting.

**Action:** Børre Fossli will distribute the first draft to the sub-committee within 3 weeks.

#### API 16RCD task group:

Worked on answering questions received from API regarding edition 2 of API 16RCD

12:00 – 13:00 **Lunch – Sponsored by Halliburton**


### Breakout session cont.

#### MPD subcommittee:

- MPD subcommittee completed the review of the comments on Surface Backpressure - Subsea BOP Document.
  - Action:** Dennis Moore to send update of drawing of MPD rig up (ship's hull) – Figure 3 to Per Cato.
- **Action:** Per Cato to implement the remaining processed comments and send the document to Roland Goodman who will start the API formatting.

#### API 16RCD task group:

API 16 RCD task group answered questions from API regarding edition 2 of API 16RCD and then continued working on the "Operational testing standard".

|   |  |  |
|---|--|--|
|  | <p style="text-align: center;"><b>IADC UBO &amp; MPD<br/>Committee Meeting<br/>MOM</b></p> | <p style="text-align: center;"><b>2nd Quarter Meeting<br/>April 14-15 2016<br/>Houston</b></p> |
|---|--|--|

Per Cato thanked Halliburton for arranging and sponsoring the meeting, and adjourned the meeting.

**Attendance:**

|               |              |   |
|---------------|--------------|---|
| Jay           | Bruton       | <b>AMERICAN BUREAU OF SHIPPING</b>                          |
| Sohail        | Mohammed     | <b>AMERICAN BUREAU OF SHIPPING</b>                          |
| Roland        | Goodman      | <b>AMERICAN PETROLEUM INSTITUTE</b>                         |
| Martin        | Culen        | <b>BLADE ENERGY PARTNERS</b>                                |
| Oscar         | Gabaldon     | <b>BLADE ENERGY PARTNERS</b>                                |
| Chris         | Scarborough  | <b>BP</b>   |
| Calvin        | Holt         | <b>CHEVRON</b>  |
| Conway        | Reimer       | <b>CONOCOPHILLIPS</b>                                       |
| Jeff          | Graybeal     | <b>DIAMOND OFFSHORE DRILLING, INC.</b>                      |
| Joao          | Mayrink Dias | <b>DIAMOND OFFSHORE DRILLING, INC.</b>                      |
| Terry         | Triche       | <b>DIAMOND OFFSHORE DRILLING, INC.</b>                      |
| John          | Cohen        | <b>ENHANCED DRILLING</b>                                    |
| Borre         | Fossli       | <b>ENHANCED DRILLING</b>                                    |
| Per Christian | Stenshorne   | <b>ENHANCED DRILLING</b>                                    |
| Dag           | Vavik        | <b>FUTURE WELL CONTROL AS</b>                               |
| Paul          | Spriggs      | <b>GRASS SKIRT OILFIELD CONSULTING</b>                      |
| Joseph        | Karigan      | <b>HALLIBURTON ENERGY SERVICES</b>                          |
| Mike          | Vander Staak | <b>HESS CORPORATION</b>                                     |
| Leesa         | Teel         | <b>IADC</b>   |
| Keith         | Kaase        | <b>LLOYD'S REGISTER DRILLING<br/>INTEGRITY SERVICES INC</b> |
| Andrew        | McNeill      | <b>MANAGED PRESSURE OPERATIONS</b>                          |
| Dennis        | Moore        | <b>MARATHON OIL COMPANY</b>                                 |
| Christian     | Stridsklev   | <b>NATIONAL OILWELL VARCO</b>                               |
| George        | Tisdale      | <b>NATIONAL OILWELL VARCO</b>                               |
| Sigbjorn      | Sangesland   | <b>NORWEGIAN UNIVERISTY OF<br/>SCIENCE &amp; TECHNOLOGY</b> |
| Jon           | Thain        | <b>OCEAN RIG MANAGEMENT INC</b>                             |
| Andre         | Fernandes    | <b>PETROBRAS</b>  |



**IADC UBO & MPD  
Committee Meeting  
MOM**

**2nd Quarter Meeting  
April 14-15 2016  
Houston**

|          |           |   |
|----------|-----------|---|
| Micah    | Spahn     | <b>PRUITT TOOL &amp; SUPPLY</b>                               |
| Jose     | Torrealba | <b>REFORM ENERGY SERVICES CORP</b>                            |
| David    | Postel    | <b>REGIONAL MARINE &amp; ENGINEERING<br/>SERVICES PTE LTD</b> |
| Paul     | Sonnemann | <b>SAFEKICK</b>   |
| Juan     | Beltran   | <b>SCHLUMBERGER</b>   |
| Sara     | Shayegi   | <b>SHELL INTERNATIONAL<br/>EXPLORATION &amp; PRODUCTION</b>   |
| Hari     | Hariharan | <b>SHELL INTERNATIONAL<br/>EXPLORATION &amp; PRODUCTION</b>   |
| Tom      | Askeland  | <b>SIEM WIS AS</b>  |
| George   | Medley    | <b>SIGNA ENGINEERING CORP</b>                                 |
| Per      | Berg      | <b>STATOIL</b>  |
| Gavin    | Humphreys | <b>STENA DRILLING</b>   |
| Alex     | Bruce     | <b>STENA DRILLING</b>   |
| John     | Kozicz    | <b>TRANSOCEAN</b>   |
| Michelle | Moore     | <b>UNIVERSITY OF HOUSTON</b>                                  |
| Koray    | Kinik     | <b>WEATHERFORD</b>  |
| James    | Chambers  | <b>WEATHERFORD</b>  |
| Kaydree  | Uzelman   | <b>WEATHERFORD</b>  |
| Robert   | Ziegler   | <b>WEATHERFORD TECHNOLOGY &amp;<br/>TRAINING CENTER</b>       |
| Brian    | Grayson   | <b>WEATHERFORD TECHNOLOGY &amp;<br/>TRAINING CENTER</b>       |