



28 February 2013

INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS

IADC ART Committee Meeting Minutes

9:30AM-11:30AM

- Introductions
 - ❖ Rolf Gullaksen, Cameron
 - ❖ Steve Ordway, Advanced Energy Services LLC
 - ❖ Ryan Clark, Aker Solutions
 - ❖ Riaz Israel, BP
 - ❖ Cliff Baggett, Guice Engineering
 - ❖ Rebecca Nutt, Guice Engineering
 - ❖ Kelly Williamson, Guideview Inc
 - ❖ Scott Maddox, IADC
 - ❖ Holly Shock, IADC
 - ❖ Thomas Geehan, M-I Swaco
 - ❖ David Reid, National Oilwell Varco
 - ❖ Valerie Lawson, National Oilwell Varco
 - ❖ John Hoeflich, National Oilwell Varco
 - ❖ Reed Watson, Noble Drilling
 - ❖ Dustin Torkay, Seadrill
 - ❖ Terry Loftis, Transocean

Welcome

The rules of the game just for anyone please check the website out for details on anti-trust we have to manage staying away from commercial or pricing based or exclusive to people who aren't in the room or exclusive to companies or anything commercial and the obvious and that keeps us in a safe place. So if any of us get that direction feel free to jump in and stop us. That keeps us in a very safe place with having a public meeting with many different companies that work together and compete as well. Any questions on anti-trust. No

- ❖ The process now is we are going to review where we are now with our groups and probably since we last met we don't have reliability anymore as a group we've moved that into the maintenance group.



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- ❖ In the groups world I will probably give a quick summary on where we are activity with groups before I go into the reports out from the groups

We are very interested in growing a third group so right now we have controls and future technology, Future that Dustin leads and terry leads the controls group. We are talking about a transition of controls to try and build a more European face to the controls world so we are looking for a potential drilling contractor leader in the controls world and looking at cycling the role one of the things Terry and I talked about is having our chairs rotate so it doesn't become too much for everybody. I guess you can stay on if you like it something that gives us more balance across what we are doing. But certainly in the balance world we have been talking about Europe for a while as a pickup area that we know from the controls world a lot of the companies are in Europe. The third subject that is already a bit in future Technology and also in Controls is well control BOP's from a technology stand point we have a well control group in IADC, but there has been a growing interest in developing a future technology type focus or an advanced rig technology focus on BOP's so that's something we are going to talk about as we go how are we going to make that happen, we are looking for a drilling contractor lead so that's is the status of groups.

Go into subcommittee updates:

Starting with Dustin

Alright we have all but one wait let's back up a little bit it's been a while

- ❖ We had a Workshop 30th of October in Stavanger last year on BOP technologies, Deep-water BOP technologies to be more specific, went fairly well we had attendance of roughly 60 people a very good mix of attendees from contractors operators quite a few from that segment. That is always a challenge to get those participants so I we think struck a nerve there it is a high needs area had good presentations good feedback on the surveys attempt to do a second sister



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workshop same format exact same format here in Houston march 21st have confirmed will Avril from Chevron, Peter Bennett from Pacific drilling, Frank Springett from NOV one of the OEM slots have Cameron penciled in, but no name confirmed.

❖ Dustin: Targeted invites

Like to have the workshop somewhat interactive that way we get good feedback good discussion questions

❖ David: But quality oil company people makes people turn up

Dustin: From our survey that we did in Stavanger our highest needs area was BOP controls so and that leads into our technology presentation with a company called DTC or Deep-water technology Company they do modular BOP control systems that are ROV retrievable you just run the failure and don't mess with it. They will present have some test cases and experience.

❖ Action Item: David: well control forum that people came from, all over the world

Dustin: and I was thinking maybe as the lead into the BOP control committee that will we can use this to I don't know if we want to come up with a different set of goals and objectives on how to focus

❖ Action Item David: Set up a group by focus interest and then they become their own group

❖ We have that workshop on the 21st hopefully with a little help to get together a paper summarizing a paper with the high points of the workshop.

❖ Action Item: More help with paper writers



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David: The IADC they favor our group very well that's good news the industry experts value what we do

- ❖ Scott: Dustin do you want to do a video recording two minutes or interview to get on the website and get the exposure needed for promotion.

- ❖ David: For everyone understands we pick the workshops subject to try and do half day or almost half day. The idea is to make it a low cost simple to do easy to access and that's why we did it international was to do a very brief thing that allows people to and go back to their days work go to without having to stay the night. Quality work done in a short amount of time. Worked very well

Dustin: The really just focus on the without getting into tall the detail a few high valued presentation that everyone's interested in minimize the presentation people snooze through to keep interest Disruptive workshop format

David: Just manage it well so it's a valued experience. So it's been quite good lot of events about the event or money they get and not about the speakers. Chair persons meeting they like the idea.

- ❖ Action Item: Higher volume at Workshops

Dustin: all the different prospective from the value chain the operators, what do they care about is a pin pint for the do they even care.

The contractors same thing, what the value, what do they care about



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The technology providers depending on the topic we might bring someone in from the outside industry like rig condition monitoring. We brought Otis elevators in to speak about how they implemented condition monitoring under elevator systems and how it changed their business model.

- ❖ BOP's? No updates
- ❖ Potential new workshop topics-general not specific. Like to stay specific or have a focus
- ❖ Target questions from workshop in September.

- ❖ Terry write up for new BOP leader
- ❖ DSATS combined meetings-Norway and in June before World Drilling
- ❖ Adaptive well construction Europe October
- ❖ September conference
- ❖ Paper selection 8/9 April
- ❖ Close

IADC Committee activities are run in compliance with all applicable anti-trust statutes. To see IADC's Antitrust Policy, go to www.iadc.org/antitrust.htm.