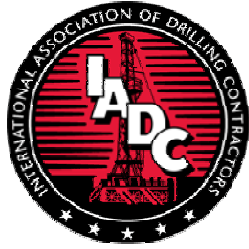


INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS



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IADC Advanced Rig Technology Committee Meeting
8:30 am, Wednesday, 24 February 2010
IADC – Houston, TX

Attendance:

Brian Ellis, Canrig Drilling Technology, Ltd.
Jeffrey Swain, Chevron
John de Wardt, De Wardt & Company
Richard Haut, Houston Advanced Research Center
Keith Womer, KW Technology Services Inc.
David Reid, National Oilwell Varco
Josh Haberer, National Oilwell Varco
Andres Gurdian, National Oilwell Varco
John Mahar, ODS International
Michael Barnhardt, ODS International
Robert Urbanowski, Precision Drilling Oilfield Services Corp.
Dimitrios Pirovolou, Schlumberger
Dustin Torkay, Seawell Americas
Rolf Gullaksen, TTS Sense

Minutes:

David Reid opened the meeting and everyone introduced themselves.

David Reid reviewed the Anti-trust guidelines in brief and directed people to review the details of the guidelines.

David Reid gave a basic introduction to the ART group and its sub-committees.

A discussion on integrating all of the groups led by David Reid ended with the conclusion that the current format is good we just have work to do on goal setting and vision that will draw a bigger crowd of participants.

Robert Urbanowski updated the group on the Reliability and Guidelines subcommittee. The discussion concentrated around the Value Technology guide and the Top Drive Survey being developed. The group would also like to make sure all the appropriate companies are represented in the top drive survey. It was suggested that the members in the ART Committee involve key operations people in the drilling companies they represent to increase participation. A challenge to pull in people already connected to the ART committee but not registered such as Precision Drilling, Chevron, Nabors, Schlumberger IPM and SeaDrill/SeaWell was proposed as a good starting point. Focus on major owners was also discussed and recruiting specific to areas of need. Members were reminded to assure the parties involved in the survey that all information is strictly confidential.

In the near future, it was suggested that the Reliability and Guidelines Group engage a discussion of the Top Drive Manufacturers Product Line Management (or Product Champion) groups to engage them in strategies to further the cause of the survey. Changing the name to a reliability alert system or the like was proposed to

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avoid confusion about a survey being the goal. The need to advance the survey to other product lines is going to be delayed until a result we can use, anecdotally to eliminate the fear of this being a negative marketing device, once the top drive subject is considered functional.

David Reid covered for the Drilling Controls Sub-committee which initiated with a mention to success stories in adopting completely automatic well control from Shell's Canadian operations. This was a great application for explaining the need for control connectivity with the well systems. Currently, the group feels we have too many control challenges to overcome to develop true standard protocols because it could favor one brand over another and would force non-standard companies to have to re-engineer.

Dustin Torkay, of the ART Future Tech Group, updated everyone on the paper that was presented SPE/IADC Conference in New Orleans. Also, a discussion the role of social media was discussed and considered as a possible medium for stimulating participation in IADC events. A day event, bringing all of the possible needs of stakeholders in one place, to look at future technology opportunities against the future needs was suggested. However, the upcoming meeting will be used to develop the picture of the coming year's goals. The group was suggested to brainstorm different types of events besides conferences that could gain interest from the technology crowd in our industry that may lead to a bigger impact.

Dustin Torkay was nominated to step up as the Sub-committee Chairman, and with the support of Frank Springett and Keith Womer, he is considering this role. Dustin will be up for election next meeting, other interested parties should feel free to be nominated by letting Mike Killalea know.

2010 has several important conferences that are relevant among the different groups, one being the IADC ART Conference in August. People considering to present during this conference were given a preview of what to expect and reminded that there is no commercial content allowed.

It was requested that the SPE Workshop and Forum information be distributed to the group.

The details are as follows:

<http://www.spe.org/events/10fse3/>

<http://www.spe.org/events/10agal/>

The next meeting was scheduled for Wednesday, 24 March 2010 at 8:30 am.