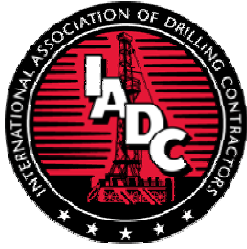


INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS



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IADC ART Drilling Control Systems Subcommittee Meeting
IADC Advanced Rig Technology Committee
8:30 am, Wednesday, 7 October 2009
IADC – Houston, TX

Attendees:

Warren Schneider, 3PS
Bill O'Grady, Athens Group
Pradeep Annaiyappa, Canrig Drilling Technology Ltd.
Brian Ellis, Canrig Drilling Technology Ltd.
Zain Master, Caterpillar
Jagbir, Dhindsa, Interlink Controls Co.
Jorge Sanchez, Interlink Controls Co.
Jens Ornaes, National Oilwell Varco
Wayne Cantrell, Siemens
Terry Loftis, Transocean
Trent Martin, Transocean

Minutes:

1. Subcommittee Chairman Terry Loftis opened the meeting and welcomed the participants.
2. The IADC Antitrust Policy was reviewed and noted as being available on the IADC website.
3. General comments and observations on the September 29th ART Conference were solicited. In general, all concluded "good attendance, good location, good duration and the online voting was brilliant". Bill O'Grady noted that the SPE Workshop in New Orleans mirrored the automation concerns within the industry, but with the exception of the overwhelming ART recognition of a "case for Automation". SPE delegates acknowledged the need, but were more concerned about the specific applications.
4. The Control Motions Analysis and Rig Communications Protocol lists were discussed briefly with respect to how we go about incorporating additional Vendors and data in the future? This topic will be included on next month's agenda and Mike Killalea will be consulted for IADC's preference, prior to that date. It was noted that only the Rig Communications Protocol list was presented at the ART Conference.
5. New goals/objectives for the subcommittee were discussed by the group. The following were proposed:
 - a. Wireless communications. Drillfloor utilization, RF explosive detonation concerns, and required 3rd Party Certification Testing?
 - b. Downhole Tool integration. It was noted that the SPE Workshop revealed that Operators were requesting a common, high speed, high bandwidth data-stream?

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- c. Instrumentation and Control Systems (hardware and software) obsolescence issues?
 - d. A Software Interface 'Standard' focusing on parameters rather than a protocol?
6. Next month's agenda to include a review of all ART Conference responses as indicators for new subcommittee goals/objectives.
 7. The next subcommittee meeting is scheduled for **Wednesday, November 4th, 8:30 am** at IADC headquarters, located at 10370 Richmond Ave, Suite 760, Houston, TX 77042 USA.
Register for the meeting at http://www.iadc.org/committees/advanced_rig_technology/meetings.htm
 8. There being no further business, the meeting was adjourned.