

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, 4 November 2009
IADC – Houston, TX

Attending:

Brad Rosenhagen, AWC Incorporated
Pradeep Annaiyappa, Canrig Drilling Technology Ltd.
Brian Ellis, Canrig Drilling Technology Ltd.
Zain Master, Caterpillar
Jagbir Dhindsa, InterLink Controls Co.
Jens Ornaes, National Oilwell Varco
Terry Loftis, Transocean

Minutes:

1. Subcommittee Chairman opened the meeting and welcomed the participants.
2. The IADC Antitrust Policy was reviewed and noted as being available on the IADC website.
3. In general discussion of the posted Agenda it was noted that Wayne Cantrell's Technical White-paper, Modular Machine Control had not been distributed. Apologies extended, but it is attached to this document.
4. The Control Motions Analysis and Rig Communications Protocol lists were discussed with respect to how we go about updates, corrections and incorporating additional vendor data in the future? It was agreed that T. Loftis would contact TTS-Sense and incorporate their information immediately. IADC would update the data in 3-months lapsed time (~March 2010) and thereafter on a semiannual basis. Proposed updates are to be reviewed by this subcommittee. Contact information would be included on the respective IADC webpage. Exact location to be determined by IADC, but it was suggested that a logical location would be under the "Additional Resources" tab. T. Loftis to contact A. Shelton for the most recent update.
5. New goals/objectives for the subcommittee were discussed by the group with specific reference to the Sept.29th ART Conference attendee responses. Keying off the question "Where is the need for improvement in Drilling Control Systems?", the following were proposed:
 - a. "Integration with Downhole Systems", selected by 35.25% of the voting audience.
 - b. "Uniformity of Drilling Control Functions amongst Manufacturers", selected by 32.35% of the voting audience.

Through joint discussion, we concluded that we should first investigate what technical challenges currently face the Downhole Systems manufacturers and users, before attempting to identify any specific

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IADC endeavor. Z. Masters agreed to contact his sources within Halliburton and T. Loftis agreed to contact Schlumberger and Baker-Hughes, INTEC. It was also proposed to develop a "Survey" email comprised of 3-4 questions which hopefully, would add more resolution to Downhole Tool problems or issues. IADC's "Social Networking" extension through *LinkedIn*© was suggested as a possible venue/forum?

6. The next subcommittee meeting is scheduled for **Tuesday, December 1st, 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
7. There being no further business, the meeting was adjourned.