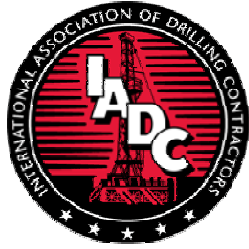


INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS



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IADC Advanced Rig Technology Committee Meeting
8:30 a.m., Tuesday, 30 June 2009
IADC – Houston, TX

Attending:

Chris Goetz, Athens Group
Brian Ellis, Canrig Drilling Technology Ltd.
Jeff Swain, Chevron
Keith Womer, Chevron
Richard Haut, Houston Advanced Research Center
John Hoeflich, National Oilwell Varco
Svein Ove Aanesland, National Oilwell Varco
Logan Puckett, Pride International
Peter Christian, Schramm Rotadrills
Terry Loftis, Transocean
Rolf Gullaksen, TTS Sense
Mike Killalea, IADC
Brian Parks, IADC
Tim Thomas, Schramm Rotadrills
Karl Faller, TI-Data

Minutes:

Greetings were given by John Hoeflich, NOV, chairing the meeting in place of David Reid.

Mike Killalea, IADC, directed attendees to the IADC website (<http://iadc.org/antitrust/>) where the antitrust policy is stated.

Attendees (see Attendance List, in-house and teleconference) introduced themselves.

Subcommittee status reports presented:

Reliability & Guidelines – Logan Puckett, Pride International

Reference Reliability & Guidelines goals & objectives at:

http://www.iadc.org/committees/advanced_rig_technology/mission.htm#reliability

Combined mission statement not completed yet.

Reliability objective is currently due, based on original projection. Brian Parks, IADC has worked with The Athens Group to develop a web-based survey form template. The first phase Top Drive was demonstrated for the group. Comments are welcome, but may be difficult to implement changes at this late date. Data required to populate the form is expected to be sourced from the respective 'Maintenance' Department systems, not the daily drilling reports.

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Mike Killalea presented lists of offshore and onshore contractors who are potential participants in the survey. Suggestion was made that the 'Top 10' be targeted initially. Assistance required in targeting the individuals within each respective company who will be responsible / capable to supply the information and reporting. There was a general discussion on how and who would be responsible to report events, what period of time (current or historical) would be requested or accepted? Reporting is per event and historical information will be at the participant's discretion.

The objective is to identify key areas requiring attention and focus (e.g. trends and recurring issues).

Initial contact with participants will stress confidentiality. Registration and security are integral to the web interface. Data will reside on the IADC server.

With respect to Guideline goals & objectives, the ART Matrix (Rev.9) has been prepared and populated with various drilling equipment considered to be "high-tech" or innovative. Each piece of equipment is to be characterized as to its advantages and/or disadvantages.

Next subcommittee meeting is scheduled for August 11th.

Control Motions & Software Interface – Terry Loftis, Transocean

Control Motions & Software Interface goals & objectives at:

http://www.iadc.org/committees/advanced_rig_technology/mission.htm#control

Combined mission statement drafted, but not completed yet.

The two subcommittees were combined in May of this year. Motion & Controls Sub-Committee Chairman was Svein Ove Aanesland of NOV. Software Interface Sub-Committee Chairman was Zain Master of Caterpillar.

Immediate objective of Control Motions was to survey the Drilling Industry (contractors and manufacturers) and categorize HMI operation and orientation in an attempt to identify common denominators and present guideline or recommended practice in 'standardizing' design of key drilling control motion (i.e. Driller's Chairs, HMI, joystick, pushbutton, etc.). The survey has been conducted by the standing committee and is now transferred to the new chairman to attempt a final pass in capturing participants. Publication as 'best practice' on IADC website was projected for July 2009. Discussion focused the goal to presenting findings at the SPE/IADC meeting in September, so target completion is revised to August.

Immediate objective of Software Interface was to survey the Drilling Industry (contractors and manufacturers) and identify the various communication protocol and interfaces utilized for integrated drilling controls in an attempt to identify common denominators and present recommended practice in 'standardizing' drilling control system interfaces. The survey has been conducted by the standing committee and a matrix prepared. The Matrix is now transferred to the new chairman to attempt a final pass in capturing participants. In an effort to represent the full spectrum of 'Drilling', it was recommended to expand the list beyond integrated drilling control manufacturers/suppliers and include also subsea equipment, vessel management, power management and DP system manufacturers and providers. Four of six additional vendors have responded. The populated matrix will be distributed to all participants for review prior to being posted on IADC website. No target date for publication had yet been identified. Discussion focused the goal to presenting findings at the ART Conference in September, so target completion is revised to August.

The subcommittee is seeking to expand interest and participation. Next subcommittee meeting is scheduled for July 14th.

Future Technology – Rolf Gullaksen, TTS Sense

Reference Reliability & Guidelines goals & objectives at:

http://www.iadc.org/committees/advanced_rig_technology/mission.htm#future_tech

Initial response to Survey spreadsheet of ~700 issues was "too much"! Some realignment necessary and the group broached this issue at their last meeting during OTC.

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Next subcommittee meeting is July 16th.

September 29th IADC Advanced Rig Technology Conference

Leesa Teel provided an overview of the September 29th IADC ART Conference program. Program posted on IADC website this date. Conference will be at the Omni Houston Hotel Westside, 13210 Katy Freeway (Eldridge & I-10). If you're a speaker or moderator, don't sign-up online, your discount offer will be mailed to you!

Agenda Item 9, "Set new targets for the next 12 months....," was deferred until next meeting.

Subcommittees were reminded to revise mission statements and objectives to reflect merged subcommittees. The revisions should be sent to Holly Shock at holly.shock@iadc.org.

The next IADC ART Committee Meeting is August 25th at 8:30, at the IADC office.

Meeting adjourned.