

International Association of Drilling Contractors



IADC Advanced Rig Technology (ART) Committee
09.30-11.30 Thursday, 4 May 2023
Hybrid meeting
IADC HQ, 3657 Briarpark Dr Ste 200
Houston, TX 77042

Minutes

IADC Advanced Rig Technology Committee Co-Chairs Blaine Dow, SLB, and Sarah Kern, H&P opened the meeting and welcomed the attendees. IADC's Linda Hsieh gave an overview of the [IADC antitrust policy](#).

Matt Isbell, HESS, gave a guest presentation on Digital Wells and IADC DDR Plus, see accompanying slides. After discussion, the committee agreed that there are gaps in the current IADC codes/subcodes. Matt Isbell noted that several workstreams within D-WIS would like to continue their work using IADC codes but there are structural issues, so group is deliberating whether they need to create their own system, but recognize that it would be easier to take current IADC standard and grow it to suit new needs, but that will require some changes to IADC DDR Plus, including its links to WITSML structure.

He proposed that the committee, working together with other industry stakeholders like D-WIS and OSDU's Wells Data Foundation, work to create a roadmap of various scenarios that could be undertaken to evolve the IADC DDR Plus, considering each scenario's benefits and risks. Deliverable of this effort would be a proposal with the various scenarios outlined, to be presented back to the ART Committee for review and discussion. Group agreed this was a worthwhile effort to pursue, and asked committee members to go back to their organizations and identify individuals who could participate. Interested individuals may contact IADC (linda.hsieh@iadc.org).

Andy Westlake, Seadrill, DCS Vice Chair, gave an update on behalf of Nathan Moralez, BP, DCS Chair. Andrew Zheng, SLB, has volunteered to lead a small working group to finish the Guidelines for Minimum Safety Features for Drilling Control Systems and Assets, but more volunteers are still needed. The committee was asked to go back to their organizations to seek potential volunteers to join this effort. Interested individuals may contact IADC (linda.hsieh@iadc.org).

Shashi Talya, Halliburton, presented a proposal, on behalf of Nathan Moralez, for a new joint project between ART and SPE DSATS around human factors engineering, with the goal of reducing the cognitive load on the driller and other operators of automation systems on the rig. The current envisioned deliverable would be a list of questions for people developing automation systems to consider while developing those systems. Group agreed this would be a good project to pursue. Shashi Talya and Nathan Moralez

International Association of Drilling Contractors

will continue discussions to further refine the project deliverable(s) and submit a finalized project proposal to IADC for approval.

Konstantin Puskerskij, Copenhagen Energy Partners, and Mike Party, HESS, presented updates on ongoing projects under the Energy Efficiency Subcommittee, which will next meet on 25 May 2023.

- Emissions Reduction RP for Drilling Activities: A draft document, developed after approximately one year of work by the workgroup, was distributed within the ART Committee on 2 February 2023, and the review period closed on 15 March 2023. All comments received were incorporated into the draft document, and the resulting new draft was submitted to IADC Division VPs for review on 5 May 2023. The group is currently awaiting feedback. Anyone who would like to receive a copy of the current draft of the document can contact IADC (linda.hsieh@iadc.org).
- Emissions Forecasting and Reporting: Workgroup has agreed on 4 methodologies and are in the process of assigning sections out to individual volunteers to work on drafting; anticipated timeline is to have an initial draft to share with the ART Committee by summer. Each section now has a couple of volunteers but more help would be welcome. As mentioned previously, this group is well represented by drilling contractors (onshore and offshore) and large E&Ps but would like to see more representation by smaller E&Ps. Interested individuals can contact IADC (linda.hsieh@iadc.org).
- Alternative Fuels Report: Yet to start.

Blaine Dow and Sarah Kern noted that they aim to keep guest speakers to only ART Committee meetings in the future and keep ART Subcommittee focused on working on various ongoing projects.

Paul Pastusek, ExxonMobil, gave an update on the Dull Bit Grading Project. A draft document is about 90% complete. Group is still working on getting releases for all images used in the document, and a live bit grading session last year identified a few sections that need minor revisions. As document is nearly 200 pages long, future work may entail creating a shorter, rig-friendly document or poster. There may also be an opportunity for IADC to establish an online forum where SMEs can submit/comment on case studies. Currently estimating project will be finished in Q3 2023. Group is also planning to host a live bit grading session at the 2023 IADC ART Conference in September.

Robert van Kuilenburg, Noble, proposed that IADC consider holding 1-2 workshops focused on helping the industry to rebuild its ecosystem for rig construction/renovation. He noted that even as demand for deepwater drilling continues to increase, the industry has lost its previous ecosystem for designing, manufacturing and commissioning new rigs. The industry should act now before it's too late, or risk being stuck with obsolete designs not capable of supporting new ways of working. Hess, NOV and Huisman have confirmed their support of workshops on this topic.

International Association of Drilling Contractors

The committee showed support for this idea. It was mentioned that IADC is already scheduled to hold an Offshore Regional Forum on 26 September 2023 at Transocean's facility in Houston. Linda Hsieh will discuss with other IADC stakeholders on ways to work together and explore options for holding such workshops.

The meeting was adjourned at 11:30am.

Attendance:

Andre Alonso Fernandes, Petrobras
Andrew Calderwood, Stena Drilling
Andy Westlake, Seadrill
Anil Godumagadda, Patterson-UTI Drilling
Blaine Dow, SLB
Bob Silva, Amerimex Motor & Controls
Brandt Lanzet, Patterson-UTI Drilling
Brendon Webb, H&P
Calvin Carter, MI Swaco
Chris Stewart, Parker Wellbore
Cody MacDonald, IPT Global
Darren Mourre, TSC Drill Pipe
Greg Matherne, Precision Drilling
John Dady, Seadrill
John de Wardt, DE WARDT & COMPANY
Juan Pablo Arias Tamayo, Training Consultors
Kalyan Singamshetty, ConocoPhillips
Keith Boughton, Inteliwell
Konstantin Puskarskij, Copenhagen Energy
Partners

Paul Large, Esgian
Paul Pastusek, ExxonMobil
Robert Dugal, American Block Company
Robert van Kuilenburg, Noble
Robert Wylie, xnDrilling
Ronald van der Meulen, GustoMSC
Sarah Kern, H&P
Sean Roach, SLB
Shashi Talya, Halliburton

Leslie Dill, Precision Drilling
Linda Hsieh, IADC
Marcel Snijder, Patterson-UTI Drilling
Mark Anderson, Ensign Energy Services
Matt Isbell, Hess
Melissa Eudy, Mi4
Michael Lee, ABS
Mike Party, Hess
Muhammad Jahanzaib Aijaz