

International Association of Drilling Contractors



**IADC Advanced Rig Technology Committee meeting
9:00 am, Wednesday, 28 October, 2015
IADC Offices – 10370 Richmond Ave, Suite 760
Houston, TX 77042**

Minutes

IADC Advanced Rig Technology Committee Chairman Terry Loftis opened the meeting and welcomed the attendees. Next, Mr Loftis reviewed the IADC antitrust policy, available for review at www.iadc.org/iadc-antitrust-policy-guidelines/.

Mr Loftis and ART Committee Co-Chairman Robin Macmillan gave an update of the 2015 IADC ART Conference, held October 13-14, in Amsterdam, which was attended by 211 drilling professionals.

A workshop on the preceding Monday, October 12, presented and proposed new work programs for the committee and its subcommittees. Suggested areas of endeavor included:

- “Cybersecurity”;
- “Flat time” (NPT) reduction;
- “Reliability”, which is tied to NPT;
- Developing a “Common Data Language” for drilling machine communication;
- Devising an effective means of “Running Risers in High Environments (i.e. Current)”.

It was also suggested during the workshop that IADC be alert for new and proposed regulations. Mike Killalea, IADC, explained that IADC has long been very involved in studying and responding to proposed regulation and legislation. IADC staff includes a number of highly skilled and experienced specialists across all areas of interests to the global drilling industry. For more information, refer to the PGRA, Onshore Division and Offshore Division websites, available through links under “Committees” on www.iadc.org.

The ART Committee is actively seeking volunteers, Mr Loftis said. Business cards were solicited at the Amsterdam ART Conference, and Mr Killalea responded to each person submitting cards to assess expertise and interest areas. Volunteers are asked to contact Messrs Loftis or Macmillan.

The committee agreed to establish a work group for the “common language” item. One question was whether other organizations are pursuing the same goal.

International Association of Drilling Contractors

Under the auspices of the ART Drilling Controls Subcommittee, Dr Siv Hilde Houmb has been leading a Cybersecurity Work Group that has developed draft guidelines. The committee agreed that this work group should continue the effort. An article discussing cybersecurity in the drilling industry, including the work of Dr Houmb's group, is available at <http://www.drillingcontractor.org/drilling-cybersecurity-36727>.

It was suggested that the Future Technology Subcommittee consider convening a workshop on the riser-running item.

Mr Loftis led a discussion on transforming ART into a more global committee. Ideas discussed included improving IADC's Webex-based meetings to include video. This had been attempted in the past, but few people calling in remotely cared to be on camera. Still, improvements in computer video software over the last few years might make this a more viable option today.

Other suggestions included tying ART Committee meetings to IADC conferences. Possible events in 2016 identified by the committee as good fits for ART meetings include:

- IADC/SPE Drilling Conference, 1-3 March, Fort Worth;
- IADC International Deepwater Drilling Conference, 15-16 March, Rio de Janeiro;
- Offshore Technology Conference, 2-5 May, Houston (As an Endorsing Organization, IADC can obtain a meeting room at the OTC venue.);
- IADC World Drilling 2016, 15-16 June, Lisbon, Portugal;
- 2016 IADC ART Conference, 13-14 September, Galveston, Texas;
- IADC/SPE Asia Pacific Drilling Technology 2016, 22-24 August, Singapore.

IADC Chapter meetings were also suggested as possible anchors for ART meetings. Messrs Loftis and Macmillan noted strong interest from the IADC Permian Basin and Oklahoma-Texas Panhandle Chapters.

Mr Loftis also proposed that each subcommittee be led by a pair of co-chairs to share the workload. Current subcommittees and leadership are:

- Future Technology Subcommittee: Chairman, Harris Reynolds, Diamond Offshore Drilling Inc.;
- BOP Controls Subcommittee. Chairman/Co-Chairman are:
 - Scott Weaver, Noble Drilling Services, Inc.;
 - Rex Bomer, Cameron.
- Drilling Control Systems Subcommittee: Chairman, Trenton Martin, Transocean.

Under Other Business, it was suggested that ART consider a work program to classify rigs by equipment type and capability.

The 2016 IADC ART Conference will convene on 13-14 September in Galveston. Milestone dates are:

International Association of Drilling Contractors

- Call for Abstracts scheduled to go out on 12 November 2015;
- Deadline for abstracts: 18 March 2016;
- Paper selection meeting: 28 March, 2016.

The next committee meeting was tentatively scheduled for 10 February at IADC HQ.

There being no further business, Mr Loftis adjourned the meeting.

Attendance:

Name		Company Name
Maximilian	Trombitas	BAUER DEEP DRILLING GMBH
Rex	Bomer	CAMERON
Brian	Ellis	CANRIG
David	Haas	DELOITTE
Mike	Killalea	IADC
Erlend	Engum	NATIONAL OILWELL VARCO
Robin	Macmillan	NATIONAL OILWELL VARCO
Frode	Jelnsen	NATIONAL OILWELL VARCO
Ryan	Hanford	NATIONAL OILWELL VARCO
Steven	Ronan	NORTHWEST TECHNICAL SOLUTIONS
Guillaume	Plessis	NOV GRANT PRIDECO
Ian	Griffiths	SMD
Terry	Loftis	TRANSOCEAN
Arne	Becker	WEATHERFORD