

# MEETING MINUTES

## ASTM SUBCOMMITTEE D18.26

### HYDRAULIC FRACTURING

Tuesday January 29<sup>th</sup> 2013: 1:00 pm to 5:00 pm  
Hyatt Regency Jacksonville Riverfront; Jacksonville, FL

- I. The first meeting of subcommittee D18.26m Subcommittee of Hydraulic Fracturing was called to order by acting Subcommittee Chair, John Germaine. *(Please note that attached Presentation 1 provides additional details of items I through IX of these meeting minutes and should be referred to for additional details on these items.)*
- II. Introductions were made by John Germaine and Robert Morgan, ASTM International Staff Manager of Committee D18. All those in attendance at the meeting were then invited to introduce themselves. Jim Thomas, President of ASTM International was introduced and made a few welcoming remarks and particularly his excitement of the forming of this new subcommittee and the high level of interest shown and attendance at the meeting.
- III. The attendance roster was then circulated. Attachment 1 to these minutes contains the names of the subcommittee members and visitors in attendance.
- IV. The ASTM Antitrust Statement and no recording policy was presented by John Germaine, as follows

*ASTM International is a not-for-profit organization and developer of voluntary consensus standards. ASTM's leadership in international standards development is driven by the contributions of its members: more than 30,000 technical experts and business professionals representing 135 countries.*

*The purpose of antitrust laws is to preserve economic competition in the marketplace by prohibiting, among other things, unreasonable restraints of trade. In ASTM activities, it is important to recognize that participants often represent competitive interests. Antitrust laws require that all competition be open and unrestricted.*

*It is ASTM's policy, and the policy of each of its committees and subcommittees, to conduct all business and activity in full compliance with international, federal and state antitrust and competition laws. The ASTM Board of Directors has adopted an antitrust policy which is found in Section 19 of ASTM Regulations Governing Technical Committees. All members need to be aware of and compliant with this policy. The Regulations are accessible on the ASTM website (<http://www.astm.org/COMMIT/Regs.pdf>) and copies of the antitrust policy are available at the registration desk*

*Recording at ASTM meetings is prohibited.*

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- V. Modifications and Approval of Agenda – The final agenda for the meeting, which was distributed at the meeting was approved without modification.
- VI. John Germaine explained the ASTM Committee and Subcommittee meetings are conducted in a relaxed version of Roberts Rules.
- VII. Approval of Minutes from last meeting was not applicable as this first meeting of Subcommittee D18.26.
- VIII. Membership Status of the Subcommittee D18.26 was presented by John Germaine, which included a discussion of the voting interests and voting rights within the subcommittee. It was noted that as of January 26<sup>th</sup> there were 200 members of subcommittee D18.26, and the number was still growing.
- IX. Special Announcements were made by Ron Ebelhar, D18 Chairman. Ron indicated that the subcommittee consists of membership from all parts of the industry (users, producers, regulators, oil/gas industry) and that in accordance with ASTM procedures and Committee D18 procedures all members are equal and all members have equal say in matters associated with the subcommittee. It was further indicated that the balance in the subcommittee of the various interests is essential for the success of the subcommittee.
- X. A presentation was made by Robert Morgan of an Overview of ASTM International organization, and the relationship to the Technical Committees, and specifically Subcommittee D18.26 – Subcommittee of Hydraulic Fracturing. (*See attached Presentation 2 for additional details.*) It was highlighted in the presentation that ASTM standards are based on consensus, neutrality, openness, and balance of all interests.
- XI. John Germaine presented the history and outcome of the special task group leading to the creation of Subcommittee D18.2, including the formation of the task group, members of the task group, the work performed and areas reviewed and studied by the task group leading to the development of an approved scope for the subcommittee, as follows:  
***It shall be the responsibility of Subcommittee D18.26 to develop standards and promote knowledge related to geoenvironmental, geologic, and geotechnical aspects of hydraulic fracturing activities. Where appropriate, the subcommittee will collaborate with other ASTM Committees and subcommittees; private, governmental, and academic entities to provide the broadest possible expertise pertaining but not limited to subsurface and surface site characterization, construction of facilities, borehole operations, drilling fluid management, abandonment, and data recording.***

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It was further explained the scope statement is subject to review and modification by the subcommittee at a later date by the subcommittee. (*See attached Presentation 3 for additional details.*)

- XII. Robert Morgan made a presentation that showed an Overview of the ASTM process for creating a Standard (*See attached Presentation 4.*) The presentation highlighted the process of how a new standard typically starts as a task group effort, rises to a subcommittee level and ballot, and finally a main committee ballot. The discussion then provided additional specifics on the electronic voting process within D18 including a brief overview of the steps needed to deal with negative ballots and comments received from the ballots and that the time frame to complete a new standard is typically from 6 – 18 months, although can be longer.
- XIII. John Germaine made a presentation that discussed an overview of D18 specific tools available to help with standard development and uniformity including the online tools, and the D18 Standards Preparation Manual and Standards Review Sheets. (*See attached Presentation 5.*)
- XIV. The next part of the meeting included a series of prepared presentations as related to the state of the art of hydraulic fracturing and other areas of activities in the industry. Listed below are the presenters and the topic of each of the presentations. (*Copies of all the presentations are attached as Presentations 6A to 6J.*)
- A. Shail Ghaey – *Overview of API activities*
  - B. Ken Bell – *ASCE activities*
  - C. Anita Branch – *CORPS perspective relative to proximity to existing facilities*
  - D. John Getty – *Existing Standards and practices*
  - E. Richard Jack – *Current activities within D19 on Water*
  - F. Ian Treviranus – *Proppant technologies*
  - G. Khalid Farrag – *HF process and properties*
  - H. Mark Travers – *Zero discharge technologies*
  - I. Ron Steinvurzel – *Land use considerations*
  - J. Bruce Hicks – *activity in North Dakota*

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XV. Upon the completion of the presentations John Germaine lead an open discussion related to the direction of the Subcommittee. He explained that moving forward, the primary purpose of this first meeting is to set an agenda for 1) coordination of existing ASTM activities related to hydraulic fracturing and 2) development of new standards (test methods, guides, practices, specifications, terminology) for hydraulic fracturing. As part of this discussion a list of potential topics was presented for possible focus for the D18.26 subcommittee, which included the following:

- Site Investigations
- Permitting
- Site Infrastructure/Construction
- Drilling/Fracking/Stimulation
- Drilling Fluid Characterization
- Drilling Fluid Waste Management
- Production Activities
- Site Monitoring
- Well Abandonment
- Reporting

After some limited discussion on these topics as time was running out it was discussed the importance of obtaining some level of broad based support and consensus of these topics, which will require input from as many stakeholders as practical. This will include getting support from other subcommittees within D18, other main committees within ASTM, and external parties. At this time in order for this subcommittee to move ahead on its' mission it is important to first identify the leadership so task groups can be formed to start focusing on specific areas to be worked on, and hopefully get started between this meeting and the June, 2013 meeting. *(See attached Presentation 7.)*

XVI. The final announcement was that the next meeting of Subcommittee D18.26 will be on June 11, 2013 Indianapolis, IN and it was hoped that in addition to the Subcommittee meeting task group meetings can be held on one or more of the specific topics as listed above in Item XV.

XVII. A motion was made, seconded and approved to adjourn the meeting at about 5:15 p.m. All those in attendance were thanked for attending the meeting.

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#### Attachment 1: Attendance Roster

MEMBERS			
Germaine, John T	Edwards, George H	Lee, David A	Sadar, Michael J
Abrams, Adele L	Farrag, Khalid A	Lorson, Gregory	Schiebold, Paul
Alfieri, Michael	Felts, Margaret C	Lucas, William D	Sengebush, Robert M
Anderson, Jeffery R	Fetters, Chris	McNamara, Michael P	Shirzadi, Darius D
Bagawandoss, Kesavalu	Getty, John C	Mitchell, Spencer P	Smith, Brian R
Balkissoon, Indira G	Hale, Jeffrey R	Mittelhauser, Hank M	Smith, David
Bell, Kenneth R	Hennet, Remy J	Morgan, Robert	Spicuzza, Douglas E
Berry, Kenneth M	Herbert, John R	Murray, Gene L	Srinivasan, Kiran
Bhatti, M Ilyas	Houlihan, Michael F	Oneacre, John	Stagar, Michael
Bibler, Jim R	Huether, Gary S	Paulson, David J	Thornton, Tony W
Birdwell, Lynn L	Jack, Richard F	Price, Daniel	Touseull, Jack A
Branch, Anita	Kilmer, Doug	Puls, Robert	Treviranus, Ian
Buehler, Christopher	Kind, John	Pyron, Lindsey	VanHook, Kevin
Canty, Thomas M	Kirby, Michael J	Reinmiller, Roger	Wardley, Kent
ching, alan	Koglin, Eric N	Rhodes, George W	Yoder, Chad
Clark, Dennis A	Konschnik, Joseph D	Ritchey, Joseph D	Youngblood, Jimmy G
DiGuilio, Donald J	Langer, Vera	Robb, Joseph	Zeko, Mark
Ebelhar, Ronald J	Ledbetter, H. R	Rogers, Lisa	
VISITORS			
Adams, Kendra	DeGroff, Bill	Jackson, Cary	Rhochs, Doug
Anthony, Tony	Durham, Gary	Ladd, Richard	Schmidt, Dana
Baldwn, Lily	Dzialo, Eric	McGregor, Robert	Shail, Gheay
Bechmann, Gert	Germaine, Amy	Medvick, Dick	Sierra, Fernando
Berger, Eric	Gibson, Douglas	Mock, Henry	Telliand, W.
Buchus, Lev	Gilmore, Adam	Mougan, Dylan	White, Ryan
Buzea, Dan	Gray, Richard	Parker, Michael	Wildman, Jan
Carlson, Mark J	Hanson, Jim	Porterfield, Donivan	Yesiller, Nazli
Chaney, Ronald	Hicks, Bruce	Quinn, Bill	
Collins, Wayne	Hoddinott, Kieth	Reed, Lance	