

2010 AADE FLUIDS TECHNICAL CONFERENCE AND EXHIBITION

American Association of Drilling Engineers

TECHNICAL PROGRAM

- Breakfast: 7:00 – 8:30 am
- Sessions: 8:00 am – 5:30 pm
- Student Posters during breaks

Tuesday, April 6

- Opening: Jason Maxey and Neil Trotter, Conference Chairs, 9:50 am
- Keynote Speaker: John Yearwood, Smith International, *"Great People Handling Great Challenges"* 10:00 am
- Plenary Session: Cheryl Stark, Moderator *"Fluids Technology: Have We Got What It Takes?"* 10:30 am
- Luncheon Speaker: David Reid, National Oilwell Varco *"Technology: The Good, The Bad, and the Elephant in the Room"*
- AADE Drilling Fluids Hall of Fame Induction, Class of 2010
- Presentations by Students: 1:30 – 5:30 pm
- Cocktail Reception: 5:30 – 6:30 pm (NEXT Wii Bowling Challenge)

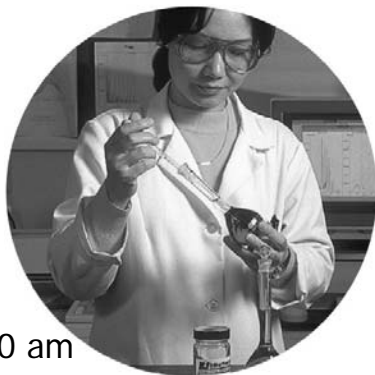
Wednesday, April 7

- Luncheon Speaker: Tom Williams, Nautilus International *"Environmentally Friendly Drilling is not an Oxymoron"*
- AADE Awards Presentation
 - Sandy Purdy Gold Medal for Best University Student Poster
 - Wayne Bryant AADE Service Award
 - Best Exhibitor Award

AADE
AMERICAN ASSOCIATION
of DRILLING ENGINEERS

HOUSTON CHAPTER

The Premier Fluids
Conference



April 6-7, 2010
Hilton Houston North
Houston, Texas

Registration booth opens at 7:00 am each morning.



2010 AADE Houston Chapter Fluids Technical Conference and Exhibition
“The Premier Fluids Conference”
Tuesday, April 6, 2010

Technical Sessions – Room 1		Technical Sessions – Room 2	
7:00 - 8:30			
Breakfast sponsored by Derrick Equipment Co.			
8:00 – 9:30	Drill-In & Completion Fluids <i>Session Chairs:</i> Joey Detiveaux, Tetra and Phil Duhon, Apache	Deepwater <i>Session Chairs:</i> Kalyan Singamshetty, Marathon and Tom Carlson, Shrieve Chemical	
8:00	<i>State-of-the-Art Polymers Fulfill the Need for High-Temperature Clay-Free Drill-In and Completion Fluids – R.G. Ezell, A.M. Ezzat, D. Horton, Halliburton and E. Partain, Dow Chemical. [#01]*</i>	<i>Eliminating Pressure Spikes after Connections and Trips to Improve ECD Control and Minimize Downhole Losses – A. Moore, consultant for ATP Oil and Gas; A. Gillikin, Halliburton. [#05]</i>	
8:30	<i>Nanoparticle Networked Surfactant Micellar Fluids – Completion Fluids With Reduced Formation Damage – James Crews, T. Huang, A. Gabrysch, B. Evans, Baker Hughes. [#02]</i>	<i>The Top 10 Mud-Related Concerns in Deepwater Drilling Operations: Revisited After 10 Years – A. McLean, A. Wilde, M. Zamora and M. Rafferty, M-I SWACO. [#04]</i>	
9:00	<i>Improve Low-Permeability Gas Productivity with Unique Flow-Back Chemistry - Joyce Zhang, Clark Harrison, and Bill Foxenberg, M-I SWACO. [#03]</i>	<i>Fluorescence Microscopy: A Technique to Study and Evaluate Spacer Fluids for Wettability Inversion - Qusai Darugar, L. Quintero, C. Christian, D. Ellis, Baker Hughes. [#51]</i>	
9:30 – 9:50			
Break – Exhibits and Student Poster Session Open			
9:50 – 10:00			
Opening Comments – Jason Maxey and Neil Trotter, Conference Chairs			
10:00 – 10:30			
Keynote Address: John Yearwood, CEO, Smith International			
10:30 – 12:00			
Plenary Session – Fluids Technology: Have We Got What It Takes? <i>Session Chair:</i> Mario Zamora, M-I SWACO <i>Moderator:</i> Cheryl Stark, retired <ul style="list-style-type: none"> • Lee Dillenbeck, Cementing Senior Advisor, Chevron • Eric van Oort, Planning and Business Improvement Manager, Shell Upstream Americas • Paul Scott, Principal Fluids Engineer, ConocoPhillips • Gary Young, Drilling Fluids Specialist, Oxy Oil & Gas 			
Luncheon and Class of 2010 Hall of Fame Induction			
12:00 – 1:30	Max R. Annis Leroy L. Carney Jack C. Estes Preston L. Moore	George S. Ormsby William A. Rehm J. George Savins	
Luncheon Speaker – David Reid, National Oilwell Varco “Technology: The Good, The Bad, and the Elephant in the Room”			
Completion Operations		Students	
1:30 – 3:00	<i>Session Chairs:</i> Subhash Shah, University of Oklahoma and Lee Dillenbeck, Chevron	<i>Session Chairs:</i> Kasper Kowalewski and Adrian Angove-Rogers, ConocoPhillips	
1:30	<i>Gravel Packing with OBM Carrier Fluids in Remote Locations: Accepting the Challenges, Overcoming the Odds - Tom Jones, R. Peresich, L. Hill, Baker Hughes. [#07]</i>	Presentations by student poster authors.	
2:00	<i>Critical Considerations for Successful Hydraulic Fracturing and Shale Gas Recovery - Jennifer Fichter, Alexander Bui, Greg Grawunder and Tom Jones, Baker Hughes. [#08]</i>		
2:30	<i>Best Non-Aqueous Fluids Clean-Up Practices for an Offshore Sandstone Reservoir Completed with an Inflow Control Device - Chad F. Christian and Oscar Moreno, Baker Hughes; J. Eric Lauritzen, Saudi Aramco. [#09]</i>		
3:00 – 3:30			
Break – Exhibits and Student Poster Session Open			
Wellbore Integrity		Students	
3:30 – 5:30	<i>Session Chairs:</i> Fred Growcock, M-I SWACO and Eric van Oort, Shell	<i>Session Chairs:</i> Suhrid Mantravadi, Univ of Texas and William Putscher, Texas A&M University.	
3:30	<i>Integrated Solutions Deliver Improved Wellbore Integrity - Greg Mullen, Keith Browning, Edgar Luna, David Schwertner and Chris Wolfe, Baker Hughes. [#14]</i>	Presentations by student poster authors.	
4:00	<i>Implementing and Monitoring a Geomechanical Model for Wellbore Stability in an Area of High Geological Complexity – J.G. Vargas, J. Mateus, A. Jaramillo and M. Serrano, Halliburton; M. Rivera and O. Mercado, Ecopetrol. [#15]</i>		
4:30	<i>Case Study: Geomechanics Modeling with Limited Data Can Provide Critical Understanding for Drilling Optimization - Hong (Max) Wang, J. Song and M. Dixon, Halliburton. [#16]</i>		
5:30 – 7:30	Cocktail Reception - Honoring the Hall of Fame Recipients and Students sponsored by Drilling Specialties Wii Bowling Challenge sponsored by AADE Houston Chapter NEXT Group		



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		Technical Sessions – Room 1	Technical Sessions – Room 2
7:00 - 8:30	Breakfast sponsored by Baker Hughes		
8:00 – 10:00	Drilling Fluids I	Waste Minimization	
	<i>Session Chairs:</i> Gary Young, Oxy and Ed Malachosky, Baker Hughes	<i>Session Chair:</i> Cheryl Hood, Baker Hughes and Khai Nguyen, M-I SWACO	
8:00	<i>Formation Damage Caused by Drilling Muds: A Comprehensive Study Using SEM/EDS, GC/MS and Related Instruments</i> - S. Vincent Yang, Halliburton. [#17]	<i>Field Trials for the Treatment of Potassium Silicate Based Drilling Waste Using Calcium Humate</i> - Michael McDonald, PQ Corp; R. Orcutt, Summit; C. Logan, Rheotech; and E. Liem, Black Earth Humic. [#21]	
8:30	<i>Fluid Loss as a Function of Position Around the Wellbore</i> - Arunesh Kumar, Halliburton. [#18]	<i>Advances in Drilling Fluid Preparation and Conditioning at Fluid Mixing Facilities</i> - Katerina Newman, Perry Lomond, Brad Jones, and Karen McCosh, M-I SWACO. [#48]	
9:00	<i>Economic Considerations and Impacts for Using Low-Grade Barite</i> - Paul Scott, ConocoPhillips; and Leon Robinson, consultant. [#19]	<i>Effects of Lost Circulation Material Retention on Drilling Fluids and Drilling Waste Management</i> - Gerard Simon, B. Leonard, N. Trotter, M. Morgan, Chevron; G. Young, Oxy; R. Morrison and S. Bridges, Derrick. [#23]	
9:30	<i>Improving the Kinetic Stability of Emulsions</i> - Ryan van Zanten and Kingsley Nzeadibe, Halliburton. [#20]	<i>Drill Cuttings Injection and Monitoring for Remote Pad Drilling Operations at Environmentally Sensitive Sites in Cashiriari, Peru</i> – S.A. Marinello, K. Zaki, A. El-Fayoumi, A.S. Abou-Sayed, Advantek; I.M. Ghoneim, Texas A&M Univ; C. Airoidi, J.P. Cassanelli, Pluspetrol; D. Pierce, C.R. Suarez Pineda, NOV Brand; H. Hussein, Informateks. [#29]	
10:00 – 10:30	Break – Exhibits and Student Poster Session Open		
10:30 – 12:00	Rheology & Hydraulics I	Preventing Losses	
	<i>Session Chairs:</i> Mel Schmidt, consultant and Neil Trotter, Chevron	<i>Session Chairs:</i> David Beardmore, ConocoPhillips and Greg Mullen, Baker Hughes	
10:30	<i>Field Monitoring of Weight Material Sag</i> - Peter Bern, BP; M. Zamora, M-I SWACO; T. Hemphill, Halliburton; D. Marshall, Baker Hughes; D. Beardmore, ConocoPhillips; T. Ormlan, StatoilHydro; and E.K. Morton, Chevron. [#25]	<i>Maximize Drilling Time by Minimizing Circulation Losses</i> - Jason Scorsone, Eugene Dakin and Mark Sanders, M-I SWACO. [#42]	
11:00	<i>Drill Bit Nozzle Pressure Loss</i> - Leon Robinson, retired. [#26]	<i>Improving Wellbore Strengthening Techniques by Altering the Wettability of Non-Aqueous Fluids Lost to Drilling Induced Fractures</i> – Jonathan Brege, Chad Christian, Lirio Quintero and David E. Clark, Baker Hughes. [#43]	
11:30	<i>A Rheological Approach to Differentiating Muds by Gel Structure</i> - Jason Maxey, Halliburton. [#27]	<i>Drilling Fluid Maintenance during Continuous Wellbore Strengthening Treatments</i> - Fred Growcock, Andrea Alba, Mike Miller, Arne Asko and Kyle White, M-I SWACO. [#44]	
12:00 – 1:30	Lunch, Awards Presentation, and AADE Houston Chapter Meeting Luncheon Speaker – Tom Williams, Nautilus International “Environmentally Friendly Drilling is not an Oxymoron”		
1:30 – 3:30	Drilling Fluids II	HTHP	
	<i>Session Chairs:</i> Paul Scott, ConocoPhillips and David Breeden, Newpark	<i>Session Chairs:</i> Juan Pinzon, BP and Ivan Bermudez, M-I SWACO	
1:30	<i>The True Cost of Process Automation</i> - Amber Smith, Tom Geehan, Alan McKee, and Mario Zamora, M-I SWACO. [#31]	<i>Inhibition of Hydrolytic Degradation in Ester-Based Invert Emulsion Drilling Fluids</i> - Jay Deville, Halliburton. [#47]	
2:00	<i>Clay Swelling Inhibitors: Computer Design and Validation</i> - Mike Hodder and Steve Cliffe, M-I SWACO; Chris Greenwell, Univ of Durham; Pete Williams, Glyndwr Univ; Peter Coveney, Univ College. [#32]	<i>Planning and Executing a Multi-National HPHT Campaign</i> - Dominic Thomas and Keith Anderson, BG; Chris Steele, Elkem; Jason McGhie, Dave Marshall, Baker Hughes. [#36]	
2:30	<i>Manipulation of the Water Phase Salinity of Invert Emulsion Drilling Fluids to Widen the Safe Drilling Window</i> - Terry Hemphill, Halliburton; W. Duran, Saudi Aramco; Y. Abousleiman, M. Tranh, V. Nguyen and S. Hoang, Univ of Okla. [#33]	<i>Environmentally Responsible Water-Based Drilling Fluid for HTHP Applications</i> - Jorge Fernandez and Steve Young, M-I SWACO. [#37]	
3:00	<i>Separating Fact from Folklore about Drilling Fluids</i> – Fred Growcock, Steve Smith and Michael Freeman, M-I SWACO. [#34]	<i>HPHT Well: Fluid Selection, Planning and Lessons Learned</i> - Wade Wise, William Gusler, Nels Hansen, Brian Teutsch, Baker Hughes; Dominic Thomas, BG Group. [#38]	

Wednesday Program continued on next page



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<i>Technical Sessions – Room 1</i>		<i>Technical Sessions – Room 2</i>
3:30 – 4:00	Break – Exhibits and Student Poster Session Open	
4:00 – 5:30	Rheology & Hydraulics II	Solids Control
	<i>Session Chairs:</i> Ben Leonard, Chevron and Dave Clark, Baker Hughes	<i>Session Chairs:</i> Gerard Simon, Chevron and Leon Robinson, retired
4:00	<i>Rheology Predictions for Drilling Fluids after Incorporating Lost Circulation Material</i> - Garima Misra, Dale Jamison and Donald Whitfill, Halliburton. [#39]	<i>Effect of Constant-G Control on Shale Shaker Performance</i> - Khaled El Dorry, National Oilwell Varco. [#10]
4:30	<i>The Top 10 Myths, Misconceptions and Mysteries in Rheology and Hydraulics</i> - Mario Zamora and Fred Growcock, M-I SWACO. [#40]	<i>Continuum Model of a Shale Shaker</i> - Vidya Raja and George Chase and, University of Akron; Bradley Jones and Tom Geehan, M-I SWACO. [#11]
5:00	<i>Future Challenges of Drilling Fluids and Their Rheological Measurements</i> - Subhash Shah, Narayan Shanker, Chinenye Ogugbue, Univ of Okla. [#41]	<i>Intelligent, Automated Shale Conveyance: Rotary Screen Vacuum Assisted Gas and Solids Separation System for Drilling Fluids</i> - Trond Melhus, Charles Mowrey and Jan Kristian Vasshus, Cubility. [#12]

Alternates:

<i>Applications and Rheologies of Foamed Cement</i> - Kolawole Olowolagba and Vadhana Varadarajan, Halliburton. [#45]
<i>Non-Asphaltic, Fluid-Loss-Control Agent for High-Temperature Applications in Synthetic-Based Invert Emulsion Drilling Fluids</i> - Arvind D. Patel and Sashikumar Mettath, M-I SWACO. [#46]

* [xx] refers to the paper number. The full paper number is AADE-10-DF-HO-xx. This will make it easier to access the full text paper on the CD or AADE website.



Student Posters

Louisiana State University	<i>Characterizing Foam Rheology for UB Drilling Processes</i> - Rahul Gajbhiye
Texas A&M University	<i>Interfacial Instabilities During the Primary Cementing Placement</i> - Muhammad Zulqarnain
University of Alaska	<i>A New Mechanistic Annular Two-Phase Flow Determines the Limits of Gas/Mist Drilling Operations</i> - Arash Haghshenas
University of Calgary	<i>An Approach to Mitigating OA Down Squeeze Problems</i> - Nick Saunders
University of Louisiana at Lafayette	<i>Evaluation of Drilling Fluid Losses through Surface Control Equipment in Modern Onshore Drilling Practices</i> - Jarett Dragani
University of Oklahoma	<i>Drilling Hydraulic Optimization: From Theoretical Concepts to Practical Applications</i> - Mohammad Fazaelizadeh
University of Tulsa	<i>Wellbore Strengthening and Lost Circulation Prevention due to Smear Effect of Casing Drilling in Depleted Reservoirs</i> - Mojtaba Karimi
University of Texas	<i>Surge and Swab Pressure Predictions from Couette Flow of Non-Newtonian Yield-Power Law Fluids</i> - Freddy Crespo
University of Tulsa	<i>Shale Stability in Fresh Water Muds Using Nano-Particles</i> - Ben Spisak
University of Tulsa	<i>Modeling the Effect of Non-Ideality and Multiple Solutes on the Interactions between DF and Shale Formations</i> - Lu Huang
University of Tulsa	<i>Advances in Cuttings Transport with Foam</i> - Jaifu Xu

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 Technical Conference
 April 11-14, 2011
 Houston Hilton North**

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