

# AADE 2018 FLUIDS CONFERENCE

DAY 1 – April 10			
7:00 – 8:00	Breakfast sponsored by Newpark Drilling Fluids		
8:15 – 8:30	Opening Comments – Kim Burrows and Paul Scott, Conference Chairs		
8:30 – 9:30	<b>KEYNOTE – Richard Spears</b> , Managing Director, Spears & Associates, Inc. “Oilfield Equipment & Service Markets in 2018”		
<b>9:30 – 10:00</b>	Break sponsored by.... Exhibits and Student Posters Session Open		
	Room C	Room D	Galileo Room
10:00 – 12:00	<b>Drilling Fluids</b> <i>Session Chairs: Dave Clark, NRG Delta and Gianna Pietrangeli, Flotek</i>	<b>Emerging Technologies</b> <i>Session Chairs: Pradeep Ashok, Univ of Texas and Catalin Teodoriu, Oklahoma University</i>	<b>Mechanical Solutions</b> <i>Session Chairs: Mike Redburn, Newpark and Ron Morrison, Derrick Equipment</i>
10:00 – 10:30	<b>Monetizing Low Value Streams to High Value Emulsifiers: Performance Analysis and Field Application</b> - Shadaab Maghrabi, Delores Smith, Aaron Engel, Jennifer Henry and Joseph Fandel, Ingevity Corporation. #066	<b>Mixing Energy of Well Cements: The Gap Between Laboratory Testing and Field Job</b> – Fatemeh Saleh and Catalin Teodoriu, Univ of Oklahoma. #069	<b>Changing the MPD Game on Land – A Unique Solution to Further Advance Unconventional Drilling Performance Improvement</b> - Adam Keith, Andre Perales and Juan Pinzon, Nabors; Zach Baldwin and Randy Fletcher, Ultra Resources. #130
10:30 – 11:00	<b>30 Years of Mixed-Metal Technology (MMH/MMO): Where Are We Now?</b> - Dustin Richard and Felix Enriquez, Prince Energy. #027	<b>Listening to Your Pump: Mud Pump Diagnosis and Optimization Using Audio Data</b> - Catalin Teodoriu, Adonis Ichim, Saket Srivastava, Univ of Oklahoma; Mihail Minescu, Oil-Gas Univ Ploiesti. #070	<b>Improving Drilling Fluid Preparation with High-Shear Mixing in Liquid Mud Plants</b> – Jiengju Lin, Natalia Collins, Kevin Smith, Daan Veeningen, Highland Fluid Technology; Sam Smith, Newpark. #113
11:00 – 11:30	<b>Study on Hop Extract as Environmentally Friendly Stabilizer for Starch and Guar Polymers Used in Drilling and Fracturing Fluids</b> - Magdalena Strobl and Johann Plank, Technische Universität München. #016	<b>What is Wrong with My Drilling Data? Current State and Developments of Downhole Dynamics Measurement Tools</b> - Nii Nunoo, Alemzeb Khan, Stephen Forrester, NOV; Theresa Baumgartner, Univ of Texas. #040	<b>Mud Tank Arrangements</b> - Sam Bridges, Derrick Equipment; Leon Robinson, Retired. #115
11:30 – 12:00	<b>Transitions from Diesel Muds: Options, Properties, Rationale and a Proposal</b> – Richard Baxter and Matt Offenbacher, AES Drilling Fluids; Didier Bedel and Philippe Lemaire,	<b>Advanced X-ray Technology for Real-Time High-Pressure Mass Flow Rate Measurement</b> - Vivek Singhal, Pradeep Ashok and Eric van Oort, Univ of Texas. #126	<b>Novel Approach to Enhance the Quality of the Cement Operations in the Intermediate Section in Southern Iraq Oil Fields</b> - Ahmed Alsubaih, Basra Oil; Firas Albadran

	Total Fluides; Christopher Miano, Calumet. #037		and Nabeel Abbood, Basrah Univ for Oil and Gas; Haider Dahm, Misan Univ. #068
12:00 – 1:30	<b>LUNCH</b> <b>Hall of Fame – Class of 2018</b>		
	<i>Robert C. Ayers, Jr.</i> <i>Robert M. Beirute</i>	<i>Ronald G. Bland</i> <i>Frederick B. Growcock</i>	<i>Donald D. Schmidt</i> <i>Dwight K. Smith</i>
1:30 – 3:00	<b>Reservoir Drill-In Fluids &amp; Completion Fluids</b> <i>Session Chairs: Clint Deike, Tetra and Leigh Gray, Newpark</i>	<b>Cementing I</b> <i>Session Chairs: Dan Mueller, ConocoPhillips and Ron Sweatman, RS Consulting</i>	<b>Students</b>
1:30 – 2:00	<b>Minimizing Formation Damage While Using API Grade Barite Laden Nonaqueous-Based Systems to Drill Reservoir Sections of Open-Hole Completed Producer Wells – Case Studies</b> - Cedric Manzoleloua, Paulo Pauferro Junior, David Li and Wenwu He, M-I SWACO. #060	<b>Water and Oil Dual-Absorption Material Modified Oil Well Cement for Preventing Water and/or Oil Channeling</b> - Chunyu Wang, Yuhuan Bu and Jiapei Du, China Univ of Petroleum. #008	Student presentations
2:00 – 2:30	<b>Magnetorheological Drilling Fluids: Modification of Viscosity Downhole</b> - Garrett Nielsen, Babak Akbari and John Estrada-Giraldo, Louisiana State Univ. #077	<b>Micro-Composite as a Fluid Loss Additive for Oil Well Cementing</b> - Mohamed Al-Bagoury, Elkem. #065	
2:30 – 3:00	<b>Overcoming the Temperature Limitations of Brine-Based Reservoir Drill-In Fluids</b> - Daniel Blanco, Balakrishnan Panamarathupalayam, Cedric Manzoleloua, William Foxenberg and Steve Young, M-I SWACO. #062	<b>Effects of Thermal Stresses on Cement Seal Integrity in OCS Wells</b> - Nathan Pinkston and Alistair Gill, Wild Well Control; Paul Sonnier, Kyle Combs and Larry Watters, CSI Technologies. #030	
3:00 – 3:30	Break sponsored by ... Exhibits and Student Posters Session Open		

3:30 – 5:30	<b>Non-Aqueous Drilling Fluids</b> <i>Session Chairs: Burney Lee, Shell and Neil Trotter, Chevron</i>	<b>Waste Management</b> <i>Session Chairs: Jeff Tyson, Scott Energy and John Candler, M-I SWACO</i>	<b>Students</b>
3:30 – 4:00	<b>2<sup>nd</sup> Generation Low ECD Fluids for Narrow-Margin Deep-Water Drilling: Meeting Future Challenges</b> - Paul Hanson, Alan Rodgerson, David Knox and Juan Carlos Rojas (BP). #028	<b>Kinetics of Batch Microwave Drying of Drill Cuttings Contaminated with an Olefin-Based Fluid</b> - Ana Mota, Jéssika Santos, Marina Pereira and Carlos Ataíde, Federal Univ of Uberlândia. #099	Student presentations
4:00 – 4:30	<b>A New Direct Emulsion Drilling Fluid: Design, Delivery, and Lessons Learned</b> – James Strickland, Reggie Bell, Matt Offenbacher, AES Drilling Fluids; Rusty Connell and Lindsay Earle, Occidental Oil & Gas. #102	<b>The Role of HLB in Surfactants for Drill Cuttings Cleaning</b> - Cornell Stanciu, Jorge Fernandez and Brent Lambert, Sasol. #046	
4:30 – 5:00	<b>Successful Application of Direct Emulsion Fluid in Oklahoma Shale and the Delaware Basin</b> – Josh Harton and Mike Redburn, Newpark. #082	<b>Practical Approaches to Removing Thermal Treatment By-Products in Drilling Waste Management</b> – Katerina Newman and Michael Morgenthaler, Cutpoint; Vladimir Gargoma, Quality Group Belgorod. #114	
5:00 – 5:30	<b>Impact of Biodiesel on Diesel-Based Drilling Fluids: A Laboratory Evaluation</b> - Rahul Dey, Wenqiang Zeng and Esmeraldo Jimbi, M-I SWACO. #006	<b>Hydrocarbons Separation from Drilling Waste: Mud and Cutting Treatment Using Deep Eutectic Solvents</b> - Geir Hareland Jr., Saman Akhtarmanesh, Runar Nygaard and Geir Hareland, Oklahoma State Univ. #076	

**DAY 2 – April 11**

7:00 – 8:00	Breakfast sponsored by Gravity		
8:00 – 10:00	<b>Testing &amp; Measurement</b> <i>Session Chairs: Alan Rodgerson, bp and George Fisher, NOV</i>	<b>Lost Circulation</b> <i>Session Chairs: Yongcun Feng, Univ of Texas and Fred Growcock, consultant</i>	<b>Student Workshop</b>
8:00 – 8:30	<b>Steel Corrosion Detection and Quantification Real-Time Using the Nondestructive Test with Vipulanandan Impedance Corrosion Model</b> – C. Vipulanandan and C. Chockalingam, Univ of Houston. #116	<b>While-Drilling 'Shield' Stabilizes Eagle Ford Wells, Eliminates Casing String</b> - Marcus Brassette, Rodney Uchytel, Jack DeGrand, and Cody Wellman, Impact Fluid Solutions. #124	TBA
8:30 – 9:00	<b>Operational Results from Near-Line Electronic Composition Measurements in Non-Aqueous Fluids and Early Results of In-Line Testing</b> – John Large, Alan Finlay, Martin Harrison, Salunda; Zafar Kamal, OFI Testing Equipment. #107	<b>Drilling Strategies to Control Lost Circulation in Basra Oil Fields, Iraq</b> – Husam Alkinani, Abo Taleb Al-Hameedi, Ralph Flori, Shari Dunn-Norman and Steven Hilgedick, Missouri Univ of Sci and Tech; Ahmed Amer, Newpark; Mortadha Alsaba, Australian College of Kuwait. #059	
9:00 – 9:30	<b>Lab-Scale Real-Time Mud pH and EC Monitoring System while Drilling in Hydrogen Sulfide Formations</b> - Ethar Alkamil and Ralph Flori, Missouri Univ of Sci and Tech; Ahmed Abbas, Iraqi Drilling Co. #034	<b>Successfully Controlling Fluid Losses in Troublesome Zones of Jurassic to Permian Age in Offshore United Arab Emirates Utilizing a Newly Optimized Crosslinked Borate Fluid Loss System</b> – Patrick Bijjani, Graeme Dawson and Paul McCurdy, ADNOC Sour Gas; Mark Luyster, Kim Tresco and Jay Dobson, TBC-Brinadd; Marcos Anez, Global Chemical. #019	
9:30 – 10:00	<b>Barite Sag Measurements Using a Portable Dynamic Flow Loop</b> - John Troncoso, Ken Slater and Juan Pablo Jaimes, M-I SWACO. #048	<b>Innovative Lost Circulation Control Methods: Managed Temperature Drilling, Thermal Wellbore Strengthening &amp; OBM/SBM-to-Cement Conversion</b> - Eric van Oort, Univ of Texas. #121	
10:00 – 10:30	Break sponsored by ....		

	Exhibits and Student Posters Session Open		
10:30 – 12:00	<b>Wellbore Stability</b> <i>Session Chairs: Ahmed Amer, Newpark and Kenneth Kunze, addenergy</i>	<b>Cementing II</b> <i>Session Chairs: Juan Pinzon, Nabors and Marc Summers, contractor</i>	<b>Student Workshop</b>
10:30 – 11:00	<b>Wellbore Shielding Spacer Improves Cement Bond While Preventing Cement Losses</b> - David Kulakofsky, Impact Fluid Solutions; Joe Huwel and Larry Mitschke, Nine Energy Services. #129	<b>An Overview of Annular Displacement Efficiency in Cementing Jobs Using an Efficient Numerical Model</b> - Hu Dai and Gefei Liu, Pegasus Vertex. #094	TBA
11:00 – 11:30	<b>Wellbore Stabilization for Unconsolidated Formations in the Greater Permian Basin</b> - Zhuo Chen, Chris Snider and Reece Perkins, Horizon Mud. #029	<b>PCE Superplasticizers Used as Dispersants in Oil Well Cementing</b> – Yu Bin, Zhao Hu and Luo Yuwei, China Oilfield Services; M. Moumin and J. Plank, Technische Universität München. #017	
11:30 – 12:00	<b>Engineered Lost Circulation Combinations with Reticulated Foam Yields Unprecedented Results in the Powder River Basin</b> - Dustin Barnes, Don Whitfill and Ifueko Akpata, Halliburton; Max Wang, Sharp-Rock Technologies. #112	<b>Deepwater Cementing – A Holistic Approach to Landing Sub Sea Release Wiper Plugs</b> - George Fuller, Darko Kupresan and Cecil Bernhard, Shell. #127	
12:00 – 1:30	<b>LUNCH</b> Awards Presentations, Luncheon Speaker		
1:30 – 3:00	<b>Panel – Big Data Analytics and How Automation Impacts the Industry</b> Moderator: Nils Kageson-Loe		
3:00 – 3:30	Break sponsored by		

3:30 – 5:30	<b>Modeling</b> <i>Session Chairs: Sanjit Roy, QMax and Doug Simpkins, Newpark</i>	<b>Case Histories</b> <i>Session Chairs: Brent Estes, Chevron and David Breeden, Breeden Mud Consulting</i>	<b>Chemical Solutions to Well Construction Challenges</b> <i>Session Chairs: Matt Offenbacher, AES Fluids and Tab Haygood, Gulfport Energy</i>
3:30 – 4:00	<b>In-Situ Property Enhancement of Smart Spacer Fluid Modified with Iron Oxide Nanoparticles for Cleaning Bentonite Contamination and Characterized Using the Vipulanandan Rheological Model</b> – C. Vipulanandan and A.R. Maddi, University of Houston. #117	<b>Saturated Salt and Diesel Emulsion Fluid Reduces Drilling Costs in New Mexico</b> – Rusty Connell, Derek Adam and Lindsay Earle, Occidental Oil & Gas; J.J. Miller and Justin Langley, Halliburton. #049	<b>Changes in Drilling Fluid Rheology with Emulsifier Type</b> - Gilles Numkam and Babak Akbari, Louisiana State Univ. #045
4:00 – 4:30	<b>Real-Time Friction Factor Monitoring: Characterization of Drag Reduction in Polymer-Based Fluids</b> - Mitchell Johnson, Sercan Gul, Ali Karimi, Besmir Hoxha, and Eric van Oort, Univ of Texas. #118	<b>Novel Dewatering System Successfully Used in Remote Area of Kenya</b> – Matt Emery, Barry Simpson and Adrian Longley, QMax. #080	<b>A Novel Method to Evaluate Ability of Surfactants in Slickwater Fluids to Minimize Formation Damage and Optimize Hydrocarbon Recovery after Hydraulic Fracturing</b> - Hyuntae Yang, John Hutchison, Jonathan Mohandessi, Dawn Friesen and Aaron Sanders, Stepan Oilfield Solutions. #061
4:30 – 5:00	<b>Parametric Analysis of Efficiency Using an Efficient Mud Displacement Modeling Technique</b> - Yanfang Wang, Louisiana State Univ; Hu Dai, Pegasus Vertex. #096	<b>The Use of a New Micronised Ilmenite to Successfully Drill Record ERD Wells – Case Histories</b> - Christopher Steele (Elkem). #055	<b>Empirical Studies of the Effectiveness of Bio-Enhancers (Food Waste Products) as Suitable Additives in Environmental Friendly Drilling Fluid Systems</b> - Kingsley Amadi, M. Alsaba, Australian College of Kuwait; I. Iyalla, Robert Gordon Univ; M.F. Al Dushaishi, Texas A&M Intl; A. Al-Hameedi and H. Alkinani, Missouri Univ of Sci and Tech. #105
5:00 – 5:30	<b>Numerical Modeling of Wellbore Ballooning: Linking Mud Circulation in the Wellbore and Fracture Opening/Closing in the Rock</b> - Yongcun Feng and K.E. Gray, Univ of Texas. #063	<b>Achieving Drilling &amp; Development Targets in Remote Areas of East Africa Through Fit-For-Purpose Planning</b> - Gamal Iskander and Wael El Essawy, QMAX; Peter Peytchev, Graham Sawyer, Ian Garrett, Pulkit Goel and Balu Meempat, Tullow Oil.	<b>Effective Hole Cleaning Beyond 25,000 Feet Challenges Industry Practices</b> – Justin Parson, James Strickland and Matt Offenbacher, AES Drilling Fluids. #103



**Alternate**

**A Holistic Approach to Characterize Mud Lost Circulation Using Dynamic Filtration Data –**  
Chinedum Ezeakacha and Saeed Salehi, Univ of Oklahoma; Hongfeng Bi (Grace Instrument). #031

**Student Posters and Papers.** The optional student papers can be found on the AADE website (if submitted) and are numbered AADE-18-FTCE-SPP-xx, where xx refers to the number in brackets from this list.

Missouri University of Science and Technology	<b>Analysis and Classification of Lost Circulation Materials and Treatments Used in Basra Oil Fields, Iraq – Husam Alkinani. [01]</b>
Missouri University of Science and Technology	<b>Using a Developed Real-Time Mud Contamination Monitoring Simulator in Ummer-Radih and Tayarat Hydrogen Sulfide Formations – Ethar Al-Kamil. [02]</b>
Montana Tech	<b>Understanding Cuttings Transport in Extended Reach Drilling Through Advanced Modeling and Experimentation – David Rathgeber.</b>
New Mexico Institute of Mining and Technology	<b>An Experimental Study on the Impact of Total Dissolved Solids and Total Suspended Solids on Friction Reducers for the Reuse of Flowback and Produced Water – Mitchell Gipson. [04]</b>
University of Louisiana at Lafayette	<b>A New Experimental Analysis Method of Fracture Mechanisms of Sandstones Using Micro-Level Observation and Digital Imaging Correlation – Wenhao (Vincent) He. [05]</b>
University of Louisiana at Lafayette	<b>Cement/Rubber Composites: A New Approach to overcome downhole cementing challenges in HPHT Deep Water Wells – Brant Jones [06]</b>
University of Louisiana at Lafayette	<b>The Establishment of Educational and Research Cement/Barrier Lab at the University of Louisiana at Lafayette – Colby Williford. [07]</b>
The University of Oklahoma	<b>Modeling the Propulsion Force for Radial Jet Drilling – Andrew Wiechman. [08]</b>
The University of Texas at Austin	<b>End-to-end drilling optimization using machine learning models – Chiranth Hegde [09]</b>
Universidade Federal Rural do Rio de Janeiro - UFRRJ/Brasil	<b>Modeling of Heat Transfer and Pressure Drop in Coiled Tubing Cementing Operations in Deepwater Environments – Caroline Eulino Gonçalves Pereira. [10]</b>
Universidade Federal Rural do Rio de Janeiro - UFRRJ/Brasil	<b>Analysis of Mudcake Properties After Filtration Preceded or Not by Sedimentation of Newtonian and Non-Newtonian Fluids – Isadora de Jesus da Silva. [11]</b>