AMERICAN ASSOCIATION OF DRILLING ENGINEERS

2026 FLUIDS

THE PREMIER TECHNICAL CONFERENCE AND EXHIBITION

7-8 APRIL 2026 | MARRIOTT MARQUIS | HOUSTON, TEXAS

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DAY 1 – April 7, 2026

7:00 – 8:15	**Breakfast –** Sponsored by **Vibrantz** **Exhibits open in Foyer**		
8:15 – 8:30	**Opening Remarks** – Conference Chairs: Ryan Gimmler and Sharath Savari (Halliburton)		
8:30 – 9:30	**KEYNOTE in Salons D-E** **Diego Tellez, Director of Drilling & Completions, (OXY)** *Driving Capital Efficiency in Drilling & Completions: An Operator's Perspective*		
9:30 – 10:00	**BREAK -** Sponsored by **Enventives** **Exhibits and Student Posters open in Foyer**		
	Salon A	**Salon B**	**Salon C**
10:00 – noon	**Lubricants** **Session Chairs: Marshall Heard (Dover Chemical) and Richard Toomes (AES Drilling Fluids)**	**Cementing** **Session Chairs: Ashok Santra (Aramco) and Joe Shine (Shine Well Integrity Solutions)**	**Young Professionals Panel** **Moderator: JP Warren** (Crüe Club & Connection Crüe) **Mayra Martinez** (OXY) **Eden Torres** (BP) **Sai Dudala** (BP)
10:00 – 10:30	**Tribology Science as a Novel Approach for Design, Testing, and Application of Lubricants in Oil and Gas Wells** - Mario Ramirez, Oyin Dina, Marcus Banks, and Troy Griffin (Drilling Specialties); Ashlie Martini and Kevin Moreno-Ruiz (Univ California - Merced). #005	**Enhancing Well Integrity Self-Healing Cement as a Solution for Sustained Casing Pressure in Qatar** - Muhammad Khan, Zahid Karajagi, and Nader Ghobrial (North Oil Company); Surya Pallapothu, Thein Phyoe, Zakia Makhlouf, Mohamed Farhoud, and Jorge Santiapichi, and Eka Yasrul (SLB). #012	
10:30 – 11:00	**Understanding the Behavior and Performance of Lubricants in Water-Based Drilling Fluids Leads to the Development of an Efficient Powdered Lubricant** - Arvind Patel, Vivek Gupta, Anil Singh, and Rajesh Rao (Gumpro). #008	**Laboratory Evaluation of Cement Expansion and Shrinkage Using a Novel HPHT Cube-Mold Testing System** - Shannon Bryant and Tad Nott (OFITE). #027	
11:00 – 11:30	**Unlocking Ultra-Shallow ERD Potential: The Science of Lubricant Selection and Deployment** – N. Alfonzo, S. Ali, A. Al-Zahrani, and M. Hamani (Aramco). #054	**Mechanical Integrity of Alternative Cementing Materials for CCS Environments** - Athar Hussain, Conrad Longman, and Ahmed Mansour (ProPetro Services); Grant Kuwata, Diana Fernandez, Sugan Thiyagarajan, and Hossein Emadi (Texas Tech University). #073	
11:30 – noon	**Minimizing Friction and Wear in Shale Plays Utilizing a Multi-Phase Lubricant** - Terrell Jensen, Landon Little, Marcus Banks, Madison Dettenhaim, and Mario Ramirez (Drilling Specialties). #109	**Oilwell Cementing with Reduced Carbon Footprint** - Ashok Santra, Kenneth Johnson, and Roland Martinez (Aramco). #015	
noon – 1:15	**LUNCHEON in Salon D-E** **AADE President – Remie Ferreira (Paragon ISG)** **Wayne Bryant Service Award** **Hall of Fame Class of 2026** Roy A. Bobo		

	Michael A. Freeman James E. Friedheim James A. Headley Robert L. Horton

** #000 refers to the paper number. The full paper number is AADE-26-FTCE-XXX where XXX refers to the #000.*

Day 1 – Afternoon

	Salon A	Salon B	Salon C
1:30 – 3:00	**Non-Aqueous Drilling Fluids** **Session Chairs: Andrew Hewett (AES Drilling Fluids) and Meng Lu (CNPC USA)**	**Zonal Isolation** **Session Chairs: Mohammed Ba Geri (Newpark) and Al Guidry (Halliburton)**	**Student Contest**
1:30 – 2:00	**Base-Fluid Influence on Additive Compatibility in Non-Aqueous Drilling Fluids for High-Temperature Wells** - Shawn Lu (P2 Energy Services); Don Van Slyke (Shell); Charlie Chitwood (Comstock). #036	**High Temperature Non-Portland Cement for Wellbore Zonal Isolation** - Guoqing Jian, Ashok Santra, Kenneth Johnson, and Roland Martinez (Aramco). #062	
2:00 – 2:30	**Fit-for-Purpose Non-Aqueous Drilling Fluids: A Data-Driven Review of Electrical Stability** - Richard Toomes and Matthew Offenbacher (AES Drilling Fluids); Ahmed Amer (Oxy) and Fred Growcock (Consultant). #082	**Innovative Spacer Enhancement Sets Benchmark for Downhole Performance** - Joe Shine (Shine Well Integrity Solutions); Francisco Bermudez (Impact Fluid Solutions); Roni Martanto (NESR). #085	
2:30 – 3:00	**Challenging the Norm: Are Non-Aqueous Fluids Truly Efficient in Modern Drilling Operations?** - Hugo Osorio, Rafael Pino, Mohammed Nasser, and Gustavo Moreira (Aramco); Ahmed Abulnasr and Oscar Gonzalez (Halliburton). #099	**Fiberglass-Reinforced Cement for Improved Mechanical Properties and Zonal Isolation** - Ahmad Alshammari, Silvio Baldino, and Evren Ozbayoglu (University of Tulsa). #043	
3:00 – 3:30	**BREAK -** Sponsored by **Genesis Fluids** **Exhibits open in Foyer**		
3:30 – 5:00	**Drilling Fluids** **Session Chairs: Ajay Addagalla (Baker Hughes) and JJ Miller (Halliburton)**	**Sealants to Prevent/Solve Lost Circulation** **Session Chairs: Arthur Hale and Hugo Osorio Cuellar (Aramco)**	**Student Contest**
3:30 – 4:00	**Novel and Bio-Based Defoamer Chemistry for Water-Based Drilling Fluids** - Jayachandran Perumalsamy, Benjamin Swoboda, Jean-Yves Lansot, and Vivekkumar Tiwari (TotalEnergies). #024	**Wellbore Shielding Technology: A Proven Solution for Drilling Fluid Optimization and Cost Reduction in Shale Plays -** Sebastian Dilucente and Valentina De Antoni (Impact Fluid Solutions); Romer Fuenmayor (Pluspetrol). #060	
4:00 – 4:30	**High Temperature Universal Fluid System for Drilling and Cementing** - Guoqing Jian, Ashok Santra, and Roland Martinez (Aramco). #055	**Polyimide One-Step Adhesive for Cement and Bonding Performance at High Temperature** - Elizabeth Contreras, Kenneth Johnson, and Thomas Heinold (Aramco). #019	

4:30 – 5:00	**Innovation of a Water-Based Fluid with Dual Inhibition for Drilling Reactive Formations in the Lower Magdalena Valley -** Francisco Carrión, Carolina Lopez, Daniel Knijnik, Andres Garcia, Carlos Restrepo, Harold Chica, and Maria Paramo (SLB). #091	**Torque Management Optimization in Qatar Offshore ERD Wells Using Wellbore Shielding Additives** - Muhammad Khan, Zahid Karajagi, and Nader Ghobrial (North Oil Company); Khemraj Ganesh (Impact Fluid Solutions). #049	

	DAY 2 – April 8, 2026		
7:00 – 8:15	**Breakfast –** Sponsored by **DrillChem** **Exhibits and Student Posters open in Foyer**		
8:30 – 10:00	**Panel in Salon D-E** **PANEL – Managed Pressure Drilling** **Moderator: Eric van Oort** (University of Texas at Austin) • **Matt Kvalo** (Stasis Drilling Solutions) • **Oscar Gabaldon** (Blade Energy Partners) • **Blaine Dow** (SLB) • **Shaun Toralde** (Weatherford)		
10:00 – 10:30	**BREAK –** Sponsored by **CS Oilfield** **Exhibits and Student Posters open in Foyer**		
	Salon A	**Salon B**	**Salon C**
10:30 – noon	**Revisiting Additives for Invert Emulsion Fluids** **Session Chairs: Tatiana Conn (SLB) and Jim Friedheim (Consultant)**	**High Temperature Solutions** **Session Chairs: Gregory Terpenning (AES Drilling Fluids) and Jason Brady (American Cementing)**	**Techniques, Processes & Equipment** **Session Chairs: Barrett Watts (SLB) and Mauricio Longoria (Halliburton)**
10:30 – 11:00	**Field Validation of a TOFA-Free Emulsifier for Cost-Effective OBM Performance** – Asad Jafri, Megan Atkins, Khalil Rehman, and Ayemon Malik (SLB). #007	**Evolution of Drilling Fluids for Enhanced Geothermal Systems** – Rafael Pino, Hugo Osorio, and Fuad Almuqati (Aramco); Alessandro Cascone, Lucio Bussaglia, and Carl Thaemlitz (Newpark). #087	**Engineered Chemical Solutions for Enhanced Reliability During Liner-in-Liner Re-Frac Operations** - Richard Collins and Zach Turi (DrillChem); Sean Rosenfield (Crescent Pass Energy). #032

11:00 – 11:30	**Resilient and Renewable: TOFA Supply Chain Outlook and Bio-Oil Innovation for Oilfield Fluids** – Allison Proctor and Megan Wilt (Kraton). #037	**Redefining HPHT Drilling Fluids: Enhanced Oil-Based Drilling Fluid System for Deepest & Highest Temperature Exploration Well in Mahakam Block, Indonesia** - Welria Putra, Bram Yuwono, and Yusrhan Baidhowie (SLB); Wiryawan Suraji, Bramarandhito Sayogyo, Riko Riko, Himawan Kartaatmadja, Boby Hendarno, Ade Lesmana, Iman Satoto, and Virgina Sitompul (Pertamina). #053	**Enhanced Performance of High-Density Synthetic-Based Drilling Fluids Utilizing Recovered Base Synthetic Extracted from a Waste Drilling Fluid using a Novel Thermomechanical Process** - Mukesh Kapila (Circul8 Energy and Environment); Nils Kaageson-Loe (BakerHughes). #040
11:30 – noon	**Beyond TOFA: Expanding the Raw Material Base for Non-Aqueous Fluid Emulsifiers -** Christine Nguyen and Antoine Thuriere (Newpark). #078	**Integrated Fluid Cooling Technologies Reduce Bottomhole Temperatures -** Luther Gressett, Mark Canlas, and Reza Fard (NOV). #063	**Shaker Screen Break Detection via Dynamic Image Analysis: See the Break -** Tod Canty and Ryan Sheehan (JM Canty). #066
noon – 1:30	**LUNCHEON and Awards Presentations – Salon D-E** **Sandy Purdy Award for Best Student Presentation** **Student Contest Awards** Presentation by Student Winner		

DAY 2 – Afternoon

	Salon A	Salon B	Salon C
1:30 – 4:00	**AI & Modeling** **Session Chairs: Dinesh Mohan (SLB) and Preston May (Halliburton)**	**Managed Pressure Drilling** **Session Chairs: Charlie Chitwood (Comstock Resources) and Hatem Shabaka (Halliburton)**	**Solids-Laden Fluids** **Session Chairs: Brittany Thibodeaux (Newpark) and Pawilai Hallmark (SLB)**
1:30 – 2:00	**Realizing the True Value of Real-Time Fluids Measurement Technology** - Reagan James and Pal Johannessen (Intelligent Mud Solutions); Carl Thaemlitz and David Knox (Newpark). #074	**Standardized Performance Testing of Organophilic Clays for Non-Aqueous Drilling Fluids** - Barrett Watts, James Stark, Hoang Nguyen, Mary Meng, Xiang Ma, and Xuanshi Fan (SLB). #039	**Optimizing Drilling Fluid Management for Subsurface Injection: A Process Improvement Approach to Operational Efficiency** – M. Redburn, M. Malerich, J. Bocage, R. Haag, and C. Johnson (ConocoPhillips); B. Sanchez (SLB). #018
2:00- 2:30	**Operational Performance Enhancement Through Digital Enablement Applied to Drilling Fluids** – N. Alfonzo, R. Pino, and F. Al-Muqati (Aramco); M. Dourado (SLB). #095	**An Engineered Blend of Micro-Particles Increases Wellbore Integrity and Enhances Traditional LCM Sealing Capabilities** - Richard Collins and Zach Turi (DrillChem). #030	**Drilled-Solids Removal Equation and Other Tools for NAF Management** - Mike Morgenthaler (Cutpoint); Weston Hinton (Data Rx). #044
2:30 – 3:00	**BREAK -** Sponsored by **Genesis Fluids** **Exhibits open in Foyer**		

3:00 – 3:30	**Redefining Offset Well Analysis and Knowledge Capture with Artificial Intelligence Techniques** - Alexandra Morrison, Mateusz Dyngosz, Aidan Porter, and Alfredo Brito (Halliburton). #102	**Designing and Engineering a Drilling Fluid to Drill Overpressure Shale and Depleted Limestone in a Single Section – a Middle East Case History** – A. Al-Khaldy, A. Al-Mutairi, I. Abdelrahman, M. Kader, S. Gupta, and M. Marrazzo, (KOC); L. Bussaglia, A. Cascone, F. Samaan, and M. Ishak (Newpark). #100	**High-Energy Solutions for Shale Shakers: Increasing the Capacity of Existing Equipment to Support Faster Drilling Rates** - Michael Dykalski, Octavio Perez, and Ben Hilti (Fluid Systems Inc). #052
3:30 – 4:00	**A Database-Driven Methodology for Lubricant Selection in Water- and Brine-Based Drilling Fluid Applications** - Antoine Thuriere, Christine Nguyen, and Jacob Thaemlitz (Newpark). #083	**Nano Wellbore Sealants: A Novel Approach to Mitigating Formation Instability in Drilling Operations** - Joshua Smith and J.J. Miller (Halliburton). #097	**Enhancing Drilling Performance Through Reduction of Mechanical Friction in High-Density Aqueous Fluids** - Mohamed Al-Bagoury, Yohnny Gonzalez, and Rahul Dey (Elkem). #069

Alternates

Innovative Strategies for Mitigating Losses Across Horizontal Reservoir Sections with Self-Degradable Fibers and Acid-Soluble Particulates in Qatar - Muhammad Khan, Zahid Karajagi, Nader Ghobrial, and Daniel Ahuar (North Oil Company); Surya Pallapothu, Thein Phyoe, Jorge Santiapichi, Mohamed Hacene, and Eka Yasrul (SLB). #013
Grafted Graphene for Drilling Fluids Applications - Ashok Santra (Americas). #014
Characterizing Transient Flow Using Time-Dependent Modified Yield Power Law Model - Samet Yanik and Evren Ozbayoglu (University of Tulsa). #020
Spotting Fluid Testing Methodology Development - Rostyslav Dolog, Ashok Santra, Roland Martinez, and William McDonough (Aramco). #022
Integrated Real-Time Surface Wetting Characterization for Optimized Wellbore Spacer Design - Shannon Bryant and Tad Nott (OFITE). #028
Optimizing Boundary Layer Lubrication for Torque and Drag Reduction in Extended Reach Drilling - Richard Collins, Dustin Richard, and Zach Turi (DrillChem). #031
Advanced Analytical Tools to End Oilfield Mysteries for Drilling Fluids - Matthew Offenbacher and Richard Toomes (AES Drilling Fluids); Charlie Chitwood (Comstock Resources). #059
New Techniques Identify Ash Bed Contamination to Mitigate Drilling, Fluid, and Production Risk - Chong Dai, Leigh Gray, and Matthew Offenbacher (AES Drilling Fluids). #092
Investigating the Potential of Drill Cuttings in Well Barrier Systems – A. Cedola, E. Sones, C. Meyer, J. Bolanos, and T. Baird (Exero Well Integrity). #098

STUDENT CONTEST

UNDERGRADUATE STUDENTS		
University of Wyoming	Joseph Hajba	Shale Inhibition and Fluid Loss Control via Coupled Nano–Micro Additive Dynamics in PAC–Wyoming Bentonite Water-Based Mud. [01]**
	Tate Novodvorsky	Optimizing KCl and CaCl2 Barite-Weighted High-Performance Water-Based Mud for Cost-Effective Drilling in Clay-Rich Shales. [02]
GRADUATE STUDENTS		
Texas Tech University	Ohinoyi Moiza	Ensemble Machine Learning Framework for Real-Time Drilling Fluid Performance Optimization and Non-Productive Time Reduction. [03]
Universidade Federal do Rio de Janeiro	Alexandre Barroso	Application of Wellbore Shielding® Technology for Loss Control and Wellbore Stability in the 3-AND-5-RN Project. [04]
	André Miguel	Experimental validation of a computer vision system for monitoring drill cuttings removal on shale shakers. [05]
	Ricardo Fontes	Sediment permeability and heterogeneity predictions for confined drilling fluids: improving an APB mitigation technique. [06]
University of Houston - Houston	Mohammed Maase Saddapalli	Design of Non-Damaging Drilling Fluids for Depleted Reservoirs. [07
	Sheel Vyas	Extended-Temp-Range-Drilling Fluid Additive System for Drill Pipes related Issues.[08]
University of Louisiana at Lafayette	Derrick Adjei	Optimizing Olivine-Induced Class H Cements for CO2-Resistant Wellbore Plugs in Louisiana. [09]
	Waleed Alnasser	Recent Development in Prediction of Cement Degradation in CO2-Exposed Wells: A Decade Literature Review. [10]

University of Oklahoma	Elvin Allahverdiyev	The Upcoming Deep Dust Drilling Project: Design Philosophy Behind the Tight-Clearance Surface-to-TD Slimhole Coring Well. [11]
	Chinedu Ejike	Steel vs. Titanium Drill Strings in Stick Slip Vibration: A Combined Laboratory and Simulation Study Using Scaled Models. [12]
	Tayyab Shahid	Real-Time Multi-Sensor HPHT Testing System for Geothermal Downhole Tool Integrity and Zonal Isolation Performance. [13]
University of Wyoming	Paden Knull	Experimental and Mathematical Modeling of Mowry Shale Swelling in Bentonite-Rich Zones: Effects of Salt Type and Concentration. [14]
	Abdallah Mehanna	Optimizing Oil-Water Ratio in Clay-Rich Unconventional Reservoirs. [15]

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