The Global Premier Drilling, Completion, Cementing and Fracturing Fluids Conference

TECHNICAL PROGRAM OVERVIEW

**Tuesday, April 15**
7:00 am – 8:30 am Breakfast
8:15 am – 8:30 am Opening: Fred Growcock and Jason Scorsonc, Conference Chairs
8:30 am – 9:30 am Keynote Speaker: Dr. Stephen R. Igo, Executive Director, Pumps & Pipes, “MWD/LWD the Arteries of the Heart”
10:00 am – 5:30 pm Technical Papers
10:00 am – 3:00 pm Student Presentations: (Galileo Room)
12:00 pm – 1:30 pm Luncheon: AADE Fluids Hall of Fame Induction, Class of 2014
5:30 pm – 7:30 pm Cocktail Reception: (AADE NEXT Group Challenge)
Student Posters during breaks

**Wednesday, April 16**
7:00 am – 8:30 am Breakfast
8:00 am – 5:00 pm Technical Papers
10:00 am – 12:00 pm Student Interactive with AADE Professionals: (Galileo 1 Room)
12:00 pm – 1:30 pm Luncheon Speaker: Dr. Eric van Oort, University of Texas, “Fluids Automation: Past, Present and Future”
AADE Awards Presentations during Luncheon
  • Sandy Purdy Gold Medal for Best University Student Poster
  • Wayne Bryant AADE Service Award
1:30 pm – 3:00 pm Plenary Panel: Ben Bloys, Chevron, Moderator
  “Drilling Past Regulations and into New Frontiers”
3:00 pm – 3:30 pm Best Exhibitor Award
Student Posters during breaks

Registration booth opens at 7:00 am each morning.
### Tuesday April 15 2014 | TECHNICAL SESSIONS

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00 – 8:30</td>
<td>Breakfast sponsored by Newpark Drilling Fluids</td>
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<td>Opening Comments – Fred Growcock and Jason Scorsone, Conference Chairs</td>
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<td>9:30 – 10:00</td>
<td>Break sponsored by BASF Global Oilfield Solutions</td>
<td>Exhibits and Student Poster Session Open</td>
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#### Room C

**Completions**

- Session Chairs: Richard McCoy (Fieldwood Energy) and Tom Carlson (Schrieve)

- New Optimized Laboratory Testing Methods to Study the Effectiveness of Surface Modification Agents – Christopher Parton, Philip Nguyen, Loan Vo, and Jessica Heeter (Halliburton). [01]*


- Acidizing High Temperature Carbonate Reservoirs Using Methanesulfonic Acid: A Coreflood Study – Alexis Ortega and Hisham Nasr-EI-Din (Texas A&M Univ) and Shawn Rimassa (BASF). [03]

- High Volume, High Capacity Filtration System for Ultra Deepwater Environments – Edward Rapp (TETRA). [05]

#### Room D

**Cementing**

- Session Chairs: Greg Mullen (ConocoPhillips) and Heath Williams (Schlumberger)

- Characterizing Smart Cement with Sodium Metasilicate for Real Time Monitoring of Ultra-Deepwater Oil Well Cementing Applications – Cumaraswamy Vipulanandan and K. Ali (Univ of Houston), G. Narvaez (Baker Hughes), D. Richardson and J. Pappas (RPSEA). [06]

- Modeling the Effect of Curing Pressure on the Viscosity Evolution of Oilwell Cement – Xueyu Pang, Pauline Otieno and Gary Funkhouser (Halliburton). [06]

- A Formulated Silicate-Based Preflush & Spacer for Improved Wellbore Cleaning and Wetting – Michael McDonald and Xanglian Li (PG) and Brian Lim (Magnum). [55]

- Waste Recycled Glass Powder as a Pozzolanic Additive for Cementing Oil Well – Vandana Pandey, Rahul Patil, Dibyadarshani Senapatli and Sheetal Singh (Halliburton). [56]

#### Room C

**Student Sessions**

- Acidizing High Temperature Carbonate Reservoirs Using Methanesulfonic Acid: A Coreflood Study – Alexis Ortega and Hisham Nasr-EI-Din (Texas A&M Univ) and Shawn Rimassa (BASF). [03]

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<td>12:00 – 1:30</td>
<td>Luncheon sponsored by BHP Billiton</td>
<td>AADE Fluids Hall of Fame 2014 Induction: Class of 2014 introduced by Dennis Goldwood: Syed A. Ali</td>
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THANK YOU to all our Sponsors:
### Room C

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| 1:30 – 3:00| Drilling Fluids - WB  
Session Chairs: Shannon Stocks (Chevron) and Greg Perez (Newpark) |
|           | General Session  
Session Chairs: Brent Estes (Chevron) and Matt Offenbacher (M-I SWACO) |
| 1:30      | Prediction of Frictional Pressure Losses for Time Dependent Drilling Fluids in Pipe Flow  
Olufofolahmi Oluosola (Tetra), Tan Nguyen (NM Inst Mining & Tech), A. Saasen (Det Norske/Univ of Stavanger) and E. Al-Safran (Kuwait Univ). [09] |
|           | Automated Vision Based Particle Analysis – Thomas Canty and Justin Hallbach (Canty). [12] |
| 2:00      | Field Results for Encapsulated Oil as an Additive to Water-Based Drilling Fluids  
P. Johnson (Fidelity), A. Rea (ARC Fluid Technologies), A. Coragliotti, C. DiCicco and R. Nagatani (Solazyme). [10] |
|           | Extending API-Grade Barite – James Stark, John Lee, Christine Nguyen, Ahmadi Tehrani and Steve Young (M-I SWACO). [58] |
| 2:30      | Reduced Drilling Days and Low Friction Factors  
Hallmark Eagle Ford Water-Based Fluid Performance  
Ian Everhard, Steven Willis, Mario Villalobos, Dennis Clapper and Hatem Aly Salem (Baker Hughes). [11] |
| 3:00 – 3:30| Break | sponsored by Oren Hydrocarbons  
Exhibits and Student Poster Session Open |
| 3:30 – 5:30| Drilling Fluids - IE  
Session Chairs: Phillip Jackson (BP) and Ahmed Amer (M-I SWACO) |
|           | Cementing Integrity  
Session Chairs: Aaron Dondale (BP) and Deepak Khatri (Baker Hughes) |
|           | Lost Circulation  
Session Chairs: Neil Trotter (Chevron) and David Schwertner (Baker Hughes) |
| 3:30      | Enhanced Fluid Viscosity Using Novel Surfactant Chemistry Purposely Designed for Low-Aromatic Mineral and Synthetic Base Fluids  
Jorge Fernandez, Kip Sharp and Dan Plummer (Sasol). [15] |
|           | Impact of Physical and Chemical Mud Contamination on Wellbore Cement-Formation Bond Strength – Arone Oyibo and Mileva Radonjic (Louisiana State Univ). [19] |
| 4:00      | Gellant for Oil-Based Drilling Fluid Behind Casing  
Matthew Miller, Sandeep Kulkarni, Donnie King and Rob Valenziano (Halliburton). [16] |
|           | How Cement Operations Affect Your Cement Sheath Short and Long Term Integrity – Benjamin Weideman and Runar Nyaagard (Missouri University of Science and Tech). [20] |
|           | Review of Lost Circulation Materials and Treatments with an Updated Classification – Mortadha Alsaba and Runar Nygaard (Missouri Univ of Sci & Tech), Geir Hareland (Okla State Univ) and Oscar Contreras (Univ of Calgary). [25] |
| 4:30      | Impact of Gas Solubility on Kick Detection in N-Paraffin Based Drilling Fluids  
Leandro Galves (Federal Univ of Rio de Janeiro), Roni Gandelman and André Martin (Petrobras). [17] |
|           | Cement Compressive Strength Development Drastically Affected by Testing Procedure – Joseph Huwel, Faustino Villareal and Russell Roberts (Crest Pumping Technologies). [22] |
| 5:00      | Novel Oil Based Mud Additive Decreases HTHP Fluid Loss And Enhances Stability  
| 5:30 – 7:30| Cocktail Reception - Honoring the Hall of Fame Recipients and Students  
Reception sponsored by Dow Chemical Company |

### Room D

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|           | Student Sessions  
Automated Vision Based Particle Analysis – Thomas Canty and Justin Hallbach (Canty). [12] |
|           | Extending API-Grade Barite – James Stark, John Lee, Christine Nguyen, Ahmadi Tehrani and Steve Young (M-I SWACO). [58] |
|           | Review of Lost Circulation Materials and Treatments with an Updated Classification – Mortadha Alsaba and Runar Nygaard (Missouri Univ of Sci & Tech), Geir Hareland (Okla State Univ) and Oscar Contreras (Univ of Calgary). [25] |
|           | A Study on Geometry Non-Configurations of a Commercial Desilter – Curt Panisset and André Martins (Petrobras), Marcos Barrozo and Carlos Ataíde (Federal University of Uberlândia). [62] |

### Galileo Room

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|           | General Session  
Session Chairs: Brent Estes (Chevron) and Matt Offenbacher (M-I SWACO) |
|           | Automated Vision Based Particle Analysis – Thomas Canty and Justin Hallbach (Canty). [12] |

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* [xx] refers to the paper number. The full paper number is AADE-14-FTCE-xx. This will make it easier to access the full text paper on the USB or AADE website.

**CEU** – Continuing Education Units are available. Contact AADE representatives in the registration booth for information.
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<td>7:00 – 8:30</td>
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| 8:00 – 9:30 | Drilling Fluids - Sag  
Session Chairs: Rusty Connell, Oxy and Kim Burrows (Halliburton) | Modeling  
Session Chairs: Juan Pinzon (BHP Billiton) and Sudhendu Kashikar, (Microseismic) | Completion Fluids  
Session Chairs: Elliott David (BP) and Ed Rapp (Tetra) |
| 8:00 | A Quantitative Study of the Combined Effect of Drilling Parameters on Dynamic Barite Sag in Oil-Based Drilling Fluids – Tan Nguyen (New Mexico Tech), Stefan Miska (Univ of Tulsa), Arild Saasen (Det Norske) and Jason Maxey (Halliburton). | Detection and Prevention of Drilling Problems through Real-Time Modeling – Bill Chmela, Nick Gibson, Egill Abrahamsen and Hamayun Raja (Sekal). | Thermal Stability Enhancement of Organic Oxygen Scavengers – Pubudu Gamage and Jay Deville (Halliburton). |
| 8:30 | “Improvised” Barite Sag Analysis for Better Drilling-Fluid Planning in Extreme Drilling Environments – Sandeep Kulkarni, Sharath Savari, Robert Murphy, Terry Hemphill and Dale Jamison (Halliburton). | High-Fidelity Training Simulators Enhance Drilling and Drilling Fluid Skills and Competencies – Mario Zamora and Sanjit Roy (M-I SWACO). | Field Trial Evaluation on a Hydrocarbon-Free Friction Reducer – Allan Ye, Chris Pierce, Marlon McKoy and Jason Maxey (Halliburton). |
| 9:30 - 10:00 | Break | sponsored by OMNOVA | Exhibits and Student Poster Session Open |
| 10:00 – 12:00 | Fracturing Fluids  
Session Chairs: Jianguo Zhang (BP) and Dave Clark (Clark NRG) | Cementing II  
Session Chairs: Ron Sweatman (Baker Hughes) and Leon Robinson (retired) | Student Interaction with Industry Professionals |
| 11:30 | Characterizing the Hydraulic Fracturing Fluid Modified with Nano Silica Proppant – Cumaraswamy Vipulanandan and Ahmed Mohammed (Univ of Houston), Qi Qu (Baker Hughes). | Evaluating Foamed Cement Slurry Stability in Laboratory Measurement – Gunnar DeBrujin, Mohammed Dooply, Alejandro Mendiola, Alex Ahrenst and Ryan Cammarata (Schlumberger). | |


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| 12:00 – 1:30 | Luncheon Speaker – Dr. Eric van Oort, University of Texas, “Fluids Automation: Past, Present and Future”  
Luncheon and Awards Presentations – Luncheon sponsored by Halliburton |

**Halliburton**

| 1:30 – 3:00 | Plenary Panel – “Drilling Past Regulations and into New Frontiers”  
Session Chair: Matt Offenbacher (M-I SWACO)  
Moderator: Ben Bloys (Chevron)  
• Glen Benge (ExxonMobil-retired)  
• Harry Dearing (Newpark)  
• Paul Javora (Baker Hughes)  
• Steve Baumgartner (Marathon) |

3:30 – 3:30 Break | sponsored by AquaSol | Exhibits and Student Poster Session Open | Best Exhibitor Award

| 3:30 – 5:00 | **Drilling Fluids II**  
Session Chairs: John Trenery (Chevron) and Dennis Clapper (Baker Hughes)  
Potassium Formate / Manganese Tetraoxide Fluid for Ultra HPHT Drilling – Mohamed Al-Bagoury and Christopher Steele (Elkem). [44]  
Transport of Soluble Drilled Cuttings – Fabio Silva (Federal Univ of Rio de Janeiro), Luiz Calçada (Fed Rural Univ of Rio de Janeiro), André Martins (Petrobras). [45]  
Specialized Fluid Design Increases Drilling Efficiency in Deepwater Gulf of Mexico – Brian Hosford and William Halliday (Baker Hughes). [46]  
Alermate | **Hydraulics & Rheology**  
Session Chairs: Ryan van Zanten (Shell) and Jason Maxey (Halliburton)  
The HP/HT Rheology Evaluation of Spacers – Vivek Gooel, Ron Morgan and Thomas Sodhi (Halliburton). [48]  
Experimental Determination of Particle Sedimentation Velocity in Opaque Drilling Fluids – Luila Saidler, and Bruno Loureiro (UCL), André Martins (Petrobras). [59]  
Off-Bottom Plug and Abandonment Operations in Deepwater Caribbean: Challenges and Solutions – Nadish Gupta, Martijn Bogaerts, and Umar Arshad (Schlumberger). [53]  
Optimized High-Performance Water-Based Mud Successfully Drilled Challenging Sticky Shales in a Stratigraphic Well in Saudi Arabia – Adel Al-Ansari, Ismaeel Musa, Abdullah Abahusain and T. Olivares (Saudi Aramco), Moustafa El-Bialy and Shadiaab Maghrabi (Halliburton). [51] |

3:30 | **Case Histories**  
Session Chairs: Mike Cowan (Apache) and Jay Deville (Halliburton)  
A Comprehensive Approach for Drilling and Completion to Improve Production in a Shallow, Offshore Well in Indonesia – Alexandra Morrison, Robin Stewart, Eric Davidson and Puguh Saksono (Halliburton), Miazzy Maharane and Reinhard Panjaitan (Total). [50] |

4:00 | Alermate | Different Effects on Microwave Drying of Drilled Cuttings – Jéssika Santos, Marina Pereira and Carlos Ataíde (Universidade Federal de Uberlândia), André Martins, Carlos De Sa and Curt Panisset (Petrobras). [63] |
The AADE would like to thank those volunteers who gave extra time for the students including evaluating abstracts, coordinating registration and reservations, judging the student posters, participating in the “Interaction with Industry Professionals” and other student events. We especially thank our Student Sponsors who generously support this endeavor and make it possible to give scholarships.

**Student Presentations** will be on Tuesday from 10:00 am to 12:00 pm and 1:30 pm to 3:00 pm (Galileo 1 Room)

**Student Organizers:** Adrian Angove-Rogers (ConocoPhillips) and Khai Nguyen (M-I SWACO)

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**Student Posters**
Posters will be presented in the Exhibit area

**Student Presentations**

**Undergraduate Students**

- Federal University of Technology–Parana
- West Virginia University
- Federal Rural University of Rio de Janeiro
- University of Alaska–Fairbanks

- Rheological Analysis of Gelating Drilling Fluids and its Impact on Start Up Pressures – Ana Cruz
- Fate of Gas Kick Bubbles in Oil-Based Drilling Fluids – Ismael Sidi Mahamane
- An Experimental Work on Well Cementing Hydraulics – Carolina Eulino Goncalves Pereira
- Lengthening the Productive Life of Wells Penetrating Alaska’s North Slope Permafrost by the Optimization of Annular Fluids – Thomas Polasek

**Graduate Students**

- Louisiana State University
- University of Tulsa
- Texas Tech University
- Missouri University of Science & Technology
- University of South Carolina
- New Mexico Institute of Mining and Technology
- University of Louisiana at Lafayette
- University of Oklahoma
- University of Tulsa
- University of Louisiana at Lafayette

- Improved Drilling Hydraulics Calculations for Foam Drilling – Ali Reza Edrisi
- Displacement and Mixing of Fluids in Pipe Flow – Sukru Durmaz
- An Experimental Method to Measure the Porosity from Cuttings: Evaluation and Error Analysis – Yang Yu
- Wellbore Stability Analysis: Which Rock Failure Criteria to Use? – Reza Rahimi
- Shale Gas Fracturing Fluids Containing Additives of Low Environmental Impact – Anand Viswanath
- Hydraulics of Time-Dependent Drilling Fluids in Pipes – Sebastian Pivnicka
- Unraveling Casing Drilling Smearing: Finite Element Analysis – Raj Kiran
- Friction Factor Correlations for Xanthan Fluids in Rough Straight and Coiled Tubings – Sarvesh Naik
- Mapping Loss Zone using Transient Circulating Mud Temperature in the Event of Lost Circulation – Yuanhang Chen
- Predicting Mud Filtrate and Particle’s Invasion Using Advanced Scanning Electron Microscopy (SEM): Implications for Bridging and Strengthening Effects – Chinedum Ezeakacha

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**Student Sponsor**

- **Derrickman ($$) – Chevron**

- **Roughneck ($) – Drilling Specialties**

- **Occidental Petroleum Corporation**

- **Roughneck ($) – Occidental Oil & Gas Corp (Oxy)**

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**Tuesday 8:30 am**

**Keynote Address**

“MWD/LWD the Arteries of the Heart”

**Dr. Stephen Igo**

Dr. Stephen R. Igo is the Director of the Entrepreneurial Institute at the Methodist DeBakey Heart & Vascular Center (MDHVC) and Senior Associate at the Methodist Research Institute. His responsibilities include development of innovative proprietary technologies that address unmet medical needs by integrating and applying the broad expertise of MDHVC physicians and researchers in the fields of cardiovascular surgery, cardiovascular imaging, and interventional cardiology. Additionally, Dr. Igo is responsible for identifying commercially viable technologies and strategic areas for cardiovascular and biotechnology applications in which MDHVC can attain a leadership role. Dr. Igo received his training in Cardiopulmonary and Perfusion Technology at National Naval Medical Center, Bethesda, Maryland. He has held research and clinical support positions with the Texas Heart Institute and Baylor College of Medicine. Dr. Igo has authored more than 80 peer-reviewed scientific articles and presented at major medical conferences. He is co-inventor on nine granted U.S. Patents. His research interests include: design, development, and clinical application of cardiovascular devices, heart-specific drug and device delivery systems, and therapies for heart repair. Dr. Igo is a Co-Director of the Pumps & Pipes Program.
Dr. Eric van Oort

Prior to his new appointment as the B.J. Lancaster Professor in petroleum engineering at The University of Texas, Dr. van Oort led a successful career at Shell Oil Co., where he most recently served as Onshore Gas Technology Manager. In this role, Dr. van Oort was responsible for the implementation of new technology in North American Onshore Gas relating to fit-for-purpose rig development for well manufacturing, frac spread optimization, water management, rig automation and remote operations. Dr. van Oort published more than 75 internal Shell reports and holds four U.S. patents and five international patents on drilling techniques and associated best practices, drilling fluids and wellbore stability, among others. His research and professional expertise include: well manufacturing technology, wells-related business planning and performance improvement, well engineering, real-time operations center activities, geomechanics/rock mechanics and production technology. Dr. van Oort received his doctorate degree in chemical physics from the University of Amsterdam.

Wednesday Luncheon Speaker
“Fluids Automation: Past, Present and Future”

Wednesday 1:30 pm  Plenary Panel:
“Drilling Past Regulations and into New Frontiers”

Ben Bloys - Moderator

Ben Bloys is the manager for Chevron’s Technology Alliance with Los Alamos National Laboratories. He also manages Chevron’s R&D program at the Tulsa University Center of Research Excellence. Ben has developed technology in a number of areas including drilling fluids, low invasion coring, drilling waste management and gas hydrates. Ben worked for 17 years at the ARCO Technology Center before joining Chevron in 2000. He holds a BS degree in chemistry from Angelo State University (1983). He has 34 technical publications, 19 patents and is a member of SPE, AADE, ACS and API.

Harry Dearing

As vice president of technology marketing for Newpark Drilling Fluids, Harry Dearing’s efforts are focused on the support of Newpark’s award winning Evolution® high-performance drilling fluid. In a career spanning 35 years, Dearing has worked in operations, research, and technical services. After training as a mud engineer and working for an engineering consulting firm, he joined a major oil company and worked in a number of assignments including technical services and operations. While working for Newpark from 1998 to 2008, he led the laboratory and training functions as Newpark grew into a globally-focused drilling fluids provider. After a stint as drilling engineer for an independent oil company, he rejoined Newpark in his present position in 2011. He has an engineering degree from the University of Texas.

Paul Javora

An expert in completion fluids, brines and packer fluids, Paul is the Chief Chemist for Baker Hughes and provides technical leadership in project design reviews, developing effective design review standards and practices for chemical processes. Paul has been an active participant in API, SPE, NACE and other industry committees and chaired several of the API work groups. Paul has authored 14 patents and 40+ publications on various aspects of completion technology including brines, insulating fluids, packer fluids, and filtercake cleanup. Prior to working for Baker Hughes, Paul worked for BJ Services, Dresser Magcobar, OSCA, and Texas A&M. Paul has a PhD in Inorganic Chemistry from The University of Texas at Austin.

Glen Benge

Glen is a consultant and senior advisor in cementing for Baker Hughes in Tomball, Texas. Prior to joining Baker, he was with ExxonMobil for 24 years. While at ExxonMobil he served as a Senior Technical Advisor and oversaw the cementing and wellbore isolation technologies for their global drilling operations. He has a total of 37 years of industry experience associated with wellbore isolation and has authored numerous papers and texts on all aspects of cementing design, operational execution and evaluation. He is past Chairman of the API Subcommittee 10 on Cementing, and has been an active member of API SC10 for over 35 years. He currently serves as an advisor for the U.S. Department of Justice, the U.S. Department of Energy and the National Energy Technology Laboratory. Mr. Benge has authored numerous papers on cementing, most recently on Wellbore Isolation and Zonal Isolation in Carbon Capture and Sequestration projects, and Long Term Well Integrity related to Shale Gas Fracturing.

Stephen A. Baumgartner

Steve is a Senior Technical Consultant for Marathon where he is a member of the Petroleum Engineering team in Subsurface Technology. Steve provides well completion and stimulation technical and operational support for worldwide operations. His responsibilities include development, identification and implementation of new completion technologies and techniques. Steve has held positions in pressure pumping services research and development, operations, technical sales and management throughout his career and has worked and lived in several domestic and international locations. He is a graduate of Grove City College with a B.S. in Chemical Engineering. Steve has authored numerous technical papers, industry technical publications and internal technical publications on well stimulation chemistry, treatment design, execution and evaluation. He has prepared and presented numerous well stimulation and completion seminars, workshops and schools.
The AADE sincerely thanks all the companies who have contributed to the success of this conference by dedicating resources and allowing their personnel time for planning, organizing, and the realization of this conference.

2014 Technical Conference Steering Committee

Adrian Angove-Rogers, ConocoPhillips, Student Co-Chair
Amer Ahmed, M-I SWACO
Arash Shadravan, Baker Hughes
Carolyn Berry, AADE, Events Coordinator
Burney Lee, Shell
Dave Clark, Clark NRG
David Breeden, Newpark
Deepak Khatri, Baker Hughes
Dennis Clapper, Baker Hughes
Dennis S. Goldwood, Drilling Specialties, Hall of Fame Chair
Duane Halverson, Baker Hughes
Ed Malachosky, Chevron, Technical Program Co-Chair
Ed Rapp, Tetra
Fred Growcock, OXY, Conference Co-Chair
James Curtis
Janyce Parmer, The JPC, Publications

Jason Scorsone, Halliburton, Conference Co-Chair
Mahdi Namvar
Khai Nguyen, M-I SWACO, Student Co-Chair
Leon Robinson, retired
Lindsay Fraser, Newpark, Technical Program Chair
Marlo Zamora, M-I SWACO
Mary Dimataris, M-I SWACO, Program
Matt Offenbacher, M-I SWACO, Plenary Panel Co-Chair
Mel Schmidt, OFITE
Neil Trotter, Chevron
Ramy Mahrous, Halliburton
Ron Sweatman, Baker Hughes
Sharath Savari, Halliburton
Tom Carlson, Shrieve Chemical
Tom Geethan, M-I SWACO

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