March 8 - 9, 2016

Integrated Approaches of Unconventional Reservoir Assessment and Optimization

Please join us for the Houston Geological Society's premier technical conference, offering the latest breakthroughs, technical perspectives and integrated approaches to unconventional reservoir assessment.

Day 1

- Nano-scale Reservoir Behavior and Observations
- Petroleum System Attribute Integration
- Petrophysical Integration to Optimize Completions
- Hybrid Unconventional Opportunities

Day 2

- Unconventional Technology for Tight Reservoirs
- Geophysical Advances for Reservoir Characterization
- · Recompletions and Refracturing
- Integrated Reservoir Characterization for Fun and Profit

We will also feature posters highlighting university research, a multi core program supporting the oral technical program and a luncheon keynote address.

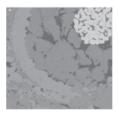
ANADARKO CONFERENCE CENTER 1201 Lake Robbins Drive The Woodlands, TX 77380





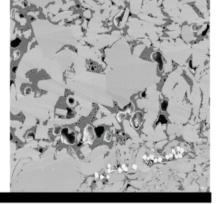












Registration Open!

For more information please visit: www.hgs.org



– March 8 - 9, 2016

Oral Presentations – Tuesday, March 8, 2016

7:00	Registration and Coffee	,	
8:00 - 8:10	Welcome and Opening Remarks: Frank Walles, Conference Chair and John Jordan, HGS President-elect		
	Session 1: Nanoscale Reservoir Behavior and Observations Session Chairs: Joe Macquaker and Avrami Grader		
8:10 - 8:45	Connectivity in Nanoscale Cores	Jop Klaver, Guillaume Desbois, RWTH Aachen University, Germany	
8:45 - 9:20	Making Geologic Sense of Pore-System Characterizations in Carbonate-Rich Mudrocks: Examples from the Niobrara Formation David Budd, University of Colorada		
9:20 - 9:55	Linking the Nanoscale with the Macroscale using Infrared Microscopy and Laser-Induced Breakdown Spectroscopy		
9:55 - 10:20	Coffee, Core Displays and Exhibitor Presentations		
	Session 2: Petroleum Systems Attribute Integration Sesson Chairs: Neil Fishman and Taras Bryndzia		
10:20 - 10:55	Variations of the Standard Measurement of Maturity (Vro%) in Unconventional Targets	Paul Hackley, USGS	
10:55 - 11:30	Improved Assessment of Kerogen Density from Organic-Rich Shales— Impacts on Maturity Estimation and Petrophysical Interpretations Andrew E. Pomerantz, Schlumberger-Research		
11:30 - 12:30	Lunch, Poster, Core Displays and Exhibitor Presentations		
12:00 - 12:30	Luncheon Key Note Talk Forward, Backward, Sideways – Market Redux	Dr. Michelle Michot-Foss , University of Texas / BEG - Chief Energy Economist, Bureau of Economic Geology's Center for Energy Economics	
	Session 3: Petrophysical Integration to Optimize Completions Sesson Chairs: Matt Williams and Barbara Hill		
12:35 - 1:10	Graphitization and Aromaticity of Mature Kerogen and its Impact on Electrical Conductivity of Organic-Rich Mudrocks	Angie Yang, Gama Firdaus, and Zoya Heidari, <i>University of Texas</i>	
1:10 - 1:45	High Resolution In-situ Elastic Property Characterization of Thin Laminates in Shale Formations	Smaine Zeroug, Schlumberger- Doll Cambridge, MA	
1:45 - 2:20	Diagenetic Evolution of Organic Matter Cements in Unconventional Shale Reservoirs	Wayne K. Camp, Anadarko Petroleum Corporation	
2:20 - 2:45	Coffee, Core Displays and Exhibitor Presentations		
	Session 4: Hybrid Unconventional Opportunities Sesson Chairs: Gretchen Gillis and Obie Djordjevic		
2:45 - 3:20	Using Advanced Logging Measurements to Develop a Robust Petrophysical Model for the Bakken Petroleum System	Gary Simpson, John Hohman, Hess Corporation; Iain Pirie, Jack Horkowitz, Schlumberger	
3:20 - 3:55	A Tale of Two Three Forks: Unravelling the Intricacies of the Three Forks Using a Hybrid Conventional/Unconventional Toolset	Mark Millard, SM Energy, Riley Brinkerhoff, Sam Fluckiger	
3:55 - 4:00	Closing Comments, Invitation to Posters and Core Sessions		
4:00 - 6:00	Core, Exhibitor and Poster Presentations		

Poster Session — Invited Presentations
Open during All Coffee and Lunch Breaks
Allison Hall, Main Conference Room



- March 8 - 9, 2016

Oral Presentations - Wednesday, March 9, 2016

	Oral Presentations Wednesday, 1vi	aren 9, 2010			
7:00	Registration and Coffee				
	Session 5: Unconventional Technology for Tight Reservoirs Sesson Chairs: Mike Cameron and Mark Andreason				
8:10 - 8:45	A Regional Assessment of the Emerging Marble Falls Play in the Fort Worth Basin: The Effects of a Complex Sequence Stratigraphic Framework on Reservoir Lithofacies Distribution	Beau Berend, Ulysses Hargrove, Craig Adams, Newark E&P Operating, LLC; Mike Grace, Independent Consultant; Mike Mullen, Stimulation Petrophysics Consulting			
8:45 - 9:20	Comparing Gas Shales and Tight Oil Reservoirs	Alton Brown, Independent			
9:20 - 9:55	Accurate Time and Lithologic Relationships Of "Woodbine Complex" East Texas Using Cores, Cutting, High Resolution Biostratigraphy and Maximum Flooding Surface Sequence Stratigraphy Walter W. Wornardt Ph.D., MICRO-STRAT INC.				
9:55 - 10:25	Coffee, Core Displays and Exhibitor Presentations				
Session 6: Geophysical Advances for Reservoir Characterization Sesson Chairs: Thomas Reed and Paul Collins					
10:25 - 11:00	Drilling and Completions Engineers Want More From Seismic	David Paddock , Colin Sayers, Don Lee, Chuck Wagner, WesternGeco Schlumberger			
11:00 - 11:35	Evaluating Productivity of Unconventional Fields Through Multivariate Analysis Damian Lynch, Paul Collins, Statoil				
11:35 - 1:00	Lunch, Poster, Core Displays and Exhibitor Presentations				
1:00 - 1:10	Poster Awards Presentation				
Session 7: Recompletions and Refracturing Sesson Chairs: Casee Lemons and Arlin Howles					
1:10 - 1:45	Faulty Fracs — Can We Avoid the Need to Refrac with Better Input From Geoscientists?	Mike Vincent, Fracwell			
1:45 - 2:20	Insight into Geomechanics of Re-Fracking — A Geomechanically Optimized Treatment Design	Sudhendu Kashikar, MicroSeismic, Inc.			
2:20 - 2:55	Well Integrity and Candidate Requirements for Refracturing in Multiple Fractured Horizontal Wells George King, Apache				
2:55 - 3:25	Coffee, Core Displays and Exhibitor Presentations				
Session 8: Integrated Reservoir Characterization for Fun and Profit					
	Sesson Chairs: John Breyer and Andy Benson				
3:25 - 4:00	Limestone Frequency and Well Performance Redux	J. A. Breyer, R. H. Wilty, D. Alfred, A. Salman, Y. Khadeeva, R. Hooper, and B. Kurtoglu, Marathon Oil Eagle Ford Integrated Project Team			
3:50 - 4:20	Advanced Petrophysical, Geological, Geophysical and Geomechanical Reservoir Characterization — Key to the Successful Implementation of a Geo-Engineered Completion Optimization Program in the Eagle Ford Shale Tie Sun, Chrystianto Mardi, Gomeletti, Hemali Patel, Stephan Cadwallader, Mitchell Graff, Je Ivan Gil, Herb Sebastian, Davi Omar Aguirre, BP America				

Core Displays

Core Display Chairs: Bruce Woodhouse and Taras Bryndzia

Selected Core from Emerging and Established Unconventional Reservoirs Supporting the Oral Technical Presentations
Thanks to the Contributors

Bureau of Economic Geology, University of Texas Shell Appalachia – Utica/Pt. Pleasant Formations

Anadarko Petroleum Corporation – Point Pleasant (Utica)-eastern Ohio/Marcellus-northern Pennsylvania
Open During Coffee and Lunch Breaks • Allison Hall Third Floor, Rooms 16-17

Posters – March 8-9, 2016

Poster Sesson Chairs: Mike Effler and Steven Macallelo				
University	Student Name	Poster Topic		
Gdansk University of Technology	Aleksandra Ptaszynska, Maria Mastalerz, Jan Hupka, and Roberto Suarez-Riviera	The Role of Mineral and Organic Matter Constituents in Kerogen Transformation and Hydrocarbons Mobility		
University of Alberta	Korhan Ayranci, Tian Dong, Nicholas Harris	Detailed Lithofacies Analysis and Sequence Stratigraphy of the Horn River Group, British Columbia, Canada		
University of Calgary	Emma L. Percy , Dr. Per Kent Pedersen	Identifying "Sweet Spots" in Mudstones: Applying Conventional Exploration Methods to Unconventional Reservoirs		
University of Houston/ GFZ-German Research Center for Geosciences	Jingqiang Tan , Brian Horsfield	Geological Characterization for the Lower Silurian and Lower Cambrian Shale Gas Systems in South China		
University of Oklahoma	Sayantan Ghosh, Caleb P. Bontempi, Roger M. Slatt	Woodford Shale Fracture Distribution from Arbuckle Wilderness and US-77D Outcrops		
University of Oklahoma	Jing Zhang , Bryan Turner, Roger Slatt	XRF Chemostratigraphy for Characterizing a Shale Reservoir Along a Horizontal Well Track		
University of Oklahoma	Tengfei Wu, Jeremy Boak	Chemostratigraphy and Mineral Evolution of the Green River Formation		
University of Texas	Christopher Hendrix, Harry Rowe, Robert G. Loucks	Calcareous Mudrock Chemolithostratigraphy of the Late Cretaceous South Texas Shelf		
University of Texas	Lauren Redmond, Robert Loucks, Harry Rowe	Tying Core Descriptions and Optical Petrography with XRF Geochemical Data for a Detailed Characterization of the Mississippian Barnett Formation in the Southern Fort Worth Basin of North-Central Texas		
University of Utah	Matthias Greb, Milind Deo, and W. Lansing Taylor	Source Rock Characterization, Development Strategies, and Fracture Complexity: Highlights of Shale Science Research at EGI		
Virginia Polytechnic Institute	T.R. Them II, B.C. Gill	Paleoenvironmental Changes Recorded in an Early Jurassic Mudrock Succession from Western North America		

Participating Schools

Gdansk University of Technology
University of Alberta
University of Calgary
University of Houston
University of Oklahoma
University of Texas
University of Utah (EGI)
Virginia Polytechnic Institute

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