

Technical Sessions 2016 Eastern Section AAPG

		Monday September 26			Tuesday September 27		
Room:	Heritage Ballroom 2	Heritage Ballroom 3	Elkhorn C&D	Heritage Ballroom 2	Heritage Ballroom 3	Elkhorn C&D	
Morning	<b>Theme</b>	<b>Emerging Unconventional Plays, Sponsored by EUOGS</b>	<b>Methods and New Techniques</b>	<b>Structure and Tectonic Effects on Reservoirs</b>	<b>Ordovician Shale Resources</b>	<b>Sedimentology: Source to Sink</b>	<b>CO2 Use and Storage</b>
	<b>Co-chairs</b>	Brandon Nuttall Donna Caraway Willette	Merril Stypula Seth Carpenter	John Hickman John Rupp	Larry Wickstrom Martin Schumway	Rick Bowersox Steve Greb	Cristian Medina Erica Howat
	<b>8:00 AM</b>	Ettensohn, F – Gas Shales: A largely North American Phenomenon?	Artun, E – Cyclic Pressure Pulsing: A Promising Method to Improve Recovery from Hydraulically-Fractured Stripper Wells of Appalachian Basin	Duran, T – Structural Origin of Henderson Dome: Stratigraphic & Geophysical Study of an Upper Ordovician Impact Crater	Wickstrom, L – An Overview of Development of the Utica-Point Pleasant Play	(session starts 8:30)	Haagsma, A – Petrophysical Characterization of the Kerbel Sandstone in Central Ohio for CO2 Storage Potential
	<b>8:30 AM</b>	McGlue, M – Geochemical Characterization of Lower Wolfcamp Unconventional Reservoirs, Midland Basin (Texas)	Cercione, DP – Improving Unconventional Hydrocarbon Recovery by Reducing Formation Damage	Hinks, AW – Favorable Areas to Focus Future Trenton Exploration in Indiana	Shumway, M – Analysis and Characterization of Utica-Point Pleasant Production	Bowersox, J.R. – Reevaluation of the Heavy Oil and Bitumen Resources of the Western Kentucky Tar Sands: What Did We Learn about the Tar Sands That Is New?	Fukai, I – CO2 Storage Resource Estimates for Cambrian-Ordovician Formations in Eastern Ohio
	<b>9:00 AM</b>	Willette, DC – Gas Generation from natural oils – the details matter in resource assessment	Schrymmeekers, R – Optimizing Lateral Placement and Production while Minimizing Completion Costs Using Downhole Geochemical Logging	Manche, C – New Insights & Perspectives on the Effects of Structural Reactivation on the Upper Devonian Antrim Shale, Michigan Basin	Young, A – Late Ordovician (Katian) Upper Lexington-Kope Equivalents in the Point Pleasant Basin of Eastern Ohio: Correlation and Paleoenvironments of the Utica Point Pleasant System	Greb, SF – Changing Duration of Carboniferous Cyclothem: Implications for Coal and Lithofacies Distribution	Conner, A – Analysis and Integration of Advanced Logs and Core Data: Characterization of the Copper Ridge Dolomite in Morrow County, Ohio
	<b>9:30 AM</b>	Misra, S – Strange Sample-Thickness Dependence of Multi-frequency Complex Dielectric Permittivity of Shales and Sandstones	(Paper withdrawn)	(Paper withdrawn)	Fitzgerald, D – Clay Mineralogy, Provenance, and Sequence Stratigraphy of Upper Ordovician Shales in Eastern Ohio	Weisenfluh, GA – Deep Cores through the Pennsylvanian Section of Western Kentucky, Illinois Basin	Webb, N – An Integrated Approach to Identifying Residual Oil Zones in the Cypress Sandstone in the Illinois Basin for Nonconventional CO2-EOR and Storage
	<b>10:00 AM</b>	AM Break	AM Break	AM Break	AM Break	AM Break	AM Break
	<b>Theme</b>	<b>Emerging Unconventional Plays, Sponsored by EUOGS</b>	<b>Methods and New Techniques</b>	<b>Structure and Tectonic Effects on Reservoirs</b>	<b>Ordovician Shale Resources</b>	<b>Sedimentology: Source to Sink</b>	<b>CO2 Use and Storage</b>
	<b>Co-chairs</b>	Brandon Nuttall Donna Caraway Willette	Merril Stypula Seth Carpenter	John Hickman John Rupp	Larry Wickstrom Martin Schumway	Rick Bowersox Steve Greb	Cristian Medina Erica Howat
	<b>10:30 AM</b>	Laughrey, C – Petroleum Geochemistry of Devonian Rocks and Produced Oil and Natural Gas in the Caseman - Gross Unit #1 Well, Bradford County, Pennsylvania	Stypula, M – Elemental Data Collected in the Berea Sandstone of Eastern Kentucky: Applications to Wellbore Placement, Horizontal “Chemosteering” and Completion Strategy	Solis, MP – Sinistral Transpression along Previously Existing faults, Appalachian Basin, Ohio	Blood, D – Redox Conditions During Deposition and Early Diagenesis of the U. Ord. Point Pleasant Ls of Southwestern PA and Northern WV: Insights from Pyrite Framboids and Trace Elements	Floyd, J – Subsurface Analyses of the Bedford-Berea Petroleum System in Eastern Kentucky	Cumming, L – Progress towards Safe and Effective Geologic Storage of Carbon Dioxide in Midwest and Mid-Atlantic States
	<b>11:00 AM</b>	Fritz, R – Unconventional Resource Potential of the Sunbury Shale, Berea Sandstone, and Antrim Shale in Central Michigan	Holcomb, AS – Monitoring Induced Microseismicity in the Rome Trough, Eastern Kentucky U.S.A.	Rupp, JA – State of Stress in the Illinois Basin and Constraints on Inducing Failure	Eble, C – Organic Matter Maturation Trends and Source Rock Quality in the Utica Shale, East-Central Ohio	Giannetta, L – Quantifying Microporosity in Clay Minerals of the Cypress Sandstone: Implications for Petrophysical Analysis And Diagenesis	Howat, E – Integrated Sub-Basin Scale Exploration for Carbon Storage Targets: Advanced Characterization of Geologic Reservoirs and Caprocks in the Upper Ohio River Valley
	<b>11:30 AM</b>	Nuttall, B – Summary of Publicly Available Production Data for the Devonian Berea Sandstone Play, Eastern Kentucky	Wang, Z – Assessing Potential Seismic Hazards from Induced Earthquakes in the Central and Eastern United States	Hickman, JB – Kinematics of Past Tectonic Forces Inferred from Differential Sedimentation	Schrymmeekers, R – Creating a 3D Hydrocarbon Profile to Increase Production and Reduce Poor Economic Wells: a Utica Case Study	Askari, Z – Cypress Sandstone Reservoir Characterization Across the Clay City Anticline, Richland and Clay Counties, Illinois	Medina, C – Hierarchical Evaluation of Geologic Carbon Storage Resource Estimates: Cambrian-Ordovician Units within the MRCSF Region
	<b>12:00 PM</b>	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
	<b>12:30 PM</b>	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
	Afternoon	<b>Theme</b>	<b>Emerging Unconventional Plays, 2, Sponsored by EUOGS</b>	<b>Methods and New Techniques, 2</b>	<b>Groundwater and Environmental Issues</b>	<b>Marcellus Shale Energy and Environment Laboratory</b>	<b>Sedimentology: Source to Sink, 2</b>
<b>Co-chairs</b>		Mark Baranoski Bill Harrison	Pete MacKenzie Donald Lumm	Amy Townsend-Small Junfeng Zhu	Tim Carr Paula Mouser	Julie Floyd Dave Williams	Kris Carter Nathan Webb
<b>1:00 PM</b>		Baranoski, MT – Redefined Sauk Sequence Rocks in the Ohio Region Suggest Emerging Plays on the Ohio Platform and Adjacent Rome Trough	Kumar, A – Long Period, Long Duration (LPLD) Seismic Events Observed During Monitoring of Hydraulic Fracturing in Pennsylvania and West Virginia	Greenwell, KJ – NORM and TENORM – Are We Heading For a New Legal Normal?	Carr, T – The Marcellus Shale Energy and Environment Laboratory (MSEEL)	Mason, J – Unification of Compositional Data and High-Resolution Facies Analysis in the Union Springs Formation of New York	Amooie, M – Thermodynamically Driven Fluid Mixing Across Phases Induced by Viscous Flow Instabilities in Porous Media
<b>1:30 PM</b>		Ruble, T – Assessing Thermal Maturity in Cambrian Source Rocks, Rome Trough, Appalachian Basin: Organic Petrology Complexities	Zorn, E – Geomechanical Lithology-Based Analysis of Microseismicity in Organic Shale Sequences: A comparison from multiple hydraulic fracturing field sites	Seguljic, T – Evolving EPA Subpart W Greenhouse Gas Reporting Rules Challenge Oil and Gas Operators	Crandall, D – Preliminary Analyses of Core from the Marcellus Shale Energy and Environment Laboratory	Rine, M – A Sequence Stratigraphic Model for the Silurian A-1 Carbonate of the Michigan Basin	Schrymmeekers, R – Using Ultrasensitive Surface Detection to Evaluate Potential and Actual CO2 Sequestration Sites
<b>2:00 PM</b>		Willan, C – Maturation Patterns of the Cambrian Rogersville Shale in the Rome Trough of Eastern Kentucky and West Virginia	MacKenzie, P – Utilization of Factor of Safety in Geotechnical Solutions	Sparks, TN – Class II Injection Wells in Kentucky—An Update of the Map Service of Wastewater, Brine-Disposal, and Enhanced-Recovery Wells in Kentucky	Ziemkiewicz, P – Marcellus Shale Energy and Environment Laboratory Approach to Water and Waste Studies	Pfalzer, B – Late Silurian-Early Devonian Paleogeography - Basal Sands of the Sealevel Lowstand	Soltanian, MR – Reservoir Simulation of Tracer Transport in Multicomponent Multiphase Compositional Flow with Applications to the Cranfield CO2 Sequestration Site
<b>2:30 PM</b>		PM Break	PM Break	PM Break	PM Break	PM Break	PM Break
<b>Theme</b>		(no late afternoon sessions scheduled for Heritage Ballroom 2)	<b>Methods and New Techniques, 2</b>	<b>Groundwater and Environmental Issues</b>	<b>Marcellus Shale Energy and Environment Laboratory</b>	<b>Sedimentology: Source to Sink, 2</b>	(no late afternoon sessions scheduled for Elkhorn C&D)
<b>Co-chairs</b>			Pete MacKenzie Donald Lumm	Amy Townsend-Small Junfeng Zhu	Tim Carr Paula Mouser	Julie Floyd Dave Williams	
<b>3:00 PM</b>			Misra, S – Estimation of Saturation-Dependent Relative Permeability in Shales based on Adsorption-Desorption Isotherm	Zhu, J – Assessing Methane in Shallow Groundwater for the Berea Sandstone and Rogersville Shale Play Area, Eastern Kentucky	Sharma, S. – Understanding Biogeochemical Controls on Spatiotemporal Variations in Total Organic Carbon in Cores from Marcellus Shale Energy and Environment Laboratory	Prezbindowski, D – Silurian Reef Systems in the Illinois and Michigan Basins - What can be learned from modern quarrying operations in North-Central Indiana	
<b>3:30 PM</b>			Misra, S – Improved Oil-in-Place Estimates in Clay- and Pyrite-Bearing Shales Based on Inversion of Multi-frequency Electromagnetic Measurements	Richardson, S – A Protocol for Baseline Sampling of Water Sources in Areas of Shale Oil and Gas Development	Mouser, P – Phospholipid Fatty Acid Evidence of Recent Microbial Life in Pristine Marcellus Shale Cores	Voice, P – Manistique Group Reservoirs in the Michigan Basin: an Overlooked Resource	
<b>4:00 PM</b>		Popova, O – EIA Expanded Geographic Coverage of Oil and Natural Gas Production, with New Data for 10 States	Townsend-Small, A – Stable Isotopic Constraints on Methane Migration into Groundwater and Emissions to the Atmosphere from Unconventional Natural Gas Extraction: Examples from OH, CO, TX	Sheets, J – Mineral/organic Matter Associations and Pore Microtextures in the Marcellus Formation, West Virginia	Lasemi, Y – Lithofacies and Sequence Framework of the Upper Cambrian Galesville and Ironton Sandstones in Illinois		
<b>4:30 PM</b>		Denslow, KM – Preventative Maintenance for Paraffin Management in Production Tubing Using Non-Invasive Ultrasonic Technology	(session ends at 4:30 PM)	(session ends at 4:30 PM)	(session ends at 4:30 PM)		
Posters (8:00 am to 5:00 pm) All posters are located in the exhibits area, Heritage Hall East	P01. Parent, AM – New Insights into Precambrian Seismic Stratigraphy, South-Central Indiana			P01. Agrawal, V – Understanding Kerogen Composition and Structure in Pristine Shale Cores Collected from Marcellus Shale Energy and Environment Laboratory			
	P02. Yuan, X – Analysis on Distribution and Controlling Factors of Paleogene Reservoir, Beibuwan Basin			P02. Akondi, R. – Comparing Different Extraction Methods for Analyses of Ester-linked Diglyceride Fatty Acids in Marcellus Shale			
	P03. Davis, ES – Revising the Fresh-Saline Water Interface in Eastern Kentucky			P03. Booker, A – Sulfide Generation by Dominant Colonizing Halanaerobium Microorganisms in Hydraulically Fractured Shales			
	P04. Gooding, P – A Devonian Callixylon Log of the Archaeopteris Tree Found in Marion County, Kentucky			P04. Daly, R – Microbes in the Marcellus Shale: Distinguishing Between Injected and Indigenous Microorganisms			
	P05. May, M – An Analysis of a Near-Surface Big Clifty (Jackson) Sandstone Reservoir in Logan County, Kentucky			P05. Evert, M – Temporal Changes in Fluid Biogeochemistry and Microbial Cell Abundance after Hydraulic Fracturing in Marcellus Shale			
	P06. Abatan, O – Depositional and Sequence Stratigraphic Framework of the Middle Pennsylvanian Allegheny Formation South-Central West Virginia: Analyzing Autogenic and Allogenic Influence on Depositional Element			P06. Hanson, A – Analysis of Microbial Lipid Biomarkers as Evidence of Deep Shale Microbial Life			
	P07. Bates, L – The Formation of Diagenetic Trap in the Squirrel Sandstone			P07. McCawley, M – Addressing Health Issues Associated with Air Emissions around UNGD Sites			
	P08. Greb, SF – Thinning marine zones of the Breathitt Group along Kentucky Highway 15, Breathitt County, Kentucky			P08. Panescu, J – Arcobacter Isolated from the Produced Fluids of a Marcellus Shale Well May Play a Currently Unappreciated Role in Sulfur Cycling			
	P09. Le Cottonne, A – Stratigraphy and Reservoir Characterization of the Grundy Formation (Pennsylvanian, Eastern Kentucky) in Relation with the Overlying Pikeville and Hyden Formation			P09. Saup, C – Indigenous Life in Extreme Environments: Characterizing Pristine Shale Rock Hosted Biomass			
	P10. Pfalzer, B – Late Silurian-Early Devonian Paleogeography Part 4 - Explaining Devonian Brachiopod Provinciality and Distributions			P10. Bloxson, J – Core Reflectance Spectroscopy and Well Logging of the Point Pleasant/Utica Sub-basin, Ohio			
	P11. Gooding, P – Most Effective Methods in Identifying, Etching, and Dissolving Limestones			P11. Welch, S – Phosphate Minerals in Utica Shale: A possible Source of Trace Metals in Flowback Water			
	P12. Yao, S – Improving the Estimations of Shale Permeability with Process-based Pore Network Modeling Approach			P12. Lewis, E – Development of Quick-Look Maps for CO2-EOR Opportunities in the Appalachian and Michigan Basins			
	P13. Borton, M – Methanohalophilus is the Dominant Source of Biogenic Methane in Hydraulically Fractured Shales			P13. Medina, C – Insights on Porosity and Pore Size Distribution Using Multiple Analytical Tools: Implications for Reservoir Characterization in Geologic Storage of CO2			
	P14. Reid, J – Applications of Scientific Core Drilling in North Carolina: Cumberland-Marlboro basin, and the Triassic Rift Lacustrine Dan River Basin			P14. Sminchak, J – Subsurface Geomechanics, Fracture Breakdown Pressures, and ‘Fracture-tunnels’ in the Midwest U.S.			
	P15. Warner, T – Thermal Maturity Assessment in the Lower Huron using Raman Micro-Spectroscopy			P15. Zhong, Z – CO2 Storage Capacity Estimation and CO2-EOR Evaluation for Jacksonburg-Stringtown Oil Field, West Virginia, USA			
				P16. Cotter, Z – In-Situ Stress Characterization of Appalachian Basin Cambrian-Ordovician Caprock and Reservoirs via Detailed Image Log Analysis			

Color Key to Topical Themes

Emerging Unconventional Plays, Sponsored by EUOGS	Methods and New Techniques	Ordovician Shale Resources	Sedimentology: Source to Sink
Structure and Tectonic Effects on Reservoirs	Groundwater and Environmental Issues	Marcellus Shale Energy and Environment Laboratory	CO2 Use and Storage

# Schedule at a Glance

## 2016 Eastern Section AAPG, Lexington, Ky

	Saturday, Sept. 24	Sunday, Sept. 25	Monday, Sept. 26	Tuesday, Sept. 27	Wednesday, Sept. 28
7 AM			HOD Breakfast (Hyatt Ballroom 3)	Presenter & Judge's Breakfast (Hyatt Ballroom 1)	ES Meetings Comm. (Hyatt Mary Todd Lincoln Room)
8 AM	Field Trip: Distillery Hydrology	Field Trip: Upper Ordovician Reservoir Analogs	Technical Sessions	Technical Sessions	
9 AM			Break	Break	
10 AM	Workshop: Dolomite Reservoir Analysis (KGS Core Library) <b>CANCELLED</b>	Workshop: Unconventional Reservoir Quality Analysis (UK Campus) <b>CANCELLED</b>	Technical Sessions	Technical Sessions	
11 AM	Student Chapter Leadership Summit (Hyatt Ballroom 1)	Student Expo (Hyatt Ballroom 1)	ES Council Lunch (Hyatt Ballroom 1)	All-Division Lunch (Patterson Ballroom)	Guest Lunch at Lexington Diner
12 PM			Technical Sessions	Technical Sessions	Guest Lunch at Lexington Diner
1 PM			Break	Break	Guest Lunch at Lexington Diner
2 PM			Technical Sessions	Technical Sessions	Guest Lunch at Lexington Diner
3 PM			Opening Plenary Session (Ballroom 2)	Technical Sessions	Guest Lunch at Lexington Diner
4 PM			Honors & Awards (Ballroom 2)	Technical Sessions	Guest Lunch at Lexington Diner
5 PM			Young Professional's Happy Hour (Pies & Pints)		
6 PM		Icebreaker Reception (Heritage Hall East)	Brewery & Distillery Tour	Bourbon Cocktail Class	Wine Tasting & Tapas
7 PM			Dinner (Enjoy Lexington dining selections on your own)		
8 PM					
9 PM		Jammin' Geologists (Hyatt Hyttops)	Taste of the Pepper District (transportation provided from Hyatt)		

# Exhibit Hall and Session Rooms

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