



## 2018 Joint Eastern Section AAPG/SPE Meeting Technical Program

Sessions	Time	Room	Poster Session (King's Garden2)
1 Technical Advancements in Unconventional Exploration I	Tuesday AM	King's Garden 1	Wednesday AM
2 Special Session: MRCSP Phase III Findings	Tuesday AM	King's Garden 3	Tuesday PM
3 Stratigraphic, Structural and Tectonic Effects on Reservoirs	Tuesday PM	King's Garden 1	Tuesday AM
4 Reservoir Characterization for CCS Applications	Tuesday PM	King's Garden 3	Wednesday AM
5 Technical Advancements in Unconventional Exploration II	Tuesday PM	King's Garden 1	Wednesday AM
6 Updates in Environmental Assessment and Alternative Energy	Tuesday PM	King's Garden 3	N/A
7 Development Optimization and Economic Uplift of Existing Plays	Wednesday AM	King's Garden 1	Tuesday PM
8 Conventional Plays	Wednesday AM	King's Garden 3	Tuesday AM
9 Emerging Plays and Concepts	Wednesday AM	King's Garden 3	Tuesday AM

---

### DETAILED TECHNICAL PROGRAM: ORAL PRESENTATIONS

**Tuesday, October 9, 2018 AM**

Room: King's Garden 1

Session	Time	Title	Senior Author
1	8:00	Identifying Hazards and Enhancing Reservoir Models through interpretation of Hyperspectral Core Imaging for Carbonate and Unconventional and Carbonate Plays	Brittany Hollon
1	8:30	Carbonate concretions in the Middle and Upper Devonian shales of the Appalachian Basin: Insights into origin, formation, and their effects on drilling efficiency	David R. Blood
1	9:00	Relationship Between Well Performance and Structural Setting in the Marcellus Shale of Greene County, Pennsylvania	Devin Fitzgerald
1	9:30	BREAK	
1	10:00	Critical questions of hydrocarbon generation: fluid composition and maturation determined from new techniques using maturity proxies	Donna Caraway Willette
1	10:30	The Use of Multivariate Analysis and Raman Spectroscopy for the Assessment of Thermal Maturity	Jason Lupoi
1	11:00	FROM OUTCROP TO RESERVOIR, A COMPREHENSIVE DESCRIPTION TO LOWER SILURIAN LONGMAXI SHALE IN SICHUAN BASIN, CHINA	Jia Chengye

# DETAILED TECHNICAL PROGRAM: ORAL PRESENTATIONS

**Tuesday, October 9, 2018 AM**

Room: King's Garden 3

Session	Time	Title	Senior Author
2	8:00	Regional Characterization of an Oil-Bearing Reef Complex for Factors affecting Assessment of Associated CO2 Storage	Autumn Haagsma
2	8:30	Explorations in TOC for Assessment of CO2 Storage and Enhanced Gas Recovery for the Middle Devonian Marcellus and Upper Ordovician Utica Shales for the Midwest Regional Carbon Sequestration Partnership	Brandon C Nuttall
2	9:00	High-resolution subsurface mapping of depositional cycles within the lower part of the Huron Member of the Ohio Shale: detailed snapshots of basin development in central and eastern Ohio	Christopher B. T. Waid
	9:30	BREAK	
2	10:00	Storage Resource Estimates and Seal Evaluation of Cambrian-Ordovician Units in the MRCSP Region	Cristian R. Medina
2	10:30	Midwest Regional Carbon Sequestration Partnership: Findings from the Michigan Basin Phase III Injection Test Monitoring Program	Lydia Cumming
2	11:00	Cross-section framework for visualizing carbon capture utilization and storage potential in the Ohio-West Virginia-Pennsylvania portion of the Appalachian basin	Robin V. Anthony

**Tuesday, October 9, 2018 PM**

Room: King's Garden 1

Session	Time	Title	Senior Author
3	1:00	Central Kentucky Reservoirs Associated With the Cincinnati Arch Affected by Structure and Tectonics	Patrick J. Gooding
3	1:30	Fracture Impact on Reservoir Performance near Fault Damage Zone	Pierre Karam
3	2:00	Investigating the geochemical relationship between the Ordovician Guttenberg Carbon Isotope Excursion and the Trenton and Point Pleasant reservoirs	Steve Saboda
3	2:30	Refined Lithostratigraphy of Upper and Middle Devonian Shales in West Virginia	Ray Boswell
	3:00	BREAK	
5	3:30	Developing an Efficient Workflow to Utilize Geo-modeling in order to Predict Unconventional Hydrocarbon Production and Maximize Operational Efficiency	Kathryn Tamulonis
5	4:00	Methods to Assess Thermal Maturity of the Utica / Point Pleasant Play in the Appalachian Basin	Thomas Bardol
5	4:30	Potential for Recovery of Uranium from the Marcellus Shale	R. Scott McCleery

Room: King's Garden 3

Session	Time	Title	Senior Author
4	1:00	Statistical Analysis of Core and Wireline Log Data from the Northern Niagaran Pinnacle Reef Trend to Inform Static Earth Modeling for CO2 Storage Fields	Autumn Haagsma
4	1:30	Development of a Data-Driven Operational Design Tool for CO2 Sequestration in Shale Gas Reservoirs	Emre Artun
4	2:00	Numerical study of the role of critical dimensionless numbers associated with multiphase flow in 3D porous media using lattice Boltzmann modeling	Ming Fan
4	2:30	Carbon Storage and Static Earth Model Development for Pennsylvanian Cyclic Carbonates of Southwestern Nebraska	Valerie Smith
	3:00	BREAK	
6	3:30	Introducing a New Tool for Discussing the Complex Interactions of Petroleum Production and the Environment	Edith Allison
6	4:00	Understanding Public Perception of the Terms Clean Coal and Fracking	Hannes Leetaru

# DETAILED TECHNICAL PROGRAM: ORAL PRESENTATIONS

**Wednesday, October 10, 2018 AM**

Room: King's Garden 1

Session	Time	Title	Senior Author
7	8:00	Candidate Well Selection for Re-Fracturing in Tight-Gas Sand Reservoirs Using Artificial Intelligence	Emre Artun
7	8:30	Reservoir Characterization and 3D modeling of Silurian Fore-reef Slopes Exposed in the Pipe Creek Jr. Quarry: Grant County, Indiana	Jim Karsten
7	9:00	Correlating reported hydrocarbon production and published thermal maturity maps for organic-rich shales in Pennsylvania	Katherine Schmid
	9:30	BREAK	
7	10:00	Multivariate Analysis to Identify Variables Controlling Production and Quantify Their Economic Impact - Midland Basin, Texas	Patrick Ruty
7	10:30	Utilizing Horizontal Drilling to Enhance Oil Production from the Devonian Geneva Dolomite at Plummer Field, Indiana, and Its Application in Carbonate Reservoirs	Thomas Ward
7	11:00	Offshore Stimulations with Portable Equipment Operational Flexibility for Time and Cost Reduction	Ernesto Adrian Juarez Portillo

Room: King's Garden 3

Session	Time	Title	Author
8	8:30	Petroleum systems of coastal North Carolina: What we know, what we think we know, and the range of uncertainty in the interpretation of geochemical data	Paul J. Post
8	9:00	Traverse Group Reservoirs in the Michigan Basin: A Second Look	Peter Voice
	9:30	BREAK	
9	10:00	2018 Update on the Emerging Rogersville Shale Play in Kentucky and West Virginia	John Hickman
9	10:30	The Stacked Play North Outside of Pittsburgh	Matthew Weinreich
9	11:00	Assessing the Potential Helium Resources in Central Kentucky	Rick Bowersox

## DETAILED TECHNICAL PROGRAM: POSTER PRESENTATIONS: KING'S GARDEN 2

**Tuesday, October 9, 2018 8:00 AM – 11:30 AM**

Session	Title	Senior Author
3	GIS Compilation and Analysis of Near-Surface Structure Data from 707 Geologic Quadrangle Maps in Kentucky	John Hickman
3	Structure and isopach mapping of the Mississippian Black Hand Sandstone in eastern Ohio (northwest Appalachian Basin)	Erika Danielsen
3	Spatial distribution of chlorite in the Marcellus Formation and its relationship with static reservoir properties and well production	Jennifer Rothfuss
3	Sediment Provenance Study of the Marcellus Shale: An Analysis Between the Organic Rich Facies and Their Depositional Histories	Luke Fritz
3	High Resolution XRF Stratigraphy of the Ordovician Utica Shale, Central New York State	Deanna Amoriello
3	U-Pb Calcite Ages and the Case for Acadian Structural Development in the Appalachian Basin: Implications for Oil and Gas Migration	Bob Jacobi,
8	Stratigraphy, Geochemistry, and Organic petrology data from the Esso Hatteras Light #1 and Mobil State of North Carolina #3 and their effect on hydrocarbon prospectively in coastal North Carolina	Jeffrey C. Reid
8	Influence and Regression Model of Long-term Waterflooding on Reservoir Petrophysical Properties	Zihao Li
9	Oil and Gas Fields Trends and Its Main Controls on the Occurrence in Onshore Simenggaris Area, Tarakan Basin, Indonesia	Isnianto Saputra
9	Underground Storage of Refrigerated Natural Gas in Granites of the Southeastern U.S.	Jeffrey C. Reid
9	Use of Iodine for Petroleum Exploration	Daniel Vice

**Tuesday, October 9, 2018 1:00 PM – 5:00 PM**

Session	Title	Senior Author
2	Residual Oil Zone EOR Potential in the Northern Pinnacle Niagaran Reef Trend	Heather McCarren
2	From the Tuscarora Sandstone to the Bubbles in Your Beverage: Naturally-Occurring CO2 in the Indian Creek Field, Kanawha County, WV.	Jessica Moore
2	Mapping Storage and Enhanced Gas Recovery for Organic Shale in the Midwest Regional Carbon Sequestration Partnership	Thomas N. Sparks
2	Regional Cross section beneath the Ohio River Valley for carbon storage evaluation	Thomas N. Sparks
2	Investigation of Potential Geochemical Reactions in Large-Scale Carbon Dioxide - Enhanced Oil Recovery (CO2-EOR) Carbonate Reservoirs	Laura Keister et al
7	Integrating Petrophysical and Geophysical Data to Delineate the Internal Facies of a Pinnacle Reef Complex, Michigan Basin, USA	Austin Johnson
7	Relationships between natural fractures and chemical composition: Marcellus Shale, Appalachian Basin	Keithan Martin
7	Pennsylvania Coalbed Methane Update	Antonette K. Markowski

**Wednesday, October 10, 2018 8:00 AM – 11:30 AM**

Session	Title	Senior Author
1	Issues of Horizontal Well Log Interpretation: an example Longmaxi-Wufeng Shale in Fuling Gas Field of Eastern Sichuan Basin	Guochang Wang
1	Organic Matter Deformation in Overmature Mudrocks	Guochang Wang
1	Evaluation of Thin Limestone Interlayers within Marcellus Shale in Southwestern Pennsylvania	Jonathan Bruno
5	Regional Distribution of Total Organic Carbon and Geochemical Characterization of the Maquoketa Shale Group within the Illinois Basin	Mansour Khosravi
5	Ultrasonic Detection of Fracture Propagation and Complexity in Hydraulic Fracturing Experiments	Tim E.H. Witham
5	New models for determining thermal maturity and hydrocarbon potential in Marcellus Shale	Vikas Agrawal
4	Coupling Low Salinity Water Flooding and CO2 Flooding for Sandstone Reservoirs; Low Salinity-Alternating- Co2 Flooding (LSAGF)	Hasan AlSaedi
4	Estimating CO2 storage resource volumes using a Static Earth Model of the St. Peter Sandstone in the Northern Michigan Basin	Joel C Main
4	Computed Tomography Scan Image Analysis of Michigan Niagaran Reef Cores for Improved Reservoir Characterization	Mackenzie Scharenberg
4	Preliminary Assessment of the CO2 Storage Capacity in the Lower Copper Ridge Dolomite (Upper Cambrian), Northeastern Kentucky	Rick Bowersox
4	A Comparison of Different Geomodeling Approaches in the Context of CO2 Injection and Flow Simulations for the Mt. Simon Sandstone	Valerie Smith
4	Resolving Predictable Reservoir Behavior in Heterogenous Carbonates using Integrated Rock Typing Methods: A Field Scale Case Study of a Michigan Basin Silurian-aged Niagaran Brown Reef	Zachary Cotter