Oral Presentations – Tuesday, March 5, 2019

Time	Session	Speaker
7:00	**Registration and Coffee**	
8:30 am - 10:30 am	Short Course- Analytics: How to Trigger Enlightenment and Avoid Hype	**Andrew Silver**, *Adret LLC*
	Session 1: Automation - Reliability and Productivity **Chairs:** Steve Geetan and Sachin Ghorpade	
10:30 am - 11:00 am	**Coffee Break, Posters**	
11:00 am - 11:30 am	Automated Geosteering using a Bayesian Network	**Hugh Winkler,** *Factor Technology*
11:30 am-12:00 pm	Combined Automation of Geologic Log Correlation and Directional Drilling	**Bill Chmela,** *Helmrick & Payne Technologies*
12:00 pm - 1:00 pm	**Lunch, Posters**	
1:00 pm - 1:30 pm	Transforming Well Path Planning: You Can Plan the Most Productive Well and Drill it, too	**David Cotrell**, *Baker Hughes, a GE company*
1:30 pm - 2:00 pm	Automated Log Editing Using Machine Learning	**Fred Jensen**, *CGG*
2:00 pm - 2:30 pm	**Coffee Break, Posters**	
	Session 2: Leveraging Cloud and Machine Learning to Transform How Geoscientists Work Data **Chairs:** Barbara Hill and Ana Ramirez	
2:30 pm - 3:00 pm	Transforming Seismic and Geoscience Data Workflows Utilizing Cloud and Machine Learning Technology	**John Adamick,** *Staurolite Consulting, LLC.*
3:00 pm - 3:30 pm	Using Multi-Attribute Seismic Neural Analysis from Interpretation Through Reservoir Estimation – A Full-Cycle Workflow	**Deborah K. Sacrey,** *Auburn Energy*
3:30 pm - 4:00 pm	Bootstrapping Lithology Classification	**Tobias Hoeink,** Marco van der Linden, Wendy Yang; *Baker Hughes, a GE company*
4:00 pm - 4:30 pm	Machine-Learned Mapping of Basin-wide Salt: Old Data – New Methods	**Scott Morris**, Tony Dupont, John Grace; *Earth Science Associates*
4:30 pm - 7:00 pm	**Networking Reception**	

Poster Session
Invited Presentations from Graduate Students
Open during Coffee and Lunch Breaks

Oral Presentations – Wednesday, March 6, 2019

7:00	**Registration and Coffee**	
	Session 3: Digital Transformation of the Geosciences – Hype or Hope **Chairs:** Lisa Neelen and Mark Herkommer	
8:00 am - 9:00 am	**Key Note** How We Get From Bytes to Barrels in the Delaware Basin	**David O'Brien**, *Anadarko*
9:00 am - 9:30 am	Evolution of Drilling Data and Geological Data Utilization in Drilling Optimization	**Ernest Onyia**, *GPRESS Energy, LLC*
9:30 am - 10:00 am	(Artificially) Intelligent Methods to Maximize Value from Piston Core Geochemistry: An Example from Offshore Nigeria	**Benjamin Kirkland**, *Fieldwood Energy, LLC*
10:00 am - 10:30 am	**Coffee Break, Posters**	
10:30 am - 11:00 am	Spatial Seismic Waveform Analysis using Enhanced Similarity Algorithm	**Daniel De Lilla**, *Anadarko*, Olga Brusova
11:00 am - 11:30 am	Generative Adversarial Networks in Seismic Data Processing	**Stephen Alwon**, *Schlumberger*
11:30 am - 12:30 pm	**Lunch, Posters**	
	Session 4: Machine Learning and Data Analytics in Exploration and Production **Chairs:** John Adamick and Jessica Raines	
12:30 pm - 1:00 pm	Identifying New Drilling Areas in Midland Basin Integrating Geological Mapping, Predictive Analytics and GIS Technology	**Camilo Rodriguez**, *IHS Markit*
1:00 pm - 1:30 pm	The Use of Machine Learning to Enhance Faults and Fractures Detection in Seismic Data	**Hesham Refayee**, *dGB Earth Sciences*
1:30 pm - 2:00pm	Machine Learning-Based Approach to Assistive Well Log Correlation	**Seth Brazell**, *Anadarko*
2:00 pm - 2:30 pm	**Coffee Break, Posters**	
2:30 pm - 2:45 pm	**Poster Session Awards**	
2:45 pm - 3:15 pm	Applying Artificial Intelligence to Seismic Data for Enhanced Earth Modeling	**Richard Koseluk**, *Quantico Energy Solutions*
3:15 pm - 3:45 pm	Digital Transformation and Deep Learning in E&P	**Bode Omoboya**, *Bluware*
3:45 pm - 4:15 pm	Using Machine Learning for Fault Detection in Unconventional Reservoir Development	**Cody Comiskey**, *Anadarko (AAEP)*

Posters – March 5–6, 2019

Poster Session Chair: Mike Effler		
University	**Student Name**	**Poster Topic**
Colorado School of Mines	**Deep Joshi**	Applying Petroleum Industry Heritage to Characterize Water-Ice on Moon
Stanford University	**Anshuman Pradhan**	Creating Large Volumes of Labeled Training Data for Geophysical Estimation with Machine Learning: A Bayesian Approach
Texas A&M University	**See Yoon Lee**	Hierarchical Bayesian Modeling: Application Towards Production Results in the Eagle Ford Shale of South Texas
Texas A&M University	**Cuiting Qi**	The Application of Discriminant Analysis in Well Logging Evaluation of Low Permeability Reservoirs in Block Zhuang 62-66 of Wuhaozhuang Oilfield, Jiyang Depression
The University of Alabama	**Hao Wu**	From Learning Noise to Denoise Using Deep Convolution Neural Network: An Application of Seismic Noise Attenuation
The University of Oklahoma	**Rafael Pires de Lima**	Convolutional Neural Networks: If They Can Identify an Oncoming Car, Can They Identify Lithofacies in Core
The University of Oklahoma	**Saurabh Sinha**	Statistical Controls on Induced Seismicity
The University of Oklahoma	**Jing Zhang**	Azimuthal Anisotropy Analysis Application in Unconventional Reservoir Natural Fracture Network Interpretation: Using the Barnett Shale as an Example
The University of Texas Permian Basin	**Ashton Faulkner**	Paleoenvironment and Hydrocarbon Potential of the Cretaceous Mancos Shale in Rio Arriba County, New Mexico
University of Calgary	**Sochi Iwuoha**	Leveraging Big Data for Field-Scale Reservoir Analysis: A New Well-Log and Artificial Neural Network Technique for Recognizing Natural Fracture Zones in Tight Reservoirs
University of Houston	**Lian Jiang**	Influence of Data Quality and Distribution on Facies Classification with Machine Learning
University of Houston	**Wenyuan Zhang**	Characterizing Reservoir Anomalies Through FWI and Deep Learning of Crosswell Seismic Data

Participating Schools

Colorado School of Mines • Stanford University • Texas A&M University

The University of Alabama • The University of Oklahoma • The University of Texas Permian Basin

University of Calgary • University of Houston

Open During Coffee and Lunch Breaks