

2018 NEW HORIZONS ENERGY CONFERENCE

PROGRAM

Thursday, October 25, 2018

Surbeck Center Ballroom, South Dakota School of Mines & Technology

7:00 – 8:00 a.m.	REGISTRATION AND CONTINENTAL BREAKFAST	
8:00 – 8:10 a.m.	Welcome, general information (10 m)	Dan Soeder, South Dakota School of Mines and Technology
8:10 – 8:20 a.m.	Opening remarks (10 m)	Dr. James Rankin, President, South Dakota School of Mines and Technology, Rapid City, SD
8:20 – 8:40 a.m.	Exploration of Resource Plays and the Economic Consequences (20 m)	Calvin Reppe, KIC Oil and Gas Associates, Denver, CO
8:40 – 9:00 a.m.	Refined Stratigraphy of the Pierre Shale Using Drill Core from Presho, SD (20 m)	J. Foster Sawyer, South Dakota School of Mines and Technology, Rapid City, SD
9:00 – 9:20 a.m.	Definition and Hydrocarbon Potential of the Late Devonian Three Forks Formation, Williston Basin, SD (20 m)	Michelle Ozarowski, GenPro Energy, Deadwood, SD
9:20 – 9:40 a.m.	Conversion of Gas Petroleum Sources as a Stopgap for Electrical Grid Disruptions and Reduction in Climate Change Gases (20 m)	Steve Tedesco, Energid Energy, Inc., Centennial, CO
9:40 – 10:00 a.m.	Development for Optimal In-Field Water Resource Systems for Drilling and Completions (20 m)	Daniel J. Arthur, ALL Consulting, Tulsa, OK
10:00 – 10:30 a.m.	Residual Oil Zone Origins and ROZ Horizontal Well Depressuring Case Histories (30 m)	Steve Melzer, Melzer Consulting, Midland, TX
10:30 – 10:50 a.m.	AM REFRESHMENT BREAK in Surbeck McKeel Room (20 m) – Sponsored by TBD	
10:50 – 11:20 a.m.	Development of Sedimentary Heat Geothermal: Current State, Hurdles, and Future (30 m)	Matthew Minnick, RESPEC, Inc., Rapid City, SD
11:20 – 11:40 a.m.	Williston Basin Geothermal Energy Growth Plan (20 m)	Will Gosnold, University of North Dakota, Grand Forks, ND
11:40 – NOON	“DEEP” Sedimentary Geothermal Power Generation in Saskatchewan (20 m)	Matthew Minnick, RESPEC, Inc., Rapid City, SD
NOON. – 1:30 p.m.	LUNCH in Surbeck Ballroom – with accompanying presentation – Sponsored by TBD 12:30 PM – 1:30 PM Keynote Lecture – “The Past, Present and Future of USGS Assessments in the Williston Basin” by Dr. Walter Guidroz, U.S. Geological Survey (60 m)	
1:30 – 2:00 p.m.	Toward the Development of a Holistic, Multi-Geoscience Methodology to Assess Potential Impacts of Unconventional Hydrocarbon Development on Fresh-Water Aquifers Related to Upward Migration (30 m)	Christine Rivard, Geological Survey of Canada, Quebec City, QC
2:00 – 2:20 p.m.	Assessing Water Use Associated With the Life Cycle of Unconventional Oil and Gas Development (20 m)	Joshua F. Valder, U.S. Geological Survey, Rapid City, SD
2:20 – 2:40 p.m.	Understanding the Relation Between Energy and Water Resources in The Williston Basin (20 m)	Joanna Thamke, U.S. Geological Survey, Helena, MT
2:40 – 3:00 p.m.	Geochemical and Biological Effects of Oil and Gas Wastewater Releases to Surface Waters (20 min)	Isabelle M. Cozzarelli, U.S. Geological Survey, Reston, VA
3:00 – 3:20 p.m.	Chemical Forms of Barium and Radium In Sediments Impacted by Spills of Wastewater from Oil and Gas Production (20 m)	Douglas B. Kent, U. S. Geological Survey, Menlo Park, CA
3:20 – 3:40 p.m.	PM REFRESHMENT BREAK in Surbeck McKeel Room (20 m) – Sponsored by TBD	
3:40 – 4:00 p.m.	Trace Element Analysis of Shales and Carbonates for Paleoenvironmental Interpretation and Stratigraphic Correlation: Rare Earth Element (Ree) Analysis (20 m)	Doreena Patrick, Consultant, North Wales, PA
4:00 – 4:20 p.m.	Methodology and Interpretation for Rare Earth Elements (Ree) in Various Hydrocarbons (20 m)	Vanja Stevanovic, KIC Oil and Gas Associates, Denver, CO
4:20 – 4:40 p.m.	Engineering the Architecture of Electroactive Biofilms for Bioenergy Applications (20 m)	Navanietha Krishnaraj Rathinam, SD School of Mines & Technology, Rapid City, SD
4:40 – 4:50 p.m.	Concluding remarks (10 m)	Dan Soeder, South Dakota School of Mines and Technology
4:50 – 5:00 p.m.	10 min break; Set-up for panel discussion	Scyller Borglum, RESPEC, Inc., Rapid City, SD

PRELIMINARY AND SUBJECT TO CHANGE

5:00 – 6:00 p.m.	PUBLIC ENERGY POLICY PANEL Moderator – SD House Rep. Scyller J. Borglum, Ph.D. (R. 32) 60 m
6:00 – 7:00 p.m.	Evening Reception and Posters: James Martin Paleontology Research Laboratory (PRL). Sponsored by Firehouse Brewing Company and Winery
Poster	POTENTIAL OF GEOTHERMAL ENERGY IN INDIA : IMPLICATIONS FOR ENERGY AND ENVIRONMENT: Dr. N. Jayaraju, Yogi Vemana University, India
Poster	WILLISTON BASIN GEOTHERMAL ENERGY GROWTH PLAN: Dr. Will Gosnold, Univ of North Dakota, Grand Forks, ND
Poster	SCOPE OF LNG AND NUCLEAR ENERGY: Divakar Vashisth, IIT (ISM) Dhanbad, India
Poster	ELECTROACTIVITY OF THE MICROBES AS DRIVING FORCE FOR BIOFILM FORMATION AND BIOENERGY APPLICATIONS: Dipayan Samanta, SD School of Mines & Technology, Rapid City, SD
Poster	BIOELECTROCHEMICAL PRODUCTION OF BIOMASS FROM METHANE FOR BIOFUEL PRODUCTION: Gorky, SD School of Mines & Technology, Rapid City, SD
Poster	Room for additional posters...

OPTIONAL FIELD TRIPS AND SEMINAR

Friday, October 26, 2018

Times	Field Trip/Seminar
8:00 a.m. – 6:00 p.m.	<p>Geology of the northern Black Hills – Foster Sawyer, SDSMT and Mark Fahrenbach, SD DENR</p> <ul style="list-style-type: none"> • Vans meet in front of Surbeck Center in parking lot at 7:30 AM for 8:00 AM departure. • Box lunches will be provided. • Limit of 22 participants, plus leaders. • Cost included in registration fee, meeting registration required • Field clothes, hat, sturdy shoes or boots, sunblock, and extra water recommended.
8:30 a.m. – 5:30 p.m.	<p>Sanford Underground Research Facility – Bill Roggenthen and Kelli McCormick, SDSMT</p> <ul style="list-style-type: none"> • Van meets in front of Surbeck Center in parking lot at 7:30 AM for 8:00 AM departure. • Lunch will be provided, possibly pasties (A pasty is a traditional baked meat and vegetable pie originating in Cornwall, England and associated with hard rock miners.) • Limit of 10 participants, plus leaders. • Cost included in registration fee, meeting registration required. • Trip will include stops on outcrops and a visit underground to the 4850 foot level of SURF • Field clothes, sturdy shoes (safety boots if available), and extra water recommended. • Hard hats, safety glasses, cap lamps, self-rescuer, and ear protection will be provided. • Safety training is provided and required prior to descent underground.
8:00 a.m. – 5:30 p.m.	<p>PTTC Short Course – Volumes and Risk Assessment for Conventional and Unconventional Plays and Prospects: Dr. Alexei Milkov, Colorado School of Mines (8.0 PDH)</p> <ul style="list-style-type: none"> • Advanced registration and an additional \$250 fee required for professionals • Students are required to pay a \$20 fee to cover materials • Registration for New Horizons meeting is not necessary if only attending PTTC course • Buffet lunch and coffee breaks are included • Certificate of Professional Development Hours will be provided

Conference Registration: <https://interact.sdsmt.edu/conference/nhec.html>

PTTC Short Course Registration: https://www.eventbrite.com/e/volumes-and-risks-assessment-for-conventional-and-unconventional-plays-and-prospects-tickets-48892881926?aff=utm_source%3Demail%26utm_medium%3Demail%26utm_campaign%3Dnew_event_email&utm_term=eventname_text

Updated 8/16/2018

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