

Day	Time	Room
Monday, July 25	8:35 AM	Room 1
Monday, July 25	9:00 AM	Room 1
Monday, July 25	9:25 AM	Room 1
Monday, July 25	9:50 AM	Room 1
Monday, July 25	10:15 AM	
Monday, July 25	10:35 AM	Room 1
Monday, July 25	11:00 AM	Room 1
Monday, July 25	11:25 AM	Room
Monday, July 25	10:35 AM	Room 2
Monday, July 25	11:00 AM	Room 2
Monday, July 25	11:25 AM	Room 2
Monday, July 25	11:50 AM	
Monday, July 25	1:35 PM	Room 1
Monday, July 25	2:00 PM	Room 1
Monday, July 25	2:25 PM	Room 1
Monday, July 25	2:50 PM	Room 1
Monday, July 25	1:35 PM	Room 2
Monday, July 25	2:00 PM	Room 2
Monday, July 25	2:25 PM	Room 2
Monday, July 25	2:50 PM	Room 2
Monday, July 25	3:15 PM	
Monday, July 25	3:40 PM	Room 1
Monday, July 25	4:05 PM	Room 1
Monday, July 25	4:30 PM	Room 1
Monday, July 25	3:40 PM	Room 2
Monday, July 25	4:05 PM	Room 2
Monday, July 25	4:30 PM	Room 2
Monday, July 25	All day	Room 3
Monday, July 25	All day	Room 3
Monday, July 25	All day	Room 3
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Monday, July 25	All day	Room 3
Tuesday, July 26	8:35 AM	Room 1
Tuesday, July 26	9:00 AM	Room 1
Tuesday, July 26	9:25 AM	Room 1
Tuesday, July 26	9:50 AM	Room 1
Tuesday, July 26	8:35 AM	Room 2
Tuesday, July 26	9:00 AM	Room 2
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Tuesday, July 26	9:50 AM	Room 2
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Tuesday, July 26	10:35 AM	Room 1
Tuesday, July 26	11:00 AM	Room 1
Tuesday, July 26	11:25 AM	Room 1

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## Session

Opening Plenary - Welcome to RMS 2022

Opening Plenary - Welcome to RMS 2022

Opening Plenary - Welcome to RMS 2022

Opening Plenary - Welcome to RMS 2022

## BREAK

Remembering Bob Weimer and his Contributions to Rockies Geology

Remembering Bob Weimer and his Contributions to Rockies Geology

Remembering Bob Weimer and his Contributions to Rockies Geology

Technological & Analytical Tools for Energy Development

Technological & Analytical Tools for Energy Development

Technological & Analytical Tools for Energy Development

## LUNCH (All Convention Luncheon)

Petroleum Systems in the Rocky Mountain Region

Petroleum Systems in the Rocky Mountain Region

Petroleum Systems in the Rocky Mountain Region

Petroleum Systems in the Rocky Mountain Region

Geological characterization and petroleum targets of the Green River Formation, Uinta Basin

Geological characterization and petroleum targets of the Green River Formation, Uinta Basin

Geological characterization and petroleum targets of the Green River Formation, Uinta Basin

Geological characterization and petroleum targets of the Green River Formation, Uinta Basin

## BREAK

History of Petroleum Geology in the Rockies

History of Petroleum Geology in the Rockies

History of Petroleum Geology in the Rockies

Geological characterization and petroleum targets of the Green River Formation, Uinta Basin

Geological characterization and petroleum targets of the Green River Formation, Uinta Basin

Geological characterization and petroleum targets of the Green River Formation, Uinta Basin

Professional Posters

Professional Posters

Professional Posters

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The Cane Creek Petroleum Play, Paradox Formation, Utah

The Cane Creek Petroleum Play, Paradox Formation, Utah

The Cane Creek Petroleum Play, Paradox Formation, Utah

The Cane Creek Petroleum Play, Paradox Formation, Utah

Carbon Capture, Utilization, and Sequestration in the Rockies

Carbon Capture, Utilization, and Sequestration in the Rockies

Carbon Capture, Utilization, and Sequestration in the Rockies

Carbon Capture, Utilization, and Sequestration in the Rockies

## BREAK

The Cane Creek Petroleum Play, Paradox Formation, Utah

The Cane Creek Petroleum Play, Paradox Formation, Utah

The Cane Creek Petroleum Play, Paradox Formation, Utah

Carbon Capture, Utilization, and Sequestration in the Rockies  
Carbon Capture, Utilization, and Sequestration in the Rockies  
Carbon Capture, Utilization, and Sequestration in the Rockies

LUNCH

Applications of Geochemistry to Petroleum Systems  
Applications of Geochemistry to Petroleum Systems  
Applications of Geochemistry to Petroleum Systems  
Applications of Geochemistry to Petroleum Systems  
Geothermal Energy Resources in the Rockies and Beyond  
Geothermal Energy Resources in the Rockies and Beyond  
Geothermal Energy Resources in the Rockies and Beyond  
Geothermal Energy Resources in the Rockies and Beyond

BREAK

Stratigraphy & Sedimentology  
Stratigraphy & Sedimentology  
Stratigraphy & Sedimentology  
Using Machine Learning to Supplement Geology  
Using Machine Learning to Supplement Geology  
Using Machine Learning to Supplement Geology

BREAK

Student Posters  
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Innovative Workflows for Energy Geoscience  
Innovative Workflows for Energy Geoscience  
Innovative Workflows for Energy Geoscience  
Innovative Workflows for Energy Geoscience  
Assessment of Energy Resources  
Assessment of Energy Resources  
Assessment of Energy Resources  
Assessment of Energy Resources

BREAK

Applications of Geochemistry to Petroleum Systems  
Applications of Geochemistry to Petroleum Systems  
Applications of Geochemistry to Petroleum Systems  
Structural Geology & Salt Tectonics  
Structural Geology & Salt Tectonics  
Structural Geology & Salt Tectonics

Presenter or Lead Author

Anna Phelps

Rob Diedrich

Susan Nash

Steve Sonnenberg

Marron Bingle-Davis

Mike Blum

David Sawyer

Kevin Wutherich

Alan Lindsey

Douglas B. Decker

James Hagadorn

Steve Cumella

Timothy O. Nesheim

Cory H. Christie

Ronald F. Broadhead

Lucas J. Fidler

Riley Brinkerhoff

Ryan Gall

Justin E. Birdwell

Robbie R. Gries

Thomas C. Chidsey, Jr.

Daniel J. Plazak

Riley Brinkerhoff

Matthew A. Jones

Justin E. Birdwell

Michael D. Vanden Berg

Justin E. Birdwell

Kristen R. Marra

Justin E. Birdwell

Savannah L. Rice

Stephan H. Nordeng

Paul G. Quinn

Justin E. Birdwell

Kevin M. Hobbs

Brian Clemishire

Susan Nash

Elliot Jagniecki

Gregor Maxwell

Thomas J. Paronish

Eugene Szymanski

Calvin C. Reppe

Eugene Szymanski

David Nnamdi

Christopher M. Smith

Patrick N. Gathogo

Kevin Lynn McCormack

Thomas B. Smith

No'am Z. Dvory  
Benmadi M. Milad  
Mitchell T. Schneider

Luke A. Arnsberger  
E.M. Bergin  
J. Alex Zumberge  
Monte Swan  
Eric Stautberg  
Christopher M. Smith  
William Hurlbut  
Emilie N. Gentry

John C. Hoopes  
Thomas P. Martin  
Jeffrey W. Bader  
R. Mark Maslyn  
Matthew W. Bauer  
Lisa Stright

Martin  
David Nnamdi  
Brook Runyon  
N.M. Dusak  
M.A. Vasquez  
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Ligia Carolina Mayorga-Gonzalez  
Patrick M. Sullivan  
Eric Stautberg  
Christopher C. Matson  
Israel A. Jaramillo  
Mitchell T. Schneider  
Patrick Ronnau

Barrett A. Lavergne  
Zane R. Jobe  
Matt P. Slowinski  
Riley Brinkerhoff  
K.C. Oren  
Susan Nash  
Nicholas D. Kernan  
David M. Advocate

Michael Holmes  
Wayne Camp  
Tengfei Wu  
Jeffrey W. Bader  
Kyle, A. Bracken  
OPEN

## Title

Welcome to the 2022 Rocky Mountain Section AAPG Meeting!

100 Years! Celebrating RMAG's Past, Present & Future

The best strategies for effective cross-over training for geoscientists seeking to diversify

Niobrara Production from the Lowry-Bombing Range Area Denver Basin, a Deep-Basin, Continuous, Paleostuctural Trap

Integrating industry concepts with university learning: Attempting to combine classroom learning and workplace training

Dakota Group Fluvial Systems of the Colorado Front Range: Provenance, Geochronology, and Paleogeographic Significance

Ten Million Years of Dakota Sandstone

Using Drilling Data to Characterize Reservoirs

Well Music: Translating Well Data to Music for a New Perspective

Field-Based Removal of Hydrogen Sulfide from Carbon Dioxide and Natural Gas Sample Streams without Geochemical Alteration

**Rocky Mountain Extinction at the Devonian-Carboniferous Transition**

Codell continuous oil accumulation in the northern Denver basin as defined by resistivity, density, and SP logs

Examination of the unconventional resource potential of the Mississippian Madison Group within the Williston Basin

Using Seismic Characterization to Support a New Horizontal Program at Jonah Field, WY

The offshore Mancos play in the San Juan Basin: productive carrier beds within the Mancos total petroleum system

Characterization of an Unconventional Resource, Uteland Butte member, Lower Green River Formation, Uinta Basin, Utah

Using Pore System Characterization to Subdivide the Burgeoning Uteland Butte Play, Green River Formation, Uinta Basin, Utah

Outcrop characterization and depositional model of the Uteland Butte member, Green River Formation, Uinta Basin, Utah

Detailed geochemical characterization of the lower part of the Green River Formation in south-central Uinta Basin, Utah

Ninetta Alia Davis: First Female President of RMAG

History of Petroleum Development in Utah

From the Civil War to the Jazz Age: Isaac Canfield's 60-year career as an oil dowsers

Strain segregation between ductile and brittle stratigraphy—Characterizing the Sand Wash Fault System, Uinta Basin, Utah

Depositional Architecture of a Turbiditic Sandstone Complex, Lower Green River Formation, Uinta Basin, Utah

Molecular and bulk geochemical indicators of early thermal maturation in the Mahogany zone oil shale of the Green River Formation

Geologic characterization of the newly acquired State 16-2 Cane Creek research core, Pennsylvanian Paradox Formation, northern Paradox Basin, Utah

Comparison of geochemical properties and mineralogical data from core and cuttings samples

New USGS Assessment of Continuous Oil Resources of the Bakken and Three Forks Formations in the Williston Basin (North Dakota)

Temperature mapping within the onshore oil and gas production region of the U.S. Gulf Coast Basin

The Department of Energy's Advances Towards a Sustainable CM/REE Supply Chain

Defining the onset of oil generation in the Bakken Formation using thermal maturity series obtained from nonisothermal experiments

Advanced Aspects Of Groundwater Flow And 3D Geologic Models In The Oil Shale Basins, Jordan

Differences in oil shale organic matter across Eocene Lake Uinta inferred from Fischer assay data

Paleoseismites in San Juan Basin fluvial sedimentary rocks indicate syndepositional seismicity in the Paleocene and Eocene

Using Physics to Prevent Oil & Gas Production Problems

Fast-Track

Sedimentology and Reservoir Characterization of the Emerging Cane Creek Play, Paradox Formation, Northern Paradox Basin, Utah

Value Creation in the Northern Paradox Basin – paradoxical or not?

Core Characterization of the Crane Creek Interval in the Paradox Formation from the State 16-2 Well

Subsurface constraints on Paradox Basin thermal history from borehole (U-Th)/He thermochronology within the Cane Creek play

Integrated Reservoir Characterization for Hydrocarbon Exploration & Production, CO<sub>2</sub> Sequestration, and Critical Mineral Resource

Mitigating Geologic Risk Uncertainty for Carbon (CO<sub>2</sub>) Sequestration in Multiple Subsurface Targets in the Iron Springs District

Feasibility Study of Utilizing Water Disposal Wells to Inject Carbonated Water into Selected Formations in Oklahoma for the Pre-Commercial

CCUS Risk Evaluation in the San Juan Basin Using Rock Volatiles Stratigraphy - Identification of Fractures and Lateral Migration

Fracture Characterization of the Cane Creek Play, Paradox Formation, Southeastern Utah: A Multi-Scale Approach Incorporating

Using Viscoplastic Stress Relaxation Theory on Core Measurements to Determine the Least Horizontal Principal Stress

Mining Brines: A New Exploration and Production Model for the Minerals Extraction Industries

State of stress in southeastern Utah

Geological Modeling of Carbon Dioxide Storage in Osage County, Oklahoma

Quantifying Rock Characteristics in the San Andres Formation that Promote CO<sub>2</sub> Sequestration, Permian Basin, USA

An Integrative Approach to Geochemical Production Allocation in the Northern Denver Basin Using Quantitative Chromatography

Optimizing Field Development in the Powder River Basin Using Geochemical Fingerprinting Technology

Focused Investigation, Insights and Impact of Fluid-Filled Storage Volume; A Case Study in the Niobrara-Codell of the DJ Basin

Correlations Between Petroleum Systems and Serpentinization

The Identification and Characterization of Sedimentary Geothermal Play Types on the Texas Gulf Coast for Power Generation

Volatiles Analysis of Cuttings from the FORGE 58-32 Well-“Logging” High Temperature Wells, Evaluating Communication Pathways, and Implications

Advancement of Geothermal Resources and Research in Utah, USA

Geothermal Resource and Synthetic Geothermal Reservoir Feasibility Study of Wyoming

New Horizontal Play Targeting Fluvial Sandstones in a Basin-Centered Gas System around Jonah Field, WY

Paleohydraulic Analysis of Meandering River Deposits, Petrified Forest National Park, Arizona

Stratigraphic Framework of the Deadwood Formation of North Dakota

Using Data Analytics to Explore “J” (Muddy) Channel Sandstones in the Denver-Julesburg Basin and Test a ML Exploration Technology

Automating Raster Well Log Preparation with Python: Depth Registration, Straightening, and Track Identification

TBD

Future of Core-scale analysis: Machine-Learning

Feasibility Study of Utilizing Water Disposal Wells to Inject Carbonated Water into Selected Formations in Oklahoma for the Permian  
Tectonic evolution of the Paradox Basin with insight from 3D seismic reflection data

Facies, Stratigraphy, and Reservoir Heterogeneity of the Upper Wolfcamp Formation (Wolfcamp A-Equivalent) in the Glass Mountain  
Hyperspectral Scan Imagery and XRD Identification of Carnallite as a Potash Source in Brines Associated with Ordovician and Silurian

Modeling of Channel Stacking Patterns Controlled by Near Wellbore Modeling

Reservoir Quality on the Lewis Shale for horizontal drilling

Insights into mudstone sedimentology, organic richness, and anoxia at the opening of the Cretaceous Interior Seaway: The Lower

Depositional setting and paragenesis of silica nodules from the Middle Jurassic Curtis Formation on the eastern flank of the San Juan

Comparison of the Upper Cretaceous Greenhorn Formation in cores from the Denver-Julesburg Basin; implications Ocean Anoxia

Influences on mechanical properties of the Upper Wolfcamp (XY) of the Delaware Basin, west Texas, and their relationship with

Quantifying Rock Characteristics in the San Andres Formation that Promote CO<sub>2</sub> Sequestration, Permian Basin, USA (see also C

Machine learning prediction of slope channel facies using outcrop analog data, Tres Pinos Formation, Magallanes Basin, Chile

Multidisciplinary Approach to Niobrara Gas Development in an Overlooked High Temp, High Pressure Reservoir: A Southeast F

A core competency: Digitalizing core data for better energy-resource and mineral prediction

Case Study of Optimizing Oil Recoveries and Parent-Child Relationships in the Gallup Sandstone, San Juan Basin, New Mexico.

Pitfalls of Model-Driven Unconventional Development – The Stratigraphic Trends that Drive Oil & Gas Productivity in Divide Co

Chemical Tracers for Empirically-based Resources Assessment and Data Driven Valuations throughout an Asset’s Life

Fast-tracking conventional reservoir development and carbon management within the footprint of unconventional

Market Evidence of Reserve Adjustment Factors and Risk Adjusted Discount Rates in a North American Unconventional Play

Importance of Probability Distributions on Volumetric Characterizations in Resource Assessment

Methodology to Estimate Thermal Maturity from Petrophysical Calculations of Gas/Oil Ratios

Organic Petrography of the Ordovician Red River Kustersite Tight Oil and Gas Play, Williston Basin, North Dakota, U.S.A.

Estimating total organic carbon content in Green River Formation oil shales using elemental data and multivariate analysis

Preliminary assessment of arch-top lineaments in Laramide arches, Wyoming–Montana (USA), and Ga-scale tectonic significance

The Sage Breaks scour event and its influence on layer-bound normal faulting within the Niobrara and Turner formations, South

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Southeastern Utah

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