



PCOR

PARTNERSHIP

ANNUAL MEETING



AUGUST 27-28, 2024
Bismarck State College
Bismarck, North Dakota

2024

SPONSORED BY



U.S. DEPARTMENT OF
ENERGY



NATIONAL
ENERGY
TECHNOLOGY
LABORATORY



North Dakota
Industrial Commission



Institute of Northern Engineering
University of Alaska Fairbanks



UNIVERSITY
OF WYOMING

School of
Energy Resources

thank you

SPECIAL EVENT SPONSORS



Eagle Operating Inc.



NORTH DAKOTA
PETROLEUM
COUNCIL



PCOR PARTNERSHIP ANNUAL MEETING

Dear Partners and Guests:

Welcome to the 2024 PCOR Partnership Annual Meeting, and thank you for your attendance!

Annual Meeting

The PCOR Partnership Initiative to Accelerate CCUS Deployment, funded by the U.S. Department of Energy National Energy Technology Laboratory, the North Dakota Industrial Commission, and participating member organizations, fosters the deployment of CCUS in the PCOR Partnership region. The Energy & Environmental Research Center leads the PCOR Partnership Initiative in collaboration with the University of Wyoming School of Energy Resources and the University of Alaska at Fairbanks Institute of Northern Engineering.

We strive to engage all our partners to ensure we provide the most value for your investment. Your input is a key component in determining the future direction of the industry, our program, and events, and we look forward to hearing from you throughout the course of this meeting and in the coming months.

Tuesday Evening Social and Dinner Event

The Huckleberry House, inspired by North Dakotan and Scandinavian traditions, boasts Nordic culinary traditions coupled with contemporary elegance in a riverside setting with stunning views of the Missouri River, making for a truly unique venue. The restaurant, inspired by an 1800s boathouse, features two levels of indoor and outdoor dining. Enjoy the fusion of modern Nordic dishes, inventive cocktails, and classic design elements for a distinctive dining experience by the river. Join us tonight for a social hour with appetizers at 6:00 p.m. followed by dinner at 7:15 p.m.

Special Event Sponsors

I want to personally thank our special event sponsors for their incredible support. Without their generous contributions, our evening events at the Heritage Center last night and the Huckleberry House tonight would not be possible. This year's special event sponsors include Air Products & Chemicals, Inc.; Alaska Asia Clean Energy Corporation; Barr Engineering Co.; Basin Electric Power Cooperative; Carbon Vault Holdings LLC; CO2SeQure; Dakota Gasification Company; Denbury, Inc.; Eagle Operating Inc.; Halliburton; Ham's Well Service; Ikon Science; the Lignite Energy Council; Minnkota Power Cooperative; North American Coal Corporation; the North Dakota Petroleum Council; Rainbow Energy Center, LLC; Rockflow Dynamics; SLB; and TC Energy Corporation.

Event Services

We wish to make your experience at our meeting as positive and enjoyable as possible, so please contact Janelle or Heather at the registration desk if you have questions or need assistance.

Following the Meeting

Meeting presentations will be available on our partners-only website. If you need your login credentials, please see Janelle at the registration desk.

Please feel free to contact me anytime with questions or comments regarding the PCOR Partnership. I can be reached by phone at (701) 777-5236 or by email at kconnors@undeerc.org. Again, thank you for your support, and enjoy your stay in Bismarck!

Sincerely,



Kevin C. Connors

PCOR Partnership Program Manager
Assistant Director for Regulatory
Compliance and Energy Policy

AGENDA

**TUESDAY, AUGUST 27, 2024 | PCOR Partnership Annual Meeting
(Bismarck State College Bavendick Stateroom)**

- 7:30 a.m. Registration, Networking, and Breakfast (provided)**
- 8:30 a.m. Welcome and Introductions**
Kevin Connors, Energy & Environmental Research Center (EERC)
- 8:40 a.m. Welcome to North Dakota**
Stacy Tschider, Rainbow Energy Center, LLC
- 8:45 a.m. PCOR Partnership – A Growing Portfolio of Commercial Projects**
Kevin Connors, EERC
- 9:10 a.m. Wyoming CCUS Cowboys**
Fred McLaughlin, University of Wyoming School of Energy Resources (UW SER)
- 9:35 a.m. CCUS Advancements in Alaska**
Frank Paskvan, University of Alaska Fairbanks Institute of Northern Engineering
- 9:50 a.m. Networking Break**
- 10:30 a.m. Panel – Project Development: Experiences from Planning to Operation**
Hear lessons learned from operating CO₂ projects straight from the front lines. Key business personnel will share their experiences with various deployment phases from feasibility through permitting to operation.
Moderator – John Harju, EERC
Adam Dunlop, Harvestone Low Carbon Partners
James Hume, TR Operating LLC
Jodi Johnson, Red Trail Energy, LLC
Van Spence, Carbon Vault Holdings LLC
- 11:30 a.m. Pioneer Award Presentation**
Charlie Gorecki, EERC
John Harju, EERC
Kevin Connors, EERC
- 12:00 Noon Group Photo and Lunch (provided)**
- 1:30 p.m. Panel – Regulatory Roundup: Policy Developments and Permitting**
Hear from a group of key regulators representing the various stages of state Class VI primacy: Alaska at the UIC Class VI preapplication phase; Louisiana, recently granted primacy and now working through permitting the first of many projects; Wyoming, recently permitted its first UIC Class VI project; and North Dakota, which has projects injecting under UIC Class VI permits granted through primacy. Learn what to anticipate from the primacy process and subsequent permitting of CO₂ storage.
Moderator – Kevin Connors, EERC
Lily Barkau, Wyoming Department of Environmental Quality
Jason Lanclos, Louisiana Department of Natural Resources
Haley Paine, Alaska Division of Oil and Gas
Richard Suggs, North Dakota Industrial Commission Department of Mineral Resources

AGENDA

- 2:15 p.m. Technology Showcase**
Subject matter experts present on the latest tech advances in CCUS. Experts from the EERC and UW SER will present on the innovations in capture; CO₂ in enhanced oil recovery; and the deployment of low-impact, real-time monitoring.
Moderator – Beth Kurz, EERC
Scott Quillinan, UW SER
Trevor Richards, EERC
Jim Sorensen, EERC
Josh Stanislawski, EERC
- 3:00 p.m. Break**
- 3:30 p.m. Panel – Emerging Opportunities: Carbon Management Is Driving New Industry Projects**
Hear from a group of project developers exploring opportunities beyond point source capture on existing sources. Whether exploring new ventures, partnerships, techniques, or ways to capture and use CO₂, these leaders are integrating carbon management to enable new business cases, drive development of new industry projects, and create opportunities for value propositions beyond the traditional energy sector.
Moderator – Jim Sorensen, EERC
Jeff Kummer, Meriden Carbon
John Litynski, EQT Corporation
Tim Prather, TC Energy
Wayne Rowe, Air Products and Chemicals, Inc.
- 4:30 p.m. Wrap-Up with Regional Vision, Preview Site Visit, and Announcements**
Kevin Connors, EERC
Dale Johnson, Dakota Gasification Company (DGC)
David Straley, North American Coal Corporation Natural Resources
- 5:00 p.m. Adjourn**
- 6:00 p.m. Evening Event (Huckleberry House, 1700 River Road)***

WEDNESDAY, AUGUST 28, 2024 PCOR Partnership Site Visit (DGC)

- 8:00 a.m. Load Buses (Hampton Inn, Courtyard Marriott, Home2 Suites, and BSC)**
- 8:15 a.m. Depart for DGC and Freedom Mine (75-minute trip)**
- | GROUP 1 | | GROUP 2 | |
|--|--|--|--|
| 9:30 a.m. DGC Tour | | 9:30 a.m. Freedom Mine Tour | |
| 11:00 a.m. Lunch at Freedom Mine (provided)* | | 10:30 a.m. CO₂ Injection Well (Site 3) | |
| 11:45 a.m. CO₂ Injection Well (Site 3) | | 11:15 a.m. Lunch at Freedom Mine (provided)* | |
| 12:30 p.m. Freedom Mine Tour | | 12:00 Noon DGC Tour | |
| 1:30 p.m. Load Buses and Depart for Bismarck | | | |
| 2:45 p.m. Arrive Back at Hotels/BSC and Adjourn | | | |

Please note: groups will be determined by the vehicle you are transported in.
Photos of DGC tour stops not permitted.

SPEAKERS



Ms. Lily Barkau is the Groundwater Section Manager of the Water Quality Division at the Wyoming Department of Environmental Quality (DEQ). In this role, she oversees groundwater quality assessments across the state. Ms. Barkau has been with the Wyoming DEQ for 18 years and worked on the Underground Injection Control Class VI primacy application. Wyoming received primacy of the Class VI program in 2020. Ms. Barkau is a board member for the Groundwater Research and Education Foundation and was recently appointed to the White House Council on Environmental Quality's Federal Lands CCS Permitting Task Force. Ms. Barkau holds a Bachelor of Science in Geology from Wichita State University and a Master of Science in Environmental Science and Engineering from the Colorado School of Mines. She is also a licensed Professional Geologist in Wyoming.

Mr. Kevin Connors is Assistant Director for Regulatory Compliance and Energy Policy at the EERC, where he works with a multidisciplinary team of scientists, engineers, and business professionals to integrate legal and regulatory policy, economics, and tax perspectives with applied research related to incremental oil recovery, unconventional oil recovery, and CO₂ capture and geologic storage. He is the Program Manager for the PCOR Partnership, focused on addressing regional capture, transport, use, and storage challenges facing commercial carbon, capture and utilization storage (CCUS) deployment. Prior to his position at the EERC, Mr. Connors held several positions with the North Dakota Industrial Commission's Oil and Gas Division, including Carbon Capture and Storage Supervisor, Pipeline Program Supervisor, Underground Injection Control Supervisor, and Petroleum Engineer.



Mr. Adam Dunlop is the Chief Development Officer for Harvestone Low Carbon Partners and leads the Technical Services Team. Since 2018, Mr. Dunlop has led all efforts necessary to capture and sequester CO₂ from the Blue Flint Ethanol facility, including subsurface feasibility assessments, seismic acquisition surveys, stratigraphic test well data collection, injection modeling and simulation exercises, design and construction efforts, development of all required permits and monitoring programs, completion of wells, and design and installation of a 3-mile flow line connecting the plant to injector. The project began commercial operations in October 2023. He also recently led financial analysis and technology evaluations to determine the optimal electrical and thermal configuration for ethanol plant operations and successfully completed installation and commissioning of combined heat and power assets. He holds a B.A. degree in Biology and Chemistry from Jamestown College and a M.S. degree in Environmental Management from the University of Maryland.

Mr. Charlie Gorecki is CEO of the EERC, where he leads a multidisciplinary science, engineering, and support team of more than 280 people focused on research and development (R&D) leading to demonstration and commercialization of innovative energy and environmental technologies. Previously, he served as Director of Subsurface R&D at the EERC, where he developed and managed programs and projects focused on conventional, unconventional, and enhanced oil and gas production; geologic storage of CO₂; geothermal; and other energy and environmental research. In this role, he served as Program Manager for the PCOR Partnership and the Bakken Production Optimization Program, two major collaborative industry-government programs. Mr. Gorecki also managed projects related to the entire CCUS value chain and conventional and unconventional oil and gas recovery.



Dr. John Harju is Vice President for Strategic Partnerships at the EERC, where he leads efforts to build and grow dynamic working relationships with industry, government, and research entities globally in support of the EERC's mission to provide practical, pioneering solutions to the world's energy and environmental challenges. He represents the EERC globally in advancing its core research priorities. Dr. Harju serves on the National Coal Council and National Petroleum Council. He served on the U.S. Department of Energy's (DOE's) Unconventional Resources Technology Advisory Committee. As an appointee to the Interstate Oil and Gas Compact Commission, Dr. Harju served on its Energy Resources, Research, and Technology Committee and Carbon Capture and Geological Storage Task Force. He also serves on the Board of Governors of Mainstream Investors, LLC.

Mr. James Hume is a seasoned chemical and petroleum engineer specializing in enhanced oil recovery (EOR). Throughout his career, he has held significant roles, including EOR Manager at Anadarko. In this position, he led a team that managed 164 MMBOE and booked 98 MMBOE in additional reserves in 2003. He also spearheaded the acquisition of the Salt Creek Field, which was subsequently developed into a major CO₂ EOR flood in Wyoming. After his tenure at Anadarko, Mr. Hume founded Retro Energy LLC, acquiring nonoperating positions in EOR fields. He later established TR Operating LLC, focusing on CCUS exploitation of the Minnelusa Field in the Powder River Basin. Currently, Mr. Hume is dedicated to the Minnelusa Project 2.0, aiming to develop 90 MMBO proven undeveloped reserves with a potential upside of 200 MMBOE.



SPEAKERS



Mr. Dale Johnson is the Senior Vice President and Plant Manager at the Great Plains Synfuels Plant, operated by Dakota Gasification Company. Prior to his current role, he held several roles including Process Engineer, Process Engineering Supervisor, Health Safety Environmental Manager, and Operations Manager. Mr. Johnson has been with the Great Plains Synfuels Plant since 1985. He has a Chemical Engineering degree from Montana State University.

Ms. Jodi Johnson is the Chief Executive Officer of Red Trail Energy (RTE), a 65 million-gallon-per-year ethanol production facility near Richardton, North Dakota. As CEO, she led RTE's efforts to be the first ethanol producer in the world to join the voluntary carbon market, where companies buy credits to offset carbon emissions. Along with serving on the North Dakota Ethanol Council and North Dakota Ethanol Producers Association, Ms. Johnson is an elected City Council member in Medora, North Dakota, where she resides. Before being named CEO in 2023, she served as RTE's Chief Financial Officer for 10 years. Ms. Johnson is a graduate of the University of North Dakota and a Certified Public Accountant.



Mr. Jeff Kummer is the founder and Chief Executive Officer of Meriden Carbon, a carbon management business with a landowner-centric strategy to developing gigaton-scale storage assets in the western United States. He grew up in Watford City, North Dakota, and has extensive experience in the oil and gas industry, leading mergers and acquisitions (M&A) activity exceeding \$1 billion. Mr. Kummer has served as Chairman of the University of North Dakota Petroleum Engineering Advisory Committee, Vice Chairman of the North Dakota Oil and Gas Research Council and was honored in the inaugural Oil and Gas Investor's "20 under 40" class. Most recently, he helped launch a classical high school in Denver, where he served as the founding President. Mr. Kummer graduated cum laude from the Colorado School of Mines with a degree in Petroleum Engineering.

Ms. Beth Kurz, Director of Subsurface Characterization and Community Engagement at the EERC, leads programs, projects, and a multidisciplinary team of scientists and engineers in topics related to carbon capture, utilization, and storage; enhanced oil recovery; produced water and drilling waste management; critical minerals resource assessment; and community engagement and public outreach. During her more than 25 years at the EERC, she has overseen several multimillion-dollar research efforts that have been funded by commercial clients and/or state and federal entities. Ms. Kurz holds a Master of Science degree in Hydrogeology from the University of North Dakota and a Bachelor of Science degree in Geology from Bridgewater State University, Bridgewater, Massachusetts.



Mr. Jason Lanclos serves as the Energy Director at the Louisiana Department of Natural Resources (LDNR). In addition to his current role, he is the Louisiana coalition representative for the state and Midwest regions on CCUS technologies and serves on the executive board for the National Association of State Energy Officials. Prior to his role at LDNR, Mr. Lanclos was the Deputy Executive Director of the Coastal Protection and Restoration Authority (CPRA) for the Governor's Office and also in private industry for almost 18 years. While at CPRA, he managed one of the largest ecosystem restoration efforts for the state of Louisiana. Mr. Lanclos has also served as LDNR's designee on the Louisiana Climate Initiatives Task Force and chaired the Mining and Oil and Gas Committee and is leading Louisiana's effort on hydrogen development and the multistate effort to compete for a hydrogen hub (HALO). He holds a degree in Civil and Environmental Engineering from Louisiana State University and is a licensed Professional Engineer.

Mr. John Litynski currently serves as the Head of CCUS for EQT Corporation. He previously served as a Senior Advisor at University of Wyoming's School of Energy Resources and Director of the Wyoming Integrated Test Center. Prior to that, Mr. Litynski served as the Director for Carbon Transport and Storage in the DOE Office of Carbon Management and as the Deputy Director for R&D, Program Manager for Carbon Capture and Utilization, and Technology Manager for Carbon Sequestration at the National Energy Technology Laboratory. He has over 25 years of experience working on environmental compliance and technology development for the energy industry.



Dr. Fred McLaughlin, P.G. Ph.D., is the Director of the Center for Economic Geology Research (CEGR) at the University of Wyoming School of Energy Resources. He joined CEGR at its founding and has had the opportunity to work on many of Wyoming's carbon capture and utilization storage projects to date, including Wyoming CarbonSAFE (Carbon Storage Assurance Facility Enterprise) Phases I, II, and III; the Wyoming Carbon Underground Storage Project ("WY-CUSP"); and Brine Extraction and Storage Test ("BEST"). Dr. McLaughlin has 20 years of experience working on the geology of the Rocky Mountains, including geochemistry, petrology, and energy geology.

SPEAKERS



Ms. Haley Paine serves as the Deputy Director for the Alaska Division of Oil and Gas, where she leads its low-carbon initiatives on geothermal energy and CCUS. Most recently, this includes a legislative effort to establish a regulatory framework for CCUS in the state and stand-up of a CCUS statewide workgroup in partnership with the university and industry. Prior to joining the division in 2015, she held multiple research roles with the Alaska Center for Energy and Power and Idaho National Laboratory. She has a master's degree in Natural Resource Management and Geography from the University of Alaska Fairbanks and a Graduate Certificate in Environmental Regulations and Permitting from the University of Alaska Anchorage.

Mr. Frank Paskvan is an Affiliate Professor with the University of Alaska Fairbanks (UAF). Since joining UAF in 2021, he has worked with the PCOR Partnership to accelerate commercial carbon capture projects in Alaska. Mr. Paskvan leads a statewide workgroup that shares knowledge and supports commercial CCUS project development. He has 36 years in the oil and gas industry as reservoir engineer, mentor-coach, and manager for new developments and producing fields in Alaska, Indonesia, and Texas. Mr. Paskvan has led viscous and heavy oil reservoir research, specialized in waterflooding and EOR using miscible gas injection, and has led development planning for Prudhoe Bay for over a decade. He is a third-generation Alaskan who followed his father's footsteps to the University of Alaska Fairbanks, where he earned a degree in Petroleum Engineering.



Mr. Tim Prather is the Manager of Energy Origination & Development at TC Energy. As an energy sector professional with an emphasis on commercial and project development across the carbon capture, transport, and sequestration (CCTS) value chain, his experience includes advancing low-carbon energy initiatives and time spent in upstream oil and gas exploration in the East Texas Basin, Permian Basin, Williston Basin, Gulf of Mexico, and Offshore Colombia. At TC Energy, Mr. Prather manages the CCTS origination and development activities for the Power & Energy Solutions Business Unit. He has supported efforts including Project Tundra, Project Prairie Horizon, and two CarbonSAFE program projects supporting the decarbonization of Tennessee Valley Authority power plants. He holds B.S. and M.S. degrees in Geological Sciences from the University of Texas at Austin.

Mr. Scott Quillinan is the Senior Director of Research at the School of Energy Resources, University of Wyoming. With over 18 years of industry expertise, he has broad experience in subsurface R&D. Over his professional career, Mr. Quillinan has secured and managed over \$100 million of research contracts ranging from small seed funding to large-scale field demonstration projects. His research interests focus on thoughtful approaches to decarbonize our energy systems. Mr. Quillinan also oversees 10 research centers of excellence within the School of Energy Resources that focus on providing solutions to emerging energy challenges in Wyoming. He holds B.S. and M.S. degrees in Geology from the University of Wyoming and is a licensed professional geologist.



Mr. Trevor Richards is the Assistant Director for Geophysics at the EERC. In this role, he provides experienced management of geoscience activities and leads collaboration to solve challenges related to incremental oil recovery, unconventional oil recovery, and CCUS. His principal areas of expertise include reservoir characterization, active reservoir management, surveillance of EOR, and time-lapse geophysical monitoring associated with CCUS projects. Mr. Richards holds an M.S. degree in Geophysics and a B.S. degree in Geology from the University of Texas at Dallas. Prior to joining the EERC, he was a Geophysical Advisor at Chesapeake Energy's MidCon and Rockies Business Unit in Oklahoma City, Oklahoma.

Mr. Wayne Rowe is Director of Subsurface Development for Air Products, where he leads a multidisciplinary team developing megascale geologic sequestration in support of Air Products Blue Hydrogen initiatives. Prior to joining Air Products, Mr. Rowe had an expansive 39-year career at SLB, with the final 12 years serving as a Senior Project Manager, Operations Manager, and Business Unit Manager where he oversaw projects across the technical spectrum in over 35 CCUS projects, notably the Archer Daniels Midland Illinois Industrial CCS project, SaskPower Boundary Dam, and FutureGen. Mr. Rowe has held a wide variety of oilfield positions and was Editor of the National Petroleum Council 2019 DOE CCUS report Chapter 6, Section 3 "Enabling At-Scale Deployment" and a codeveloper of the award-winning "PowerSTIM" hydraulic fracturing technique that became the gold standard for tight gas sand completion technology. After retiring from SLB, he joined the EERC as CCUS Strategic Advisor before joining Air Products. Mr. Rowe holds a BSCE from the University of Colorado.



SPEAKERS



Mr. Van Spence is President of Denver-based Rampart Energy Company and its subsidiary, Carbon Vault Holdings LLC. Rampart Energy Company has acted as a contract oil and gas operator in the Williston Basin and elsewhere since 1990. Carbon Vault was created in 2020 as a means of identifying and developing potential CCUS projects. The first of these was the Dakota Gasification Company Great Plains Sequestration Project near Beulah, North Dakota, which received permit approval in January 2023 and began injecting in February 2024. He has 40 years of related industry experience. Prior to joining Rampart Energy Company in 1993, he began his career with Shell. Mr. Spence is a graduate of the University of Wyoming with a degree in Petroleum Engineering and was an Academic All-America baseball player.

Mr. Jim Sorensen is the Director of Subsurface R&D at the EERC, where he is responsible for leading a multidisciplinary team focused on a wide range of subsurface topics, including the geological storage of CO₂. As a Task Leader for the PCOR Partnership Program, he was a principal investigator for regional characterization and field demonstration activities focused on CO₂ storage, including field-based projects in North Dakota, Montana, Alberta, and British Columbia. Mr. Sorensen holds a bachelor of science degree in Geology and a Master of Engineering degree in Petroleum Engineering from the University of North Dakota.



Mr. Josh Stanislawski is the Director of Energy Systems Development at the EERC, where he leads a multidisciplinary team of scientists and engineers focused on research, development, and commercialization of innovative energy technologies as they relate to coal utilization and emissions, carbon management, and alternative fuels and renewable energy. His principal areas of interest and expertise include coal and biomass gasification systems with an emphasis on novel syngas cooling, cleanup, and separation technologies. Mr. Stanislawski has worked extensively with hydrogen separation membrane systems and liquid fuels catalysis. He is proficient in process modeling and systems engineering including techno-economic studies using Aspen Plus software and has significant experience with process engineering, process controls, and project management. He holds M.S. and B.S. degrees in Chemical Engineering from the University of North Dakota.

Mr. David Straley is North American Coal Corporation Manager of Government and Public Affairs and EERC Foundation Chair. He is responsible for a wide range of activities focused on legislative and regulatory affairs, media communications, government and public relations, and other business activities at North American Coal. Straley has a background in legislative and regulatory affairs, industrial engineering, and marketing and is a member of North Dakota's EmPower Commission.



Mr. Richard Suggs serves as the Geologic Manager and Underground Injection Control Class VI Program Manager for the Oil and Gas Division of the North Dakota Department of Mineral Resources. He has worked for the past 15 years in regulation and oversight of the oil and gas industry in North Dakota, and his work includes geologic investigations, wellbore construction evaluation, reservoir modeling, and review of CCS projects. Mr. Suggs holds B.S. and M.S. degrees in geology.

Mr. Stacy Tschider has strategically built and run a successful business empire across the United States, Canada, and Mexico. His portfolio in the North American markets has over a quarter century of prominent success in leading the wholesale electricity and natural gas, retail natural gas, propane, oil, and real estate industries. He is a founder of Rainbow Energy Center and Nexus Line. He was instrumental in leading the Rainbow Energy Center team in the purchase of Coal Creek Station, which is a 1151-MW power plant. He also played a huge role in the Nexus Line purchase of high-voltage direct current (HVDC) facilities, containing the 436-mile HVDC transmission line. These acquisitions will not only pave the way in CCS technology but, more importantly, save over 600 jobs, with an estimated impact of \$1.5 billion in local North Dakota communities. These foundational developments are near and dear to his heart, as unlocking the potential of his local community brings a great level of purpose in his entrepreneurial journey.



PARTICIPANTS

Air Products	Heather Binagia, Manager, Wells, binagihl@airproducts.com Wayne Rowe, Director, Sequestration Development, rowews@airproducts.com
Alaska Division of Oil and Gas	Haley Paine, Deputy Director, haley.paine@alaska.gov
Alaska Oil and Gas Conservation Commission	Kayla Junke, Carbon Engineer Assistant, 08aogcctravel@alaska.gov
Arkansas Oil and Gas Commission	Jay Hansen, Assistant Director, jay.hansen@aogc.state.ar.us
Bank of North Dakota	Kayla Ver Helst, Sustainability Officer, keverhelst@nd.gov
Barr Engineering Co.	Amanda Gravseth, Senior Chemical Engineer, agravseth@barr.com Nicole Nguyen, Senior Chemical Engineer, nnguyen@barr.com Ryan Rayda, Vice President, rrayda@barr.com
Basin Electric Power Cooperative	Nolan Bray, Maintenance Superintendent/Plant Engineer, nbray@bepc.com Daniel Gallagher, Director, Commodity Sales, and Trading, dgallagher@bepc.com Tyler Schilke, Reliability and Performance Engineering Supervisor, tschilke@bepc.com Jim Sheldon, Manager, Mechanical Engineering, james@bepc.com Kyle Weisbeck, Mechanical Engineering Supervisor, kweisbeck@bepc.com
Carbon Management Canada	Neil Wildgust, President and CEO, neil.wildgust@cmcgghg.com
Carbon Vault Holdings LLC	James Dodson, Vice President, jbd@carbon-vault.com Van Spence, President, vzs@rampartenergy.com
Chord Energy	Gilbert Delarosa, Managing Director of Marketing, gilbert.delarosa@chordenergy.com
CO₂SeQure	Stephen Chelette, VP of Carbon Strategies, schelette@microseismic.com
Colorado Energy & Carbon Management Commission	Diana Burn, Engineering Manager, diana.burn@state.co.us Mike Rigby, CCUS, Geothermal, and UGS Coordinator, michael.rigby@state.co.us Mark Seeley, Lead CCUS Specialist, mark.seeley@state.co.us
ConocoPhillips	Josh DeMorrett, State Government Affairs Director, joshua.demorrett@conocophillips.com
Dakota Gasification Company	Dale Johnson, Senior VP & Plant Manager, dalej@bepc.com
Delta Constructors	Josh Knoll, Construction Manager, jknoll@deltaconstructors.net Greg Stratton, Superintendent, gstratton@deltaconstructors.net
Denbury, Inc.	Scott Maxwell, Denbury Chief Geoscientist, scott.a.maxwell@exxonmobil.com Kate Ryan, Vice President, Gulf Coast Business, kate.ryan@exxonmobil.com
Eagle Operating	Bob Mau, President, b.mau@eagleopnd.com
EERC	Heather Altepeter, Senior Administrative Assistant, haltepeter@undeerc.org Katherine Anagnost, Senior Regulatory and Permitting Specialist, kanagnost@undeerc.org Scott Ayash, Director of Research Management, sayash@undeerc.org Kevin Connors, Assistant Director for Regulatory Compliance and Energy Policy, kconnors@undeerc.org Janelle Ensrud, Senior Project Management Specialist, jensrud@undeerc.org Kyle Glazewski, Assistant Director for Research, Community Benefits and Stakeholder Engagement, kglazewski@undeerc.org Charlie Gorecki, CEO, cgorecki@undeerc.org John Hamling, Assistant Vice President for Strategic Partnerships, jhamling@undeerc.org Tyler Hamman, Assistant Vice President for Strategic Partnerships, thamman@undeerc.org John Harju, Vice President for Strategic Partnerships, jharju@undeerc.org Michael Hillix, Principal Geoscientist & Energy Advisor, mhillix@undeerc.org Nick Kalenze, Principal Research Manager and Economics Specialist, nkalenze@undeerc.org Scott Klara, Assistant Vice President for Strategic Partnerships, sklara@undeerc.org Beth Kurz, Director of Subsurface Characterization and Community Engagement, bkurz@undeerc.org Jason Laumb, Director of Advanced Energy Initiatives, jlaumb@undeerc.org Amanda Livers-Douglas, Assistant Director for Integrated Subsurface Projects, alivers@undeerc.org

PARTICIPANTS

EERC cont.	Josh Mason, Assistant Director for Information Technology, jmason@undeerc.org Caitlin Olsen, Principal Policy and Regulatory Strategist, colsen@undeerc.org Wes Peck, Assistant Director for Subsurface Strategies, wpeck@undeerc.org Trevor Richards, Assistant Director for Geophysics, trichards@undeerc.org Steve Smith, Assistant Director for Integrated Analytical Solutions, ssmith@undeerc.org Jim Sorensen, Director of Subsurface Research and Development, jsorensen@undeerc.org Josh Stanislawski, Director of Energy Systems Development, jstanislawski@undeerc.org
Emerson	Corey Black, Director, corey.black@emerson.com Ross Ready, Sales Manager, ross.ready@emerson.com
Enbridge Inc.	Tair Ibatullin, Manager, Carbon Sequestration Engineering, tair.ibatullin@enbridge.com Jeff Kler, Manager, Low Carbon Development, jeff.kler@enbridge.com Kathy McConnell, Manager Underground Storage Engineering, kathy.mcconnell@enbridge.com
EQT Corporation	John Litynski, Head of CCUS, john.litynski@eqt.com
ExxonMobil Technology & Engineering Company	John Becker, Geoscientist, john.a.becker@exxonmobil.com
GLJ	Graham Dolce, Manager, Geosciences, gdolce@glijpc.com Devin Lacey, Director, Business Development, dlacey@glijpc.com
Goodnight Midstream	Fred Kershnik, Director, fkersh@ndsupernet.com Patrick Walker, Founder, patrick@mgate78.com
Government of Alberta	Bob Keeler, Policy Analyst, bob.keeler@gov.ab.ca
Harvestone Low Carbon Partners	Adam Dunlop, Chief Development Officer, adunlop@harvestonelcp.com Zach Liu, Director of Subsurface CCUS, zliu@harvestonelcp.com Cathy Stevens, CCS Regulatory Manager, cstevens@harvestonelcp.com
Hess Corporation	Brent Lohnes, General Manager, blohnes@hess.com
Ikon Science	Robert Dudley, Vice President, Energy Transition, rdudley@ikonscience.com
Kiewit	Bob Slettehaugh, Director, Carbon Capture & Carbon Removal, bob.slettehaugh@kiewit.com
Lignite Energy Council	Mike Holmes, Vice President, mikeholmes@lignite.com
Louisiana Department of Energy & Natural Resources	Jason Lanclos, Director, jason.lanclos@la.gov Corey Shircliff, Assistant Director, Injection & Mining Division, corey.shircliff@la.gov
Marathon Petroleum Corporation	Kate Klossner, Government Affairs Manager, ktblair@marathonpetroleum.com
Marubeni-Itochu Tubulars America Inc.	Hayato Kobayashi, Sales, koby-kobayashi@mitube.com Mark Sheppard, Sales Manager, mark-sheppard@mitube.com
Meriden Carbon	Jeff Kummer, CEO & Founder, jeff@meridencarbon.com
Minnkota Power Cooperative	Stacey Dahl, VP External Affairs, sdahl@minnkota.com Brita Endrud, Government Affairs Representative, bendrud@minnkota.com Carlee McLeod, External Affairs Representative, cmcleod@minnkota.com Shannon Mikula, Legal Counsel & Environmental Manager, smikula@minnkota.com
Missouri River Royalty Corporation	Ryan Kopseng, President, rkopseng@rainbowgas.com
Mitsui E&P USA	Christopher Faulkner, Manager, Low Carbon Solutions, c.faulkner@mitsui-ep.com Don Ringe, Low Carbon Solutions Technical Manager, d.ringe@mitsui-ep.com
Montana Board of Oil and Gas Conservation	John Gizicki, UIC Program Director, jgizicki@mt.gov

PARTICIPANTS

Montana–Dakota Utilities Co.	Andy McDonald, Environmental Compliance Manager, andy.mcdonald@mdu.com
NACCO Natural Resources/ NACCO Industries	Brad Erickson, Land Manager, bradley.erickson@nacco.com David Straley, Vice President External Affairs, david.straley@nacco.com Bryan Walther, President, bryan.walther@nacoal.com Chris Friez, Vice President – Land and Associate General Council, christopher.friez@nacco.com Rebecca McGrew, Director of Environmental and Regulatory Affairs, rebecca.mcgrew@nacco.com
North Dakota Department of Water Resources	Andrea Travnicek, Director, atravnicek@nd.gov
North Dakota Industrial Commission Department of Mineral Resources	Tamara Madche, Geologist, tjamadche@nd.gov Travis Stollendorf, Geologist, tdstollendorf@nd.gov Rich Suggs, Geology and Class VI Program Manager, rasuggs@nd.gov
Nebraska Public Power District	John Swanson, Director, Generation Strategies & Research, jhswans@nppd.com
Nebraska Oil and Gas Conservation Commission	Fahad Qassim, Geological Petroleum Engineer, fqassim@nogcc.ne.gov Cole Slupski, Geological Petroleum Engineer, cslupski@nogcc.ne.gov
North Dakota Petroleum Council	Brady Pelton, Vice President & General Counsel, bpelton@ndoil.org
North Dakota Public Service Commission	Sheri Haugen-Hoffart, Commissioner, shaugenhoffart@nd.gov
North Dakota's Building Trades Unions	Jason Ehlert, President, jason@ndbtu.org
OLI Systems, Inc.	Vineeth Ram, Chief Sustainability Officer, vineeth.ram@olisystems.com
ONEOK, Inc.	Chad Schneeberger, Director, Renewable Project Development, chad.schneeberger@oneok.com
Petroleum Technology Research Center	Erik Nickel, Chief Operating Officer, erik.nickel@ptrc.ca
Railroad Commission of Texas	Leo Castro, Engineering Specialist V, leo.castro@rrc.texas.gov Bryce McKee, Senior Geologist, bryce.mckee@rrc.texas.gov Phillip Warren, Manager, Special Injection Permits Unit, phillip.warren@rrc.texas.gov
Rainbow Energy Center	Jessica Bell, Vice President of External Affairs, jessica.bell@rainbowenergycenter.com Stacy Tschider, CEO, s.tschider@rainbowenergy.com
Rampart Energy Company	Rhonda Gathers, Vice President Engineering & Operations, rgg@rampartenergy.com
Red Trail Energy	Dave Burns, CCS Monitoring, Reporting, daveb@redtrailenergy.com Jodi Johnson, CEO, jodi@redtrailenergy.com
Repsol	Izaak Ruiz, CCS Project Coordinator, izaak.ruiz@repsol.com
Resolute Engineering	Taylor Lagorin, Vice President of Business Development, taylor.lagorin@resolute-engineering.com
RITE	Takayuki Miyoshi, Researcher, miyoshi@rite.or.jp
Rock Flow Dynamics	Bilu Cherian, Consultant, bilucherian@chenergy.llc Edward Evans, Senior Reservoir Engineer, edward.evans@rfdyn.com Tim Pawlik, Director of Sales USA, tim.pawlik@rfdyn.com
Sallie Greenberg Consulting LLC	Sallie Greenberg, Environmental Geosciences Expert, sallie@thesallie.com
SLB	Erik Borchardt, Engineer, eborchardt@slb.com Amir Hermes, New Energy Business Development Manager, ahermes@slb.com
Southern Company	Richard Esposito, R&D Program Manager, raesposi@southernco.com

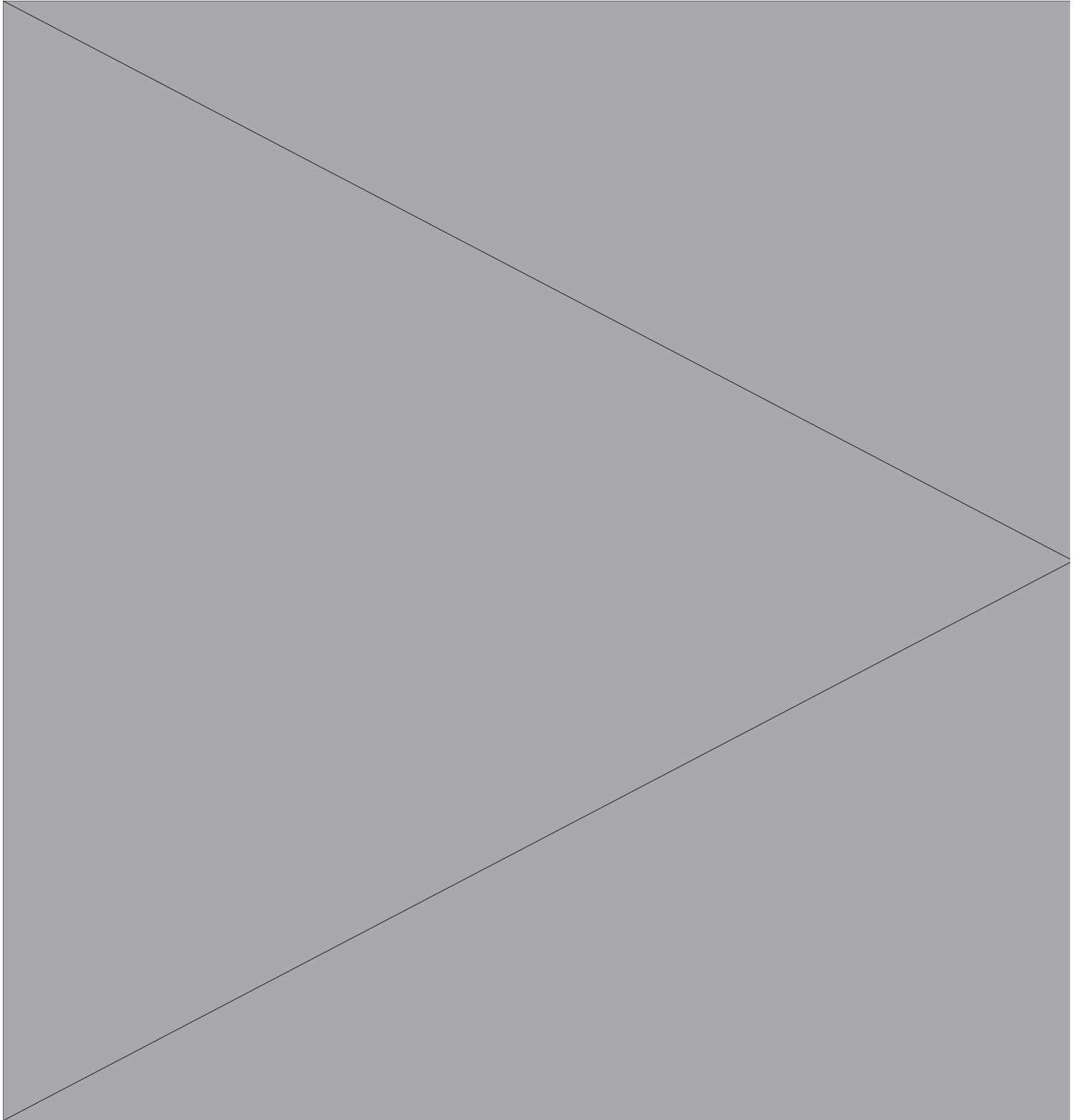
PARTICIPANTS

State of Alabama Oil and Gas Board	Marvin Rogers, General Counsel, mrogers@ogb.state.al.us
Stress Engineering Services, Inc.	Adam Rowe, Principal, adam.rowe@stress.com
SubsurfaceAI	David Gray, Senior Vice President – Integrated Solutions, david.gray@subsurfaceai.ca
Summit Carbon Solutions	Wade Boeshans, Executive Vice President, wboeshans@summitcarbon.com Amanda Hoffer, Environmental Specialist, ahoffer@summitcarbon.com Jean Oddy, Sequestration Project Engineer, joddy@summitcarbon.com Luis Piasco, Sr. Project Manager, Sequestration Drilling and Engineering, lpiasco@summitcarbon.com Jay Volk, Sequestration – Director of HSE, jvolk@summitcarbon.com
Tallgrass Energy	Robert Godinez, Project Manager, CCS, robert.godinez@tallgrass.com Ricardo Mendez, Well Delivery Manager, ricardo.mendez@tallgrass.com Ozgur Senel, Manager, Sequestration, ozgur.senel@tallgrass.com
TC Energy	Prashanth Mandalaparty, Principal Reservoir Engineer, p_mandalaparty@tcenergy.com Hazel Plana, Project Manager, hazel_plana@tcenergy.com Tim Prather, Manager, Energy Origination & Development, tim_prather@tcenergy.com Tayla Snapp, Government Relations, tayla_snapp@tcenergy.com
Tennessee Valley Authority	Maggie Gilliland, Senior Program Manager, Decarbonization, mggilliland@tva.gov
The Falkirk Mining Company	Gerard Goven, Geologist, gerard.goven@nacoal.com
TR Operating LLC	Bryan Hume, COO, bhume@troperating.com James Hume, CEO, jbhume@troperating.com
U.S. Department of Energy National Energy Technology Laboratory	William Aljoe, Technology Manager, Carbon Storage Infrastructure, william.aljoe@netl.doe.gov Johnathan Moore, Project Manager, johnathan.moore@netl.doe.gov
U.S. Senator Kevin Cramer	Micah Chambers, Legislative Director, micah_chambers@cramer.senate.gov Michael Helmer, Legislative Assistant, michael_helmer@cramer.senate.gov Chris Marohl, Senior Policy Advisor, chris_marohl@cramer.senate.gov
United Energy Corporation	Loren Kopseng, CEO, lkopseng@rainbowgas.com
University of Alaska Fairbanks	Abhijit Dandekar, Professor and Chair of Petroleum Engineering, adandekar@alaska.edu Frank Paskvan, Affiliate Professor, frank.paskvan@gmail.com Brent Sheets, Director, Petroleum Development Lab, bjsheets2@alaska.edu
University of Wyoming School of Energy Resources	Kara Fornstrom, Director, CERPA, kbrighto@uwyo.edu David Lucke, Project Specialist, dwlucke@uwyo.edu Fred McLaughlin, Director, Center for Economic Geology Research, derf1@uwyo.edu Scott Quillinan, Senior Director of Research, scotttyq@uwyo.edu
Utah Division of Oil, Gas and Mining	Peter Pahnke, Geologist, ppahnke@utah.gov Richard Powell, UIC Program Manager, richardpowell@utah.gov
WBI Energy, Inc.	Mark Anderson, Vice President, Business Development & Marketing, mark.anderson@wbienergy.com David Dahms, Business Development Analyst, david.dahms@wbienergy.com
Wyoming Oil and Gas Conservation Commission	Joe Scott, Natural Resources Program Manager, joe.scott@wyo.gov
Wyoming Department of Environmental Quality	Lily Barkau, Groundwater Section Manager, lily.barkau@wyo.gov Tyler Harris, Geology Supervisor – UIC Class VI Program, tyler.harris@wyo.gov
Wyoming Enhanced Oil Recovery Institute	Lon Whitman, Director, lon.whitman@uwyo.edu

PARTNERS



U.S. DEPARTMENT OF
ENERGY





North Dakota
Industrial Commission

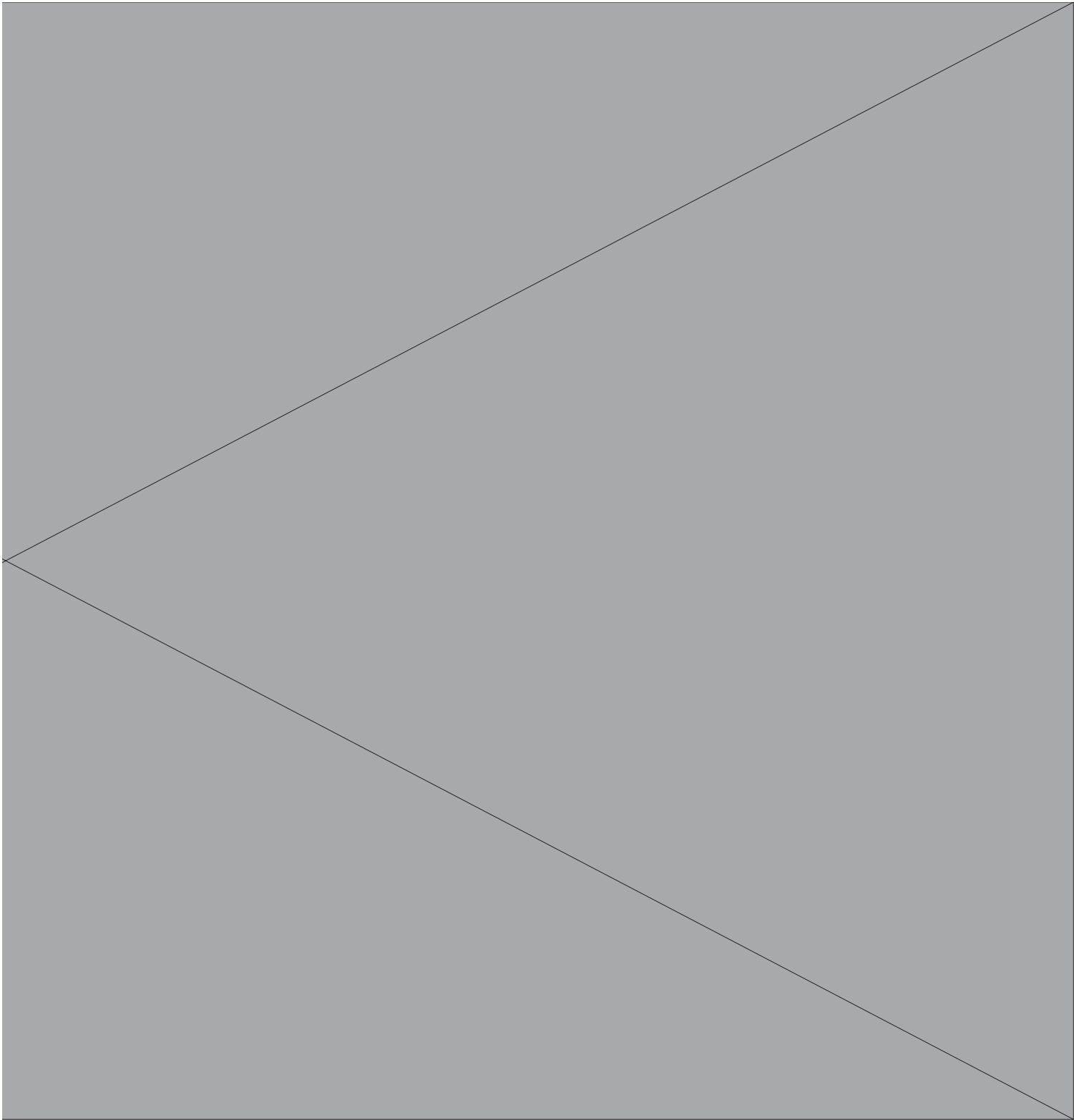


Institute of Northern Engineering
University of Alaska Fairbanks



UNIVERSITY
OF WYOMING

School of
Energy Resources



PRODUCTS

Site Characterization Products

Document	Title
Paper	Approaches to Geomechanical Evaluations
Report	Classification of TDS Based on Well Log Interpretation
Abstract	Regional Subsurface Stress Assessment for CO ₂ Storage in Candidate Basal Reservoirs in the PCOR Region (AAPG CCUS)
Report	Regional Subsurface Stress Assessment for CO ₂ Storage in Candidate Basal Reservoirs in the PCOR Region
Presentation	Stacked Storage (AIChE)
Report	Stacked Storage Opportunity Assessment

MVA Products

Document	Title
Paper	Carbon Capture and Storage Monitoring with Distributed Fiber Optic Sensing
Fact Sheet	Carbon Storage Monitoring, Verification, and Accounting (MVA)
Paper	Characterization and Monitoring Technologies for Geologic Carbon Storage
Report	Enabling Sustainable Monitoring for CCUS
Paper	Evaluation of Geophysical Technologies for Application to CCS (updated)
Poster	Low Environmental Impact Monitoring of CO ₂ Using Seismic Methods in North Dakota
Report	Monitoring, Verification, and Accounting (MVA) Strategies: A Plains CO ₂ Reduction (PCOR) Partnership Regional Perspective
Report	MVA Strategies Characterization and Monitoring Technologies for Geologic Carbon Storage
Paper	Techniques for Soil Gas Monitoring and Source Attribution in Carbon Capture, Utilization, and Storage Projects

CCS and CCUS Transport Products

Document	Title
Abstract	Balancing CO ₂ Pipeline Infrastructure Challenges (AAPG CCUS)
Paper	Matching Capture Technologies with Point Sources in the PCOR Partnership Region
Paper	Pipeline Cost and CO ₂ Transport Considerations Based on Three Hypothetical Pipelines in the PCOR Partnership Initiative Region.
Paper	Repurposing Carbon Steel Pipelines for CCS and CCUS Projects
Report	Simulation of CCUS Hub Build-Out Scenarios
Report	Socioeconomic Overview of the PCOR Partnership Region
Paper	Texas Response to Winter Storm Uri
Paper	The Need for Corrosion-Resistant Alloys in CCS and CCUS Projects
Paper	The Role of Hydrogen Sulfide (H ₂ S) in Repurposing Carbon Steel Pipelines for Carbon Dioxide (CO ₂) Transmission

PRODUCTS

Technology Transfer Products

Document	Title
Report	Carbon Dioxide Storage Optimization
Report	CCUS Business Models in the PCOR Partnership Region
Report	Pathways for the Growth of the Commercial CCUS Industry in the PCOR Partnership Region Through 2034
Report	Regional Business Case Assessment for CCUS on the North Slope
Report	Regional Business Model Assessment
Report	Updated Regional Business Case Assessment for CCUS on the North Slope
Paper	Wyoming EOR Lessons Learned

Pore Space and Risk-Based AOR Products

Document	Title
Paper	A Quantitative Approach for Demonstrating Plume Stabilization Under CCS Policy Frameworks
Paper	Fort Berthold Indian Reservation Screening Assessment for Geologic Storage of Carbon Dioxide
Report	National Risk Assessment Partnership (NRAP) Testing and Validation: Part 1 – NRAP Open-Source Integrated Assessment Model (Open-IAM)
Report	National Risk Assessment Partnership (NRAP) Testing and Validation: Part 2 – NRAP Open-Source Integrated Assessment Model (Open-IAM)
Poster	Plume Stabilization (AAPG-CCUS)
Paper	Pore Space: Technical and Legal Considerations for CO ₂ Storage in North Dakota
Paper	Pressure Interference Evaluation to Support Storage Resource Planning in the Plains CO ₂ Reduction (PCOR) Partnership Region
Paper	Risk-Based Area of Review (AOR) Estimation in Overpressured Reservoirs to Support Injection Well Storage Facility Permit Requirements for CO ₂ Storage Projects
Report	Risk-Based Area of Review (AOR) Estimation to Support Injection Well Storage Facility Permit Requirements for CO ₂ Storage Projects

Regulatory Incentive Products

Document	Title
Report	PCOR Partnership Storage Project Risk Management: Integrating Guidance Documents, Regulatory Requirements, Financial Incentives, and Best Practices
Manuscript	Permitting Commercial Geologic CO ₂ Storage Projects: Lessons Learned
Report	Project Development and Permitting Strategies from the First Wave of Geologic CO ₂ Storage Projects in North Dakota
Presentation	Regulatory and Policy Challenges
Report	Regulatory Frameworks and Permitting Considerations for Geologic Storage of Carbon Dioxide in the PCOR Partnership Region
Fact Sheet	Section 45Q

PRODUCTS

Public and Industry Outreach Products

Document	Title
Fact Sheet	Demonstrating CO ₂ Storage in the PCOR Partnership Region
Atlas	PCOR Partnership Atlas 6th Edition 2021
Atlas	PCOR Partnership Atlas 6th Edition Revised 2024
Fact Sheet	PCOR Partnership Making Safe, Practical CCUS Projects a Reality
Newsletter	PCOR Partnership Newsletters
Report	Social License for Wyoming's Energy Future

Well Testing Products

Document	Title
Paper	Applications and Value of Well Testing for Carbon Dioxide Storage Sites
Paper	Class VI Injection Well Step Rate Test Procedural Recommendations
Paper	Impacts of Local Grid Refinement, Capillary Pressure, and Relative Permeability on Early Injection Well Behavior During Simulation of Large-Domain Dedicated Carbon Dioxide Storage
Paper	Incorporating Capillary Entry Pressure Measurements into Evaluations of Storage Permanence for Permitting Class VI Injection Wells
Report	Operational Lessons Learned from Stratigraphic Test Wells

Risk Management Products

Document	Title
Report	PCOR Partnership Storage Project Risk Management: Integrating Guidance Documents, Regulatory Requirements, Financial Incentives, and Best Practices
Abstract	Risk Management (CCUS)

CO₂ Storage Performance Products

Document	Title
Report	Carbon Dioxide Storage Optimization
Technical Brief	Enhanced Oil Recovery for Long-Term CO ₂ Storage
Report	Formation Outlines for Minnelusa, Hulett, and Lakota Formations and Associated Seals
Report	Formation Outline for Storage Reservoirs and Seals in the Rock Springs Uplift
Report	Strategies for Storage Permanence: Well Integrity and Legacy Well Evaluations
Report	Stacked Storage Potential in the Powder River Basin and Rock Springs Uplift

PRODUCTS

PCOR Overview Products

Document	Title
Presentation	Achievements and Future of PCOR
Abstract	PCOR Partnership: A Catalyst for Commercial CCUS Deployment (GHGT-17)
Abstract	PCOR Partnership: Breaking Down the Barriers in CCUS (GHGT-16)
Paper	PCOR Partnership: Breaking Down the Barriers in CCUS (GHGT-16)
Presentation	Strategy on CCUS (Brussels)
Abstract	The PCOR Partnership Initiative: Building Momentum for Commercial CCUS Deployment (AAPG CCUS conference)
Paper	The PCOR Partnership Initiative: The State of the Region (GHGT-15)

Products Under Development

Document	Title
Paper	Carbon Capture Transportation and Use for CO ₂ Streams Containing Impurities
Report	Efficacy of Corrosion Inhibitors at Various CO ₂ Concentrations and Implications for CO ₂ EOR Development on the North Slope
Report	History Matched Reservoir Simulation Model for CO ₂ -Enriched Miscible Injectant Flood of a Heavy Oil Reservoir, Optimized Injection Strategy, and Data Files
Paper	Hydrogen Production with CCS Opportunities
Paper	Monitoring, Verifying, and Accounting for CCUS Using Blockchain
Fact Sheet	Pore Space
Paper	Regulation and Permitting of Interstate CO ₂ Plumes
Paper	The Role of CCUS in Growing a Hydrogen Economy
Paper	Updated Wyoming Pipeline Initiative Summary
Fact Sheet	Why States Should Regulate CO ₂ Storage



Huckleberry HOUSE

Evening Networking Event
Tuesday, August 27, 6:00 p.m.



SPECIAL EVENT SPONSORS





THE PCOR PARTNERSHIP PROGRAM was formed in 2003 as part of DOE's Regional Carbon Sequestration Partnership Program, comprising distinct program phases intended to build regional expertise to advance CCUS:

- Phase I (2003–2005): **Characterization** of regional CCUS potential to establish a technical foundation
- Phase II (2005–2009): **Validation** of storage potential through small-scale field validation projects
- Phase III (2007–2019): **Demonstration** of large-scale field projects storing at least 1 million metric tons

In 2019, the PCOR Partnership launched the Initiative to Accelerate Commercial Deployment of CCUS, with support from the University of Alaska Fairbanks and the University of Wyoming. The PCOR Partnership is funded by DOE, the North Dakota Industrial Commission, and over 250 participating member organizations and is addressing regional capture, transport, use, and storage challenges facing commercial CCUS deployment.



What does it mean to be a PCOR Partnership partner? It means:

- Your priorities are our priorities!
- You play a key role in identifying and addressing challenges facing commercial CCUS deployment.
- Your expertise is invaluable to our future success.
- You inform the direction of our work!

Want to become a partner or be more involved as an existing partner? Please contact:

Kevin Connors
 PCOR Partnership Program Manager
kconnors@undeerc.org
 701.777.5236



Energy & Environmental Research Center
 University of North Dakota
 15 North 23rd Street, Stop 9018
 Grand Forks, ND 58202-9018
www.undeerc.org/pcor