

THE Core SAMPLE

Internal Newsletter of the School of Energy Resources

February | 2024

GIFT OF \$250,000 TO UW SUPPORTS CARBON CAPTURE, UTILIZATION AND STORAGE

A \$250,000 gift to the University of Wyoming School of Energy Resources (SER) from energy infrastructure leader Williams will advance carbon capture, utilization and storage (CCUS) within the state and beyond.



This gift supports the newly created Carbon Dioxide (CO₂) Storage Excellence Fund, which will provide increased flexibility in addressing key challenges for the near, medium and long term. Most immediately, the excellence fund will provide support needed for current projects to transition from research and demonstration to commercialization.

The charitable contribution will be matched dollar-for-dollar by the state of Wyoming and will jump-start the program with immediately expendable funds.

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WYOMING INTEGRATED TEST CENTER TO HOST NEW LARGE-SCALE CARBON CAPTURE PILOT PROJECT

The U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations has announced the selection of TDA Research Inc. (TDA) to negotiate an award of up to \$49 million to test a carbon capture system at the Wyoming Integrated Test Center (ITC), located adjacent to Basin Electric Power Cooperative's Dry Fork Power Station near Gillette.




Managed by the University of Wyoming's School of Energy Resources (SER), the ITC hosts developers to test carbon capture, utilization and storage technologies using flue gas directly from the power plant.


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HIGHLIGHTS

Research Centers of Excellence

- *The Center for Economic Geology Research's (CEGR) Tyler Brown* was appointed as an adjunct professor in the Department of Geology and Geophysics. 
- Researchers in **CEGR** attended Mine Safety and Health Administration (MSHA) training at Dry Fork Mine near Gillette.
- *The Hydrogen Energy Research Center (H₂ERC)* will be working on a University of Texas at Austin - led project to explore geologic hydrogen. The proposed \$1.7 Million project was selected for funding from the Department of Energy Advanced Research Projects Agency-Energy (ARPA-E) and will aim to stimulate hydrogen production from iron-rich rocks using natural catalysts. In collaboration with H₂ERC, the team will explore the feasibility of this process on different rock types across the United States.

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- SER's Senior Director of Research **Scott Quillinan** discussed the benefits of the Mowry Shale Project and the potential of unlocking and producing the hydrocarbons locked within it in an article from the *Wyoming Tribune Eagle*. [READ MORE >](#) 

To submit news and updates email: Christine.reed@uwyo.edu



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SER ACADEMIC PROGRAM SENDS STUDENT COHORT TO 2024 NAPE SUMMIT

Seven students in the School of Energy Resources' (SER) academic program attended the 2024 North American Petroleum Expo (NAPE) Annual Summit event on February 7-9 in Houston, Tex.

Rachel Reese, of Johnstown, Colo.; **Kendall Klos**, of Johnsbury, Ill.; **Jacob Burns** of Wheatland, Wyo., **Connor Fleming** of Huntersville, N.C., **Micah Brant** of Denver, Colo., **Madalynn Gower** of Parker, Colo., and recent graduate **Jacob Schneider** of Cincinnati, Ohio (B.S. '23) attended the annual event

that boasts unmatched networking, career prospects, and informative panels and prominent speakers in the energy industry.

All seven of the students are pursuing the Professional Land Management (PLM) concentration in SER's Energy Resource Management and Development (ERMD) bachelor of science program.

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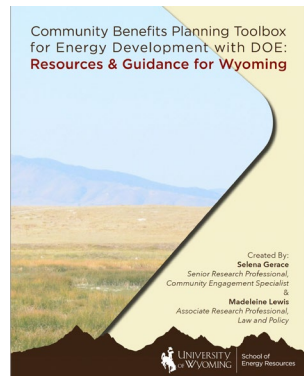
UW SCHOOL OF ENERGY RESOURCES RELEASES TOOLBOX FOR COMMUNITY BENEFITS PLANNING

The University of Wyoming School of Energy Resources (SER) released a resource guide and webpage to help Wyoming stakeholders craft community benefit plans (CBPs) in Wyoming.

Led by SER research professionals **Selena Gerace** in the Center for Economic Geology Research and **Madeleine Lewis** in the Center for Energy Regulation and Policy Analysis, the toolbox provides a summary of key resources and strategies to use as guidance for developing CBPs in relation to applications for federal funding from the U.S. Department of Energy (DOE).

In addition to incorporating CBPs into the internal projects at SER-led projects, many SER researchers have been approached by statewide organizations and private companies operating in Wyoming for their expertise and assistance.

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HIGHLIGHTS

Academics

- The University of Wyoming lists the following students from the School of Energy Resources on the 2023 academic Dean's and Dean's Freshman Honor Rolls.

Gwen Andela - Deans Roll	Madalynn Gower - President's List
Tally Carter - Deans Roll	Nathan Kessler - President's List
Ryan Fogg - Deans Roll	Cassidy Lolley - President's List
Kendall Klos - Deans Roll	Rachel Reese - President's List
David Meraz Ordenez - Deans Roll	Drake Richards - President's List
Lars Quinlivan - Deans Roll	Tyler Schlagel - President's List
Jacob Schneider - Deans Roll	McKinzie Barnes - Provost List
Brogan Byram - Freshman List	Micah Brandt - Provost List
Kolten Harmsen - Freshman List	
Harper Pollock - Freshman List	

Outreach

- SER Executive Director **Holly Krutka** was a featured guest on two podcasts. On the podcast, '**Wyoming My 307,**' she discusses coal in Wyoming and the



incredible research efforts led by SER, and on the podcast, '**EcoRight Speaks,**' she discusses Carbon Capture and Storage technology in Wyoming.

- Gillette College and SER hosted a community educational lecture on Carbon Capture & Storage in Gillette. SER Senior Director of Research **Scott Quillinan** and **CEGR** Director **Fred McLaughlin** presented at the event.
- Members of the **Center for Energy Regulation and Policy Analysis (CERPA)** were heavily involved in the legislative budget session. **Holly Krutka**, **CERPA** Director **Kara Fornstrom**, and Research Professional **Esther Wagner** attended the WEA luncheon and the Wyoming Taxpayers Association legislative reception.



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CERPA RELEASES PAPER EXAMINING NATURAL GAS MARKETS FOR WYOMING

PRODUCERS

The Center for Energy Regulation and Policy Analysis (CERPA) in the School of Energy Resources (SER) released a white paper examining the challenges and opportunities facing exports of Wyoming natural gas to decarbonizing western markets in California, Washington, Oregon, and Nevada.

Authored by Senior Research Professional for Energy Policy **Esther**

Wagner, and in collaboration with **Melissa Firestone**, an energy economist working under contract with CERPA, the paper provides an overview of natural gas production in Wyoming, explains the challenges facing exports of the State's natural gas posed by other states' energy policies, and describes how Wyoming is uniquely positioned to prosper in this new energy landscape given the low-carbon attributes of its natural gas resource.

The analysis concludes that even though the State exports most of its natural gas to California, Washington, Oregon, and Nevada that have adopted environmental policies that disfavor natural gas, Wyoming holds significant advantages to defend the State's existing market share and create new markets through its low-methane intensity natural gas.

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CERPA RELEASES WHITE PAPER ON CLASS VI REGULATIONS FOR CARBON STORAGE IN WYOMING

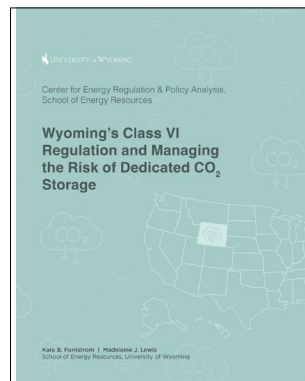
The Center for Energy Regulation and Policy Analysis (CERPA) in the School of Energy Resources (SER) has released a white paper providing an overview of Wyoming's robust statutory and regulatory framework supporting the carbon capture and storage (CCS) industry.

Co-authored by CERPA

Director **Kara Fornstrom** and Associate Research Professional of Law and Policy **Madeleine Lewis**, the white paper summarizes how the Wyoming Department of Environmental Quality (WDEQ) regulates Class VI of the Safe Drinking Water Act's Underground Injection Control Program, including analysis of recent legislation addressing long-term stewardship of injected carbon dioxide (CO₂).

Through an analysis of the resources and processes in place for CCS in Wyoming, the paper affirms that addressing risk management of dedicated CO₂ storage through Class VI wells is an important component of Wyoming's comprehensive statutory and regulatory framework.

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TANNER MCCLURE ASSUMES NEW ROLE AS ACADEMIC COORDINATOR

The School of Energy Resources (SER) is pleased to welcome **Tanner McClure** as the Academic Coordinator. In his new role, McClure will focus on recruitment efforts for the academic programs at SER, conduct outreach with alumni and employment partners, and work to connect students with jobs and internships.

Additionally, he will serve as the faculty advisor for the student club — the Student Chapter for Energy Resources — and help with advising for students in the minor and certificate programs.

A California native, McClure migrated to the front range to attend a community college in Colorado while working as a summer camp director near Granby. Impressed by the affordable tuition, he transferred to the University of Wyoming to complete a bachelor's degree in the Animal Sciences.

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UW SCHOOL OF ENERGY RESOURCES APPOINTS ASHLI TOMISICH AS DIRECTOR FOR STUDENT SUCCESS AND EXPERIENTIAL LEARNING

The University of Wyoming School of Energy Resources (SER) is pleased to welcome **Ashli Tomisich** as the Director for Student Success and Experiential Learning.

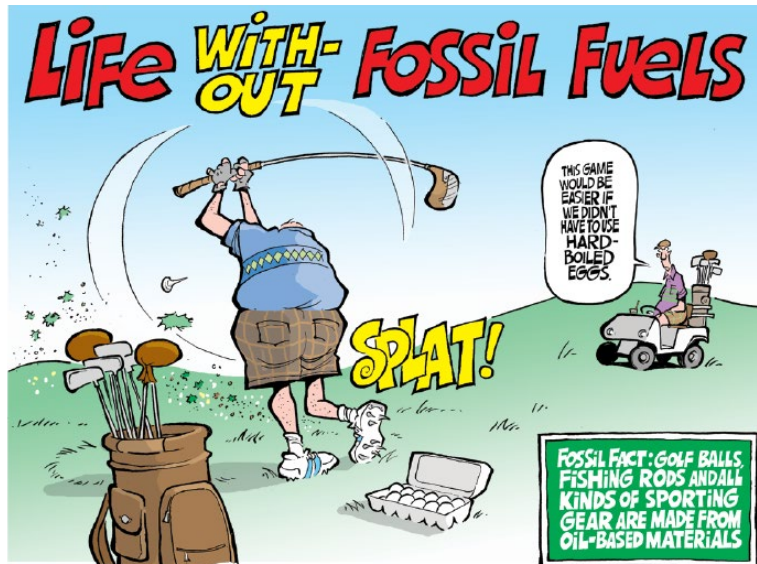


In her role with SER– which is an additional, part-time administrative position – Tomisich will serve students in the Energy Resource Management and Development (ERMD) Bachelor of Science degree program, Energy Resource Management minor, and Carbon Capture Utilization and Storage and Land Administration certificate programs. She will be tasked with connecting students with potential employers, facilitating opportunities for professional development, assisting with placement in internships and other engagement prospects, providing career guidance, and administering the SER mentorship program.

Tomisich is the Assistant Director of the Ellbogen Center for Teaching and Learning (ECTL) where she works with each member of the ECTL team to facilitate faculty support and effective student learning.

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ENERGY JOKE



IMPORTANT DATES

- Hydrogen Energy Seminar Series
March 6, 2024
- Spring Break (Office Open)
March 11-15, 2024
- AAPG CCUS Conference - Houston
March 11-13, 2024
- ERC Director's Reports Due
March 22, 2024
- ERC Reporting Director's Slides Due
March 29, 2024
- Distinguished Speaker Series - Ashley Harpstreith (*tentative date*)
April 3, 2024
- Energy Resources Council Meeting
April 4-5, 2024

SER BIRTHDAYS!

FEBRUARY

Bob Gregory, Feb. 11

Frankie Vogt, Feb. 19

Esther Wagner, Feb. 25

Reminder: If you want your birthday recognized, please update your information with Kristi Russow at krussow@uwyo.edu.

