

June | 2023

UW SCHOOL OF ENERGY RESOURCES ADDS INTEGRATED TEST CENTER TO PORTFOLIO

As Wyoming continues to support and advance carbon capture technologies, management of the Integrated Test Center (ITC) has been added to the University of Wyoming School of Energy Resources' (SER) portfolio of activities.



Formerly under the purview of the Wyoming Energy Authority, the ITC is a carbon capture and utilization test center located at Basin Electric Power Cooperative's Dry Fork Station near Gillette. Opening its doors in 2018, the center provides space for researchers to test carbon capture, utilization and storage technologies using actual coal-based flue gas.

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UW TO RECEIVE \$300,000 TO ESTABLISH NUCLEAR CHEMISTRY CORE FACILITY

The University of Wyoming will receive a \$300,000 award from the U.S. Department of Energy (DOE) to support the establishment of a nuclear chemistry core facility on campus.

The award is part of \$6.3 million in funding from DOE to bolster infrastructure and upgrade research reactors at universities as part of its Nuclear Energy University Program.

Led by **Caleb Hill**, the UW project will launch a nuclear chemistry core facility that will enable the first practical nuclear chemistry research and educational programs in Wyoming. Hill is UW's J.E. Warren Chair, Nielson Faculty Fellow, an associate professor of chemistry and co-director of the Nuclear Energy Research Center (NERC) in the School of Energy Resources (SER).



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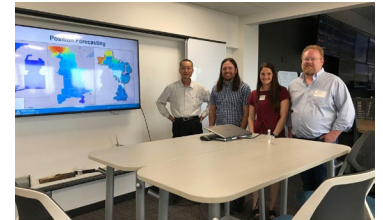
HIGHLIGHTS

Research Centers of Excellence

- Research Scientist Matt Johnson in the *Center for Economic Geology Research (CEGR)* presented at the AAPG-RMS Conference in Bismarck, ND. He attended the meeting along with CEGR Project Manager **John Jiao**, and SER Director of Outreach **Christine Reed**.



The trio then toured Basin Electric Power Cooperative's headquarters.



- Research Scientist **Davin Bagdonas** in *CEGR* and Project Specialist **Tiffany Bishop** attended the JOLT Energy Summit in Craig, Colo. Bagdonas presented on the CORE-CM project in the GGRB-WRB.



- *CEGR* Director **Fred McLaughlin** and **John Jiao** traveled to Hermiston, OR to kick off the HERO Basalt CarbonSAFE project with the project team.



- **Fred McLaughlin**, SER Senior Director of Research **Scott Quillinan**, and SER Senior Advisor **John Litynski** attended the Great Plains Institute's "Communicating Carbon Management Safety" meeting in Denver.

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



UNIVERSITY OF WYOMING

School of Energy Resources

UW CENTER FOR AIR QUALITY COLLABORATES WITH CSU ON METHANE PROJECT

The Center for Air Quality (CAQ) at the University of Wyoming will help conduct research to accurately depict methane emissions from oil and gas supply chains in Wyoming and Colorado basins.



The U.S. Department of Energy's Office of Fossil Energy and Carbon Management recently selected the Colorado State University (CSU) Energy Institute's Methane Emissions Program to lead the project.

While the project will focus on the Denver-Julesburg Basin in Colorado, an important component will be to demonstrate that the methods developed in one basin can be replicated in other basins with equal success. UW's CAQ project team plans to lead a secondary study under the scope of the project in Wyoming's Upper Green River Basin to demonstrate the relevance and applicability of the approach. The CAQ has long-standing relationships with Wyoming natural gas producers in the Upper Green.

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SCHOOL OF ENERGY RESOURCES SEEKS PROPOSALS FOR PHASE II OF HYDROGEN PRODUCTION AND TRANSPORTATION RESEARCH FOR WYOMING

The Hydrogen Energy Research Center (H₂ERC) in the University of Wyoming School of Energy Resources (SER) is seeking proposals from current UW faculty members or researchers examining hydrogen production and transportation for Wyoming.



This request for proposals is a follow-up from the initial RFP with the aim of homing in research areas not covered in the initial request.

Phase II proposals should cover one of three areas of interest: hydrogen transportation, electrolysis hydrogen production systems, or hydrogen production from Wyoming's coal resources.

For more details on the request, as well as directions for submission, download the [full RFP here](#). The deadline for proposal submissions is July 17. The selected projects will be notified by Aug. 4.

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HIGHLIGHTS

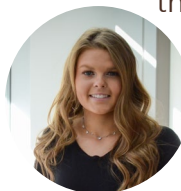
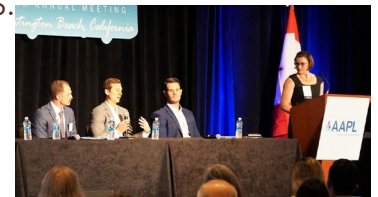
Research Cont.

- Director Eugene Holubnyak in the *Hydrogen Energy Research Center (H₂ERC)* attended the European Association of Geoscientists & Engineers (EAGE) annual meeting in Vienna, Austria.
- *CEGR* Research Scientist **Lu Lee** accepted a new position in Reno, Nev. and his last day was June 30.



Academics

- SER Professor of Law **Tara Righetti** presented at the 2023 World Energy Justice Congress in France on "Procedural and Distributional Justice Policies Applicable to U.S. Decarbonization Projects." She was also the panel moderator for the CCUS panel at the 2023 American Association of Professional Landmen (AAPL) Annual Meeting.
- ERMD students **Rachel Reese** attended the Young Professional and Intern Field Trip hosted by the Permian Basin Section of the Society of Economic Paleontologists and Mineralogists (PBS-SEPM) near Carlsbad, New Mexico.



Outreach

- **Fred McLaughlin** and **John Litynski** attended the christening of the newest rig (Rig 41) for True Drilling, LLC in Thornton, Colo.



UW SCHOOL OF ENERGY RESOURCES EXECUTES LEASE AT WYOMING INNOVATION CENTER

The University of Wyoming School of Energy Resources (SER) recently executed a lease at the Wyoming Innovation Center (WyIC) to advance technologies that consume Wyoming natural resources, including coal processing technology, in the large research complex.



Conceived in 2015 by Energy Capital Economic Development (ECED) in partnership with SER, WyIC is a 5,500 square foot facility situated on reclaimed mine land that opened its doors on June of 2022 as a location to conduct research on carbon capture, rare earth element extraction from fly ash, and other coal-to-products research.

The new lease will allow SER to further expand its research and demonstration of a coal processing technology developed in SER's Center for Carbon Capture and Conversion (CCCC), which is focused on developing non-thermal products from coal.

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ENERGY RESOURCE MANAGEMENT AND DEVELOPMENT STUDENTS ATTEND 2023 AAPL ANNUAL MEETING

Students in the School of Energy Resources (SER) Energy Resource Management and Development (ERMD) degree program attended the 69th Annual meeting of the American Association of Professional Landmen (AAPL) in Huntington Beach, Cali.



Senior **Jacob Schneider** of Cincinnati, Ohio attended the meeting alongside rising junior **Kendall Klos** of Johnsbury, Ill. Both students are pursuing their degree in the Professional Land Management (PLM) concentration of the ERMD program.

Klos and Schneider were accompanied by SER faculty member and Director of the PLM program **Kris Koski**, and SER Professor of Law **Tara Righetti**. Righetti is UW's Occidental Chair in Energy and Environmental Policies and an expert on the law and policy related to carbon capture, storage and pore space. While at AAPL, Righetti moderated a panel on carbon capture and sequestration at the conference, showcasing her expertise on the subject.

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HIGHLIGHTS

Outreach Cont.

- SER Executive Director **Holly Krutka** and **CEGR** Research Scientist **Lily Jackson** presented to members of the public on SER's activities in Lincoln County, including current projects in SER's **Nuclear Energy Research Center (NERC)**. The presentation was part of the "UW in Your Community" event in Kemmerer.



- Christine Reed** presented to students participating in the Native American Summer Institute (NASI) about SER and different energy resources. Students then built wind turbines or mini solar houses.



General Announcements

- Energy Resources Council board member **Rep. Don Burkhart, Jr.**, was recognized by the American Nuclear Society (ANS) as a Special Award recipient for 2023. *Full profile coming soon!*
- Kimmie Takaki** has joined the financial team in a part-time capacity to help manage grant funding.
- There have been, and will continue to be office moves at SER as our team continues to grow! The H₂ERC crew is now located on the first floor. Stop in and say hello!



SER'S SENIOR DIRECTOR OF RESEARCH SCOTT QUILLINAN SELECTED FOR LEADERSHIP WYOMING CLASS OF 2024

SER Senior Director of Research **Scott Quillinan** will be one of 42 individuals selected from among Wyoming communities to represent the Class of 2024 for Leadership Wyoming.

Leadership Wyoming is the premier organization in the state for bringing together Wyoming leaders and highlighting the issues facing the state.

A Wyoming native hailing from Evanston, Quillinan has dedicated his entire career to advancing research and technology in the energy sector for the betterment of the state. In his current position, he oversees all of the research efforts led by SER covering areas such as commercial-scale carbon management, hydrogen, carbon engineering, rare earth element and critical mineral extraction, among others. In his capacity, he also works to improve and streamline external funding opportunities, regularly interfacing with entities such as the U.S. Department of Energy and National Science Foundation.

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SCHOOL OF ENERGY RESOURCES HOSTS WEBINAR ON UNDERSTANDING UKRAINE'S ENERGY CRISIS

The University of Wyoming's School of Energy Resources (SER) hosted a webinar exploring the current role of energy in Ukraine.

The webinar featured **Serhii Averchenko**, a former member of parliament and legislator of Ukraine, and **Amiran Purtseladze** and **Anna Dubina** of SYNERGY, along with **Eric Williams**, the senior vice president and design authority at TerraPower.



The panelists discussed energy challenges in times of crisis; the difference between a traditional light water nuclear reactor and the Sodium nuclear reactors being developed by TerraPower; and approaches to building resilient energy infrastructure. The presentations was moderated by **Eugene Holubnyak**, director of SER's Hydrogen Energy Research Center, an energy expert and native of Ukraine.

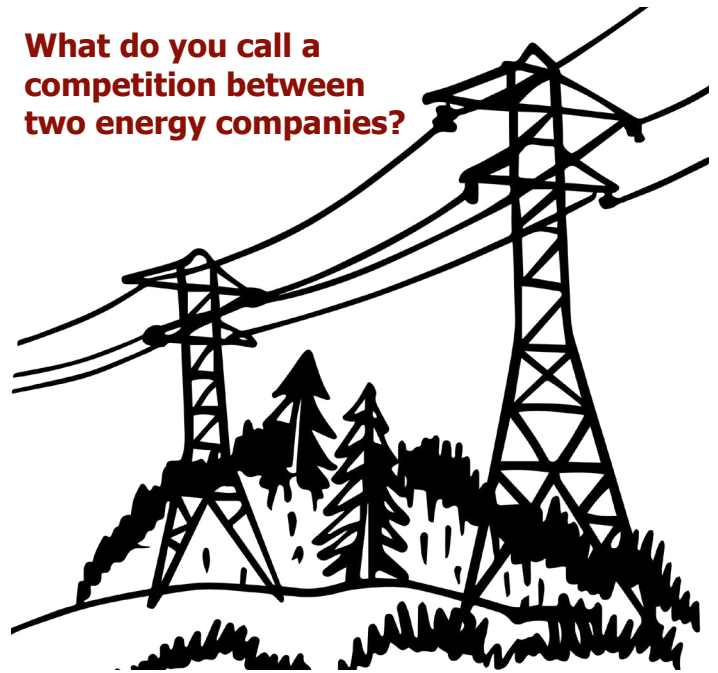
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IMPORTANT DATES

- Directors Reports Due for ERC
August 4, 2023
- Presenting Directors Presentations Due for ERC
August 11, 2023
- August ERC Meeting
August 17-18, 2023
- Rockies Petroleum Conference at UW (f.k.a. PAW Annual Conference)
August 23-25, 2023

ENERGY JOKE

What do you call a competition between two energy companies?



A POWER STRUGGLE!!!

**SER
BIRTHDAYS!**

JUNE

Eugene Holubnyak, June 8

Tiffany Bishop, June 20

