

# THE *Core* SAMPLE

Internal Newsletter of the School of Energy Resources

December | 2021

## WYOMING CARBONSAFE PROJECT TEAM DRILLS SECOND EXPLORATORY WELL AT DRY FORK STATION

Led by the University of Wyoming School of Energy Resources (SER) and in collaboration with Basin Electric Power Cooperative, a team of researchers and partners on the Wyoming CarbonSAFE Project recently began drilling a second deep test well for site characterization.

Spudding of the test well near Basin Electric's Dry Fork Station near Gillette began Dec. 23 and, despite the frigid temperatures and blustery wind, the well is nearing completion.

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## UW'S SER RECEIVES FUNDING FROM DOE FOR CLEAN HYDROGEN RESEARCH

The U.S. Department of Energy's (DOE) Office of Fossil Energy and Carbon Management recently announced up to \$644,000 for the University of Wyoming School of Energy Resources (SER) to assess the economic impacts of fossil energy production in Wyoming and evaluate opportunities and research needs to deploy clean hydrogen technologies.

The Hydrogen Energy Research Center (H<sub>2</sub>ERC) will focus on all forms of clean hydrogen, including low-cost coal via gasification, massive natural gas resources via methane reforming, and relatively high-capacity wind energy via electrolysis, as well as potential for solar, nuclear and more.

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## CEGR PRESENTS RESEARCH AT MAJOR INTERNATIONAL TECHNICAL CONFERENCE

A recent article on carbon storage written by researchers in the School of Energy Resources (SER) was presented at the Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC). Research scientist Ying Yu is the lead author on the paper.



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## HIGHLIGHTS

### Research Centers of Excellence

- The **Center for Economic Geology Research (CEGR)** is drilling a second exploratory well as part of the CarbonSAFE project.\*\*\*
- **CEGR** hosted a media day on January 5 at the site location for PRB#2. The event was attended by members of the media, Wyoming stakeholders and members of Basin Electric Power Cooperative.
- **CEGR** research scientist **Yuri Ganshin** has developed new freeware for his Geophys Library. The petrology freeware is designed to estimate the grain-size distribution (GSD) from a digital image of sediment. The sourcecode and user manual are available on the CEGR website.
- **CEGR** research scientist **Garrett Gay** contributed to a report released by the Wyoming State Geological Survey about the geochemistry of samples from the Kemmerer coal field. The study is part of a statewide effort by the WSGS to study potential occurrences of critical and economic minerals in Wyoming. [Read More >>>](#)
- **CEGR** hired new research scientist **Bob Gregory** to work on the CORE-CM projects. Full profile coming soon!



\*\*\* more details in features

To submit news and updates  
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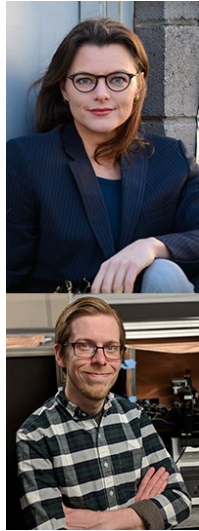
School of  
Energy Resources

## RIGHETTI, HILL NAMED CO-DIRECTORS OF NUCLEAR ENERGY RESEARCH CENTER AT UW SCHOOL OF ENERGY RESOURCES

The UW School of Energy Resources has selected Tara Righetti and Caleb Hill as co-directors for the new Nuclear Energy Research Center (NERC) of Excellence.

Tasked with driving organization efforts at UW on nuclear, Righetti and Hill will build on upon their existing areas of expertise, interpersonal networks, and nuclear research projects to stand up the research center.

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## UW SER, 9H RESEARCH FOUNDATION LAUNCH \$4,000 STUDENT ENERGY RESEARCH COMPETITION

The University of Wyoming's School of Energy Resources (SER) and the 9H Research Foundation are collaborating on a \$4,000 student research energy competition.

Students entered in the competition will spend the spring semester developing an energy project on a designated topic addressing a critical energy need. The competition will be judged by energy experts at the end of the semester for cash prizes.

The competition is open to all majors, both undergraduate and graduate students, and teams must be composed of two members. Students declaring intentions to compete are instructed to email [psteger@uwyo.edu](mailto:psteger@uwyo.edu) by Jan. 21, 2022.

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## CENTER FOR ECONOMIC GEOLOGY RESEARCH SCIENTISTS SELECTED TO PARTICIPATE IN THE 2021 RESEARCH EXPERIENCE IN CARBON SEQUESTRATION (RECS) PROGRAM

Research scientists Ying Yu and Garrett Gay from the UW School of Energy Resources (SER) Center for Economic Geology Research (CEGR) were selected to attend the 2021 Research Experience in Carbon Sequestration (RECS) program.

Founded in 2004 by Pamela Tomski, the RECS educational platform is a Department of Energy (DOE) sponsored event supported by the office of Fossil Energy and Carbon Management (FECM) and DOE's National Energy Technology Laboratory (NETL). RECS is focused on carbon capture, utilization, and storage (CCUS) and serves as the premier CCUS education and training experience in the United States. [Continue Reading >>>](#)

## HIGHLIGHTS CONT.

### Research Centers of Excellence Cont.

- **Jada Garofalo** is transitioning to a new position as an adjunct professor for the academic program. Her last day in the **Center for Energy Regulation & Policy Analysis (CERPA)** was January 4. She will be teaching Contract Law in the spring 2022.
- The **Enhanced Oil Recovery Institute (EORI)** is hosting the next presentation for the Wyoming Oil and Gas Fair Virtual Series on Wednesday, Jan. 19, at 1:30 p.m. The Great Plains Institute's **Matt Fry** will speak about the Wyoming Pipeline Corridor Initiative (WPCI).



[Register Here >>>](#)



- The **Shell 3D Visualization Center** led by **Phil Black** produced a video on SER's new Hydrogen Energy Research Center (H<sub>2</sub>ERC) to help support fundraising efforts to stand up the new center.

[View Video Here >>>](#)

### Academics

- Academic Director **Kami Danaei** was quoted in an article by the Branding Iron about the new Student Ombudsman for UW. [Read Article Here >>>](#)
- SER Professor of Law **Tara Righetti** recently released a new casebook on The Law of Oil and Gas. [Available Here >>>](#)
- SER graduated one student in the ERMD degree program in the December commencement ceremony along with the first energy minor graduate.\*\*\*



\*\*\* more details in features

## DECEMBER COMMENCEMENT CELEBRATES ENERGY GRADUATES, ALUMNI AND FIRST GRADUATE WITH NEW ENERGY RESOURCE MANAGEMENT MINOR

The winter commencement ceremony is a major milestone for the School of Energy Resources (SER). This year, SER celebrated graduates in the Energy Resource Management and Development (ERMD) degree program, acknowledged past alumni, and graduated the first student to complete the minor program that was launched in fall 2021.

**Meredith Hoerman** of Franklin, Tenn. graduated from UW with a B.S. in Management with a concentration in entrepreneurship, and minors in economics and energy resource management.

**Jak Tanner** of Big Piney, Wyo. was the only ERMD student that graduated in the December ceremony. With a background rooted in the energy industry, Tanner pursued an ERMD degree with an Energy and Environmental Systems concentration.

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## CERPA RELEASES TWO NEW WORKING PAPERS

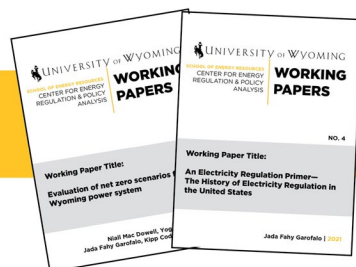
The Center for Energy Regulation & Policy Analysis (CERPA) at the School of Energy Resources (SER) has posted two new working papers to its working paper series.

The first paper released is an Electricity Regulation Primer authored by SER Research Scientist **Jada Garofalo**. The paper provides the history of electricity regulation in the U.S., which is meant to help states navigate the impending shift in generation, regardless of the regulatory scheme that operates where they sit.

The second working paper released entitled, “Evaluation of Net Zero Scenarios for the Wyoming Power System,” presents a scenario-based techno-policy analysis of a range of pathways for Wyoming to transition to net zero.

Led by CERPA research affiliate **Niall Mac Dowell** of Imperial College London, the study is a collaborative piece written with Garofalo, as well as co-authors **Yoga Wienda Pratama** of Imperial College London, and **Kipp Coddington** of SER.

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## HIGHLIGHTS CONT.

### General Announcements

- SER Executive Director **Holly Krutka** presented on Carbon Capture and Storage at the Columbia University Center on Global Energy Policy.
- SER Executive Director **Holly Krutka** presented at the Supporting Wyoming’s Energy Communities virtual event presented by the U.S. Department of Energy. SER Senior Director of Research **Scott Quillinan** led an afternoon breakout session for the same event.
- **Scott Quillinan** participated as a panelist at the Board of Latino Legislative Leaders annual meeting. The session was titled, “The Future of American Energy: Paving a Path Toward Net Zero Through Bipartisan Approaches”. The panel was moderated by Rep. Jon Koznick (MN) and I shared the panel with Williams Co. and Greentown Labs.



- PLM Students and executives of Student Chapter for Energy Resources (SCER) attended the Petroleum Association of Wyoming’s 2021 Wildlife & Reclamation Conference in Casper, Wyo.



Pictured Left-Right: Hunter Lee-Senior, Kieran McMullen-Junior, Caleb Durgin-Senior, Montgomery Hughes-Junior, Eli Vigil-Junior

## IMPORTANT DATES

- **Equality Day - Office Closed**  
January 17, 2021
- **First Day of Classes**  
January 18, 2021
- **EORI Wyoming O&G Fair Webinar**  
January 19, 2021
- **Energy Resource Council Division Reports Due**  
January 25, 2021