

THE Core SAMPLE

Internal Newsletter of the School of Energy Resources

June | 2022

UW SCHOOL OF ENERGY RESOURCES, COLLEGE OF LAW LAUNCH 3+3 ACCELERATED DEGREE PROGRAM

The University of Wyoming School of Energy Resources (SER) has launched an accelerated degree program in collaboration with the College of Law.

The Quickstart 3+3 program allows UW students to earn a bachelor's degree in energy resource management and development (ERMD) through SER and a law degree through the College of Law. Students can now gain the combined professional credentials in six years instead of the traditional seven.



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SER PARTICIPATES IN WYOMING INNOVATION CENTER RIBBON CUTTING CEREMONY AND MEETS WITH KEY STAKEHOLDERS IN GILLETTE

Members of the School of Energy Resources (SER) traveled to Gillette for the ribbon cutting ceremony on the recently completed Wyoming Innovation Center (WyIC).

SER Executive Director **Holly Krutka** was among the speakers at the event, celebrating the opportunities for Wyoming coal that WyIC brings.

The grand opening coincided with important visits from leadership from the Department of Energy's (DOE) Office of Fossil Energy and Carbon Management (FECM).

The meeting was held in conjunction with a visit from the Interagency Working Group on Coal Communities and showcased the Wyoming CarbonSAFE project, as well as a tour around Dry Fork Mine and Dry Fork Station.



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HIGHLIGHTS

Research Centers of Excellence

- SER funded Ph.D. student Zuhao Kou in the *Center for Economic Geology Research (CEGR)* presented at the Society of Petroleum Engineers Student Paper Contest for the rocky mountain region and won first place. His paper was on geomechanical work he has done with the Wyoming CarbonSAFE project. In addition to top honors, he has been invited to participate in the International Student Paper Contest to be held during ATCE 2022. Full profile coming soon!
- Undergraduate student Jacob Schneider will be working in *CEGR* this summer on the PCOR project.
- Led by *CEGR*, registration is open for the CORE-CM Annual Forum in the Powder River Basin. The in-person event will be held at Gillette College, August 31-September 1. [Register Here >>>](#)
- SAVE THE DATE for the CORE-CM Annual Forum in the Green River Basin as part of *CEGR*. It will be held October 20 at Western Wyoming Community College.
- Research scientists in the *Center for Carbon Capture and Conversion (CCCC)* were featured on Wyoming Public Radio to discuss the char brick demonstration house. [Listen Here >>>](#)



***More details in features

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



UNIVERSITY
OF WYOMING

School of
Energy Resources

RESEARCHERS COMPLETE CROSS WELL TOMOGRAPHY AT WYOMING CARBONSAFE SITE

Researchers in the School of Energy Resources (SER) Center for Economic Geology Research (CEGR) completed a cross well tomography analysis as part of the detailed site characterizing for Phase III of the Wyoming CarbonSAFE project.



Led by CEGR Senior Research Scientist **John Jiao**, the imaging between the two wells adjacent to Basin Electric Power Cooperative's Dry Fork Station was achieved through a seismic survey that was completed on June 10.

In order to conduct the seismic survey, researchers designated one well as the seismic source and the other was equipped with geophone receivers strategically placed at different depths to capture the seismic waves emanating from the source well.



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SCHOOL OF ENERGY RESOURCES WELCOMES TWO NEW MEMBERS TO ENERGY RESOURCES COUNCIL

The School of Energy Resources (SER) is pleased to welcome Representative **Don Burkhart** of the Wyoming Legislature and **Chad Teply**, the Senior Vice President of Project Execution for Williams as the newest board members to the Energy Resources Council (ERC).

Appointed by Governor **Mark Gordon** and confirmed by the Wyoming Senate, Burkhart and Teply replace the seats formerly held by Representative **Mike Greear** and **Tom Botts**, a retired Executive Vice President for Royal Dutch Shell.

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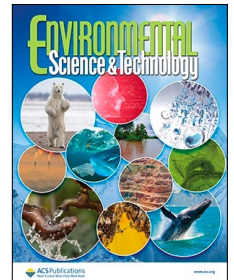
HIGHLIGHTS CONT.

- Effective July 1, Trina Pfeiffer is the Interim Director for the CCCC. Richard Horner will serve as a Senior Advisor to the Carbon Engineering Initiative.



- The *Hydrogen Energy Research Center (H₂ERC)* has issued a call for proposals from UW faculty members across the hydrogen energy supply chain.***
- The *Enhanced Oil Recovery Institute (EORI)* published a report on novel product for oil wells. [Read the Report >>>](#)

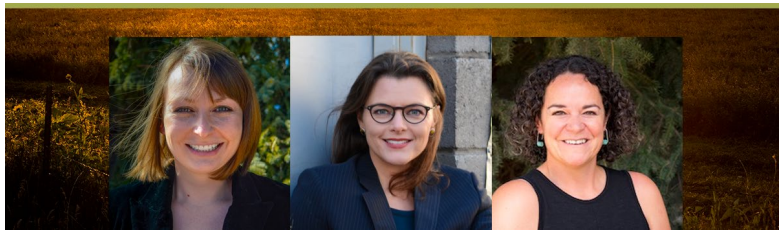
- Working with the *Center for Energy Regulation & Policy Analysis (CERPA)* researchers Kipp Coddington, Jada Garofalo, and UW engineering professor Haibo Zhai published an article on policy driven support for CCUS in the *Environmental Science & Technology* journal. Profile coming soon!



- A second paper exploring the economics of rare earth elements in Wyoming is forthcoming from *CERPA*.
- The *3D Visualization Center (3D Viz Center)* recently completed a surface mine training program in collaboration with Gillette College.
- **Phillip Black** in the *3D Viz Center* is wrapping up a 360-degree tour video project of the School of Energy Resources. The project was commissioned by the SER Academic program and will be used as a recruiting tool to feature the amazing work done at SER!

***More details in features

UW TO RECEIVE \$800,000 FROM DEPARTMENT OF ENERGY FOR NUCLEAR ENVIRONMENTAL JUSTICE PROJECT



A University of Wyoming proposal has been selected to receive an \$800,000 research award from the U.S. Department of Energy's (DOE) Nuclear Energy University Program (NEUP).

The agency announced that it was awarding more than \$61 million for 74 nuclear energy projects across 40 U.S. universities to support nuclear technology development, infrastructure improvements and career opportunities.

The UW proposal, led by Assistant Professor **Rachael Budowle** in the Haub School of Environment and Natural Resources, will focus on applied community-based environmental justice research with community members, environmental organizations, developers and other stakeholders in Wyoming.

In addition to the UW-led proposal, **Tara Righetti** and **Temple Stoellinger** are part of a second University of Wisconsin-Madison-led collaborative study. That project will provide a comprehensive assessment of the challenges and opportunities of open architecture for advanced reactors and examine its potential to reduce the costs of those reactors.

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UW SCHOOL OF ENERGY RESOURCES SEEKS PROPOSALS ACROSS HYDROGEN ENERGY SUPPLY CHAIN

The University of Wyoming School of Energy Resources (SER) is seeking proposals from current UW faculty members on hydrogen energy. Topics of interest for the proposals include all levels of the supply chain, such as hydrogen production, use, transportation and storage.

The opportunity will fund projects up to 15 months in duration and with a maximum budget of \$100,000.

Interested faculty members are invited to submit proposals via email -- as well as any questions -- directly to Holubnyak at eholubny@uwyo.edu with the subject "SER RFP."

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HIGHLIGHTS CONT.

Academics

- SER Professor of Geology & Geophysics and Wyoming Excellence Chair **Dario Grana** was the recipient of the 2022 Outstanding Educator Award by the Society of Exploration Geophysicists (SEG). The nomination for this honor was submitted by students (current and former) and colleagues from Italy.



- SER Professor of Law **Tara Righetti** penned an article for the *Wyoming Lawyer*, the Wyoming State Bar Association's bi-monthly publication. The article examines CCUS and hydrogen playing a major role in the energy future. [Read Here >>>](#)
- SER senior **Eli Vigil** was featured in the latest issue of *UWyo Magazine* for his internship with the UW Foundation and his leadership in energy education. [Read Here >>>](#)
- After the recent launch of the 3+3 Quickstart program with the College of Law, Academics has worked to produce multiple video commercials highlighting the program with interviews from SER alumni that have gone on to pursue a law degree. [View Here >>>](#)

General Announcements

- Annual Reports are due from SER faculty members and Centers of Excellence by July 15 to **Christine Reed**. Please contact her with any questions.
- A retirement reception will be held to honor **Diana Hulme** on July 11 from 2:30 to 4:30 pm in the Science Initiative Building Foyer. All are invited and encouraged to attend!
- Don't miss the SER fun activities planned! Upcoming Yoga and Potluck details below!

NEW FACES AT THE SCHOOL OF ENERGY RESOURCES

SCHOOL OF ENERGY RESOURCES WELCOMES CHOOIKIM LAU AS NEWEST RESEARCH SCIENTIST

The School of Energy Resources is pleased to welcome **ChooiKim Lau** as an assistant research scientist in the Center for Carbon Capture and Conversion (CCCC).

Lau recently graduated with a master's degree in Architectural Engineering from the UW Department of Civil and Architectural Engineering and Construction Management. During her graduate program, Lau was the lead student on the coal-derived building materials developed in the CCCC and managed the construction of the char brick demonstration house on campus.



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UW SCHOOL OF ENERGY RESOURCES WELCOMES TIFFANY BISHOP AS NEW PROJECT

The University of Wyoming (UW) School of Energy Resources (SER) recently welcomed **Tiffany Bishop** to the research team in June 2022. Bishop joins SER as a project specialist.

In her new role, Bishop will be working with the directors of the research Centers of Excellence as well as project principal investigators (PI's) to assist with the administrative obligations associated with major grants.



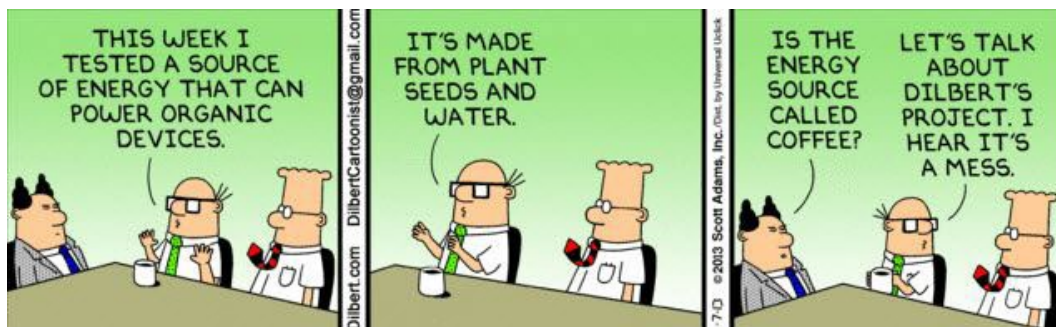
A native of Shoshoni, Wyo., Bishop attended Central Wyoming College before transferring to UW to earn her B.A. degree in Criminal Justice and Sociology in 2004. She worked as an office manager for several years before moving into the Technology Transfer Office at UW in 2015. While there, she specialized in patent prosecution for UW faculty and supported a community outreach program dedicated to helping Wyoming residents with inventions navigate the patent process.

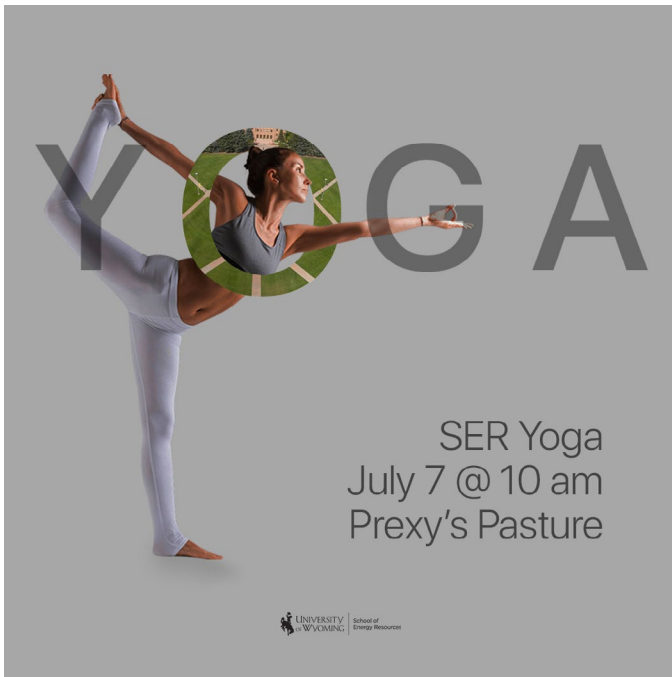
In 2020 she earned a certificate in paralegal studies from the University of California – Berkeley Extension with an emphasis on intellectual property. [Continue Reading >>>](#)



The School of Energy Resources offers a warm welcome to **Francis "Frankie" Vogt** (pictured left) and **Grant Copeland** (pictured right). Both joined the staff at SER in June. Frankie will serve as the Business Manager for the financial team, while Grant is working in the Center for Economic Geology Research on the CORE-CM projects. The pair will be featured in the July edition of *The Core Sample*.

ENERGY JOKE





SER is hosting a free yoga session in Prexy's pasture next week! Led by **Karolina Klata**, the session will be a fun, informal healthy break from the daily grind. Please join in! Bring your own mat and exercise attire (and bug spray if you think you need it!).



It's potluck time again! Bring your favorite dish to share and spend an hour with the extended SER family for some food and fun! June 19 at noon in the EIC lobby/patio! You can sign up here so others know what you are bringing to avoid duplication. [SER Potluck July 19 >](#)

IMPORTANT DATES

- **SER Yoga in Prexy's Pasture**
July 7, 2022
- **SER Potluck**
July 19, 2022
- **Academics - SER Open House**
July 26-27, 2022
- **Energy Resources Council Director's Reports Due**
August 12, 2022
- **Energy Resources Council Meeting**
August 25-26, 2022
- **Student Open House/First Floor Study Area Ribbon Cutting**
August 30, 2022
- **CORE-CM PRB Annual Forum - Gillette**
August 31-September 1, 2022
- **Energy Day Football Game**
September 3, 2022
- **Welcome Back Student BBQ**
September 9, 2022
- **Wyoming's Energy Future - Wold Foundation Conference**
September 15, 2022
- **Fall Distinguished Speaker Series Presentation**
September 16, 2022
- **PLM Advisory Board Meeting**
September 16, 2022
- **CORE-CM GGRB-WRB Annual Forum - Rock Springs**
October 20, 2022



School of Energy Resources