

THE Core SAMPLE

Internal Newsletter of the School of Energy Resources

July | 2022

UW STUDY EXAMINES ECONOMIC INCENTIVES FOR DEPLOYING CARBON CAPTURE, SEQUESTRATION IN WYOMING

University of Wyoming researchers recently published a policy analysis article in a leading environmental research journal that examines the potential role of economic and policy incentives to facilitate carbon capture and storage (CCS) deployment in the state.

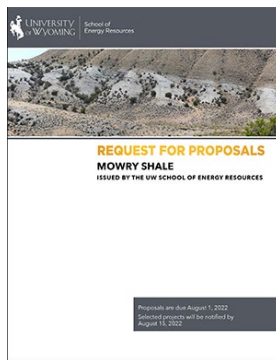
Haibo Zhai, the Roy and Caryl Cline Chair of Engineering, Environment and Natural Resources and an associate professor in the UW College of Engineering and Applied Science, led the study. The research, titled “Policy-Driven Potential for Deploying Carbon Capture and Sequestration in a Fossil-Rich Power Sector,” was published in the peer-reviewed journal *Environmental Science & Technology*. The journal is a highly cited publication for world-class environmental research across a broad and diverse range of environmentally relevant topics.

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UW SCHOOL OF ENERGY RESOURCES SEEKS PROPOSALS TO INVESTIGATE THE MOWRY SHALE

The University of Wyoming School of Energy Resources (SER) is seeking proposals from current UW faculty members to investigate the Mowry Shale in the Powder River Basin.

Topics of interest for the proposals include fundamental studies of the formation including physics-based model and experimentation to advance the geomechanical and geochemical understanding of the Mowry Shale relative to production or performance, or Data driven approaches that aim to draw meaningful insights from large data sets which can inform meaningful decision making in real-time to improve Mowry wells. [Continue Reading >>>](#)



HIGHLIGHTS

Research Centers of Excellence

- Research scientists Selena Gerace and Bob Gregory in the *Center for Economic Geology Research (CEGR)* recently collected water samples in the field as part of the Williams project.
- The *Center for Carbon Capture and Conversion (CCCC)* will be hosting a representative from the Department of Energy on August 16.
- In collaboration with Wood and Atlas Carbon LLC, the *CCCC* will be hosting a groundbreaking ceremony in Gillette, Wyo. on September 2 to launch the new pilot scale program of the solvent extraction technology to process Powder River Basin coal. The byproduct of the process serves as feedstock for many of the carbon engineering projects in the Center.
- The *Hydrogen Energy Research Center (H₂ERC)* is hiring! The Center is currently looking for an Assist. Research Scientist with expertise in applied economics, as well as an Assist. Research Scientist with expertise in geomechanics and structural geology.

Assistant Research Scientist - Economist
[Job Posting >>>](#)

Assistant Research Scientist -
Geomechanics and Structural Geology
[Job Posting >>>](#)

***More details in features

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



UNIVERSITY
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School of
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UW'S DARIO GRANA TO RECEIVE OUTSTANDING EDUCATOR AWARD FROM SOCIETY OF EXPLORATION GEOPHYSICISTS

Dario Grana, a professor and Wyoming Excellence Chair in the University of Wyoming Department of Geology and Geophysics, will receive the Outstanding Educator Award from the Society of Exploration Geophysicists (SEG).

The Outstanding Educator Award honors individuals for excellence in geophysics education and is awarded to a person who merits such recognition based on his or her educational qualities and contributions. These may include outstanding contributions in teaching of geophysics classes at any educational level; impact on education programs by commitment to excellence in geophysics education; special dedication to advising, supervising and mentoring students; and providing extraordinary inspiration to the next generation of geophysics professionals.

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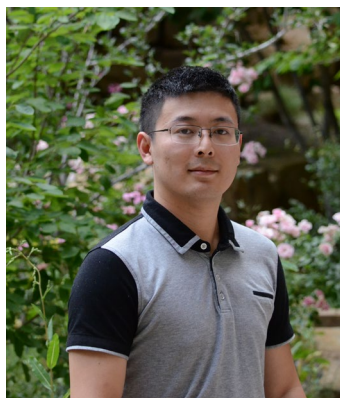
DOCTORAL CANDIDATE ZUHAO KOU WINS TOP HONORS IN SOCIETY OF PETROLEUM ENGINEERS STUDENT PAPER CONTEST

UW Ph.D. student **Zuhao Kou**, recently presented his research in the student paper contest at the Society of Petroleum Engineers (SPE) for the Rocky Mountain Region, winning first place.

Funded by the School of Energy Resources (SER), Kou author a paper entitled, "Impacts of carbonated brine-rock reactions on multiphase flow properties in upper Minnelusa sandstone: Implication for CO₂ storage," which features the geochemical research he has contributed to the Wyoming CarbonSAFE project in SER's Center for Economic Geology Research (CEGR).

In addition to top honors, Kou has been invited to participate in the International Student Paper Contest to be held during the 2022 SPE Annual Technical Conference and Exhibition (ATCE). ATCE is known as the premiere event for discovering and exchanging the latest technical information for the energy engineering industry. The conference will take place in Houston in October.

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HIGHLIGHTS CONT.

- **H₂ERC Director Eugene Holubnyak** spoke on a panel at the Infocast CCS/Decarbonization Project Development, Finance & Investment event where he discussed Infrastructure Build-Out and Emergence of Hubs and Clusters for CCUS.



General Announcements

- **Carrie Ver Burg** on the financial team was promoted to Assistant Director of Business Operations.
- **Cindy Ishkanian** on the financial team was promoted to Grants Manager.
- The financial team has requested that anyone with a Pcard please be diligent about uploading your own receipts into the system in order to alleviate the volume of work on the team. If you need assistance in learning the system or have questions, reach out to **Frankie Vogt**.
- SER Executive Director **Holly Krutka** was featured in Q&A from Williams! In it she discusses why Wyoming is poised to be a leader in hydrogen technologies!
[View Profile >>>](#)
- The Wyoming Energy Authority has issued a Request for Proposals on behalf of the Western-Inter States Hydrogen Hub (WISHH). Proposals are due August 16.
[View RFP >>>](#)
- SER hosted a booth at the AAPG Rocky Mountain Section Annual Conference in Denver.



***More details in features

UW'S HOLLY KRUTKA TO TESTIFY BEFORE THE U.S. SENATE COMMITTEE ON ENERGY & NATURAL RESOURCES

Holly Krutka, the executive director of the University of Wyoming School of Energy Resources (SER), testified before the U.S. Senate Committee on Energy and Natural Resources in July.



The hearing examined federal regulatory authorities governing the development of interstate hydrogen pipelines, storage, and import and export facilities. The hearing was livestreamed, and an archived video is available later on the committee's website along with witness testimony.

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UW EDUCATION-ABROAD COURSE REUNITES ARAPAHO STUDENT WITH TRIBAL HEADDRESS

2021 SER alumna Alyson White Eagle-SoundingSides recently traveled to London to witness a piece of her heritage that no member of the Northern Arapaho tribe has seen in over 100 years.

Covering the spectrum of land issues from science to legal and regulatory policy, the ERMD degree is a natural springboard to law school and White Eagle-SoundingSides has proven to be a natural at advocacy.



University of Wyoming College of Law student and Northern Arapaho member **Alyson White Eagle-SoundingSides** is working with law Professor **Darrell Jackson** and UW Art Museum Director **Nicole Crawford** to bring home from the British Museum a headdress that belonged to her great-great grandfather, Northern Arapaho leader Chief Yellow Calf.

The journey began when White Eagle-SoundingSides applied to take Jackson and Crawford's summer course to Europe called "Stealing Culture: The Intersection of Criminal Law and Museums." Jackson and Crawford work with museums and universities around the world as they begin the work of repatriating cultural items that were often taken without a community's knowledge or permission.

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IMPORTANT DATES

- **Energy Resources Council Director's Reports Due**
August 12, 2022
- **First Day of UW Classes Fall Semester**
August 22, 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
- **CCCC Coal Processing Pilot Plant Groundbreaking Ceremony**
September 2, 2022
- **Energy Day Football Game**
September 3, 2022
- **Welcome Back Student BBQ**
September 9, 2022
- **RECS CCUS 2022 Meeting at UW**
September 14-17, 2022
- **Wyoming's Energy Future - Wold Foundation Conference**
September 15, 2022
- **Fall Distinguished Speaker Series Presentation - Kara Brighton Fornstrom**
September 16, 2022
- **PLM Advisory Board Meeting**
September 16, 2022
- **CORE-CM Workforce Development Training Webinar**
September 27, 2022
- **CORE-CM GGRB-WRB Annual Forum - Rock Springs**
October 20, 2022
- **Energy Resources Council Meeting**
November 17-18, 2022

NEW FACES AT THE SCHOOL OF ENERGY RESOURCES

SCHOOL OF ENERGY RESOURCES WELCOMES KRISTI RUSSOW AS EXECUTIVE ADMINISTRATIVE

The School of Energy Resources is pleased to welcome **Kristi Russow** as the latest addition to the team. Russow will serve as the Executive Administrative Assistant to SER Executive Director, **Holly Krutka**.



While Russow will predominantly be working directly with Dr. Krutka, she brings a background of useful skills and experiences to help assist the wider administrative and research staff.

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DAVID LUCKE JOINS SCHOOL OF ENERGY RESOURCES AS PROJECT SPECIALIST TO SUPPORT RESEARCH CENTERS



The School of Energy Resources (SER) is pleased to welcome **David Lucke** as a new project specialist. Lucke comes to SER with over 17 years of experience in managing major projects and research grant opportunities for the Wyoming State Geological Survey (WSGS).

In his new position, Lucke will be helping to alleviate some of the administrative burden on multiple high-profile projects in the research Centers of Excellence in order to maximize efficiency, streamline the application and reporting processes, as well as manage deliverables.

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ENERGY JOKE

What's a solar panel's favorite type of exercise?



(A) Circuits.

THE SCHOOL OF ENERGY RESOURCES WELCOMES FRANKIE VOGT AS BUSINESS MANAGER

The School of Energy Resources (SER) recently welcomed **Francis "Frankie" Vogt** to the financial team.



At the heart of all research and operations, the financial team represents the 'unsung heroes' of SER, and is depended upon heavily for support, reporting, accurate financial data, and project management. Vogt, will join their ranks to keep pace with the expanding projects in SER.

A native of Powell, Wyo., Vogt brings with him three years of experience working within the UW financial system, having previously served as both an accountant and the business manager for the Office of Global Engagement.

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GRANT COPELAND JOINS SCHOOL OF ENERGY RESOURCES TO ADVANCE RARE EARTH ELEMENT AND CRITICAL MINERAL RESEARCH



Grant Copeland of Norfolk, Va. is the latest addition to the expanding research team at the School of Energy Resources (SER). With a geological background in analytical chemistry and method development, Copeland will be working with the Center for Economic Geology Research (CEGR) to advance projects dedicated to rare earth element

(REE) and critical mineral (CM) extraction in Wyoming.

In his new position, Copeland will primarily be supporting the CORE-CM (Carbon Ore, Rare Earth and Critical Mineral) projects looking at potential sources of REE and CM in regional coal basins. Copeland will often be seen in the lab conducting the analysis of current core samples.

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