

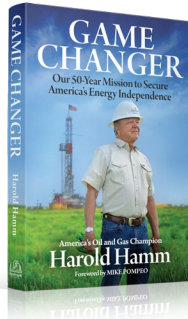
THE Core SAMPLE

Internal Newsletter of the School of Energy Resources

August | 2023

UW TO HOST HORIZONTAL DRILLING PIONEER HAROLD HAMM FOR TALK SEPT. 14

The University of Wyoming School of Energy Resources (SER), in partnership with the College of Engineering and Physical Sciences and the College of Business, will host a fireside chat and book signing event with Oklahoma oilman Harold Hamm Thursday, Sept. 14, beginning at 2:45 p.m. in the Engineering Education and Research Building atrium.



Hamm will be joined onstage for a conversation facilitated by SER Executive Director Holly Krutka. Hamm founded Continental Resources in 1967 and currently serves as executive chairman.

The first 50 guests to arrive to the event will receive a free copy of the book, with additional copies available for purchase from the University Store, which will have representatives on-site for the event.

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EPA ADMINISTRATOR REGAN VISITS UW'S SER ON TOUR OF WYOMING

Michael Regan, administrator of the U.S. Environmental Protection Agency (EPA), wrapped up a two-day tour of Wyoming — at the invitation of Gov. Mark Gordon — with a visit to the University of Wyoming School of Energy Resources (SER).



The visit, which took place Aug. 8-9, showcased the robust energy sector in the state, as well as the commitment to advanced technologies and the work occurring at SER and across UW to support the state's energy sector while balancing environmental protection. The visit comes amid much discourse related to the EPA's proposed new carbon pollution standards for coal- and gas-fired power plants.

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HIGHLIGHTS

Research Centers of Excellence

- Researchers from the *Center for Economic Geology Research (CEGR)*



provided project updates at the 2023 FECM/NETL Carbon Management Research Project Review Meeting in Pittsburgh, Penn. CEGR Director

Fred McLaughlin presented on the HERO Basalt CarbonSAFE project and the Wyoming CarbonSAFE alongside SER Senior Director of Research **Scott Quillinan**.

- Research Scientist **Lily Jackson** was appointed as an adjunct professor in the Department of Geology and Geophysics.



- *Center for Energy Regulation and Policy Analysis (CERPA)* Director **Kara Fornstrom** was featured in a podcast for the Electric Power Supply Association (EPSA).

- *Hydrogen Energy Research Center (H₂ERC)* Director **Eugene Holubnyak** was featured in a podcast for Newhydrogen. [LISTEN HERE >](#)

- *H₂ERC* Director **Eugene Holubnyak** presented on "The Importance of CCUS for Hydrogen Production" at the AAPG's Carbon Management Pavillion in Houston, Tex.



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



UNIVERSITY OF WYOMING

School of Energy Resources

UW'S SER RELEASES LANDOWNERS' RESOURCE GUIDE FOR CARBON CAPTURE AND STORAGE

The University of Wyoming's School of Energy Resources (SER) has released a new resource guide for Wyoming landowners addressing frequently asked questions regarding carbon capture and storage (CCS).

The publication, "What Every Wyoming Landowner Should Know About Carbon Capture and Storage (CCS)," provides a general overview of common issues that have arisen during the development of CCS technology and helps to provide landowners with some guidance when exploring options to lease their pore space.

The publication was written by **Carson Tanner**, a UW College of Law graduate, as part of an independent study and supervised by **Tara Righetti**, an SER professor of law.

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UNIVERSITY OF WYOMING FACULTY, STAFF AND STUDENTS VISIT IDAHO NATIONAL LABORATORY

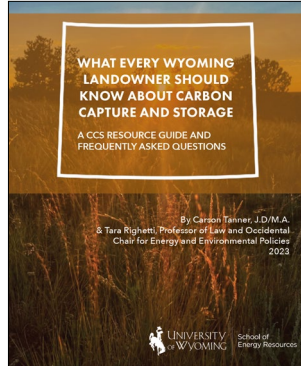
A cohort of University of Wyoming faculty, staff and students visited Idaho National Laboratory (INL) in Idaho Falls, Idaho, last week as part of a collaborative effort to strengthen connections and facilitate research opportunities between the two entities.



Hosted by INL and coordinated with the UW School of Energy Resources (SER) and the College of Engineering and Physical Sciences, the multidisciplinary group represented 10 different departments, including the departments of Geology and Geophysics, Chemistry, Mathematics and Statistics, Physics and Astronomy, and multiple engineering disciplines.

The visit began with a welcome networking reception with INL representatives before a full-day tour of the lab facilities, including the Energy Systems Lab, Collaborative Computing Center and Energy Systems Lab, where the UW team learned about the initiatives led by INL in areas of nuclear engineering, cybersecurity and workforce development.

[Continue Reading >>>](#)



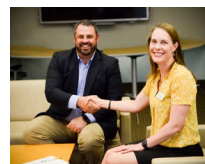
HIGHLIGHTS

Research Cont.

- **Marco Pelligrini** of the University of Bologna served as a visiting scholar in *H₂ERC*. He provided a lunchtime seminar to discuss the advancements in hydrogen energy exploration in Italy.
- The *3D Visualization Center* welcomed **James Amato** to the 3D Viz team! Full profile in the next edition!
- The *Center for Carbon Capture and Conversion* welcomed **Yi Yao** to the research team! Full profile in the next edition!



- SER Professor of Law **Tara Righetti** and *CERPA* research scientist **Maddie Lewis** represent the University of Wyoming School of Energy Resources at Nuclear Innovation Bootcamp in Tokyo, Japan.
- SER signed a memorandum of understanding with Low Emission Technology Australia (LETA) for collaborative research efforts in the advancement of energy technology.



[READ MORE >](#)

- SER Executive Director **Holly Krutka** was featured on the Wyoming Business Alliance/Wyoming Heritage Foundation "Business from the Basement" Podcast. [LISTEN HERE >](#)

UW TO LEAD \$10M HYDROGEN PROJECT WITH AWARD FROM DEPARTMENT OF ENERGY

The Hydrogen Energy Research Center (H₂ERC) is set to lead a collaborative project integrating a produced water thermal desalination technology along with autothermal or steam methane reforming (ATR/SMR) for efficient hydrogen production.

Partnered with Los Alamos National Laboratory; Engineering, Procurement and Construction LLC (EPC); and Williams, one of the nation's largest energy infrastructure companies, the project aims to demonstrate hydrogen production using water produced during oil and gas extraction.

The U.S. Department of Energy (DOE) Office of Fossil Energy and Carbon Management recently announced that the project had been selected to negotiate a nearly \$5 million award with cost share among the project partners, bringing the total endeavor up to \$10 million.

The initiative aims to continue advancement in hydrogen technologies that can improve performance, reliability and flexibility of existing and novel methods to produce, transport, store and use hydrogen in support of the nationwide goals of reducing greenhouse gas and achieving economy-wide net-zero emissions..

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UW FACULTY PHASE II HYDROGEN PROJECTS IN WYOMING PROPOSALS SELECTED

Three University of Wyoming research proposals recently were selected to receive seed funding through the Hydrogen Energy Research Center's (H₂ERC) Hydrogen Production and Transportation for Wyoming initiative.

The funding is part of Phase II of a funding initiative to promote and facilitate hydrogen research among current UW faculty members and researchers that will be applicable in Wyoming.

Proposals by **Saman Aryana**, **Haibo Zhai**, and **Charlie Zhang** were selected for funding, and will focus on hydrogen transportation, electrolysis hydrogen production systems or hydrogen production from Wyoming's coal resources.

While it was not a requirement to have participated in Phase I of the funding initiative to receive an award in Phase II, all three selected projects are repeat recipients.

[Continue Reading >>>](#)



Saman Aryana



Haibo Zhai



Charlie Zhang

HIGHLIGHTS

Academics

- SER Professor of Geology and Geophysics **John Kaszuba** left for a year-long sabbatical in Scotland.



- Students in the PLM program **Jacob Burns**, **Jacob Schneider**, and **Trace English** attended the WAPL Educational Event and Golf Tournament with PLM Director **Kris Koski**.

- PLM Director and SER Associate Lecturer **Kris Koski** accepted a once-in-a-lifetime position with the United States Air Force and is leaving SER after 6 incredible years of service. He will continue to teach 1 course during the fall semester.



- **Kristen Pritchett** has joined SER as the Interim Director of the PLM program. Full profile coming soon!



- SER Research Scientists **Selena Gerace** and **Maddie Lewis** are teaching courses in the ERMD program as adjunct faculty.

- SER Professor of Geology and Geophysics **Subhashis Mallick** received the 2023 SEG Reginald Fessenden Award.



This honor is awarded to those who have made a specific technical contribution to exploration geophysics, such as an invention or a theoretical or conceptual advancement, which merits special recognition.



ROCKIES PETROLEUM CONFERENCE TO FEATURE MULTIPLE SCHOOL OF ENERGY RESOURCES SPEAKERS AND PROJECTS

The Petroleum Association of Wyoming (PAW) held the Rockies Petroleum Conference August 23-25 at the Marian Rochelle Gateway Center on the University of Wyoming (UW) campus in Laramie.

The UW School of Energy Resources was a prominent entity throughout the three-day conference. Kicking off the event, SER hosted tours for attendees of the Energy Innovation Center, showcasing the outreach, research, and the educational programs in support of the energy sector in Wyoming.

Opening the general session on Thursday, SER student **Jacob Burns** introduced Wyoming Superintendent of Public Instruction **Megan Degenfelder** as a keynote speaker. Burns is a senior in the Energy Resource Management and Development (ERMD) degree program at SER and recently completed a summer internship with Peabody in Gillette. He is serving as the President of the Student Chapter for Energy Resources this year.

Following Superintendent Degenfelder, a panel comprised of SER Academic Director **Kami Danaei**, **Ashli Tomisich**, director of career services at the College of Law, and **Tyler Grabner**, associate director of career services for the College of Engineering and Physical Sciences spoke about the ways in which industry can connect with UW's emerging leaders.

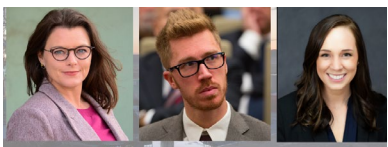


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UW'S RIGHETTI LEADS INTERNATIONAL CARBON CAPTURE AND STORAGE SPECIAL ISSUE PUBLICATION

Tara Righetti, a School of Energy Resources (SER) Professor of Law and the Occidental Chair in Energy and Environmental Policies, led a collaborative, international issue about Carbon Capture and Storage (CCS) in the Oil and Gas Energy Law (OGEL) Journal with **Matteo Fermeglia** of Hasselt University in Belgium.

The online issue features an introduction from Righetti and Fermeglia, as well as an article from SER Research Scientist **Madeleine J. Lewis** on her research exploring transboundary challenges of geologic carbon storage in interstate and federal pore space.



[Continue Reading >>>](#)

HIGHLIGHTS

Academics Cont.

- SER Adjunct Professor **Temple Stoellinger** was appointed as a trustee-at-large with The Foundation for Natural Resources and Energy Law.



- **Hannah Powers** joined SER as the new College Relations Representative. Full profile coming soon!

Outreach

- SER Executive Director **Holly Krutka** visited the Gillette College campus which houses a virtual surface mine training program for students to become certified in mine safety developed by **Kyle Summerfield** in the 3D Viz Center.



- SER Director of Outreach **Christine Reed** hosted a booth at the USEA Carbon Management Technology Showcase in Pittsburgh, Penn. The tradeshow was held in conjunction with the FECM/NETL project update meeting.

General

- **Kimmie Takaki** has re-joined the business team at SER on a part-time basis to help with accounting needs.
- The accounting team has redistributed workload among its team to maximize efficiency. Check with **Rachel Ferrell**, **Carrie Ver Burg** or **Frankie Vogt** if you have questions about who to contact.



UW SER ACADEMIC PROGRAM APPOINTS DIRECTOR OF ENERGY AND ENVIRONMENTAL SYSTEMS CONCENTRATION

The University of Wyoming School of Energy Resources (SER) welcomes **Randall Violett** as the Program Director for the Energy and Environmental Systems (EES) Concentration in the Energy Resource Management and Development (ERMD) degree program.

Originally from Gunnison, Colo., Violett joined UW in November of 2022 as associate director of the newly launched Ranch Management and Agricultural Leadership Program in the College of Agriculture, Life Sciences, and Natural Resources (CALSNR). In his capacity in CALSNR, he works to integrate multidisciplinary classroom learning with practical experience, connecting students with producers and industry professionals.

As EES director – which is an additional, part-time administrative position – Violett will be tasked with providing administrative support to students in the concentration, and to facilitate connections between students, professional organizations, and potential employers in the field. [Continue Reading >>>](#)



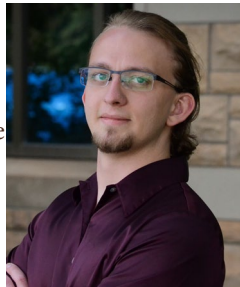
SER'S 3D VISUALIZATION CENTER EXPANDS TEAM

The 3D Visualization Center welcomed Cole James and Kyle Carncross to the creative team in August. They will work in support of those expanding outreach and conceptual design needs for SER's dedicated energy research.

A native of Casper, James graduated from the University of Wyoming (UW) in spring of 2023 with degrees in Business Management and Visual Communication Design.

Throughout his undergraduate education, Cole worked in the 3D Viz Center for two years in the Technology Associate Program (TAP) where he cultivated his environmental modeling skills and excelled at motion capture and 3D animation technology.

Originally from Broomfield, Colo., Carncross has accumulated nearly a decade of programming learning and practice in both academic and personal environments. He has worked at UW in various capacities for the past four years, most recently with Dining Services. [Continue Reading >>>](#)



SER WELCOMES PAT MCLEAN TO RESEARCH TEAM

Patricia “Pat” McLean joined the School of Energy Resources (SER) in August as an Office Associate, Senior to support the research team. In her new capacity, she will work with the directors of SER's Centers of Excellence to provide administrative assistance, organization and schedule management, and facilitate internal communication.

Calling Laramie home, McLean has traveled all over the world and brings a wealth of knowledge and professional office expertise to the position. Her varied background in education has made her adaptable with an innate ability to work with diverse individuals, management styles and meet the needs of wide-ranging project topics. [Continue Reading >>>](#)



ESTHER WAGNER JOINS SER'S CENTER FOR ENERGY REGULATION AND POLICY ANALYSIS

The School of Energy Resources is pleased to welcome Esther Wagner to the Center for Energy Regulation and Policy Analysis (CERPA) as a Research Professional.

In her new role, Wagner will be providing guidance on policies governing Wyoming's legacy energy industries as well as emerging technologies and offering insights on how they can benefit Wyoming.

A native of Casper, Wagner has wide-ranging experience navigating energy regulations and providing recommendations to policymakers in support of innovative technologies, and built a career as an energy professional. [Continue Reading >>>](#)



WILL LAWLER JOINS THE HYDROGEN ENERGY RESEARCH CENTER

Recent UW graduate William Lawler is the latest addition to the School of Energy Resources' Hydrogen Energy Research Center (H₂ERC) as a research scientist.

Lawler will be conducting water filtration lab work for the research team, supplying valuable data for evaluation, and contributing to the techno-economic analyses being carried out in the Center. [Continue Reading >>>](#)



IMPORTANT DATES

- **Harold Hamm Fireside Chat**
September 14, 2023
- **Distinguished Speaker Series - Charles Sims**
September 15, 2023
- **STEM Career Fair**
September 20-21, 2023
- **Career Fair Employer Reception with CEPS**
September 21, 2023
- **Western Governors Association Meeting**
September 21, 2023
- **Energy Day Distinguished Speaker Series - Megan Degenfelder**
September 22, 2023
- **Energy Day Networking Reception**
September 22, 2023
- **Student Chapter for Energy Resources Tailgate and Raffle**
September 23, 2023
- **Energy Day Football Game**
September 23, 2023
- **UW Homecoming**
September 30, 2023
- **Distinguished Speaker Series - Matthew Balhoff**
October 2, 2023
- **2023 Law & Policy Conference**
October 13, 2023
- **Distinguished Speaker Series - Peyman Mostaghimi**
October 18, 2023
- **UW Giving Day**
October 25-26, 2023
- **Distinguished Speaker Series - Matt Jamieson**
October 30, 2023
- **SER Halloween Spooky Social Potluck**
October 31, 2023
- **CORE-CM Annual Meeting for the GGRB-WRB**
November 2, 2023
- **ERC Joint Meeting with the UW Board of Trustees**
November 16-17, 2023

SER BIRTHDAYS!

AUGUST

Helen Qin, Aug. 3

Holly Krutka, August 13

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

ENERGY JOKE

