

THE Core SAMPLE

Internal Newsletter of the School of Energy Resources

September | 2024

UW SER TO HOST TRIBAL ENERGY SUMMIT OCT. 17

The University of Wyoming's School of Energy Resources (SER) hosted a Tribal Energy Summit Thursday, Oct. 17.

The first-of-its-kind conference for UW aimed to bring together leaders from energy-producing tribal nations and tribal energy companies to hear from them directly about challenges and opportunities for continued energy development in the rural American West.

Presented in partnership with the Denver law firm Brownstein Hyatt Farber Schreck, the program was held in the UW Conference Center at the Hilton Garden Inn and was free and open to the public. A livestreaming option also will be available.

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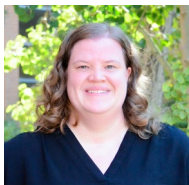
NEW FACES AT SER IN SEPTEMBER

Full profiles coming soon!



Bryan Leonard, Ph.D.

SER Associate Professor of Environment and Natural Resources



Jennifer Bell, Ph.D.

SER Assistant Professor of Soil Science and Reclamation



Cole Messa

*Assistant Research Professional
Center for Economic Geology Research*



Scarlett Forrest, Esq.

*Assistant Research Scientist
Jurisprudence of Underground Law and Energy Research Group*

HIGHLIGHTS

Research Centers of Excellence

- Funding for the HERO Basalt CarbonSAFE project led by the *Center for Economic Geology Research (CEGR)* came in from DOE.
- Senior Research Professional **Davin Bagdonas** in *CEGR* published an article entitled, "Coal ash resources and potential for rare earth element production in the United States," in the *International Journal of Coal Science & Technology*.
- Student **Jacob Huerta** in the *Wind Energy Research Center* submitted a proposal for UW to compete in the DOE's Collegiate Wind Competition that was accepted the academic year 24-25.



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- Assistant Research Scientist **Resham Thapa** in the *Center for Carbon Capture and Conversion (CCCC)* published another article on the coal char soil amendment research. The article, "Enhancing Corn Yield and Soil Quality in Irrigated Semiarid Region with Coal Char and Biochar Amendments," was published in *Soil Systems*.



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



UNIVERSITY
OF WYOMING

School of
Energy Resources

WYOMING'S ENERGY FUTURE POSTER WINNERS

As part of the Wyoming's Energy Future Symposium held on September 12, students competed in a poster competition to showcase energy-related research projects across campus. Winners were selected from among 18 submissions.

First Place:

Charles Nuncio

Geology & Geophysics

"Evaluate What Ground-based Geophysical Methods Best Delineate the SU Roll Front in Shirley Basin, WY, Using Electrical, Electromagnetic, and Seismic Methods."

Second Place:

Alirza Orujov

Chemical & Biomedical Engineering

"Integrating CO₂ Storage Enhancement with Innovative Monitoring and Containment Approaches."

First Place:

Sophia Stuart

Geology & Geophysics

"Machine Learning to Constrain Geologic Controls on Critical Mineral Occurrence at Wyodak Mine, Powder River Basin, Wyoming."



SER BIRTHDAYS!

SEPTEMBER

Randall Violett, September 8
Selena Gerace, September 26

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

HIGHLIGHTS

Research Cont.

- Associate Research Scientist **Stefan Holberg** in the CCCC presented at the International Elastomer Conference 2024 in Pittsburgh, PA on "Reinforcement fillers from low-grade coal." Dedicated to finding new uses for Wyoming coal, the CCCC has conducted research targeting the use of coal char as a filler in elastomers and rubber.
- Professor **Kam Ng** and Assistant Research Scientist **ChooiKim Lau** in the Dept. of Civil and Architectural Engineering, in collaboration with Program Manager **Mark Behrens** in the CCCC, published in a top journal, *Construction and Building Materials*. The article is entitled, "Optimization of microwave-produced coal-derived char insulation foam using response surface methodology."
- Assistant Research Professional **James Amato** in the 3D Visualization Center (3D Viz) gave a lightening talk as part of the 2024 Wyoming Computing Symposium.



Academics

- Co-director **Caleb Hill** of the *Nuclear Energy Research Center (NERC)*, presented to Staff Senate on the proposed Nuclear Certificate Programs spearheaded by SER and the College of Engineering & Physical Sciences.

STAFF SPOTLIGHT

Cole James

*Assistant Research Professional
3D Visualization Center*



Cole James in the 3D Visualization Center has teamed up with **Sabrina Kaufman** in Outreach to create 3D assets for outreach publications and marketing materials.

His artistic renderings have enhanced the professionalism of the documents and SER wants to acknowledge his behind the scenes contributions and talents!



ENERGY JOKE

Wow, I really am "light"!



HIGHLIGHTS

Academics Cont.

- SER Associate Professor **Bryan Leonard** published an article in the top tier journal, *Nature*, on the "Economic Potential of Wind and Solar Resources in American Indian Communities."



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- SER Professor of Law **Tara Righetti**, published a special issue on CCUS in the *Wyoming Law Review* as part of the Occidental Chair in Energy and Environmental Policies.

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Outreach

- SER Executive Director **Holly Krutka** presented as part of Governor **Mark Gordon's** townhall meeting in Gillette. She also provided a presentation on the Wyoming Integrated Test Center on her visit.



- Outreach Director **Christine Reed** and Marketing Outreach Coordinator **Sabrina Kaufman** provided presentations to K-6 students in Big Piney, Wyo. and Lyman, Wyo. respectively, as part of the STEM Initiative Roadshow.

- Once again, SER featured prominently in the latest issue of *UWyo Magazine*!

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IMPORTANT DATES

- **Distinguished Speaker Series Presentation- Reza Barati**
September 27, 2024
- **Distinguished Speaker Series Presentation- Jeff Merrifield**
October 4, 2024
- **Energy Day Festivities and Game**
October 11-12, 2024
- **Distinguished Speaker Series Presentation- Todd Allen**
October 11, 2024
- **Energy Roadshow - Casper**
October 15, 2024
- **Tribal Energy Summit**
October 17, 2024
- **Research Writing Workshop**
October 23, 2024
- **UW Giving Day**
October 23-24, 2024
- **Energy Roadshow - Cody**
October 30, 2024
- **Research Writing Workshop Session 2**
October 30, 2024

