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SATURDAY UNIVERSITY

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A Low-Carbon Future for Wyoming Fossil Fuels? Update on the University of Wyoming's Carbon Capture Research in Campbell County

Wyoming coal and natural gas face unrelenting climate policy pressure to reduce their emissions of greenhouse gases. Carbon Capture research suggests that this technology may play an important role in enabling these fuels to thrive in the future. Wyoming leads research, policy and infrastructure development in Carbon Capture technology. Its university pursues several large research projects in both China and Wyoming, including an ongoing effort at Dry Fork Station near Gillette. This Saturday University program will explain the UW research at Dry Fork Station, including the drilling of a test well that should provide additional geologic information to inform, in part, if such a project would be feasible in the future. The three talks will examine the geological, economic and social impact, both potential and actual, of this research. At the conclusion, audience members will be invited to participate in a facilitated discussion about Carbon Capture, Utilization and Storage (CCUS) and the local community.

WHITNEY ACADEMIC CENTER

Sheridan College, Sheridan, WY • Feb. 23, 2019 @ 9:00 AM

Doors open at 8:30 AM for coffee and donuts.

• Moderator: Dr. Jean Garrison, Professor and Director of the Office of Engagement and Outreach, University of Wyoming •



9:00 AM • Why Carbon Capture is Important for Wyoming's Economic Future: A Climate Policy Overview

Kipp Coddington, Director of Energy Policy & Economics, School of Energy Resources (SER), University of Wyoming

Coal and other fossil fuels face unrelenting governmental and private sector pressures to reduce their emissions of greenhouse gases such as carbon dioxide (CO₂). Pressures arise from international accords such as the Paris Agreement and from national sources, such as California's continuing advancement of a suite of low-carbon policies. Wyoming's leadership in responding to these challenges through implementation of state-level CCUS policies and projects will be discussed.



10:15 AM • The Science of Carbon Capture, Utilization and Storage (CCUS): Wyoming Case Studies and Wyoming CarbonSAFE

Scott Quillinan, Geologist and Director of Research, School of Energy Resources, UW

Fred McLaughlin, Ph.D., P.G. Manager & Senior Research Scientist, Center for Economic Geology Research, School of Energy Resources, UW

For the past decades, UW's SER has sought to advance the science of CCUS. One current research aims to provide carbon storage options north of Gillette at the Wyoming Integrated Test Center in support of on-going Carbon Capture research efforts. As will be explained in this talk, the goal is to understand the technical challenges of geologic storage of carbon using data from Wyoming CCUS case studies: How to determine storage capacity. How to assess the ramifications of long-term confinement. What are the risks? The talk further introduces "Wyoming CarbonSAFE," a potential future project that seeks to implement the economic, safe and secure storage of 50 million tons of CO₂ near Gillette.



11:30 AM • Carbon Capture and Communities: The Role of Social License

Jessica Western, Ph.D., Senior Research Scientist, Human Dimensions in Natural Resources; Director, Collaboration Program in Natural Resources; Ruckelshaus Institute, Haub School of Environment and Natural Resources, UW

"Social License" refers to the acceptance of a company or industry's standard business practices and operating procedures by its employees, stakeholders and the general public. In the context of CCUS, public acceptance and understanding of the technology and the projects implementing it is key to their ultimate success. Dr. Western will present an overview of the concept of "Social License," and then the audience will be invited to participate in a facilitated discussion regarding carbon capture and the current research concerning carbon sequestration in northern Wyoming and the potential impacts on the local communities, from economics and energy to health and the environment.

• Presentations followed by a roundtable discussion with speakers over FREE lunch. •

Saturday University is sponsored by the University of Wyoming, Wyoming community colleges, and Wyoming communities.

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