



**NATIONAL
COAL COUNCIL**

*2019 Spring Annual Meeting
Full Council Meeting Sponsor*

35th Anniversary Celebration 1984 | 2019

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Ramaco Carbon, based in Wyoming and part of Ramaco Coal, is the nation's first vertically integrated "Coal-Tech" company. It is pursuing a comprehensive mining, research and manufacturing platform to incubate "Coal to Products". That platform includes a billion ton mine called the Brook Mine, a research center called the iCAM, which will host top national labs, university and private research groups, all exploring innovation in advanced materials, and a "mine mouth coal-to-products" series of manufacturing plants where research from the iCAM and coal from the mine will be used to manufacture advanced carbon products.

Thank You Event Sponsors!



Jupiter Oxygen Corporation (JOC) is a U.S. based clean coal technology company specializing in carbon capture technologies. JOC's clean coal technology supports sustainable coal usage while addressing global climate change concerns. Our Oxy-Combustion [using oxygen instead of air] technology and carbon capture process for coal fired power plants results in near zero emissions of CO₂, Mercury, Nitrous and Sulfur Oxides. JOC's transformational technology involving CCUS will play a key role in addressing global environmental concerns through the advancement of Enhanced Oil Recovery (EOR) and Enhanced Coal Bed Methane Recovery (ECBM) while addressing energy supply concerns.



Southern Company

Southern Company (NYSE: SO) is America's premier energy company, with 44,000 megawatts of generating capacity and 1,500 billion cubic feet of combined natural gas consumption and throughput volume serving 9 million electric and gas utility customers through its subsidiaries. The company provides clean, safe, reliable and affordable energy through electric utilities in four states, natural gas distribution utilities in seven states, a competitive generation company serving wholesale customers across America and a nationally recognized provider of customized energy solutions, as well as fiber optics and wireless communications. Southern Company brands are known for excellent customer service, high reliability and affordable prices that are below the national average. Through an industry-leading commitment to innovation, Southern Company and its subsidiaries are inventing America's energy future by developing the full portfolio of energy resources, including carbon-free nuclear, 21st century coal, natural gas, renewables and energy efficiency, and creating new products and services for the benefit of customers. Southern Company has been named by the U.S. Department of Defense and G.I. Jobs magazine as a top military employer, recognized among the Top 50 Companies for Diversity by Diversity Inc., listed by Black Enterprise magazine as one of the 40 Best Companies for Diversity and designated a Top Employer for Hispanics by Hispanic Network. The company has earned a National Award of Nuclear Science and History from the National Atomic Museum Foundation for its leadership and commitment to nuclear development and is continually ranked among the top utilities in Fortune's annual *World's Most Admired Electric and Gas Utility* rankings. Visit our website at www.southerncompany.com.

Thank You Keynote Session Sponsors!



Advanced Emissions Solutions, Inc.
Advancing **Cleaner** Energy

Advanced Emissions Solutions, Inc. is a leader in clean coal technology and the associated specialty chemicals, serving the coal-fueled power plant industry. Our proprietary environmental technologies and specialty chemicals enable power plants to enhance existing air pollution control equipment, minimize mercury, acid gases, and other emissions, maximize capacity, and improve operating efficiency to meet the challenges of existing and pending emission control regulations. Advanced Emissions Solutions, Inc. serves as the holding company for ADA-ES, Inc., [ADA Carbon Solutions, LLC](#), and is an owner in [Tinuum Group, LLC](#).

CLEARPATH

ClearPath's mission is to develop and advance conservative policies that accelerate clean energy innovation. To advance that mission, it develops cutting-edge policy and messaging, educates policymakers, and collaborates with industry."

Peabody

Peabody is the leading global pure-play coal company, serving power and steel customers in more than 25 countries on six continents. The company offers significant scale, high-quality assets, and diversity in geography and products. Peabody is guided by seven core values: safety, customer focus, leadership, people, excellence, integrity and sustainability.



SYNFUELS AMERICAS

Synfuels Americas is an energy conversion technology provider of coal-to-liquids (CTL) and gas-to-liquids (GTL) processes. We have an international business platform focused on researching, developing and implementing innovative technologies. Our main mission is to improve the availability and quality of advanced energy technologies for converting natural resources into higher value products. To support this mission, we analyze current and future developments in energy markets to better adapt to changing energy realities. We use a dynamic approach for planning and improving synthetic chemical compounds and fuels. A key objective for the company is to develop a worldwide network of scientific and academic partners. This network will focus on developing energy alternatives with improved economic and environmental attributes.

Thank You Breakfast Sponsors!



With 30 years of experience, Charah Solutions, Inc. is a leading provider of environmental and maintenance services to the power generation industry, with operations in coal-fired and nuclear power generation sites across the country. Based in Louisville, Kentucky, Charah assists utilities with all aspects of managing and recycling ash byproducts generated from the combustion of coal in the production of electricity as well as routine power plant maintenance and outage services for coal and nuclear energy providers. The company also designs and implements solutions for ash pond management and closure, landfill construction, fly ash and slag sales, and structural fill projects. Charah is the partner of choice for solving customers' most complex environmental challenges, and as an industry leader in quality, safety, and compliance, the company is committed to reducing greenhouse gas emissions for a cleaner energy future.

What makes us unique among utilities is that cooperatives like Tri-State are member-owned and governed and operate on a not-for-profit basis. Our governing decisions are based on sound financial principles, utility industry best practices and, most importantly, the needs of our members.



We are different than investor-owned utilities. Our interests and business decisions are not driven by shareholders, but by those we serve: our members and their consumers. We are committed to providing reliable, affordable and responsible power to our members that serve consumers at the end of the line. At Tri-State, we work tirelessly to engage our members and ensure we meet their wholesale power needs and provide the services they value.

Tri-State serves 43 independent, not-for-profit electric distribution cooperatives and public power districts, each governed by democratically elected boards of directors. These distribution systems directly power homes, farms and ranches, cities, towns and suburbs, as well as large and small businesses and industries across the West.

Thank You Lunch Sponsor!



U.S.-based Arch Coal, Inc. is a top coal producer for the global steel and power generation industries. Arch operates a streamlined portfolio of large-scale, low-cost mining complexes that produce high-quality metallurgical coals in Appalachia and low-emitting thermal coals in the Powder River Basin and other strategic supply regions. For more information, visit www.archcoal.com.

Thank You Coffee/Break Sponsors!

CDT Insurance Group is a Risk Management/Insurance Brokerage firm with specialization in the Energy sector. Established in 2016 but “were not born yesterday”. CDT brought together years of Energy Sector underwriting experience along with years of brokerage experience to form an Agency whose tagline has become “Complexity is our Specialty”.



With more than 70 years of experience, Savage is a trusted supply chain partner specializing in rail, truck and marine transportation; logistics; materials handling; and other industrial and environmental services. Industries served by Savage include power

generation, oil refineries, railroads, food and agriculture, oil and gas, mining, chemicals and petrochemicals, ports and terminals, and construction. Our purpose is to enable our Customers and Partners to feed the world, power our lives, and sustain the planet. Learn more at savageservices.com.

Western Research Institute, located in Laramie, Wyoming, is a nonprofit conducting scientific research and engineering game-changing technologies for NextGen clean energy systems, environmental solutions, carbon products, and asphalt materials.

We use science to inform new technologies and guide commercialization. WRI offers a full matrix of resources —

expertise, infrastructure and industry connections—to help clients realize the potential of their concepts and ours. Our 27-acre Advanced Technology Center includes laboratories, pilot facilities and a boiler to test NextGen coal technologies. We apply expertise in hydrocarbons to invent new materials and processes to increase the value of hydrocarbon resources such as coal, asphalt and ultra-heavy crude oils.



Thank You WIFI Sponsor!



Since 1968, the American Coal Ash Association (ACAA) has been the leading voice for the beneficial use of coal combustion products (CCP) in the U.S. The association encourages beneficial use that is protective of the environment, technically appropriate, commercially viable, and supportive of a more

sustainable society. The ACAA membership includes utilities, ash marketers, equipment and material suppliers, engineering consultants and academic interests.

The ACAA conducts an annual survey of the production and use of CCP. This survey is a unique report on trends in beneficial use. It is cited by a wide variety of public and private entities in beneficial use discussions. In the most recent survey for 2017 it was reported that the beneficial use rate has reach a new record – 64.4%.

In partnership with the Center for Applied Energy Research at the University of Kentucky, the ACAA hosts the World of Coal Ash (WOCA). WOCA is the premiere event for the beneficial use industry. In 2019 the event is expected to attract over 1000 attendees with over 250 presentations and more than 100 exhibitors. WOCA 2019 will be held May 13 to 16 in St. Louis, MO. For more information, visit the ACAA website at www.acaa-usa.org.

Thank You 35th Anniversary Program Sponsors!



® Boral is an international building products and construction materials group with three strong divisions: the high-performing, well-positioned construction materials business of Boral Australia; USG Boral, a fast-growing plasterboard joint venture in Asia, Australia and the Middle East; and Boral North America, a scaled and growing building products and fly ash business. Employing more than 25,000 employees and contractors, Boral's operations span 850 building and construction materials operating and distribution sites globally.

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The Consortium for Clean Coal Utilization at Washington University in St. Louis is dedicated to addressing the scientific and technological challenges of ensuring that coal can be used in a clean and sustainable manner.

