

Boucher Introduces Legislation To Accelerate Availability Of Carbon Capture and Storage Technology

U.S. Representative Rick Boucher (D-VA) recently introduced bipartisan federal legislation to advance the development and deployment of carbon capture and storage (CCS) technologies. CCS is a method of reducing greenhouse gas emissions by capturing and injecting underground the carbon dioxide emitted from electricity generation plants that use fossil fuels. Boucher is joined in the sponsorship of the bill by Rep. Fred Upton (R-MI), Rep. John Dingell (D-MI), Rep. Joe Barton (R-TX), Rep. Nick Rahall (D-WV), Rep. Ed Whitfield (R-KY), Rep. John Murtha (D-PA), Rep. Jerry Costello (D-IL), Rep. Tim Holden (D-PA), Rep. Earl Pomeroy (D-ND), Rep. Artur Davis (D-AL), Rep. Mike Doyle

(D-PA), Rep. Baron Hill (D-IN), Rep. G.K. Butterfield (D-NC) and Rep. Charlie Wilson (D-OH).

The legislation would establish a \$1 billion annual fund, derived from fees on the generation of electricity from coal, oil and natural gas. Grants from the fund will be awarded to large-scale projects advancing the commercial availability of CCS technology.

"Coal is America's most abundant domestic fuel, and today, coal accounts for more than one-half of the fuel used for electricity generation. Given our large coal reserves, its lower cost in comparison with other fuels, and the inadequate availability of fuel alternatives, preservation of the ability of electric utilities to continue coal



Rick Boucher

use is essential. The legislation introduced today addresses this clear need by enabling electric utilities that use coal to have the continued ability to do so when a mandatory program is imple-

mented to control greenhouse gas emissions," Boucher said.

According to Boucher, if severe emissions reduction requirements are imposed before the carbon capture and storage technologies are available, the result would be a rapid switch from coal to other fuels. Such fuel switching would significantly increase electricity prices to the detriment of both residential and industrial electricity consumers. Fuel switching from coal would most likely result in far greater uses of natural gas for electricity generation, severely stressing an already constrained natural gas supply and dramatically increasing natural gas prices.

"Today 58% of U.S. homes are heated with natural gas, and numerous industries are

heavily reliant on it. If large scale switching by utilities from coal to natural gas occurs, tens of millions of Americans would experience deep economic pain, and many domestic industries would be dislocated. The early arrival of CCS is essential to prevent this economic disruption in a carbon constrained economy," Boucher said.

While some commercial CCS projects are in operation, they are small in scale and have the purpose of enhancing oil recovery. Further research, development and demonstration is necessary for the permanent storage underground of large quantities of CO2 in a variety of storage media in widely dispersed locations around the nation. Carbon con-

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Coal Industry Can Begin Deploying CCS Technology Now

Milton Catelin, CEO, World Coal Institute, recently addressed the Platts Carbon Industry conference attendees in Copenhagen and stated that carbon capture and storage technology has developed to the point where it can now deliver up to 55% of the emission reductions needed to fight global warming worldwide up to 2100.

There is "no solution to climate change without CCS" and—combined with coal-fired power plant operational efficiency improvements—the tech-



Milton Catelin

nology is ready for wide-scale deployment in the EU, US and elsewhere as a means of combating climate change, Catelin said in a presentation at Point Carbon's Carbon Market Insights 2009 conference in Copenhagen.

"The belief in WCI is that the [CCS] technology is ready now. We have all the technology we need to build CCS power projects. There are, of course, first of a type, but we expect the efficiency of the units to improve dramatically after the first tranche of power plants,"

Catelin said.

Catelin, whose group is the world's leading non-profit organization funded by the coal industry, also said the potential leakage risk from deep saline basins and other types of CO2 emissions storage sites in places like the Middle East is less than 1% and that, according to the International Energy Agency, there is a potential global storage capacity of as much as 9,000 gigatonnes in deep saline basins alone.

But many experts contend

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Coal Leader Legal News

Always Act Innocently

By: Helena Racin-Smith

Napier & Associates, P.S.C.

It may seem like ridiculous legal advice to instruct a client to act "innocently," but in mineral trespass cases, mining innocently equates to saving real dollars.

In Kentucky, the measure of damages for willful trespass to minerals is the full sales value of the coal, without deduction for mining expenses; meaning, a trespasser must not only disgorge all profits, but he must also suffer all of the mining and processing costs. See *Bowman v. Hibbard*, 257 S.W.2d 550 (Ky. 1953); see, e.g., *Lebow v. Cameron*, 394 S.W.2d 773, 776 (Ky. 1965). Further, when a court imposes the hefty willful trespass damages, it pays no regard to whether the property owner is able to mine the coal themselves.

Now that we realize large

sums of money are involved, we should determine how we can protect ourselves by mining innocently. Under Kentucky law, a willful trespasser knowingly and willfully encroaches or enters upon another's land and takes his minerals without color or claim of right, or dishonestly, or in bad faith, mines another's minerals and converts them to his own use. *Swiss Oil v. Hupp*, 69 S.W.2d 1037, 1041 (Ky. 1934). One must perpetrate a willful trespass in a spirit of wrongdoing with the knowledge that it was wrong. See *Id.* When a court reviews such an allegation, regard must be had to conditions as they appeared at the time, rather than as disclosed in a light cast backwards. See *Id.*

But an innocent trespasser encroaches under color of right or in good faith by mistake. *Id.* The most commonly recognized distinction between the



Helena Racin-Smith

two classes of trespass is that an innocent trespasser believes he is right while a willful trespasser knows he is wrong. See *Lebow v. Cameron*, 394 S.W.2d 773 (Ky. 1965). For the *Lebow* court, the question was if the trespass was "perpetrated in the spirit of wrongdoing, with knowledge that it was wrong, or if it was done under a bona fide

mistake." Kentucky courts have continually stated that "a willful trespasser knows he is wrong; and an innocent trespasser believes he is right." *Lebow*, at 776.

Interestingly, receiving lawyers' advice, even incorrect advice, may help the company to prove its innocence. In fact, in *Lebow v. Cameron*, 394 S.W.2d 773 (Ky. 1965), *Lebow* learned of *Cameron's* color of title but relied upon its Counsel's advice that it was inferior before proceeding under his lease. *Lebow*, 394 S.W.2d at 777. The *Lebow* court stated, "[w]e think it may not be challenged that there was a 'reasonable doubt' as to the validity of *Cameron's* claim, in face of the court decisions in this very lawsuit. We conclude, therefore, that *Lebow* was an innocent trespasser." *Id.* Likewise, in *Swiss Oil v. Hupp*, a trespasser who acted upon

reputable counsel's opinion regarding legal issues over which the layman could hardly have knowledge was deemed to be no worse than an "innocent" trespasser. *Swiss Oil*, 69 S.W.2d at 1041-2.

Another noteworthy aspect of this area of Kentucky law is that if the property owners confirm that they are not coal miners and have no ability to mine the coal themselves for a profit, and the company is found to have innocently trespassed, the property owners are entitled only to the customary and reasonable royalty for the coal. See *Bowman v. Hibbard*, 257 S.W.2d 550, 552 (Ky. 1953) (citing *Hughett v. Caldwell County*, 230 S.W.2d 92, 96 (Ky. 1950)). Therefore, in order to save your company real money in mineral trespass litigation, take the attorney's advice and always act innocently!

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Editorial

The Coal Prep and Aggregate Processing Conference & Exposition is later this month in Lexington, KY. The Show is dedicated to coal preparation industry. Coal Leader will be there, stop by and visit booth 321.

Coal preparation is important as steam coal users require optimum calorific value, consistent grind ability, minimal moisture and ash variability. The metallurgical coal

customers require a higher degree of product consistency to maximize coke yield, coke strength, and ultimate maximum hot metal production and quality.

The goals for coal preparation are to reduce coal preparation costs and improve quality as well as to produce a low sulfur coal product.

The Eastern Coal Council is celebrating its 30th anniversary this year. The organization began

in 1979 to provide education and public awareness program about coal. There are six primary functions of the Eastern Coal Council and its members:

- 1) To INFORM the general public about coal and its importance to America's future energy plans, policies, and programs;
- 2) To EDUCATE the general public, elected officials (federal, states, and regional) about the importance of coal; to provide educational programs for teachers by co-sponsoring the "Project Coal To Electricity: Teaching Environmental Issues" program with Virginia Tech's Powell River Project and Education Center. The program covers the "Standards of Learning." Those participating receive a certificate for 40 contact hours of professional development awarded at completion of program.
- 3) To PROVIDE information and data relating to the coal industry in the eastern part of the United States to local, state, and federal governments and their agencies and other interested parties;
- 4) To ASSEMBLE, gather, and

compile statistics and accurate/concise information for the newsmedia and leaders of the business communities;

- 5) To SPONSOR programs, seminars, projects, and activities to help the public learn more about coal and the coal industry; and
- 6) To PROMOTE the utilization of coal and clean coal technologies.

Today the Coal Council is working with the U. S. Department of Energy, Southern States Energy Board, Virginia Tech, West Virginia University and other organizations promoting the latest clean coal technologies. The Eastern Coal Council is leading a grassroots program about carbon, capture and storage.

Coal is the backbone of the U.S. power generation, providing more than 50% of electricity production while complying with stringent environmental regulations. Coal is the nation's most abundant and cost effective energy resource. We have enough domestic coal reserves and existing technologies to transform coal into transportation fuels to displace foreign im-

ports. The U.S. has produced more than one billion tons of coal annually for each of the last 14 years and the nation's appetite continues to grow as more and more items are requiring electricity. Approximately two-thirds of today's coal production results from surface, rather than underground, mining. Mountaintop mining in Appalachia contributes approximately 10 percent of all coal mined in the U.S. and is roughly 40 percent of the coal mined in West Virginia and Kentucky. After the land is reclaimed it offers beneficial opportunities to the communities and citizens, yet there are groups that continue to resist coal. Hopefully, as we move forward with our grassroots program the general public will learn more about the important role coal plays in this country's economical growth. Using coal to generate clean electricity can play a major role in keeping the United State stable and strong.

We look forward to seeing you at these upcoming shows and meetings.

Coal Leader

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Barbara F. Altizer.....barb@coalleader.com.....Publisher & Managing Editor
Marsha Presley.....marsha@coalleader.com.....Office Manager & Editor
Martin A. Snyder.....msnyder65@verizon.net.....Advertising Sales Manager
Robert Fields.....robertfields@coalleader.com.....Web Master
Editorial Content.....Eastern Coal Council Directors

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Phone: 276-864-8363 or Fax: 276-864-8342

E-Mail: coalleader@coalleader.com WEBSITE: www.coalleader.com



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version technology also exhibits promise with the ability to convert CO₂ into an environmentally harmless form. The new fund will finance research on various methods of capturing CO₂ from the combustion process and establish the reliability of conversion or storage in multiple storage sites.

"Some think power from coal is the dreary past and our energy future is all sun, wind, geysers, trash and tides," Barton said. "Maybe, but not yet. When working families are paying electricity bills so high they look like house payments, we in Washington can't afford to put our country's least expensive and most available energy off limits."

"Carbon-capture technology is reaching maturity, and it offers the promise right now of affordable power. This bill can make a real difference in the daily lives of people who work for their living and strain to pay their bills, and I'm going to help get it passed," Barton said.

"In order to successfully address climate change, we need an inclusive approach. Coal will be a part of any serious discussion. Coal is not, however, without its drawbacks, mainly that it is a major emitter of greenhouse gases. For that reason, we must invest in carbon capture and storage technology. China and India's reliance on coal makes the need for this technology that much greater. I am pleased to join Representative Boucher in this critically important effort," Dingell said.

"In our quest to reduce greenhouse gas emissions and protect the environment, we must promote clean coal technologies that will not only keep costs down for consumers, but also foster new jobs and a strong economy. These technologies exhibit great promise, and in encouraging advancements in carbon capture, we'll be able to responsibly fortify our nation's energy supply with American-made energy and protect the pocketbooks of our nation's working families. We have a clear choice – pursue reckless policies that will bankrupt America's working families and eviscerate our economy – or pursue sound policies that will improve our environment, preserve the integrity of our economy, and keep costs down for consumers," Upton said.

"The U.S. needs to rapidly advance research into, and development and deployment of, carbon capture and sequestration technologies. To achieve that, the small-scale work currently occurring must be ramped up and enlarged. Advances in CCS will help to ensure the continued use of abundant domestic coal and the employment of our miners, while providing affordable energy in an age of growing concern about climate change," said Rep. Nick J. Rahall (D-WV), Chairman of the House Natural Resources Committee.

"Coal is one of the most plentiful energy resources we have, generating half of the electricity we use," said Murtha. "This bill creates a mechanism to rapidly deploy large scale carbon capture projects which will allow us to burn coal cleanly, wean ourselves from foreign energy sources, and keep electricity prices low. In turn, this will strengthen America's coal industry while protecting our environment."

"Coal is not only our nation's most abundant energy resource, but an important part of our economy, particularly in my home state of Kentucky. Eliminating coal from our energy portfolio is neither practical nor prudent. By advancing Carbon Capture and Storage technology and deployment we can ensure an environmentally responsible role for coal in our energy future," said Whitfield.

"The full development of CCS technologies is a national priority, and this legislation will allow us to maximize our domestic coal resources while keeping energy bills affordable for consumers," said Costello. "Coal will continue to play a significant role in our national energy plans and CCS will let us use it cleanly while creating jobs."

Resenting two thirds of the nation's fossil fuel-based delivered electricity, the Corporation would be established and would be authorized to collect assessments from retail customers of fossil based electricity. The Corporation will be operated as a division of the Electric Power Research Institute and would assess fees totaling approximately \$1 billion annually. These monies would then be used by the Corporation to fund the large scale demonstration of CCS

technologies in order to accelerate the commercial availability of the technologies. The fee to be collected would represent an increase of approximately \$10-12 annually for the average residential consumer of fossil fuel based electricity.

"Bill Creates \$1 Billion Annual Fund to Bring Cutting Edge Clean Coal Technologies to Market"

The legislation enjoys wide industry support:

"We wholeheartedly support this legislation because it will allow our nation to responsibly address climate change by developing the technology needed to stabilize greenhouse gas emissions both here in the U.S. and around the world. America must be a leader in developing and implementing CCS technology and this legislation will enable us to do that. Passage of this bill is critical for all Americans, including those who mine the coal that produces the energy needed to meet our nation's current and ever-increasing demands," said Cecil Roberts, President of the United Mine Workers of America.

"The technology funding envisioned by this bill will put America on the road to reducing greenhouse gas emissions while protecting our economy with an affordable and secure energy source for American households and businesses," Hal Quinn, president and CEO, National Mining Association.

"The electric utility industry has committed itself to achieving dramatic reductions in greenhouse gas emissions. To do this will require that all technology options—including carbon capture and storage—reach commercialization," EEI President Tom Kuhn said. "Congressman Boucher's bill recognizes this need and the important role coal plays in providing low-cost electricity to millions of Americans, businesses and industrial customers. We need a steady stream of fund-

ing to attract investors and make carbon capture and storage mainstream technology options.

Congressman Boucher's bill is critical to helping utilities make the transition to a carbon-constrained future."

"On behalf of the National Association of Regulatory Utility Commissioners (NARUC), I would like to thank Representative Boucher for his leadership on the development and deployment of Carbon Capture and Storage (CCS) technology by introducing the Carbon Capture and Storage Early Deployment Act. As Congress considers options to limit the nation's carbon dioxide emissions, we recognize that without commercially viable CCS facilities, the economic impact – particularly on electricity ratepayers and the electric utility industry – will be dramatic. NARUC supports the Carbon Capture and Storage Early Deployment Act as introduced," said Frederick F. Butler, President of NARUC.

"Thank you, Representative Boucher, for your vision and courage in addressing the issue of utilizing coal as part of the nation's future energy portfolio. This abundant resource is critical to meeting our increasing energy needs and economic prosperity, as the nation addresses the threat of global climate change. We look forward to working with you to ensure passage of this most important legislation," Butler continued.

"In this bill, Representative Boucher recognizes the importance of carbon capture and storage technology to the nation's economy and energy security," said Michael G. Morris, Chairman, President and Chief Executive of AEP. "The bill provides funding for development and commercial deployment of technology necessary for the nation to meet commitments to reduce greenhouse gas emissions, filling what we consider to be a significant void in other climate legislation. Representative Boucher's efforts to address greenhouse gas emissions from coal will bring more cost-effective options for meeting climate goals."

"As the saying goes, a vision without resources is a hallucination—and we simply cannot address climate change without new and creative ways to fund

advanced technology that can capture carbon dioxide from coal power plants and sequester it safely underground," said Duke Energy CEO Jim Rogers. "I congratulate Congressman Boucher for his proposal and encourage all members of Congress who want to go to work on climate change to support this legislation."

"The Carbon Capture and Storage Early Deployment Act is an essential step forward to advance new technologies to address global climate change by reducing carbon emissions, promoting domestic energy sources and protecting consumers. Dominion strongly supports this legislation," said Thomas F. Farrell, II, Chairman of Dominion.

"If we are to continue to meet rising electricity demand and reduce greenhouse gas emissions, it is essential that we develop and deploy new clean coal generation technologies," said David Ratcliffe, Chairman, President and CEO of Southern Company. "I applaud Congressman Boucher for taking a leadership role by introducing this legislation, which will provide a practical mechanism to fund the research and development initiatives necessary to do so."

"A challenge facing policy makers today is how to achieve the greatest reduction in carbon emissions with the least impact to the economy. Breakthrough technology is vital to our ability to maintain a diverse fuel supply and lower greenhouse gas emissions while maintaining a reliable electric system. Congressman Boucher's bill recognizes the importance of aligning reduction targets with technological advancements, and I commend him for his leadership on this issue," said Bill Johnson, Chairman, President and CEO of Progress Energy.

"SRP supports the intent of legislation introduced by Congressman Rick Boucher to accelerate development of commercial scale technology to control greenhouse gas emissions. We believe the best interest of our customers can be best served by the proposed public-private partnership and funding formula," said Dick Silverman, CEO of Salt River Project.

DOE Lauds Successful U.S. - U.K. Collaborative Effort

The U.S. Department of Energy (DOE) has announced numerous accomplishments coming out of a multi-year collaboration in the area of advanced materials research between the United States and the United Kingdom.

Researchers from DOE's Office of Fossil Energy, the United Kingdom's Department of Energy and Climate Change, and representatives from academia and industry have been collaborating over the past five years in an attempt to develop a better understanding of advanced materials, a key prerequisite to achieving the targets of any future energy policy. "The success of the US-UK collaboration demonstrates the

power of international cooperation in energy research and development," said Dr. Victor K. Der, Acting Assistant Secretary for Fossil Energy. "Sharing data, facilities, and experiences has accelerated the development of high-temperature materials solutions, paving the way for advanced coal power generation."

Highlights of the multi-year collaboration include:

- Formation of new steam oxidation testing facilities and models;
- Development of comprehensive high-temperature corrosion data and technology evaluation for boilers;
- Quantification of the effects of contaminants on gas turbines

*"Five-Year
R&D
Partnership
Leads to
Numerous
Accomplishments
&
Goals"*

and the ranking of alloy and coatings that could be used in future gas turbine systems;

- Development of standardized data collection, exchange, analysis and storage methods to facilitate the effective use of research data;
- Evaluation and demonstration of methods and technologies for the use of oxide dispersion strengthened alloys in future high-temperature power plants; and
- Demonstration of virtual plant simulation technology to aid in the design and effectiveness of advanced fossil energy power generation systems.

Stringent environmental and efficiency targets will necessitate the development of more

advanced materials and components, systems, manufacturing methods, and improved life assessment methods. The impact of changes such as fuel type, plant operating cycles/environments, and the introduction of CO2 capture technology will also place severe demands on the materials and components used in power plant equipment.

The US-UK effort stems from a 2003 energy R&D agreement between the two nations and is one of many international partnerships through which the Office of Fossil Energy is working to promote and develop cleaner, efficient and cost-effective fossil energy technologies.

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UMWA Statement Regarding EPA Action on Mountaintop Removal Permits

United Mine Workers of America (UMWA) International President Cecil E. Roberts issued the following statement recently regarding the scope of the Environmental Protection Agency's (EPA) actions with respect to the approval of mountaintop removal permits apparently was not the full story. The UMWA said it was pleased to see the EPA's clarification issued shortly after the original statement, which said that the agency 'is not halting, holding or placing a moratorium on any mining permit applica-

tions.'

"What EPA did was to comment on two pending surface mining permit applications. EPA indicated that it would be reviewing other applications, but also said that it 'fully anticipates that the bulk of pending permit applications will not raise environmental concerns.' That's a very important statement, one that everyone involved should pay attention to.

"We have requested a meeting with Director Jackson of the EPA so that we can get direct clarification from her as to what

EPA's stance is regarding the pending permits. We have many members whose jobs are



related to surface mining, and we believe it is important for the lines of communication to be completely open between us and the administration so that the confusion and anxiety created by yesterday's initial

reporting do not happen again.

"We also look forward to continuing our discussions with the Obama administration regarding the critical need to fund and develop innovative technologies to allow the United States to continue using its most abundant energy resource - coal. The funding included in the stimulus package for developing carbon capture and storage technology, as well as the moves toward reversing the previous administration's cancellation of the FutureGen project, are good first steps.

"America's coal miners and the coal they mine have been and will continue to be the foundation upon which our nation's manufacturing and energy industries are built. The work they do provides not just the power we all need to light and heat our homes and keep our computers running, but also to provide a decent living for their families and economic growth for their communities.

"We will continue to do all we can to support their jobs, their families and their communities.

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2009 Coal Prep Largest Show Ever

Sam Posa, Exhibit Sales Manager, Coal Prep Show said "this is the largest show ever, we have over 250 exhibitors."

2009 Coal Prep is Monday, April 27 through Thursday, April 30. Throughout its history, Coal Prep has offered the most comprehensive educational program on coal preparation technology. It offers attendees information from industry experts, leading plant managers, superintendents, engineers, maintenance professionals, and quality control profes-

sionals. The 2009 conference will feature a strong focus on the issues that count, including:

- Plant Automation & Control
- Flowsheet Development Strategies for Plant Modifications or New Plants
- Maintenance
- Application of New Chemicals and Equipment
- Clean coal Technology

Luke Popovich, Vice President-Communication, National Mining Association will be the keynote speaker, Tuesday, April 28 at 9:00 a.m.



Luke Popovich

The theme for Luke's remarks is, "The Changing Political Landscape in Washington and the Potential for the U.S. Coal Industry."

The National Mining Association (NMA) is the voice of the American mining industry in Washington, D.C. NMA is the only national trade organization that represents the interests of mining before Congress, the Administration, federal agencies, the judiciary and the media.

opportunity to get the latest industry-specific information and see the latest products in action. The exhibit floor, combined with the conferences and workshops, serve as a powerful means for keeping coal prep and aggregate processing professionals informed on the latest industry trends and developments. Register today.

Be sure and stop by booth 321 and meet Coal Leader's staff.

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Restoring the Legacy Surface Mine Reclamation will Play an Important Role in American Chestnut Recovery

By: Jon Lawson, Ecologist
VA Department of Mines,
Minerals & Energy, Division
of Mined Land Reclamation

A high school biology student, in Dickenson County, Virginia, standing on a reclaimed surface mine with a one-year old American Chestnut seedling symbolize the culmination of 25 years of research from The American Chestnut Foundation's staff. Twenty five years of research has helped transmit blight resistance through several generations of backcrossed trees. The American Chestnut Foundation's (TACF) staff members like Dr. Fred Hebard and Dr. Bob Paris have been the driving force behind the science and it is about to pay off.

Backcrossing is the process of crossing American Chestnuts with the blight-resistant Chinese chestnut to get a hybrid that has the positive characteristics of each species. In this case scientists are attempting to breed in the growth and strength of the American chestnut, while singling out the blight resistant gene of the Chinese. The process is tedious, the first generation is a half American, half Chinese cross, and then you must wait for those trees to mature and to cross the hybrid with the American chestnut again to make an American chestnut dominant species. The process will continue until a species is available that is 31/32nds American chestnut and only 1/32nd Chinese.

"Currently, in 2009, we are working with our third backcross, which is exciting because the data leads us to believe that the fourth generation backcross will be 'woods ready'" stated Dr. Hebard while he addressed 230 High School students in preparation of an Arbor Day event.

Dr. Hebard was speaking to a group of young men and women that have only heard the stories told by their grandparents about the majestic chestnut trees that once dominated Appalachian forests. It



dominated until the chestnut population was decimated by an airborne fungal blight that was brought into New York from trees imported from Asia. Today, only a few small groves of mature American Chestnuts exist. However, he motivated the students by giving them hope that one day their grandchildren will be able to walk in the forest amongst the giant chestnuts.

OSM Forester Patrick Angel says, "For an ecologist, forester, or general outdoor enthusiast, chestnut restoration is about the most exciting thing going. No where else on earth has there been a more large scale effort undertaken to recover a species."

Additionally, to successfully grow chestnut seedlings into viable, mature trees it is going to take a lot of open land within the tree's native range. Luckily, the coalfields encompass most of this range and with reforestation happening daily on reclaimed sites the partnership between the mining industry and TACF fits like a hand and a

glove. While researchers are hard at work developing the backcrossed seedlings, mine operators and regulators have been planting pure American Chestnuts with some natural blight resistance on surface mined land to determine how to best allow the trees to thrive. Pure chestnuts planted now are likely to blight within the next decade but planting and moni-



American Chestnut

toring them during that time span will provide useful knowledge and experience when the time to plant fully resistant seedlings comes.

"Joint ventures between the coal industry and TACF, like Operation Springboard, are the best opportunity to get the mission accomplished," says Bryan Burhans, TACF President.

Operation Springboard 2009 teams the Appalachian Regional Reforestation Initiative (ARRI) and TACF to offer American chestnut seedlings to volunteer surface mine operators and abandoned mine land project planners. This effort will be used to determine the suitability of various sites for future chestnut plantings. If the Operation Springboard 2009 pure stock seedlings can thrive on your mine site, it is reasonable to expect successful establishment of hybrid chestnuts when they become available.

"Mined land soils are often perfectly suited for American Chestnuts. The trees prefer moderately acid, well-drained

soils with plenty of sunshine. Plus no other group has the chance to reforest as many acres as the mining industry. It makes for a good partnership," President Burhans continued. Other partnerships include planting chestnuts on National Forest land in Tennessee, Virginia, and near the new headquarters of The American Chestnut Foundation in Asheville, North Carolina. Plus volunteers from groups like the National Wild Turkey Federation have pledged to plant blight resistant chestnuts.

One drawback is that most previously forested sites require time, money, and manpower for site-preparation and spending money away from the research is often not feasible. Once again, surface mined land is often better suited to use for trials including researching the best on-the-ground conditions with less capital invested. With ARRI concepts and the forest reclamation approach the uncompacted growth medium and lack of competitive vegetation can really benefit young chestnut seedlings.

Working together operators and TACF can bring back the American chestnut and the history books will chronicle every step and partnership along the way.

The goal of The American Chestnut Foundation is to restore the American chestnut tree to its native range within the woodlands of the eastern United States, using a scientific research and breeding program developed by its founders. The American Chestnut Foundation is restoring a species - and in the process, creating a template for restoration of other tree and plant species.

To find out more on the progress of The American Chestnut Foundation and its research, log on to their website at www.acf.org. If you are interested in planting chestnut seedlings on your reclaimed sites contact your state's contact regarding Operation Springboard 2009 for more details.

Eastern Coal Council Celebrates 30th Anniversary!



The EASTERN COAL COUNCIL is a membership organization of industries, businesses, universities and colleges, researchers, scientists, educators, and elected officials who have joined together for the purpose of promoting coal. The Coal Council was created in 1979 to highlight the coal, rail and power industries through education and public awareness programs.

The Coal Council plays a leading role in promoting coal as the best fuel choice for meeting America's energy future. Coal is an abundant and natural resource, and this country has enough coal to provide for its energy needs for centuries to come. Thanks to new technologies coal remains the best fuel choice. The Eastern Coal Council serves as a "chamber of commerce" for the energy industries, and is working with U.S. Department of Energy,

Southern States Energy Board,

VirginiaTech, West Virginia University, and others on developing carbon capture and storage technology. The ECC is working with the U. S. Department of Labor and several states workforce consortiums to attract young people into the energy workforce. There is a critical shortage of skilled workers in the energy field within the eastern part of the United States.

For more information or to join the Eastern Coal Council's endeavors, call or visit the website:

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*Gary Trump, Director of Coal Preparation
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*Allan Pollastrini, Maintenance Supervisor
Eastern Associated Coal, Fairview, WV*

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Coal Leader Coal Industry News

WCI Letter in The Economist - The Benefits of CCS

Milton Catelin, Chief Executive, World Coal Institute based in London wrote letter to the Economist about CCS.

Your leader on carbon capture and storage (CCS) claimed that "the world is investing too much cash and hope" in the technology in the expectation of delivery from global warming ("The illusion of clean coal", March 7th). Science informs us that climate change is a serious issue and requires serious funding in all low-carbon technologies: renewables, energy efficiency, nuclear and CCS.

The United Nations Intergovernmental Panel on Climate Change maintains that CCS could contribute 56% of all emission reductions by 2100 and reduce the cost of stabilizing carbon dioxide by more than 30%. The International Energy Agency says that stabilizing emissions without CCS is not only impossible but raises costs by over 70%, an additional annual cost of \$1.28 trillion by 2050.

The technology is ready and public investments in CCS represent excellent value for money. Europe will need to spend €13 billion-18 billion (\$17 billion-24 billion) a year to meet its renewables targets. The lifetime costs of the European Union's CCS demonstration plants are €5 billion-13 billion. Yet one large-scale CCS power plant can supply the equivalent low-carbon electricity of 1,400 wind turbines.

The truth is the world is investing far too little in CCS and other low-carbon technologies. Investments in these areas are not an act of faith, but an environmental imperative.

Dominion Names Groups That Will Constitute Its Newly Formed Alternative Energy Solutions Unit

Dominion (NYSE: D) announced recently the three groups constituting its newly formed Alternative Energy Solutions unit.

The unit will be composed of three groups: financial analysis, policy and business evaluation, and research and program development. The latter will house a renewable energy group and conservation and load management (CLM) group.

Earlier this year Dominion announced formation of the Alternative Energy Solutions unit. The unit will provide technology research to support Dominion business units, identify business opportunities, participate in the nation's energy policy development process, and provide an information- and idea-sharing forum within the company on conservation and load management and renewables.

Thomas F. Farrell II, chairman, president and chief executive officer, said: "We expect this new group to be at the forefront of Dominion's efforts to assess the commercial and financial viability of a growing number of emerging new energy technologies. For long-term success, Dominion intends to be positioned at the cutting edge of any new technologies. We plan to harness the full potential of alternative energy as it matures to commercial viability and gains prominence in the operating, political, regulatory and policy arenas."

Leading the group is Mary C. Doswell, senior vice president-Alternative Energy Solutions. She will report directly to Farrell.

The Alternative Energy Solutions unit will research new technologies including, but not limited to, "smart grid" technologies, distributed generation, hybrid vehicles, and electric storage technology. The unit will also study new technologies related to renewable energy sources such as solar, wind, tidal, biomass and geothermal. Farrell said that new technologies deemed to hold commercial promise will be referred by the Alternative Energy Solutions unit to the appropriate Dominion operating companies for operating assessment and implementation.

Dominion is one of the nation's largest producers and transporters of energy, with a

portfolio of more than 27,000 megawatts of generation, 1.2 trillion cubic feet equivalent of proved natural gas and oil reserves, 14,000 miles of natural gas transmission, gathering and storage pipeline and 6,000 miles of electric transmission lines.

Peabody Energy Announces Long-Term Coal Supply

Peabody Energy (NYSE: BTU) recently announced it has entered into long-term coal supply agreements for more than 90 million tons of coal, which will allow development of the Bear Run Mine in Sullivan County, Indiana.

Bear Run will be the largest surface coal mine in the Eastern United States, with expected capacity of approximately 8 million tons of coal annually. The mine will initially supply two major Midwestern electricity generators under long-term contracts with terms of up to 17 years, which together are expected to generate nearly \$6 billion in revenues.

"Long-term coal demand continues to grow. We are the largest producer and reserve holder in the Illinois Basin, which is one of the fastest-growing coal regions. We are pleased to be partnering with our customers to meet their energy needs and develop a major new coal mine," said Peabody Chairman and Chief Executive Officer Gregory H. Boyce.

"Peabody's history as a reliable supplier of affordable fuel, combined with our leading production and reserve position and financial strength, provided us the opportunity to secure some of the largest coal supply agreements in Peabody's history and develop this world-class operation to serve growing customer needs."

The Bear Run operation will commence in the second half of this year, and is expected to produce 2 to 3 million tons in 2010 and ramp up thereafter. Approximately \$350 to \$400 million in capital will be invested over several years to bring the mine to its 8 million ton per year capacity. Bear Run will employ approximately 350 skilled work-

ers and would annually contribute approximately \$140 million in regional economic benefits.

"Coal is the key to American energy independence and to the affordable power in which Indiana's future prosperity depends. This is great job news in the near and long term," said Indiana Governor Mitch Daniels.

Peabody Energy (NYSE: BTU) is the world's largest private-sector coal company, with 2008 sales of 256 million tons and \$6.6 billion in revenues. Its coal products fuel 10 percent of all U.S. electricity generation and 2 percent of worldwide electricity.

WVU Experts Meet with Chinese Coal to Liquids Leaders

Seven officials from China's leading research and corporate energy organizations met recently with West Virginia University faculty and U.S. Department of Energy and National Energy Technology Laboratory leaders to discuss advances in converting coal to transportation fuels while capturing and storing carbon dioxide emissions.

The meeting was organized by the U.S. China Energy Center, a program of the National Research Center for Coal and Energy (NRCCE) at WVU. The Shenhua Group in China is developing the world's first commercial direct coal liquefaction (DCL) plant in northwestern China at a cost of about \$1.5 billion. With support from the U.S. Department of Energy, WVU and Shenhua Group have been evaluating the economic and environmental impacts of the DCL technology.

While commercial coal to liquids processes exist, those processes are known as indirect coal liquefaction and require breaking down coal into molecules of carbon monoxide and hydrogen which are building blocks that are then processed into diesel fuel. Direct coal liquefaction processes attempt to bypass the breakdown of the coal into such small molecules to make liquid fuels directly.

Jerald Fletcher is director of the U.S. China Energy Center at WVU. He and research assistant professor Qingyun Sun of the Natural Resource Analysis Center at WVU will be assessing the economic and environmental impacts of the plant and analyzing the technology transition. Information gained by the researchers will be shared with those in the U.S. to help promote the transfer clean coal technologies.

"Converting coal to transportation fuels in an environmentally safe way requires knowledge from many different kinds of experts," Fletcher said. "Faculty from the departments of Chemical Engineering, Geology and Geography, Mechanical and Aerospace Engineering, and Resource Management have been part of an agreement to discuss various aspects of coal to liquids with our guests."

WVU has been working with the U.S. Department of Energy and the China National Development and Reform Commission under an agreement known as the Protocol on Cooperation in the Field of Fossil Energy Technology Development and Utilization since 2002.

"Even with oil at about \$40 per barrel we need to consider the long-term ability to provide a sufficient source of liquid fuels on a global scale, including alternative means such as coal to liquids," Lowell Miller, director, of the US DOE Office of Sequestration, Hydrogen, and Clean Coal Fuels said. "Under our agreement, we're helping the Chinese acquire environmental expertise on carbon dioxide capture and storage to address climate concerns."

The Chinese are helping us gain economic and environmental data and operating experience in regard to building and running a novel coal to liquids plant not seen before. This information could be very helpful to the U.S. if we were ever to build a similar plant here," Miller said. Wu Xiuzhang, deputy chief engineer for the Shenhua Group lead the delegation from China.

Coal Leader Education News

Arch Coal Foundation Recognizes 16 Utah Teachers With Golden Apple Certificates

The 2009 Golden Apple recipients are:

Karen Bedont	Lighthouse Life & Learning Center	Price
Terry Steven Bikakis	Mont Harmon Junior High	Price
Victoria Brandt	South Sanpete Young Women Empowerment Center	Manti
Dorothy (Sue) Douglas	Pahvant Elementary School	
Richfield		
Bradley James Eichelberger	Manti High School	Manti
Layne Ned Hales	San Rafael Junior High School	Ferron
Karen A. Hansen	Gunnison Valley Middle School	Gunnison
Roma Knight	Ashman Elementary School	Richfield
Lori Labrum	Cottonwood Elementary School	Orangeville
Vicki Lynn Rasmussen	Cleveland Elementary School	Cleveland
Daniel Rasmussen	Manti Elementary School	Manti
Tara Syme	North Sanpete Middle School	Moroni
Terri Tubbs	Carbon High School	Price
Gerald Wayman	Manti High School	Manti
Terri Lyn Williams	Salina Elementary	Salina
Cathy Anne Wilson	Helper Junior High	Helper

School District, Emery County School District, Sevier County School District, North Sanpete School District, South Sanpete School District, Far West Bank, radio stations KMTI, KLGL, KMGR, KSVC, KCYQ, KOAL, KARB, KRFX, and both TacoTime and Bookcliff Sales in Price.

The Arch Coal Foundation also is a supporter of teacher recognition or grant programs in West Virginia, Wyoming and Colorado, as well as a number of other education-related causes.

Arch Coal is Utah's largest coal producer and a large, state employer with a workforce of approximately 800. Through all its operations, Arch Coal is one of the nation's largest coal producers. The company is listed on the New York Stock Exchange (NYSE: ACI) and maintains its corporate headquarters in St. Louis, Mo. **d**

Arch Coal Foundation Recognizes 16 Utah Teachers With Golden Apple Certificates. Sixteen outstanding classroom teachers in the Helper Utah area were awarded Arch Coal Golden Apple certificates by the Arch Coal Foundation, according to Wess Sorensen, general manger of Skyline mine.

"These Golden Apple certificate recipients are obviously superior classroom teachers," said Sorensen. "The public should nominate these teachers again next year. The judging was so close that several of the applicants' scores were within a percentage point of the Arch Coal Teacher Achievement Award recipients."

"The judges, most of them previous recipients of the Teacher Achievement Award, were extremely complimentary of the applications that were received this year," said Sorensen. "Apparently, the

judges had a difficult task because of the quality of the applications."

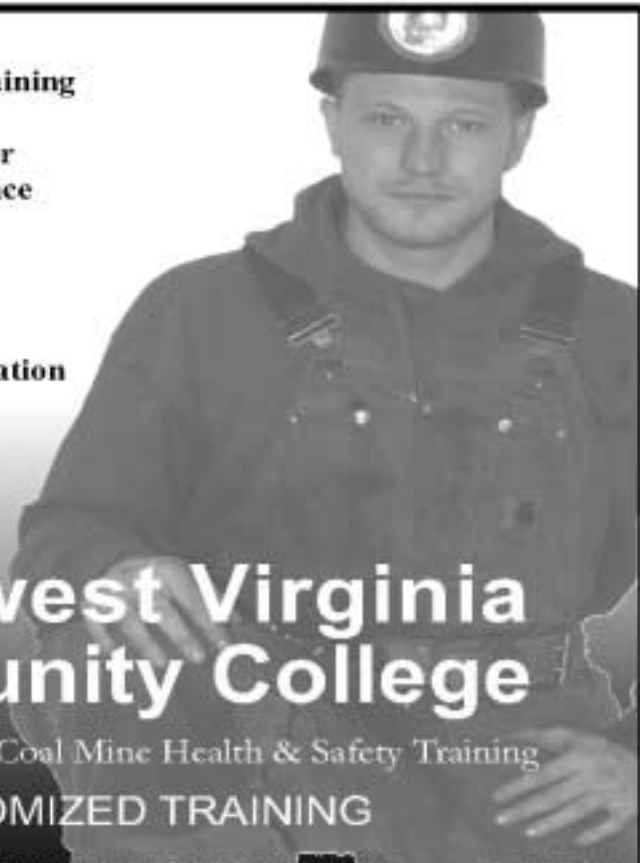
Almost 200 nominations were received from the public this year for the awards. This is the third year for the Arch Coal Foundation's teacher recogni-

tion program, which is conducted in Sevier, Sanpete, Emery and Carbon counties. These counties surround the Dugout Canyon, Skyline and Sufco mines, operated by Canyon Fuel Company, a subsidiary of major U.S. coal producer Arch

Coal, Inc.

Partners for the program's third year included the Office of Governor Jon Huntsman, Utah State Office of Education, Utah Education Association, Utah School Superintendents Association, Carbon County

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Virginia Tech's Powell River Project Research & Education Center & Eastern Coal Council Present

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Wise, Virginia

This program addresses the "Standards of Learning" for third, fourth, fifth, sixth, seventh, and Earth Science teachers.

The program is for educators who are interested in teaching awareness and understanding of electricity, and its relationship to coal. The program provides participants with hands-on activities. Participants will be awarded a Certificate of Participation for forty (40) contact hours.

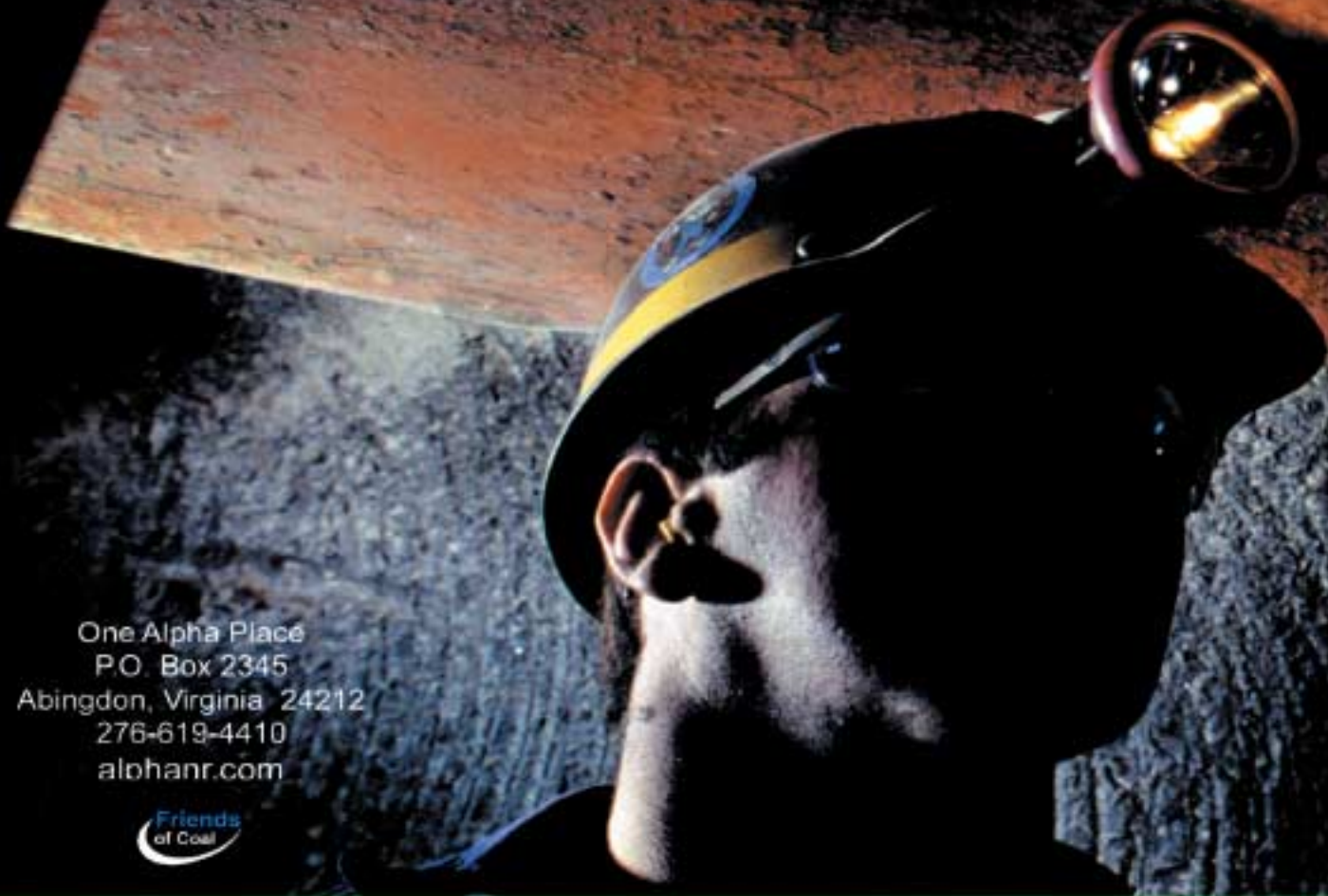
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U.S. EPA Lists Nett Technologies' BlueMAX 200SCR System as Emerging Technology

The U.S. Environmental Protection Agency (EPA) has placed Nett Technologies Inc.'s BlueMAX™ 200 urea-based selective catalytic reduction (SCR) system on the National Clean Diesel Campaign's Emerging Technologies List. The system is approved for use on a project funded through the Emerging Technologies grant program for on-highway, 4-stroke, non-EGR, heavy heavy-duty diesel engines originally manufactured from 1994 through 2006 and not originally equipped with a catalyst.

Nett's BlueMAX™ 200 SCR system is designed to effectively control nitrogen oxides (NOX) emissions from heavy-duty diesel engines. The system uses a urea control strategy that relies on a NOX concentration measurement by a

sensor positioned upstream of the SCR catalyst. Based on the NOX sensor signal, in combination with an engine mass air flow sensor and temperature sensor, the necessary urea dosing rate is calculated by the control algorithm. The NOX sensor-based control strategy makes the system very suitable for retrofit applications. No time-consuming calibration (such as through engine mapping) is necessary, and the system can be installed on a wide range of diesel engines, including mechanical engines. The Nett BlueMAX™ 200 SCR system also controls diesel particulate matter (DPM), hydrocarbons (HC) and carbon monoxide (CO).

Nett is known for its ability to provide direct-fit solutions through an integrated approach

"The system uses a urea control strategy that relies on a NOX concentration measurement by a sensor positioned upstream of the SCR catalyst"

of application engineering and manufacturing. The Nett BlueMAX™ 200 SCR system is offered as a direct-fit design; this simplifies the installation and offers a customized cost-

effective solution to a sophisticated emission control problem. Information on the EPA's Clean Diesel Emerging Technologies Program The Clean Diesel Emerging Technologies Program is an opportunity to advance new technologies to reduce diesel emissions from the existing fleet. Funding under this program is now available for the second year of emerging technologies. Eligible entities include: U.S. regional, State, local, tribal or port agencies or non profit groups related to transportation or air quality. School districts, federally recognized Indian tribes, municipalities, metropolitan planning organizations (MPOs), cities and counties are all eligible entities under this program.

The use of retrofit technologies is 100% funded under this

program. The National Emerging Technology RFA closes on May 5, 2009. For more information visit: <http://www.epa.gov/otaq/diesel/prgemerg.htm>

Nett Technologies Inc. is located in Mississauga, Ontario, Canada, the company specializes in emission control products for engines, vehicles, and machinery used in the mining, material handling and construction industries. The wide range of products available from Nett includes catalytic converters for diesel, natural gas, LPG, and gasoline engines, diesel particulate filters, and fume diluters. For more information visit: <http://www.nett.ca>

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Steel Imports Drop 9 Percent

Based on the U. S. Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of March totaled 1,416,000 net tons (NT). This was a 15 percent decrease from the 1,661,000 permit tons recorded in February 2009, and a 9 percent decrease from the February preliminary imports total of 1,553,000 NT. Import permit tonnage for finished steel in March was 1,353,000

NT, a decrease of 6 percent from the preliminary imports total of 1,443,000 NT in February. March 2009 total and finished steel import permit tons would annualize at 21,348,000 NT and 19,812,000 NT, down 33 and 24 percent, respectively, from the 31,927,000 NT and 25,956,000 NT imported in 2008.

In March 2009, the largest finished steel import permit applications for offshore countries were for China (155,000 NT), South Korea (126,000 NT), Japan (113,000 NT), India

(93,000 NT) and Turkey (77,000 NT). Cumulative tonnage from the top three offshore suppliers (China, South Korea and Japan) accounted for 31% of all finished imports in March. Finished steel import market share in March is estimated at close to 30%, remaining at an elevated level in comparison to recent annual import totals.

"In the midst of a severe global recession, the underlying foreign government policies and practices that have severely disrupted world steel markets

continue unchanged. Especially at this time of economic crisis, it is critical that we remain vigilant against any unfair trade surges in the U.S. market," Thomas J. Gibson, president and CEO of the American Iron and Steel Institute, said, commenting on the March 2009 import data.

AISI serves as the voice of the North American steel industry in the public policy arena and advances the case for steel in the marketplace as the preferred material of choice. AISI also plays a lead role in the

development and application of new steels and steelmaking technology. AISI is comprised of 24 member companies, including integrated and electric furnace steelmakers, and 138 associate and affiliate members who are suppliers to or customers of the steel industry. AISI's member companies represent approximately 75 percent of both U.S. and North American steel capacity.

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Alpha Natural Resources Completes Accounts Receivable Securitization Facility

Alpha Natural Resources, Inc. (NYSE: ANR) has completed an accounts receivable securitization program, authorized for up to \$85 million of funding. Alpha intends to use the facility both for obtaining standby letters of credit and working capital draws. Previously, letters of credit were issued under Alpha's revolving credit facility, which reduced the

company's borrowing capacity under that facility. Pittsburgh-based PNC Bank, National Association, is serving as both administrator and letter of credit bank.

"This facility provides another method of managing Alpha's working capital in a way that provides optimum benefits to the company," said Eddie Neely, Alpha's chief financial

officer. "Importantly, it also enhances our already strong liquidity position. As of the end of the first quarter this year, cash balances of more than \$705 million and available funds under our revolving credit facility put our total liquidity at over \$1 billion."

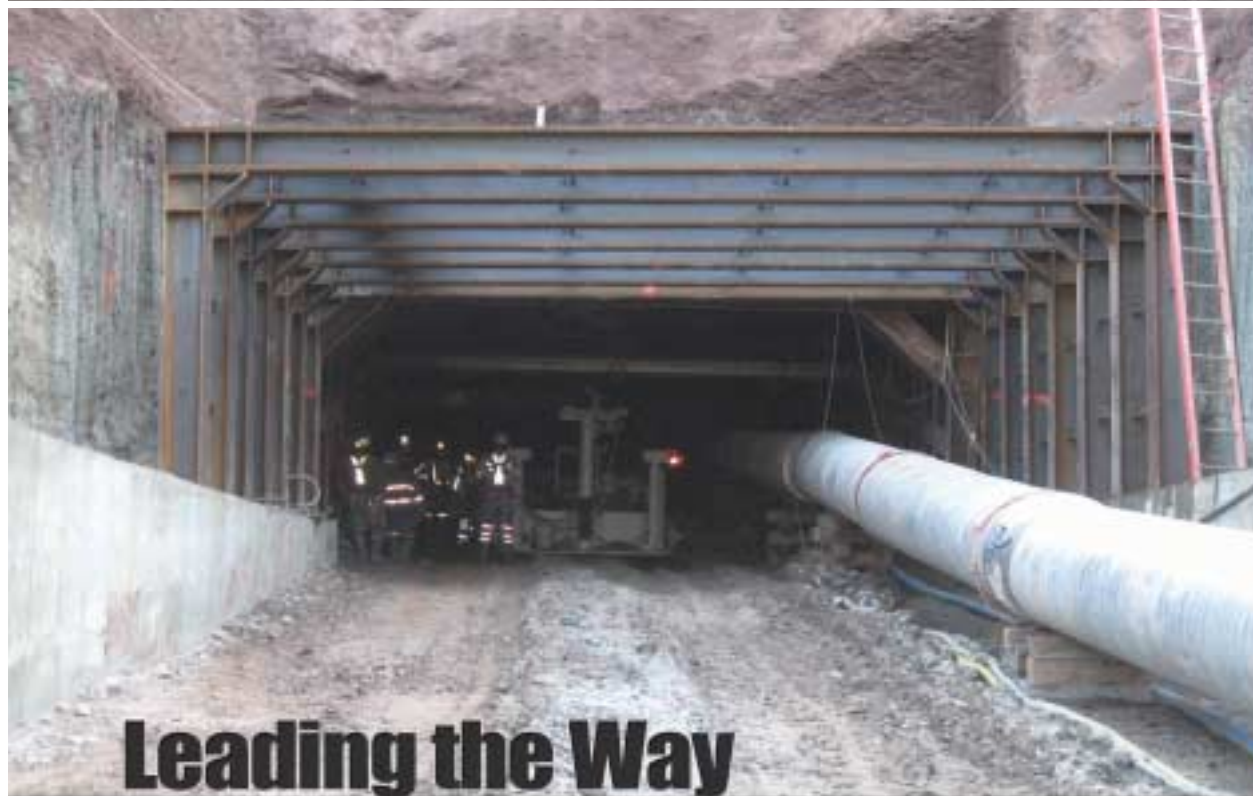
Last month, Alpha also received an upgrade to BB- on both its corporate credit rating

and senior secured credit facilities from Standard & Poor's Ratings Services, reflecting the company's strong liquidity position.

Alpha is a leading supplier of high-quality Appalachian coal to the steel industry, electric utilities and other industries. Approximately 88 percent of the company's reserve base is high Btu coal and 83 percent is low

sulfur, qualities that are in high demand among electric utilities which use steam coal. Alpha is also the nation's largest supplier and exporter of metallurgical coal. Alpha and its subsidiaries currently operate mining complexes in four states, consisting of 59 mines supplying 10 coal preparation and blending plants.

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CSXT Announces 2008 Chemical Safety Excellence Award Winners

CSX Transportation (CSXT) recently announced the winners of its annual Chemical Safety Excellence Award (CSEA), an award that reflects each winning company's commitment to rail car maintenance and safety as well as continuous safe tank car loading.

For 2008, CSXT is recognizing 64 shippers. To be eligible for the award, each company must ship 600 or more railcars per year on CSXT and have no non-accidental releases during the entire year. Shippers include companies from the Chemicals, Fertilizer, Emerging Markets, Agriculture and Metals Merchandise commodity markets. One hundred CSX shippers are eligible to receive the award.

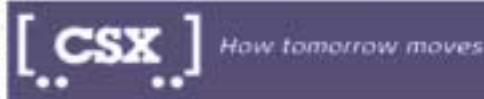
"Throughout the challenging economic environment these CSEA winners have remained focused on the safe loading and unloading of their fleet, and maintaining their fleet in safe working condition. Recent legislation and regulations mean

more scrutiny on chemical shipments than ever before," said Dean Piacente, vice president-Chemicals & Fertilizer. "Our employees and customers know that Safety is a Way of Life at CSX, and the CSEA winners continue to display their industry leadership and unwavering commitment to safety as demonstrated by a year free of releases."

Clarence Gooden, executive vice president and chief commercial officer, will attend the award ceremony, along with Piacente and Skip Elliott, vice president-Public Safety & Environment. The ceremony will be held in Atlanta today, April 1. The attendees will hear from CSX's senior management team about CSXT's numerous safety initiatives, including investments in advanced technology and track defect detection. In addition, participants will be treated to a tour of CSXT's state-of-the-art Rail Education and

Development Institute (REDI) Center Training facility where the company trains hundreds of employees each week.


The winners for 2008 are:



Abengoa Bioenergy Operations, Air Products & Chemicals, Inc., Airgas Carbonic, Arizona Chemical Company, Aux Sable Liquid Products, BASF Corporation, Bayer Material Science LLC, BP Amoco Chemical Company, BP-Dome Petroleum, Calumet Lubricants, Canexus, Celanese Corporation, CF Industries Inc., Chemtrade Logistics, Inc., Chevron Products Company, CHS Inc. Renewable Fuels Marketing, Clean Harbors Environmental Services, Cytec Industries, Inc., Dow Corning Corporation, Eastman Chemical Company, Eka Chemicals, ExxonMobil Chemicals

Federated Co-operatives Limited, Flint Hills Refinery, Georgia Gulf Chemicals & Vinyls, LLC, Hawkeye Renewables and Hawkeye Growth, Husky Marketing and Supply Company, Imperial Oil Chemical, INEOS Nova LLC, INEOS Phenol, INEOS USA LLC, International Chemical Company, International Commodities Export Corporation, Kemira Finchem, Kemira Water Solutions, Kinetic Resources (LPG), Koppers, Inc., Lansing Ethanol Services, LLC, M H F Logistical Solutions, MarkWest Hydrocarbon, Inc., Marysville Hydrocarbon, Inc., Methanex Methanol Company, Military Surface Deployment and Distribution Command, Moose Jaw Asphalt, Inc., Nan Ya Plastics Corp., Noble Americas Corp./Iroquois Bio-Energy Company, Nucor Steel Corporation, NuStar Marketing, LLC, Oxy Vinyls LP, Plains LPG Services, L.P., Praxair, Inc.,

Reagent Chemical and Research, Inc., Rohm & Haas Company, SABIC Innovative Plastics US, Shell Canada Energy, Solutia, Inc., Taminco Methylamines, Inc., Targa Midstream Services, The Dow Chemical Company, United Refining Company, Valero Marketing and Supply, Inc., VeraSun Marketing LLC, Westlake Chemical Corporation, WRB Refining LLC.

CSX Corporation, based in Jacksonville, FL, is a leading transportation company providing rail, intermodal and rail-to-truck transload services. The company's transportation network spans approximately 21,000 miles with service to 23 eastern states and the District of Columbia, and connects to more than 70 ocean, river and lake ports. More information about CSX Corporation and its subsidiaries is available at the Company's web site, www.csx.com. 

World Coal Institute Cont from Page 1

that CCS storage capacity is a moot point if coal-fired power plants equipped with the technology are not built near basin sites that can hold the amount of gas being produced, and that governments will have to build costly pipelines as a means of indirectly funding low-emissions electricity production.

Catelin said CCS pipelines are "a major area of concern" and are an area where "major government action" is needed. "Pipelines in Europe will need to cross national borders with a spine running down Europe connecting with smaller feeder pipes. But this is not unusual, this is what happens in the gas industry at the moment and oil industry," he said. "It's going to require government subsidies."

Catelin, however, said he believes the costs will be worth it. "If I find anything frustrating it's that governments for 15 to 20 years have been telling us what a crisis climate change is,

When the financial crisis comes along, they discover trillions of dollars to invest in the banks," he said. "If climate change is a crisis, government should be investing a fraction of that in climate change, and maybe if we had a fraction of the money we have today to spend then on climate change we wouldn't have a climate change problem."

Catelin also said he is satisfied with EU efforts to date to fund development in CCS technology as the US government was set to do last year through the FutureGen power project, which was eventually killed by the US Energy Department due to spiraling costs. "The EU is already doing FutureGen-like projects ... they're a FutureGen equivalent," he said.

"What happened to FutureGen wasn't an accounting error. I believe it was a decision by an energy secretary in the United States to kill a project he didn't like because he was a nuclear

enthusiast," Catelin added in reference to a recent US Government Accountability Office report that concluded the Bush administration miscalcu-



lated FutureGen's expected costs. "I think FutureGen will now go ahead. I think [Obama administration advisor] Carol Browner ... has been told to make FutureGen a reality, and I think Europe is doing the right thing in agreeing to start up 10 to 12 [CCS] demonstration projects."

Catelin also said that while the US "has everything ready to go" in the international race to win the near-zero CO2 emissions power plant competition, he said China will likely be the successor in creating the first


viable plant and that companies and the Chinese government will take the lead in sharing high-end CCS technology with the rest of the world. "For years we've been talking about exporting technology to China, and we may be in a position in Europe of being supplicants and asking for technology from China," he said.

The World Coal Institute (WCI) is a non-profit, non-governmental organization of coal enterprises and associations - the only international body working on a worldwide basis on behalf of the coal industry. Objectives

The objectives of WCI are to:

- Deepen and broaden understanding amongst policy makers and key stakeholders of the positive role of coal in addressing global warming, widespread poverty in developing countries, and energy security.
- Assist in the creation of a political climate supportive of action

by governments to include:

- (1) Carbon capture & storage (CCS) in climate mitigation strategies and plans;
 - (2) Clean coal technologies (CCT) in environmental strategies;
 - (3) Coal to liquids technologies (CTL), with CCS, in energy security considerations; and
 - (4) Coal in national and regional energy portfolios.
- Inform and educate communities of the benefits of coal, the contribution that can be made through CCS and CCT, and the constructive role played by the coal industry in improving its environmental performance, and strengthening social and economic development.
 - Support improved performance in mine safety globally. 

First U.S. Large-Scale CO₂ Storage Project Advances

Drilling nears completion for the first large-scale carbon dioxide (CO₂) injection well in the United States for CO₂ sequestration. This project will be used to demonstrate that CO₂ emitted from industrial sources - such as coal-fired power plants - can be stored in deep geologic formations to mitigate large quantities of greenhouse gas emissions.

The Archer Daniels Midland Company (ADM) hosted an event April 6 for a CO₂ injection test at their Decatur, Ill. ethanol facility. The injection well is being drilled into the Mount Simon Sandstone to a depth more than a mile beneath the surface. This is the first drilling into the sandstone geology since oil and gas exploratory drilling was conducted between 15 and 40 years ago. No wells within 50 miles have been

drilled all the way to the bottom of the sandstone, which the storage well will do.

The project is funded by the Department of Energy (DOE) and the Illinois Department of Commerce and Economic Opportunity.

"This test represents an exciting step forward in the Department's collaborative efforts to develop America's carbon sequestration capabilities," said Dr. Victor K. Der, Acting Assistant Secretary for Fossil Energy. "In Decatur, we're moving from theory to application."

A collaboration between ADM and the Midwest Geological Sequestration Consortium (MGSC), the injection test is part of the development phase of the Regional Carbon Sequestration Partnerships program managed

by the National Energy Laboratory (NETL) for the Department of Energy's Office of Fossil Energy (FE).

The project will obtain core samples of the Mount Simon

*"One Million
Metric Tons of
Carbon to be
Injected at
Illinois Site"*

Sandstone during drilling that will be used in analysis to help determine the best section for injection. The sandstone formation is approximately 2,000 feet thick in the test area.

From 2010 to 2013, up to one

million metric tons of captured CO₂ from ADM's ethanol production facility in Decatur will be injected more than a mile beneath the surface into a deep saline formation. The amount of injected CO₂ will roughly equal the annual emissions of 220,000 automobiles.

Following injection, the site will be monitored to ensure safe and permanent storage of the CO₂. Results of the project will provide important information on the future of carbon sequestration as a viable option for CO₂ storage.

The geology at the ADM site can be compared to a stack of rugs. Each rug represents a different geologic layer, such as sandstone, shale, dolomite, anhydrites, etc., that all have different characteristics. The layers have been deposited over millions of years.

The Office of Fossil Energy launched the Regional Carbon Sequestration Partnership initiative in 2003 to determine the best approaches for capturing and permanently storing gases that can contribute to global climate change. MGSC is one of seven regional partnerships created by the DOE to advance carbon sequestration technologies nationwide. Drilling operations to construct the injection well were started in February 2009.

MGSC is led by the Illinois State Geological Survey, the Indiana Geological Survey, and the Kentucky Geological Survey, in cooperation with government and other energy industry partners. This project is expected to create nearly 250 full-time jobs which will be supported throughout the project's life of more than ten years. *d*

CONSOL Energy Operations Receive Safety Awards

Two of CONSOL Energy Inc.'s (NYSE:CNX) mining operations in West Virginia have been recognized for their outstanding safety efforts.

The Mountaineer Guardian awards were presented this month during the West Virginia Coal Association's 36th annual Mining Symposium in Charleston, West Virginia.

Blacksville #2 Mine in Monongalia County received the 2008 Eustace Frederick Milestones of Safety Award which is given to the industry's safest underground operation, while CONSOL's Peach Orchard Preparation Plant in Clay County was given a Mountaineer Guardian Award for outstanding safety achievement in preparation plant operations.

The Peach Orchard plant's 76 employees worked 166,554 man hours with a zero accident rate.

"We are very proud of the safety accomplishments achieved at both locations. Their commitment to working safely and productively is recognized



CONSOL Energy Peach Orchard Plant employees, from left, Bill Westfall, Stanley Gould, Larry Neff and Superintendent Wayne Keener display the Mountaineer Guardian Award the Peach Orchard Plant earned earlier this month recognizing the plant and those who work there for a zero accident rate.

through these awards. These employees pride themselves in working towards the goal of ZERO accidents each day," said Lou Barletta, CONSOL

Vice President of Safety. The West Virginia Office of Miners' Health, Safety and Training and the West Virginia Coal Association (Mining and

Reclamation Association) established the Mountaineer Guardian Safety Awards Program in 1983 as a joint effort to promote safety in the coal-

fields of West Virginia. This special program gives recognition to mining workplaces where employees have accumulated qualifying amounts of production without experiencing a fatal accident. Mining Operations are divided into categories, based on the number of employees. Inspectors for the West Virginia Office of Miners' Health, Safety & Training nominate companies who they feel have achieved a balance of production and safety.

CONSOL Energy Inc., a high-Btu bituminous coal and coal bed methane company, is a member of the Standard & Poor's 500 Equity Index and has annual revenues of \$3.7 billion. CNX Gas is the leading E&P Company in the Appalachian Basin.

CONSOL has 17 bituminous coal mining complexes in six states and reports proven and probable coal reserves of 4.5 billion tons. *d*

Coal Leader Product News

Jenmar Offers Advanced Ground Control Engineering

Keystone Mining Services is the engineering affiliate company of Jenmar Corporation that oversees research and development. KMS conducts extensive ground control engineering for Jenmar.



KMS has made improvements to its computer modeling packages, including primary and supplemental bolting, pillar design, optimum longwall orientation and mining sequence, and seam interaction stresses.

The ultimate goal of Keystone Mining Services and Jenmar is to utilize existing and new products and advanced ground control engineering to improve mine safety and productivity.

NEW Bucyrus VAST™ Shovel Simulator Delivers Cost Effective Operator Training!

Bucyrus International, Inc. announced the introduction of the new VAST™ System (Value Added Simulation Training) specifically for Bucyrus electric mining shovels. VAST™ is designed to reduce training costs, increase productivity, and improve training effectiveness. Studies have shown that new operators who receive training with VAST™ prior to field training consistently maintain a higher level of productivity than those who do not receive simulator training. The VAST system has a low cost to purchase and operate; all that is needed is the VAST software, an updated Windows based PC, a monitor, and two joysticks.

VAST™ gives an introduction to the basics of safe, productive shovel operation and also serves as refresher training for more seasoned operators. Simulator users are placed at the controls of a Bucyrus shovel in a virtual mine and interact with a simulated haul truck. The VAST™ system

contains a total of 8 different training modules including: Control Familiarization, Shovel Positioning, Following Grade, Cab-side Dumping, Blind-side Dumping, Single-pass Digging, Cab-side loading, and Blind-side Loading. Simulator results can be saved in a database and reviewed by the user and training instructor only.

AMR's Tagging & Tracking Approved

AMR's Tagging and Tracking System has been approved under the State of WV Legislative Rule Title 58, Series 4.

The Tagging and Tracking System allows mine operators to track the movement of individuals and equipment in the mine continuously and receive messages from underground.

The system design consists of an active tag attached to the miner's helmet or mine equipment and readers placed in selected zones throughout the mine. The miner can send coded messages to the surface through the smart tag.

The Two-Way Text Messaging Device will meet the 2009 requirements by allowing the miner to compose, send, receive, and save messages through a handheld RF device. Not only will this device provide two way communications but it will also provide memory for safety measures, mine directions, and contacts.



Both systems will work in conjunction with our existing atmospheric monitoring system or as a stand-alone system. We hope that our systems will provide a step forward in enhancing mine rescue efforts as well as become an essential in taking the safety of your miners to the next level.

For more information or to schedule a demonstration at your location, contact Amanda Ruble 278-928-1712 ext. 221 aruble@americanminere-

search.com or visit www.americanmineresearch.com.

FLEXCO INTRODUCES THE ELECTRIC BELT CUTTER

Flexco is pleased to announce the introduction of its Electric Belt Cutter. It has been engineered to provide quick and easy cuts on all types of belting from the softest of natural rubbers to the hardest constructed solid woven PVC and fabric plied belts.



The Electric Belt Cutter is available in two sizes and specifically designed to allow the end user to cut belts quickly and safely resulting in less conveyor downtime, and overall increased productivity. The EBC1 Electric Belt Cutter is capable of cutting a rubber belt up to 1" (25 mm) and up to a maximum 360 P.I.W. (630 N/m) on PVC belts while the EBC2 cuts rubber belts up to 2" (50 mm) and up to a maximum 1140 P.I.W. (2000 N/m) on PVC belts.

Not only is the Electric Belt Cutter much easier and faster than conventional cutters, but it also allows for longitudinal cuts as well as angled cuts.

The high speed, steel blade is dual angled for a smooth, accurate cut and is protected by a spring loaded blade guard for enhanced worker safety.

The sealed ball bearings that support the belt during cutting provide nearly friction free feeding of the cutter on the cutting surface requiring minimal effort by the operator. Its heavy duty stainless steel construction is strong, durable, and corrosion free and the permanently sealed gearbox provides for long lasting, maintenance free

operation. The Electric Belt Cutter can also be easily adapted for either right or left hand operation.

For more information, visit Flexco's website at www.flexco.com, or contact the Customer Service Department, Flexco, 2525 Wisconsin Ave., Downers Grove, Illinois, 60515-4200, USA. Phone (630) 971-0150; fax (630) 971-1180.

Suspended Belt Magnets

Suspended Belt Magnets are constructed with an oversized Plate Magnet. They are designed for suspension above a belt conveyor and are engineered to remove ferrous contaminants from high volume deep burdens. As product passes under the magnet, metal contaminants are drawn out of the material to the face of the magnet. This style of magnet should be installed at the



discharge of the head pulley if possible.

Material will be flowing more freely and can be thrown into the face of the magnet increasing the separation results over an installation that has the magnet suspended over a troughed belt. This can be supplied with a wiper arm or stripper plate to simplify cleaning.

For automated continuous cleaning, a POW-R CLEAN option can be selected which incorporates a set of pulleys, belt, motor, and reducer that travels around the Suspended Belt Magnet discharging metal contaminants automatically.

Suspended Belt Magnets can be installed in an in-line or cross belt configuration. Used in such industries as: feed & grain, concrete recycling, mining operations, municipal recycling, scrap yards, and other recycling and bulk processing industries. For more information contact: Andrea Ezyk, Puritan Magnetics, Inc., 465 S. Glaspie St., Unit B, Oxford, MI 48371 Phone: 248-628-3808; Fax: 248-628-3844 Email:

andrea@puritanmagnetics.com or visit website: www.puritanmagnetics.com

Jenmar Offers Advanced Ground Control Engineering

Keystone Mining Services is the engineering affiliate company of Jenmar Corporation that oversees research and development. KMS conducts extensive ground control engineering for Jenmar. KMS has made improvements to its computer modeling packages, including primary and supplemental bolting, pillar design, optimum longwall orientation and mining sequence, and seam interaction stresses.

The ultimate goal of Keystone Mining Services and Jenmar is to utilize existing and new products and advanced ground control engineering to improve mine safety and productivity.

Cat 854K Wheel Dozer Features Offers New Features

The Caterpillar 854K wheel dozer incorporates innovations to lower engine emissions and boost fuel efficiency, improve reliability and serviceability, and optimize operator efficiency and comfort. Specifically, the 854K uses a highly efficient Cat C32 engine and a new radiator with improved heat transfer capabilities. A variable speed demand fan aids efficiency. For the operator, a new, larger cab includes a trainer's seat, and a new low-effort joystick controls all blade functions.



The 854K replaces the 854G and retains the best features, including the impeller clutch torque converter for superior operator control and optimum power to the ground, lockup clutch for direct drive efficiency, and STIC™ control system for reduced steering and transmission control effort.

**Eastern Coal Council
U. S. Congressman Rick Boucher
Southern States Energy Board
Virginia Center for Coal & Energy Research
Kentucky Coal Academy
Virginia Mining Association**

**Coal Leader
Present**

**30th Annual Conference - Expo & Golf Outing
"Coal: America's Path to Energy Security"
May 11 and 12, 2009
Meadowview Conference Center
Kingsport, TN**

ECC's Celebrates 30th Anniversary



Phil Roe
U. S. House of Representatives



John Zachwieja
Chair-ECC



Shelly Moore Capito
U. S. House of Representatives



Michael Karmis
VA Tech/SECARD



Ted Leonard
ACCCE



Kevin Grutchfield
Alpha Natural Resources



Kenneth Nemeth
SSEB



James Martin
Domerion Energy



Richard Wolfe
Wolfe & Associates



Tom Rappold
Norfolk Southern



Tim Carr
NATCARB



Gerald Hill
SSEB/SECARB



Robert Wright
DOE

NAME: _____
 POSITION: _____
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP: _____
 PHONE: _____ FAX: _____ CELL: _____
 Email: _____

Tour of Eastman Coal Facility for Conference Attendees will be May 11 (Monday) beginning at 11:45 a.m. Tour approximately one hour. Yes () No ()

CONFERENCE REGISTRATION FEES: (Before April 30, 2009)

Conference Registration includes Reception, Breakfast, Luncheon, Breaks, Conference Materials, and tour of Eastman's Coal Facility. Check the appropriate boxes:

_____ Have a Golf Foursome for only	\$400.00	_____ Golf Tournament at Cattails at MeadowView	
(Golf handicap _____)	\$125.00		
_____ ECC Member	\$350.00	_____ Non-Member	\$475.00

CONFERENCE REGISTRATION FEES: (After April 30, 2009)

_____ Golf Tournament at Cattails at MeadowView			
(Golf handicap _____)	\$125.00		
_____ ECC Member	\$425.00	_____ Non-Member	\$600.00

SHOWCASE YOUR COMPANY- Exhibit Space Available

Company Name: _____
 Address: _____ City: _____ State: _____ Zip Code _____
 Name and Position of Person Signing: _____
 Signature: _____
 Telephone: _____ Fax: _____ Cell: _____
 E-Mail Address: _____
 No. Booths (6' x 10') \$500.00 each: _____
****IMPORTANT**** List Equipment - Product Service to be Exhibited: _____

Electricity Needed for Booth? Yes () No ()

All exhibits and exhibitors are subject to the regulations and rules established by the Eastern Coal Council (sponsor). EXHIBIT shall be arranged so as not to obstruct the general view or hide another exhibit. Any product/booth MUST be approved by the Eastern Coal Council Expo Committee. The sponsor will not be liable for loss or damage to the property of the exhibitor or his representative or employee from theft, fire, accident, or other cause. However, exhibit area will be locked when not in use. The sponsor will not be liable for injury to exhibitors, their employees, or third persons, which claims for damages, injuries, etc., may be incident to or arise from, or be in any way connected with their use of occupation of display space. The exhibitor shall indemnify the sponsor for any costs or expense, exclusive of covered loss, arising from any such claim. Exhibitors shall, at no cost to the sponsor, obtain adequate and reasonable liability and property damage insurance from reputable insurance companies. The exhibitor assumes all responsibility for compliance with local, state, and federal ordinances, laws and regulations covering fire, safety and health, and all rules and regulations of the Meadowview Conference Board & Convention Center. PAYMENT IN FULL for all booths must be made by May 5, 2009. For additional information contact Eastern Coal Council.