

APPLICATION

There are two methods to register. Complete this application enclosed with check payable to Eastern Coal Council or register on line at www.easterncoalcouncil.org
There is a \$25.00 non-refundable registration fee.

- Name _____
- Home Address: _____
- City: _____
- State: _____ Zipcode + Four _____
- Home Phone: _____
- Cell Phone: _____
- Personal E-mail Address: _____

- Name of School: _____
- School Address: _____
- City: _____
- State: _____ Zipcode + Four _____
- Grade: _____
- Subject(s) _____
- School E-mail Address: _____

*Final confirmation letters will be distributed beginning
April 15, 2008*

MISCELLANEOUS DETAILS FOR SUMMER PROGRAM:

- Housing is provided in air-conditioned, dorm suites on the campus of The University of Virginia's College at Wise.
- Meals and transportation provided.
- Closed toed shoes and long pants are required for daily field trips; casual dress for evening meals and activities.
- Hard hats and other safety equipment required for particular field trips provided as needed.
- Certificate for 40 contact hours of professional development awarded at completion of program.

SPONSORS

Alpha Natural Resources
Appalachian Power - Carbo Plant
CNX Gas
CONSOL Energy
Dominion Energy
Eastman Chemical Company
Jewell Smokeless Resources
Joy Mining Machinery
Norfolk Southern Corporation
Oliver Coal Sales
Paramont Coal Corp VA LLC
Red River Coal Company
Spectrum Laboratories

Virginia Department of Mines, Minerals & Energy

AGENDA

SUNDAY-13th
2:p.m. to 5:30p.m.
6:00 p.m.

Check-In: Martha Randolph Hall, UVA-Wise
Dinner: Cantrell Hall
Guest Speaker: **Herbert Wheary**, Dominion Energy

MONDAY-14th
7:00 a.m.
7:45 a.m.
8:00 a.m.
8:00 a.m.

Breakfast: Cantrell Hall
TRANSPORATION BUS Will Arrive In Front Of Martha Randolph Hall
Depart for Field Trip (Bus provided Monday – Thursday for all trips)
Tony Scales, Geologist, Virginia DMME
Local geologic structure and its impact on history & coal mining
Jon Rockett, Powell River Project Research & Education Center
Post-mining land use opportunities for economic development
Lunch: PRP-R&EC
Mike Thomas, Red River Coal Co, coal surface mining operations
Dinner: (cook out) at PRP-R&EC
Guest Speaker: **Mike Abbott**, Virginia Department Mines Minerals & Energy

TUESDAY-15th
7:00 a.m.
7:45 a.m.
8:00 a.m.
8:00 a.m.
12 Noon
1:30 p.m.
6:15 p.m.
7:30 p.m.

Breakfast: Cantrell Hall
TRANSPORATION BUS Will Arrive In Front Of Martha Randolph Hall
Depart for Field Trip
Underground Coal Mine – Paramont Coal Corp VA LLC
Lunch at Mine Site
Toms Creek Preparation Plant and Coal Laboratory
Wine Tasting & Dinner, MountainRose Vineyard, Inc (Reclaimed Mine Site)
Guest Speaker: **Tom Rappold**, Norfolk Southern Corporation

WEDNESDAY-16th
6:30 a.m.
7:15 a.m.
7:30 a.m.
9:00 a.m.
11:00 a.m.
1:30 p.m.
2:30 p.m.
3:30 p.m.
7:00 p.m.

Breakfast: Cantrell Hall
TRANSPORATION BUS Will Arrive In Front Of Martha Randolph Hall
Depart for Buchanan County
CNX Gas Tour (Coalbed Methane Gas), Claypool Hill, VA
Consol Energy Buchanan Mine (longwall operation)
Lunch: Buchanan Mine office
Virginia Department Environmental Quality - Air Quality Standards, Jewell Resources Training Center
Jewell Smokeless Coke Ovens
Dinner: Breaks Interstate Park
Guest Speaker: **The Honorable Phillip Puckett**, Virginia Senate

THURSDAY-17th
7:00 a.m.
7:45 a.m.
8:00 a.m.
8:00 a.m.
12 Noon
1:00 p.m.
5:30 p.m.

Breakfast: Cantrell Hall
TRANSPORATION BUS Will Arrive In Front Of Martha Randolph Hall
Depart for Field Trip
Appalachian Power, Carbo Plant (coal-fired electricity generation)
Lunch
Appalachia Power Waste Water Treatment and Ash Fill
Social & Dinner, John Fox Jr. House, Big Stone Gap
Outdoor Drama – Trail of the Lonesome Pine

FRIDAY-18th
7:00 a.m.
8:00 a.m.
8:45 a.m.
11:00 a.m.
1:30 p.m.
3:00 p.m.

Breakfast: Cantrell Hall
Depart for Field Trip (will take personal vehicles)
Joy Mining Machinery Re-build Facility, Duffield, VA
Natural Tunnell tour and Lunch
Eastman Chemical Company's Coal Gasification Plant, Kingsport, TN
Discussion/evaluation of program with teachers
Professional Development Certificates presented

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

14th Annual Field Program
**PROJECT COAL TO ELECTRICITY:
TEACHING ENVIRONMENTAL ISSUES**



VirginiaTech
Invent the Future

Virginia Cooperative Extension
A partnership of Virginia Tech and Virginia State University
www.es.vl.edu



July 13 through July 18, 2008
The University of Virginia's College at Wise
Wise, Virginia

FOR MORE INFORMATION:

Eastern Coal Council
P. O. Box 858
Richlands, VA 24641
PHONE: 276-964-6363
FAX: 276-964-6342

E-MAIL: ecc@netscope.net or barb@netscope.net
Website: www.easterncoalcouncil.org

Project Coal to Electricity: Coal+Power Plants+Technology= Clean, Dependable, and Affordable Electricity

If your teaching assignment includes natural resources this program is for you. Come visit the Appalachian Plateau in far southwest Virginia for a first hand look at local geology, coal mining, reclamation, coal utilization, and some local history.

This program augments and supports 4th, 5th, 6th grade, and Earth Science Virginia Standards of Learning relating to non-renewable resources - rock, coal, and natural gas. There is also ample opportunity to discuss issues relating to two of Virginia's renewable resources - forests and water.

Coal - America's most abundant fuel which is used to produce over 50% of our electricity. This program provides teachers with a first hand look at how coal is extracted at surface and underground mines. Its benefaction to meet client needs. The production of coke for the steel industry and electricity for society.

Virginia Standards of Learning

Virginia Studies

- Connections between Past & Present - VS.1e
- Analyze & Interpret Maps - VS.1i
- Virginia & its Bordering States - VS.2a
- Virginia's Appalachian Plateau - VS.2b
- Influence of Geography on Migration - VS.6c
- Railroads/ Economic Development - VS.8c
- Major Products & Industries in the Appalachian Plateau VS.10b
- Virginia's Prosperity & Role in Global Economy - VS.10c

3rd Grade

- Components of Soil, Origin, & Importance – 3.7a, b, c, & d
- Effect of Human Activity on the Quality of Air, Water, & Habitat – 3.10b
- Conservation & Resource Renewal – 3.10d
- Fossil Fuels and Wood – 3.11c
- Renewable & Nonrenewable Energy Resources – 3.11d

4th Grade Science

- Influence of Human Activity on Ecosystems - 4.5f
- Watersheds & Water Resources - 4.8a
- Minerals, Rocks, Ores, & Energy Sources - 4.8c
- Forests, Soil, & Land - 4.8d

5th Grade Science

- Rock Cycle & Identification of Rock Types - 5.7a
- Earth History & Fossil Evidence - 5.7b
- Weathering & Erosion - 5.7e
- Human Impact - 5.7f

6th Grade Science

- Sun & Formation of most Energy Sources on Earth - 6.2b
- Nonrenewable Energy Sources - 6.2c
- Renewable Energy Sources - 6.2d
- Water for Various Uses - 6.5f
- Protecting & Maintaining Water Resources - 6.5g
- Health of Ecosystems - 6.7a
- Management of Renewable Resources - 6.9a
- Management of Nonrenewable Resources - 6.9b
- Mitigation of Land-Use & Environmental Hazards - 6.9c
- Cost/Benefit Tradeoffs in Conservation Policies - 6.9d

Earth Science

- Maps: Geologic & Topographic - ES.3a
- Imagery - ES.3b
- Renewable & Nonrenewable Resources - ES.7a-e
- Plate Tectonics: Cumberland Over-Thrust Block - ES.8a-c
- Dependence on Freshwater Resources & Effects of Human Usage on Water Quality - ES.9e
- Ancient, Often Extinct, Life Preserved by Various Means in Sedimentary Rocks - ES.10a

2007 CLASS VIEW:

- *This has been an incredible & unforgettable experience.*
- *This was the best, most enjoyable, organized conference and most informative activity I have ever attended! Thanks!!*
- *Overall this was an excellent program, one that I think all people, not just teachers, should have to experience. It really was an eye opening experience.*
- *Jon and Barbara were wonderful hosts who were very knowledgeable about the coal industry and history of south west VA. The program was well organized and very informative! All of the companies that we visited were very enthused and accommodating.*
- *This, by far, has been the most informative and ENJOYABLE week of training I've ever had (including military).*
- *This was a great program informative, interesting, and a thoroughly educational experience.*
- *Wonderful program!!! I really enjoyed the program and it will definitely help me reach my students and inform them about the importance of coal to the nation and state.*
- *The educational resource materials provided by Joy were just what was needed.*
- *The whole program has been totally enlightening. A better understanding of the whole coal mining/mountain culture has been reached. Meals and programs have been exceptional!*
- *This is the best program I have ever participated in! Thank you!*
- *I greatly appreciate the time & effort you both have put into helping us be better teachers.*
- *The flow & order of events as the week progressed built on each other. Thanks for helping me be a better teacher.*
- *Thank you for an amazing unforgettable week! The evening activities were unexpectedly wonderful as well as each presentation! This workshop far exceeded my expectations! It has been an invaluable experience!*