



PETROLEUM TECHNOLOGY TRANSFER COUNCIL

Focused Technology Workshop

Central Kentucky Outcrop Analog for Trenton/Black River Dolostone Reservoirs ***Final Project Review and Core Workshop***

June 1, 2005

8:30 AM – 3:30 PM

**Kentucky Geological Survey
Core and Sample Library,
Lexington, KY**

Hosts

**PTTC Appalachian Region
The Kentucky Geological Survey,
University of Kentucky
and**

**The Kentucky Oil and Gas
Association**

Dave Harris, Workshop Coordinator

Upper Ordovician carbonates (Lexington Limestone and the High Bridge Group) outcropping in central Kentucky are equivalent to the Trenton Limestone and Black River Group in the Appalachian Basin. Dolomite has replaced the host limestone adjacent to faults in some outcrops. These exposures provide valuable data for understanding dolomitized natural gas reservoirs in equivalent units in New York, Ohio, Michigan, and Ontario.

This workshop will present the results of research on the dolostone outcrops funded by the New York State Energy Research Development Authority (NYSERDA), the U.S. Department of Energy, and Columbia Natural Resources. This project, conducted at the Kentucky Geological Survey and University of Kentucky, has involved petrographic, geochemical and seismic interpretation of several dolostone bodies. A 1,000 ft long continuous core was drilled into the largest dolostone body and through the bounding fault zone. The core contains the entire Lexington, High Bridge, Wells Creek and St. Peter Sandstone intervals. Specific topics will include:

- Presentations summarizing results of petrographic and geochemical work on the central Kentucky dolostone bodies.
- Presentation of shallow high resolution p-wave and shear wave seismic data over dolostone bodies.
- Examination of a 1,000 ft continuous core drilled through the Stoner Branch dolostone body, Kentucky River Fault Zone, into the Knox Group.
- Comparison of dolomitization style in the Lexington Ls (Trenton) at the "lightbulb"

and the younger Calloway Creek Ls (Stoner Branch locality).

- Seismic and well-log interpretation of an anomalous high-porosity zone in the Black River in Clinton County, south-central Kentucky.
- We will offer an optional field trip to the tectonic dolostone outcrop localities near Winchester, Kentucky on Thursday June 2, if there is sufficient interest.

The workshop is being held prior to the **2005 Annual Kentucky Oil and Gas Association (KOGA)** meeting in Lexington. If you are not playing golf, plan on attending both meetings! For more information on the KOGA meeting on June 1-3, please visit the KOGA website at <http://www.kyoilgas.org> or call (502) 226-1955.

Instructors

Dave Harris (*Kentucky Geological Survey*)
Marty Parris (*Kentucky Geological Survey*)
Bill Reid (*University of Kentucky*)
Paul Lake and John Hickman (*Kentucky Geological Survey*)

**Registration: \$60.00, includes workshop
notes, breaks, and lunch**

Hotel Information

The closest hotel is the **Four Points Sheraton Hotel** (859) 259-1311; \$75 plus tax (1938 Stanton Way). Please mention the University of Kentucky for the listed rate.

Holiday Inn North, 1950 Newtown Pike (at exit 115 from I-75/I-64). The rate is \$69 plus tax. Please call (859) 233-0512 and mention the PTTC workshop for reservations.

Embassy Suites (859) 455-5000 (Aristides Blvd., off Newtown Pike). Please call the hotel for rates.

Date/Time

June 1, 2005

Registration/Coffee 8–8:30 AM,
Workshop 8:30 AM — 3:30 PM

Location

Kentucky Geological Survey Core and
Sample Library
Research Park Dr., Lexington, KY
859-389-8810

Professional Development Hours

PTTC will award PDH credits upon
completion of this workshop. Certifi-
cates of completion will be given to
each participant, with the schedule on
the reverse side for authentication.

For More Information**Contact**

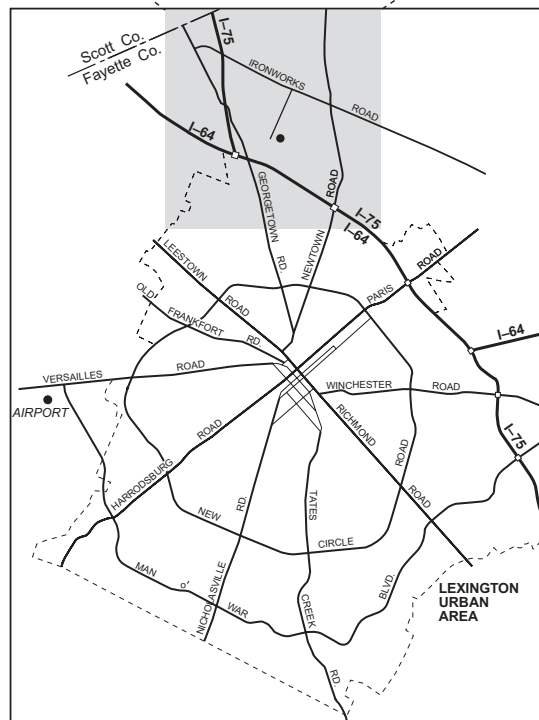
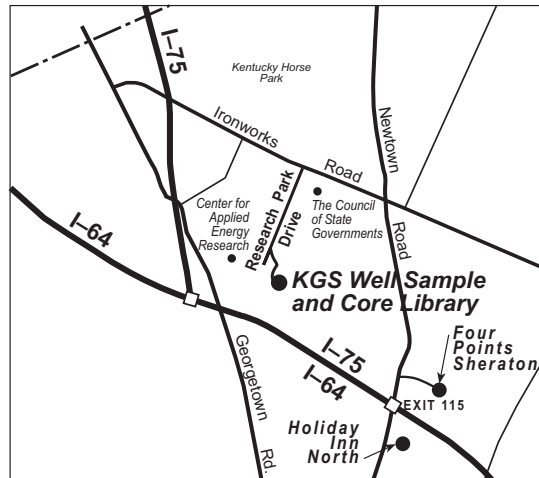
Geaunita Caylor,
(859) 257-2820, gcaylor@engr.uky.edu

or

Dave Harris
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dcharris@uky.edu

If you wish to receive notices of future
PTTC activities via email, please send a
message to: avary@geosrv.wvnet.edu

**PTTC gratefully acknowledges
that its primary funding comes
through the U.S. Department of
Energy's (DOE) Office of Fossil
Energy through the Strategic
Center for Natural Gas & Oil
(SCNGO) within the National En-
ergy Technology Lab (NETL).**



KGS Well Sample and Core Library location map.

ADVANCE REGISTRATION FORM**PTTC Focused Technology Workshop –
June 1, 2005**

To register mail or FAX this form, or call
Geaunita Caylor at 859-257-2820
FAX (859) 257-2173

**Cost: \$60.00 – includes course notes,
breaks, and lunch. Check box below if
interested in field trip on June 2 at no
additional cost (meals not included).**

Name _____

Nickname for badge _____

Company _____

Address _____

City _____

State _____ Zip _____ + _____

Phone _____

E-mail: _____

☐ Request vegetarian lunch

☐ Interested in optional field trip, June 2

Method of Payment:

☐ Check enclosed (payable to University of
Kentucky)

☐ Please Charge \$_____ to my ☐ VISA

☐ MasterCard ☐ American Express

☐ Discover

Card # _____

Expiration Date _____

Cardholder's Name _____

Confirmation receipt will be sent by e-mail

Mail To: OISTL, 107 Mining & Mineral
Resources Bldg., University of Kentucky,
Lexington, KY 40506-0107

HURRY! Space is limited!