

**PTTC Workshop on “Carbonate Reservoirs”
March 25, 2008
Holiday Inn Meadowlands, Washington, PA**

**Co-Hosted by the Appalachian Basin PTTC Center
& the Pittsburgh Association of Petroleum Geologists**

**Sponsors: Abarta Oil & Gas Company, Inc.
Ansbros Petroleum Company
A.W. Tipka Oil & Gas Inc.
Natural Energy Development Corporation
NGO Development Corporation**

Instructors: Christopher Laughrey and William Harrison, III

Objectives:

This course is designed as an overview of carbonate petroleum reservoirs. Discussion will cover the origin and characteristics of carbonate sediments, rocks and reservoirs. It is designed to give working geoscientists and engineers enough background into the patterns, properties and complexities of carbonate rock to understand the principles that control reservoir geometry, as well as porosity and permeability distribution.

Course Outline:

- Introduction to, and history of, carbonate petroleum reservoirs
- Mineralogy and grain types in carbonate sediments and their influence on rock properties
- Occurrence and role of carbonate mud in rock properties
- Alteration and diagenesis of carbonates
- Carbonate depositional environments and facies sequences
- Carbonate sequence stratigraphy
- Carbonate petroleum reservoirs
- Porosity types and classification
- Core/outcrop studies
- Petrophysics and geophysical log interpretation
- Seismic imaging of carbonate reservoirs
- Case studies
- Practical laboratory exercise(s)
- Carbonate petroleum source rock
- Analytical techniques

Schedule: On-site check in will begin at 7:00 am. A continental breakfast will be provided. The workshop will begin at 8:00 am and conclude by 5:00 pm. Lunch and two breaks will be provided. **Please note** that if you plan to attend and have a hand lens, you should bring it with you. You will need it for one of the exercises.

Location: Holiday Inn Meadowlands, 340 Racetrack Road, Washington, PA. Take exit 41 off I-79. The hotel is 0.5 miles east of the interstate. For room reservations call 724-222-6200.

Instructors:

Christopher D. Laughrey, Senior Geological Scientist, Pennsylvania Geological Survey. Christopher has published work on Devonian, Silurian, Ordovician and Cambrian carbonate reservoirs in the Appalachian basin and is actively involved in karst studies in Florida, the Bahamas, Mexico and Brazil. He is part of a research team at the Pennsylvania Geological Survey working on Trenton/Black River gas reservoirs and geological CO₂ sequestration in deep subsurface Devonian and Silurian carbonate rocks.

William B. Harrison, III, Professor Emeritus, Michigan Geological Repository for Research and Education, Department of Geosciences, Western Michigan University. Bill has authored dozens of papers on Michigan geology. He is part of a research team at Western Michigan University working on the origin and characteristics of dolomite in Michigan reservoirs and on the potential for geological sequestration of CO₂ in Michigan formations.

Registration: To register, fill out and return the form below.

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

E-MAIL: _____

The registration fee for this workshop is **\$125**. This fee covers the entire workshop, continental breakfast, morning and afternoon breaks and lunch. Please make checks payable to “West Virginia University” and return with this form by March 18, 2008 to: Douglas Patchen, P.O. Box 6064, Morgantown, WV 26506-6064.