

► LOCATION

The workshop will be held at the Holiday Inn Meadowlands in Washington, PA.

From I-79, take exit 41 and turn east on Racetrack Road. The hotel will be on the left less than a mile from the interstate.

► LODGING

Participants who choose to stay at the Holiday Inn will need to make their own reservations by calling the hotel at 724-222-6200.

► ADDITIONAL INFORMATION

For additional information, contact Douglas G. Patchen
304-293-2867, x5443
Doug.Patchen@mail.wvu.edu

► REGISTRATION AND FEES

Please note that advanced registration is necessary to adequately plan the catered lunch, and will begin now and end March 18. **Registration may be limited.** The cost is \$125 for the workshop. Please complete the enclosed registration form and return it with a total of \$125 (U.S.) to the address listed. Please make checks payable to: **“West Virginia University.”** The registration fee covers the entire cost of the workshop, continental breakfast, morning and afternoon coffee breaks and lunch.

► PROFESSIONAL DEVELOPMENT HOURS (PDH)

Are you an Engineer or other professional who needs verification of these hours? Well, PTTC has banded together nationwide to assist in this process. Upon completion of a workshop, participants will be given a certificate of completion for the course and the appropriate number of hours for PDH credit. Each certificate will have the schedule on the reverse side for easy authentication.

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NRCCE/West Virginia University
PTTC Appalachian Region
P.O. Box 6064; Evansdale Drive
Morgantown, WV 26506-6064
Phone: (304) 293-2867x5446
ADDRESS CORRECTION REQUESTED



Carbonate Reservoirs

*March 25, 2008
Washington, PA*

Hosts

**PTTC Appalachian Region
Pittsburgh Association of Petroleum
Geologists**

Sponsors

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



► **WORKSHOP SCOPE**

Course Outline:

Introduction to and history of carbonate petroleum reservoirs
Mineralogy and grain types and their influence on rock properties
Occurrence and role of carbonate mud on 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 log interpretation
Seismic imaging of carbonate reservoirs
Case studies
Practical laboratory exercise(s)
Carbonate petroleum source rock
Analytical techniques

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 rocks to understand the

principles that control reservoir geometry, as well as porosity and permeability distribution.

□ **Instructors**

Christopher D. Laughrey is a Senior Geological Scientist with the Pennsylvania Geological Survey. He has published on Appalachian carbonate reservoirs ranging in age from Devonian to Cambrian, and is actively involved in karst studies in Florida, the Bahamas, Mexico and Brazil. He is part of a research team working on Trenton-Black River reservoirs and geological sequestration in subsurface Devonian and Silurian carbonate rocks.

William B. Harrison, III is Professor Emertius, Western Michigan University. He has authored dozens of papers on Michigan geology, and is part of a research team working on the origin and characteristics of dolomite in Michigan reservoirs and the potential for geological sequestration of CO2.

□ **WHO SHOULD ATTEND**

The workshop is designed for geologists and engineers who are working on or interested in carbonate reservoirs. Students and professors also will find the program to be of interest and value.

► **ACCOMMODATION REQUESTS**

Persons needing a disability-related accommodation to participate in this workshop should contact Doug Patchen by March 18 at (304) 293-2867 x5443, or doug.patchen@mail.wvu.edu.

► **SCHEDULE:**

Sign-in and course material distribution will begin at 7:00 a.m. on Tuesday, March 25, 2008. The workshop will begin at 8:00 a.m. and will continue until 5:00 p.m. There will be a break for lunch at noon, and morning and afternoon coffee breaks.

Please note that if you plan to attend, you will need a hand lens for one of the exercises. The instructors will provide a limited number, so if you have one, bring it with you!

► **VISIT US ON THE WEB**

<http://karl.nrcce.wvu.edu>

<http://www.pttc.org>

Registration Form

Name: _____

Company: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Phone: _____

Fax: _____

Email: _____

The registration fee for the workshop is \$125, which covers the entire workshop, continental breakfast, a.m. & p.m. breaks and lunch. Please make checks payable to **West Virginia University** and return them with this registration form by March 18 to: **Doug Patchen**
NRCCE/WVU
P.O. Box 6064; Evansdale Drive
Morgantown, WV 26506-6064

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REFUND POLICY

Registrants who cancel prior to March 18 will receive a full refund. No refunds will be issued after March 18.