

**PTTC Workshop
June 10, 2008
NRCCE Building, Morgantown, WV**

“Structural Principles and Trap Geometries in the Northern Appalachians”

**Presented by R.A. Nelson
Broken N Consulting, Inc.
Cat Spring, TX**

SUMMARY: This one-day workshop will focus on deformational geometries present in the northern Appalachians. Presentations will address the following;

- 1) Rift-related extensional tectonics related to early Paleozoic and Triassic rift events,
- 2) Thrusting-related compressional tectonics that occurred through the Paleozoic,
- 3) Interaction between extensional and compressional deformational phases leading to structural inversion and thrust structural localization,
- 4) Effect of structural events on subsequent sedimentary facies patterns,
- 5) Resulting structural trap geometries in the region.

Examples will be drawn from the Appalachians, Western US, Africa, the North Sea, and Canada. The presenter will utilize a combination of outcrop, seismic, and physical and numerical modeling approaches to characterize the structural geometries that have been and can be drilled in the region.

Attendees should come away from the workshop with an understanding of regional tectonic timing and stress orientations, and how to best interpret the details of local subtleties of trap geometry for exploration and development.

INSTRUCTOR: Dr. Ronald A. Nelson has worked on structural geology in exploration and development for over 32 years with Amoco, BP Amoco and now Broken N Consulting, Inc. He has taught numerous courses for the AAPG, SEG, SPWLA and NExT, and has authored numerous publications on the subject. He has lectured on the subjects of structural geology and fractured reservoirs to Geological Societies, Universities, and National Oil Companies in over 20 countries and has been an AAPG Distinguished Lecturer twice and an SPE Distinguished Author. He has served as President of the Houston Geological Society and Vice President of the AAPG and as a proposal review panelist for the Dept. of Energy and the Petroleum Research Fund.

DIRECTIONS: The easiest access to NRCCE is from the Star City/WVU exit off I-79 north of the I-68 interchange. Turn right off the ramp if coming from the south, left if coming from the north. Follow the signs for U.S. 19 south/ Rt. 7 East (Monongahela Blvd./Jerry West Blvd.). Go through 4 lights (the 4th is at the Coliseum). At the 5th light, turn left onto Evansdale Drive. The Creative Arts Center will be on your left. A map of WVU's Evansdale Campus is attached and should help you find your way to the NRCCE building once you turn into the campus.

HOTELS: For workshop attendees who may wish to stay in Morgantown, the following is a list of hotels convenient to NRCCE. The first two are right off Monongahela Blvd./Jerry West Blvd. Directions to the hotels are given from the I-79 Star City exit:

Best Western – 800-528-1234 (turn left at the third traffic light from the Interstate, hotel is immediately on the right) 366 Boyers Ave.

Quality Inn - 599-1680 (hotel is just before the WVU Coliseum on the right after the third traffic light) 1400 Saratoga Ave.
Hampton Inn - 599-1200 (turn left at the 4th traffic light on Monongahela Blvd onto Patteson Drive; hotel on left immediately after the 3rd light; 1053 VanVoorhis Rd.
Euro-Suites - 598-1000 (continue past Hampton Inn to the next light and turn right; the hotel is immediately on the left) 501 Chestnut Ridge Rd./Milan Puskar Blvd.

PARKING:

The following are suggestions for parking while attending the workshop:

Paid Parking is available in the short-term pay lot next to the WVU Greenhouse (see map; parking area #1). Rate is \$1.00 per hour and the machine does not give change. It accepts only \$1 bills and coins, so attendees need to arrive with at least 8 \$1 bills in their possession. Attendees should arrive early to use this option.

Free Parking is available in the WVU Coliseum parking lots (see map). Attendees may park at the Coliseum and ride the free university shuttle bus to the Mineral and Energy Resources Building and from there walk (5 minutes) over to NRCCE. Attendees also may choose to walk directly from the Coliseum parking lot to NRCCE. Attendees who choose one of these options should allow an extra 20 minutes to park, catch a bus/walk to NRCCE. Buses depart from the Coliseum Blue Gate every 10 minutes from 7:30 a.m. until 5:00 p.m., and every 15 minutes from 5:00 pm until 10:00 pm.

Access to the NRCCE Building is through the front (first floor) entrance for those who park at the Coliseum and take the short walk from the drop off point, or through the rear (ground floor) entrance for those who park in the pay lot next to the Greenhouse and walk to the NRCCE building. The workshop room will be immediately on the left as one enters the front entrance to the building.

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 June 3, 2008 to: Douglas Patchen, P.O. Box 6064, Morgantown, WV 26506-6064.

