

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

“Structural Principles and Trap Geometries in the Northern Appalachians”

**by R.A. Nelson
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This one-day workshop will focus on deformational geometries present in the northern Appalachians. Presentation 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.

Presented 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 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.