

The Hill Country Chapter of the Texas Master Naturalists, October Meeting

## **Topic: Oil and Gas Well Drilling in Today's Environment**

Meeting Date and Place: Monday, October 22, 2012 at 7:00 PM in the UGRA building, 125 Lehman Drive, Kerrville, Texas.

Much of Texas is in play to recover vast resources of oil and gas from shale beds far underground. Here in Texas we have a world class field of these resources in the Eagle Ford Shale extending from south to east Texas. **Carter Keairns** will speak on how these areas were created geologically; why they are unique types of reservoirs and why they require special development techniques; how drilling sites are chosen; how wells are drilled, including horizontal drilling and hydraulic fracturing operations; how they are completed and environmental issues associated with drilling activity.

Dr. Keairns, originally from Pittsburgh, Pennsylvania, has three degrees in Geology, including a doctorate from Texas Tech University in Lubbock. He has worked as an environmental field geologist on the Ogallala Aquifer groundwater remediation project; as a field crew supervisor for National Geographic on the project "Triassic Origins of Dinosaurs and Birds"; as a "mudlogger"; and as an exploration geologist for diamond mining in Sierra Leone, West Africa.

In addition, for 16 years Dr. Keairns has taught graduate and undergraduate Geology courses at UTSA, TSU, Texas Tech and South Plains college. For seven years he has worked as a petroleum geologist involving shale, heavy oil and conventional drilling activity. For many years he has made presentations to Master Naturalist chapters in Texas.

**The meeting will be held in the lecture hall of the Upper Guadalupe River Authority building, 125 Lehmann Drive, in Kerrville. The meeting is free and the public is invited to attend. More information is available by calling Tom Hynes at 990-5750.**