

# Workshops (cont.)

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## Putting It All Together – Optimizing Fracture Designs

Wednesday, 15 October 2008

**Who Should Attend:** Engineers, managers and geologists who often are required to plan or assist with fracturing gas and oil wells, particularly in shale reservoirs, should find this workshop to be very informative.

**About the Course:** This workshop will focus on practical fracture optimization. The morning session will focus on the determination of realistic fracture conductivity and the many challenges we have in placing an effective fracture. During the afternoon session the focus will shift to specialized topics, including slickwater and shale-gas fracturing. In addition to the workshop notes, participants in this seminar also will receive a written summary of 80 published field studies where profitability was improved by modifying the fracture design. Participants in this workshop will be able to optimize a fracture design to accommodate many common damage mechanisms.

**Course Content:** Some of the specific topics to be covered include conductivity testing; proppant types and characteristics; non-darcy and multiphase flow; understanding crush testing; embedment, cyclic stress, fines migration and gel cleanup; slickwater fracturing (geometry, prop transport, frac width, prop placement); effective versus propped half length; fracture optimization; and field studies. This workshop will be informal; questions and discussions will be highly encouraged. Handouts and reference materials will be provided to all participants.

**Duration/Credit Hours:** 8 hours/0.8 CEU

**Instructor Biography:** Terry Palisch, Senior Staff Engineer, Carbo Ceramics. After completing his BS in Petroleum Engineering at the University of Missouri-Rolla, Terry Palisch began his career as a petroleum engineer, working for 10 years with ARCO in Alaska and for four years with ARCO in Algeria, North Africa. During a portion of his tenure in Alaska, Terry supervised the \$10,000,000 (annual) fracture stimulation program at ARCO's Kuparuk River Field. In 2004 Terry joined CARBO Ceramics as a Sr. Staff Petroleum Engineer after teaching high school Algebra and Statistics in Wylie, TX. His current work primarily focuses on helping clients optimize fracture designs by accurately predicting production under realistic conditions. He also provides guidance and analysis on all field trials run by CARBO's customer base and has authored numerous technical papers.

**Cost:** \$150 (This workshop is co-sponsored by PTTC)

**Limit:** 50 participants