The University of Oklahoma’s 2014 AAPG/SEG Student Spring Break Expo
Short Course / Field Trip Descriptions

SHORT COURSE I:  "PETREL Fundamentals Seminar", presented by Schlumberger; Wednesday, March 12 and Thursday, March 13, 9 a.m. to 5 p.m. ($25) PETREL subsurface interpretation and modeling allows you to build and update reliable subsurface models. Geophysicists, geologists and reservoir engineers can move across domains, rather than applications, through the PETREL integrated toolkit. Gain a comprehensive overview of PETREL SOFTWARE. Gain the skills you need to start using PETREL with confidence. Limited seating available.

The course objectives are an overview of the following:

- Import and edit input data
- Perform seismic visualization and interpretation
- Perform well correlation
- Model faults
- Use the pillar gridding process to create 3D grids
- Generate horizons
- Create vertical layers
- Upscale well logs
- Model facies throughout the reservoir
- Perform petrophysical modeling
- Calculate volumes
- Plot results
- Use the PETREL Process Manager to quickly rerun modeling sequence with new input data

SHORT COURSE II:  "Geophysical Methods for Unconventional Plays", taught by Dr. Jamie Rich, OU Assistant Professor of Geophysics, Thursday, March 13, 9 a.m. to 5 p.m. ($25) This course will highlight the geophysical tools and methods that have become indispensable for a geophysicist working unconventional plays. You will learn about the importance of, and techniques for, characterizing seismic anisotropy, as well as seismic attributes such as coherency and curvature. We will also discuss microseismic monitoring, including the state-of-the-art in acquisition and processing, potential pitfalls and interpretation.
SHORT COURSE III: "Prospect Evaluation and Play Analysis", taught by Stan Cunningham. OU alumnus, President of Laurel Petroleum Company, Thursday, March 13, 9 a.m. to 5 p.m. ($25)
This course will present a review of volumetric calculations of oil and gas reserves for Original Oil/Gas in Place (OOIP, OGIP) and Estimate Ultimate Recovery (EUR) with undiscounted and unrisked calculations of Return of Investment (ROI). Petroleum Systems, prospects and plays will be introduced, and their evaluation and analysis covered, including the quantification of risk and discounted and risked economic calculations using spreadsheets and Monte Carlo Simulation software. Commonly used economic indicators will be presented and their calculation and use covered. Play analysis will also be covered, along with calculation of probable field sizes.

SHORT COURSE IV: "An Independent Petroleum Geologist: What You Will Never Learn from Professors or Majors (Big Boys)" An independent geologist’s perspective on generation, leasing, selling and development of various types of oil and gas prospects. Presented by Mike Pollok, an OU alumnus and president of MAP Exploration, Inc. Thursday, March 13, from 1:30 to 5 pm ($25) The course will demonstrate proven techniques used in getting wells drilled and completed. Participants will be exposed to all aspects of a prospect, from using regional maps for the “big picture” to overseeing leasing, packaging of the prospect, selling of the deal and finally overseeing of the drilling of the well.

FIELD TRIP OPTION: "One-Day Field Trip to Wichita Mountains," led by Dr. Charles Gilbert of the University of Oklahoma, will be held Thursday, March 13. ($25) Participants will see part of a Cambrian rift zone uplifted as the easternmost Ancestral Rockies. There will be 6 or 7 stops: the Fort Sill Tar Pitt historical site; Carlton Rhyolite; an interesting diabase dike system and Mount Scott Granite; paleotopography (Permian mountains); granite facies of the Permian Post Oak Conglomerate; and the Holocene Meers Fault. Doughnuts, coffee and field packets will be handed out at 7:15 a.m. at the NE corner of the SEC (2nd floor entrance), and after a brief introductory talk, vans will leave promptly at 7:45 a.m. from SEC east parking lot. Trip will return at approximately 4:30 p.m. Participants will need to bring some form of personal I.D. with them to gain access into Fort Sill.