1334 Brittmoore Road, Suite 2801 Houston, TX 77043 Tel. 713.528.8422

www.roseassoc.com

# Risk Analysis, Prospect Evaluation & Exploration Economics

## **Course Description**

This 4 to 5-day course covers all aspects of the evaluation and investment analysis of exploration prospects. It has a strong practical orientation that uses actual prospects and realistic exercises to illustrate the applications and mechanics of the various concepts and analytical procedures.

The course follows the characteristic chain of considerations that attends exploration projects, including both theory and application, and integrates the geotechnical, leasing, economics, and management aspects of such ventures. The course utilizes the latest methods for dealing with risk and uncertainty, and uses exercises in which in which participants can win or lose small amounts of money to reinforce these concepts.

### **Course Outline**

- 1. Introduction
- 2. Statistics—the Language of Uncertainty
- 3. Probabilities and Distributions
- 4. Coping with Uncertainty
- 5. Estimating Petroleum Resources
- 6. Expect Value and Chance of Prospect Success
- 7. Truncation Issues
- 8. RMAG Exercise
- 9. Decision Trees and the Value of Information
- 10. The Most Crucial Decision: Selecting New Exploration Plays
- 11. Exploration Economics: Estimating Profitability
- 12. Economic Yardsticks
- 13. Dealing with Risk
- 14. Prospect Inventories and Portfolio Management
- 15. Acquisition Strategies and Bidding
- 16. Performance Tracking
- 17. Company Prospect Reviews
- 18. Capstone Exercise: Antelope Ranch

#### Who Should Attend

This course is intended for geoscientists, engineers, managers, landmen, and economists interested in all phases of exploration analysis and decision-making.

#### **Recipients of Training**

This course has been presented hundreds of times in open and internal courses, and most recently to Anadarko, Chevron, Chesapeake, Fieldwood, Hunt Oil, Husky, Murphy, Noble Energy, Pertamina, PTTEP and Repsol.