

NEW TECHNOLOGIES IN EXPLORATION GEOPHYSICS

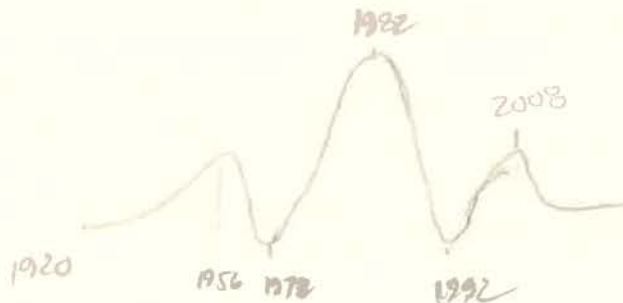
COURSE OUTLINE

May 1983

H. Roice Nelson, Jr.

Wednesday 18 May 1983

- 8:45 Registration
- 9:00 1. Introduction
- * Instructor
 - * Material to be covered
 - * Course participants and background
 - * Review of reflection seismology
2. Energy outlook
- * Open discussion
- 10:00 Break
- 10:15 3. Multi-channel recording systems
- 12:00 Lunch Break
- 1:00 4. Three-dimensional seismic techniques
- 2:30 Break
- 2:45 5. Vector Processing
- 4:30 Wrap-up days activities



COURSE OUTLINE CONTINUED

Thursday 19 May 1983

- 8:45 Open discussion
- 9:15 6. Seismic modeling
- 10:15 Break
- 10:30 7. Computer graphics display of seismic data
- 11:30 8. Color hardcopy
- 12:00 Lunch
- 1:00 9. True three-dimensional display devices
- 2:00 Break
- 2:15 10. Decentralization and networking
- 3:15 11. Satellite transmission and data base management
- 4:30 Wrap-up day

Friday 20 May 1983

- 8:45 Open discussion
- 9:00 12. SALNOR interpretation workshop
- 12:00 Lunch
- 1:00 13. Interpretating 3D seismic surveys
- 2:00 Break
- 2:15 14. Interactive Seismic Interpretation
- 3:15 15. Non-seismic exploration techniques
- 3:45 16. Hands-on training of explorationists
- 4:15 Wrap-up course and evaluation

HAND-OUT MATERIAL

BOOK: New Technologies in Exploration Geophysics

BINDER:

CONTENTS

1. Contents

2. ENERGY OUTLOOK

- *High Stakes
- *Oil Firms Plan Costly New Efforts To Drill Deep Off the Atlantic Coast
- *Energy Outlook for the Next Two Decades

8. Color Hardcopy

10. DECENTRALIZATION AND NETWORKING

- *Apollo to offer low-priced, desk-top distributed-processing system
- *13 Companies Close in on LAN Standard Proposal
- *A Workstation Approach to Interactive Interpretation
- *A Performance Evaluation of the Intel 80286

11. DATA BASE MANAGEMENT

- *Digital base mapping gains ground in Texas

12. SALNOR Workshop

14. INTERACTIVE SEISMIC INTERPRETATION

- *Online Graphics Systems Speed Exploratory Analysis
- *Seismic Interpretation Table
- *Interactive Graphics Developments in Energy Exploration
- *Introduction to Interactive 3D Interpretation

15. NON-SEISMIC EXPLORATION TECHNIQUES

- *Airborne Gravity is Here
- *Airborne Gravity of the 1980's
- *Geological Remote Sensing from Space
- *\$1-Billion Accelerator, Able to Search for Oil, Proposed in Texas (???)

CONTENTS

1. Introduction & Contents
2. Energy Outlook
3. Multi-Channel Recording Systems
4. 3D Seismic Techniques.
5. Vector Processing
6. Seismic Modeling
7. Computer Graphics Display of Seismic
8. Color Hardcopy
9. True 3D Display Devices
10. Decentralization & Networking
11. Satellite Transmission & Data Base Management
12. SALNOR Interpretation Workshop
13. Interpreting 3D Seismic Surveys
14. Interactive Seismic Interpretation
15. Non-Seismic Exploration Techniques
16. Hands-on Training of Explorationists.

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16. Hands-on Training of Explorationists
17. SEG 83
18. OCT 83

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