



THE UNIVERSITY OF TEXAS AT AUSTIN
AUSTIN, TEXAS 78712

cc: GE, RRA
(1st 3 pages) ✓

CRH covered.

Department of Geological Sciences
P. O. Box 7909
512 471-5172

January 22, 1985

Mr. Roice Nelson, Sr.
Landmark Graphics Corp.
1011 Hwy. 6 South, Suite 120
Houston, TX 77077

Dear Roice:

Thanks very much for agreeing to participate as a guest lecturer in the spring 1985 course in geophysical interpretation. Your lecture is scheduled for Monday, February 18, 1985. The class will meet from 2:00 to 3:45 p.m. About 30-40 minutes of questions and discussion following and/or interspersed with the lecture would be a good mixture. The opportunity for the class to discuss the major issues with you will be of special value to them.

The class is made up primarily of senior level geophysics majors aimed generally toward an exploration career. Some graduate students may also be expected in the audience. All of the students will have an extensive background in geology, including structural geology and depositional systems. All of the students will have taken a course in exploration geophysics (which includes fundamentals of wave propagation, potential field data, and the acquisition, processing and basic interpretation of geophysical data). Some of the students will have had a course in geophysical data processing, including experience in the computer analysis of actual seismic data. All of the students will be involved in some laboratory interpretation projects during the course. The schedule of guest lectures and a brief outline of the laboratory exercises are enclosed.

A map of the Austin campus and directions to the Geology Building are enclosed. My office is GEO 207, and the class will be held in GEO 226. If you will need some projection equipment other than two 35 mm projectors, please let me know. My phone number is (512) 471-5257.

I look forward to seeing you in Austin.

Regards,

Milo M. Backus

Milo M. Backus
Professor of Geophysics

MMB/dp

Enclosures

GEO 365M - Preliminary Guest Lecture Schedule - Spring, 1985.
Geophysical Interpretation

- Weeks 1,2 Overview and introduction of lab seismic data set.
(M.M. Backus)
- Week 3 Monday, January 28 - 2-3:50 p.m. - GEO 226
Wulf Massell (Geosource) 3D Images with 3D Prestack Migration
Tuesday, January 29 - Technical Session - 1-2 p.m. - GEO 100
Fred Hilterman (Geophysical Development Corp.) Lessons from
3D Modelling
- Week 4 Monday, February 4 - 2-3:50 p.m. - GEO 226
Frank Brown (Univ. of Texas-Bureau of Economic Geology)
Seismic Stratigraphy and Basin Analysis
- Week 5 Monday, February 11 - 2-3:50 p.m. - GEO 226
Paul S. Horvath (Gulf Oil) The Effectiveness of Offshore 3-D
Seismic Surveys: Case Histories
- Week 6 Monday, February 18 - 2-3:50 p.m. - GEO 226
Roice Nelson (Landmark) Geophysical Interpretation and the
Interpreter's Workstation
- Week 7 Monday, February 25 - 2-3:50 p.m. - GEO 226
Valerie Galfand (Western Geophysical) Computer Assisted
Modelling in Geophysical Interpretation - "SLIM"
- Week 8 Wednesday, March 6 - 2-3:50 p.m. - GEO 226
Marion Bone (Sohio) Understanding 3D Geological Imagery
- Week 9 SPRING BREAK
- Week 10 Friday, March 22 - 2-3:50 p.m. - GEO 226
Ralph Wiggins (Schlumberger) Imaging Offset Vertical Seismic
Profiling Data and Field Development
- Week 11 Wednesday, March 27 - 2-3:50 p.m. - GEO 226
Stanley J. Laster (Mobil) Geological Interpretation of
Multi-Parameter Rock Property Images
- Week 12 Monday, April 1 - 2-3:50 p.m. - GEO 226
Robert J. Graebner (Geophysical Service Inc.) Exploration
Applications of 3D Seismic Systems

- Week 13 Monday, April 8 - 2-3:50 p.m. - GEO 226
 Sven Treitel (Amoco) Geotomography - Part I
- Week 14 Monday, April 15 -
 SSA Meeting - Austin - ALL DAY, HILTON INN
 Seismic Modelling and the Interpretation of Wide Angle Data
 (see attached program)
- Week 15 Monday, April 22 (OPEN)
- Week 16 April 29 - May 3
 Student Presentations.

SSA SESSION - MONDAY, APRIL 15, 1985

Austin, Texas

List of Invited Speakers for
"Advances in Data Processing"

- Seismic Modelling and the Interpretation of Wide Angle Data -

Fred Hilterman, Geophysical Development Corp., Houston
Forward Modelling - Integral Method for the Acoustic 3D Earth and
Propagator Matrix for the 1D Solid Earth

Randy Apsfel, Sierra Geophysics,
Forward Modelling - 3D Ray Tracing in a Solid Earth, Propagator Matrix
Plus Hankel Transform, and TH General Integral Approach in a Solid 3D
Earth

Alastair McAuley, Texas Instruments, Dallas
"Techniques Specific to Modelling for Inversion"

Jan Garmany, University of Texas at Austin, Institute for Geophysics
"Point Source Synthetic Seismograms in Layered Anisotropic Media"

Kurt Marfurt, AMOCO, Tulsa
Seismic Modelling - Finite Element Method

Robert Nowack, MIT
Gaussian Beam Synthetics

Ray Farrell, Seiscom Delta, Houston
Interactive Seismic Refraction Data Interpretation

John Orcutt, UCSD
Wide Angle Seismic Data

Robert Phinney, Princeton
Tau-p Analysis and Inversion

Ralph Stevens, Woods Hole Oceanographic Institution
Oblique Downhole Seismic Measurements and Interpretation

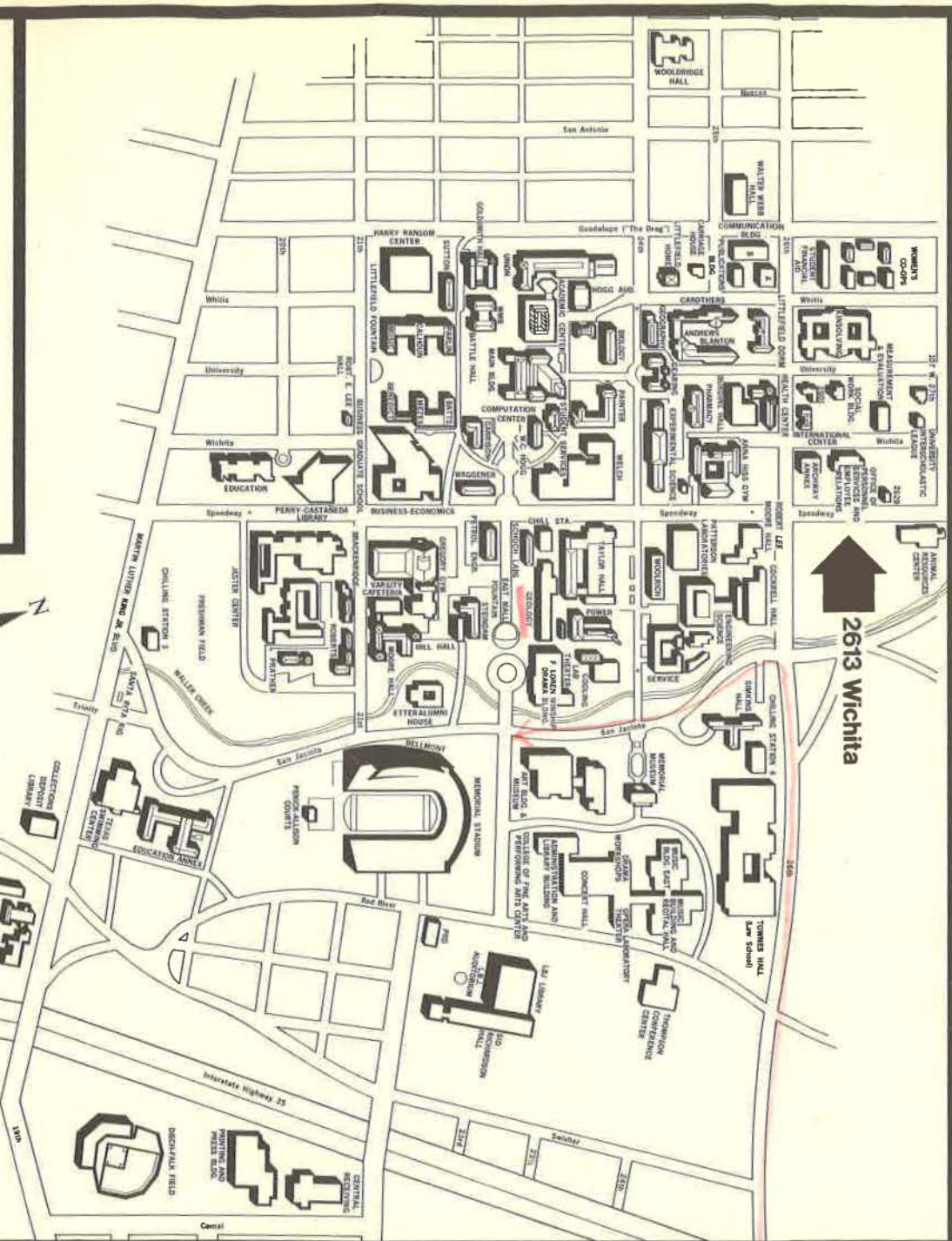
Robert Tatham, Petty Ray
P&S Waves: Wide Angle Data Acquisition and Analysis

George McMechan, University of Texas at Dallas
Migration of Downhole Seismic Data

John Diebold, Lamont Doherty Geological Observatory
Recent Results from Wide Angle Reflection/Refraction Measurements

Doug McGowan, Gulf
Recent Continuous Wide Angle CDP Profiling Using Two-Ships in the Gulf
of Mexico

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