

AGENDA

2001 UTD Geophysical Consortium Meeting

(Feb 28 & March 1, 2001)

THE GALAXY CONFERENCE ROOMS
UTD STUDENT UNION BUILDING
The University of Texas at Dallas

WEDNESDAY FEB 28: MORNING SCHEDULE

9:30 - 10:00 REGISTRATION, COFFEE AND LATE BREAKFAST (GALAXY ROOM)

10:00 - 10:15 SUMMARY OF 2000 PROJECTS AND CONSORTIUM HIGHLIGHTS
George McMechan

10:15 - 12:00 SEISMIC MIGRATION

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Houzhu Zhang	Finite-difference Migration with Compensation for Absorption, Dispersion, and Transmission Losses in 2-D and 3-D
Biaolong Hua	Parsimonious 2-D Prestack Kirchhoff Migration
Zhou Yu	Wavelet-transform-based Prestack Multi-resolution Kirchhoff Migration
Andrey Ortega	2-D post-stack directional depth migration
Biaolong Hua	3-D Parsimonious Post- and Pre-Stack Kirchhoff Migration

12:00 - 1:15 BUFFET LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

WEDNESDAY FEB 28: AFTERNOON SCHEDULE

1:15 - 2:30 SEISMIC DATA PROCESSING AND INTERPRETATION

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- Gislain Madiba Seismic Data Mapping
- Salah Mahmoud Interpretation of Seismic Data from the Upper
Cretaceous in La Salle County, South Texas
- Gislain Madiba Processing and Analysis of a 2-D Data Set:
A case study: Preliminary Results
- Zhou Yu Wavelet-Radon domain de-aliasing of seismic data

2:30 - 2:45 COFFEE BREAK

2:45 - 4:15 CHARACTERIZATION OF RESERVOIR ANALOGS

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- Bob Szerbiak Processing and Results from 2-D, 3-D and Borehole
GPR Data from Corbula Gulch, Utah
- Xueming Xu Using GOCAD for 3-D Rendering of Sedimentological
Surfaces, with Examples from Corbula Gulch, Utah
- Bob Szerbiak Correlation of Petrophysical and Electrical

Properties of the Ferron Sandstone
- Xiaoxian Zeng Characterization of a Carbonate Reservoir Analog
in the Ellenburger Dolomite of Central Texas

4:15 - 5:30 POSTERS AND INFORMAL DISCUSSION

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POSTERS (WILL BE UP BOTH DAYS)

- Salah Mahmoud Interpretation of 3-D Seismic Data from the Upper
Cretaceous in La Salle County, South Texas;
Hydrocarbon Possibilities
- Bob Szerbiak 3-D Characterization of a clastic reservoir analog;
from 3-D GPR Data to a 3-D fluid permeability model
to flow simulations
- Zhou Yu Wavelet transforms in seismic data processing
and imaging
- Xueming Xu et al. Digital geological mapping of the Ferron

Sandstone, Utah, by the Integration of GPS,
Reflectorless Laser Range Finders, Cameras, and
GIS (Cybercapture)

Bob Loucks et al. Study of a Coalesced, Collapsed Paleocave Reservoir
Analog in the Ellenburger Dolomite

5:30 BANQUET IN THE GREEN CENTER

THURSDAY MARCH 1: MORNING SCHEDULE

8:45 - 9:15 CONTINENTAL BREAKFAST (GALAXY ROOM)

9:15 - 10:30 CONVERTED WAVES
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Shaoming Lu P-S Wave Separation

Fan Xu Efficiency of P-S conversion at the water bottom

Adam Koesoemadinata Sensitivity of Amplitude Variation with
Angle to Petrophysical Properties

10:30 - 10:45 COFFEE BREAK

10:45 - 11:30 SEISMIC MODELING
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Stig Hestholm Behavior and Resolution of Numerical Artifacts
in 3-D Elastic Finite-difference Computations

Jaime Ramos-Martinez 3-D Finite-difference Modeling in Anisotropic
Media with 21 Elastic Constants

11:30 - 12:10 PARALLEL COMPUTING
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Xiaoxian Zeng Load Balancing Across a Highly Heterogeneous
Workstation Cluster Using File Status Probes,
With Application to 3-D prestack Kirchhoff
Migration

Donald Moore Development of a PC Cluster for Geophysical
Computing at UTD; Status Report

12:10 - 1:15 LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

THURSDAY MARCH 1: AFTERNOON SCHEDULE

1:15 - 2:30 SEISMIC INVERSION

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Adam Koesoemadinata PetroSeismic Inversion for Sandstone

Ancha Adriansyah Analysis & Interpretation of Seismic data from
Thin Reservoirs: Northwesta Java Basin, Indonesia

Shaoming Lu Estimation of Gas Hydrate Concentration from
Seismic Data

Jaime Ramos-Martinez
Full-wavefield Inversion to Estimate Impact Source
Orientation from Multicomponent Land Seismic Data

2:30 - 2:45 COFFEE BREAK

2:45 - 3:00 SUMMARY OF OTHER 2000 PROJECTS

George McMechan

3:00 - 3:15 DISCUSSION / QUESTIONS

3:15 ADJOURN TO SNACKS & COFFEE, INFORMAL TOUR OF FACILITIES