

AGENDA

UT-Dallas Geophysical Consortium

2004 Annual Sponsor's Meeting

March 3 & 4, 2004

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

WEDNESDAY MAR 3: MORNING SCHEDULE

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

10:00 - 10:15 SUMMARY OF 2003 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

10:15 - 12:00 SEISMIC MIGRATION AND VELOCITY ANALYSIS

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Weihong Fei	Fast 2-D Model-Based Migration Velocity Analysis and Reflector Shape Estimation
Feng Deng	True Amplitude Migration (Project Proposal)
Weihong Fei	2-D Reflectorless Tomographic Migration Velocity Analysis
Hui Chang	Velocity Analysis by Inversion of Anisotropic Data (Project Proposal)

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

WEDNESDAY MAR 3: AFTERNOON SCHEDULE

1:00 - 3:15 ALGORITHMS AND APPLICATIONS

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Feng Deng	Fast Square-root Approximations for One-way Wave
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Equations

Xiaoxian Zeng	VSP Geophone Rotations for the Vinton Dome Data
Abraham Shogar	Comparison of Parsimonious and Reverse-Time Migrations of a Land Field Data Set (Project Proposal)
Yanrong Hu	Imaging Mining Hazards within Coal Beds using Prestack Elastic Reverse-time Migration of In-seam Seismic Survey Data
Nistala Suresh	3-D 3-C Seismic Modeling in Anisotropic Media
Xiaoxian Zeng	Cluster Hardware Update

3:15 - 3:30 COFFEE BREAK

3:30 - 5:00 POSTERS AND INFORMAL DISCUSSION

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POSTERS (WILL BE UP BOTH DAYS)

Don Moore	Tour of the Cluster Computer (in FA2.102)
Zijian Zhang	Elastic Inversion and Interpretation of Seismic Data from Hydrate Ridge. Offshore Oregon
Keumsuk Lee	GPR Survey of a Delta-Front Analog in the Wall Creek Formation at the Murphy's Reservoir Site, Wyoming
Shaoming Lu	Elastic Impedance Inversion of Multi-Channel Seismic Data for Estimation of Gas Hydrate and Free Gas
Suresh Nistala	Use of GPR to Locate Engineering Foundation Anomalies
Gislain Madiba	Simultaneous AVO Elastic Inversion of a 2-D Seismic Data Set from the North Viking Graben, North Sea
Hui Chang	Inversion of Underground Structures Beneath Station from the SV Receiver Function
Gordon Davison	Seismic Exploration in Africa's Hardrock Environments: The Search for Uncoral Reefs

Geosciences Department Overview of Activities in Geosciences at UTD

5:30 BANQUET IN THE GREEN CENTER

THURSDAY MARCH 4: MORNING SCHEDULE

8:30 - 9:00 CONTINENTAL BREAKFAST (GALAXY ROOM)

9:00 - 10:15 RESERVOIR CHARACTERIZATION

Keumsuk Lee 3-D Internal Architecture, Prediction of
 Concretion Distribution, and 3-D Fluid
 Permeability from GPR Data

Upendra Tiwari Effects of Incomplete Parameterization on
 Inversion of Full-wavefield Viscoelastic
 Seismic Data for Petrophysical Reservoir
 Properties

Yanrong Hu Coalbed Methane; a Review

10:15 - 10:30 COFFEE BREAK

10:30 - 11:45 SEISMOLOGY OF GAS HYDRATES

Gordon Davison 3-D Seismic Study of a Gas Hydrate Occurance
 in Offshore Angola, West Africa (Project
 Proposal).

Zijian Zhang Elastic AVA Inversion Study of Gas Hydrates
 on the Oregon Continental Margin

Ashwani Dev Seismic Characterization of Gas Hydrates in
 the Gulf of Mexico (Project Proposal)

11:45 - 12:45 LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

THURSDAY MARCH 4: AFTERNOON SCHEDULE

12:45 - 2:15 3-D AND 4-D SEISMOLOGY

Upendra Tiwari Time Lapse Reservoir Characterization in a
 Viscoelastic Gas Sandstone Reservoir (Project
 Proposal)

Abay Aibaidula Interpretation of Tuguhu 3-D Seismic Data,
 Gungar Basin (Case Study)

Yogesh Agnihotri 3-D Prestack Parsimonious Migration of
 Multicomponent VSP Data by Determining Ray
 Incident Directions using Polarization Analysis

Abay Aibaidula Processing of 3-D Seismic Data from the
Ouachita Mountains, Oklahoma

2:15 - 2:30 COFFEE BREAK

2:30 - 2:45 SUMMARY OF OTHER 2003 PROJECTS

George McMechan

2:45 - 3:00 DISCUSSION / QUESTIONS

3:00 ADJOURN TO SNACKS & COFFEE, INFORMAL TOUR OF FACILITIES