

# AGENDA

## UT-Dallas Geophysical Consortium

### 2005 Annual Sponsor's Meeting

### March 3 & 4, 2005

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

#### THURSDAY MAR 3: MORNING SCHEDULE

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

10:00 - 10:15 SUMMARY OF 2004 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

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

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Weihong Fei	2-D reflectorless tomographic seismic migration velocity analysis
Feng Deng transmission	True amplitude migration: correction for losses and attenuation in the time/space domain
Weihong Fei	3-D Reflectorless tomographic seismic migration velocity analysis
Andrey Ortega	3D post-stack directional depth migration
Hui Chang anisotropic	3-D full-wavefield acoustic inversion for parameter estimation

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

#### THURSDAY MAR 3: AFTERNOON SCHEDULE

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1:00 - 2:00 ALGORITHMS AND APPLICATIONS I

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Ashwani Dev	Correction of seismic AVO data for recording group effects in the wavenumber domain
Ibrahim Basi	Husky data processing and parsimonious migration (Project Proposal)
Yanrong Hu	Effects of Cheng's correction to Hudson's model with examples of 3-D elastic modeling in anisotropic media (Project Proposal)

2:00 - 2:15 COFFEE BREAK

2:15 - 3:45 ALGORITHMS AND APPLICATIONS II

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Sandip Chattopadhyay	Seismic modeling with the spectral element method (Project proposal)
Suresh Nistala	3-D modeling of fracture-induced shear-wave splitting in the southern California Basin
Abay Aibaidula	Using AVS inversion and geostatistics to estimate rock properties (Project proposal)
Xiaoxian Zeng	Cluster hardware update; the move to 64 bit processors

3:45 - 4:00 COFFEE BREAK

4:00 - 5:00 POSTERS AND INFORMAL DISCUSSION (POSTERS WILL BE UP BOTH DAYS)

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Don Moore	Tour of the Cluster Computer (in FA2.102)
Keumsuk Lee	3-D internal architecture, prediction of concretion distribution, and 3-D fluid permability from GPR data
Upendra Tiwari	Effects of incomplete parameterization on inversion of full-wavefield viscoelastic seismic data for petrophysical reservoir properties
Zijian Zhang	Elastic inversion and interpretation of seismic data from Hydrate Ridge, Offshore Oregon

Feng Deng                      Stable 3-D depth explicit extrapolation in hybrid  
Transformation                      pseudo-screen migration via McClellan

Geosciences Department    Overview of Activities in Geosciences at UTD

5:30 BANQUET IN THE GREEN CENTER

FRIDAY MARCH 4: MORNING SCHEDULE  
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8:30 - 9:00 CONTINENTAL BREAKFAST (GALAXY ROOM)

9:00 - 10:15 RESERVOIR CHARACTERIZATION  
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Keumsuk Lee                      GPR architecture of a top-truncated mixed-  
influenced    delta in the Frontier Formation, Wyoming

Ashwani Dev                      Seismic characterization of gas hydrates in the  
Gulf of Mexico (Project proposal)

Upendra Tiwari                      Estimation of effective pressure and water  
saturation by viscoelastic inversion of synthetic  
time-lapse data for a gas sandstone reservoir

Yanrong Hu                      Seismic characteristics of coalbed methane  
reservoirs    (Project proposal)

10:15 - 10:30    COFFEE BREAK

10:30 - 11:45 3-D / 3-C SEISMOLOGY  
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Xiaoxian Zeng                      Orientation of 3-C VSP data

Yogesh Agnihotri                      Prestack parsimonious migration of 3-C 3-D VSP  
analysis.    data using ray directions from polarization

Abay Aibaidula                      Processing angle dependent inversion and  
interpre-    tation of a 3D seismic data set from the Ouachita  
Mountains, Oklahoma.

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

FRIDAY MARCH 4: AFTERNOON SCHEDULE

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12:45 - 2:00    3-D AND 4-D SEISMOLOGY  
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Hui Chang                    3-D full-wavefield elastic inversion for  
anisotropic                    parameter estimation with application to the  
                                 Borburata field, Venezuela (Project proposal)

Yogesh Agnihotri    Structure and stratigraphy in the Vinton Dome  
                                 (Project proposal)

Upendra Tiwari        Analysis of time-lapse seismic data from the  
                                 Gannet B Field, Central North Sea, UK (Project  
                                 proposal)

2:00 - 2:15    COFFEE BREAK

2:15 - 2:30    SUMMARY OF OTHER 2004 PROJECTS

George McMechan

2:30 - 2:45    DISCUSSION / QUESTIONS

2:45 ADJOURN TO SNACKS & COFFEE, INFORMAL TOUR OF FACILITIES