

AGENDA

2002 UTD Geophysical Consortium Meeting

(March 6-7, 2002)

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

WEDNESDAY MAR 6: MORNING SCHEDULE

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

10:00 - 10:15 SUMMARY OF 2001 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

10:15 - 12:00 SEISMIC IMAGING AND MIGRATION

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Biaolong Hua Parsimonious 2-D Prestack Kirchhoff Migration

Zhou Yu Wavelet-transform-based Prestack Multi-resolution
Kirchhoff Migration

Menno Dillen Prestack recursive time lapse imaging and
interferometry

Biaolong Hua 3-D Parsimonious Post- and Pre-Stack Kirchhoff
Migration

Zhou Yu Wavelet-Radon domain de-aliasing and
interpolation of seismic data

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

WEDNESDAY MAR 6: AFTERNOON SCHEDULE

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

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Gislain Madiba Processing, inversion, and interpretation of
a 2-D data set from the North Viking Graben,
North Sea

Keumsuk Lee Geologic evolution and petroleum systems of the
 Cuu Long and Nam Con Son Basins, Offshore
 Southern Vietnam, South China Sea

Shaoming Lu Reprocessing and elastic impedance inversion
 of multi-channel seismic data for gas hydrates
 and free gas

2:30 - 2:45 COFFEE BREAK

2:45 - 4:15 VELOCITY ESTIMATION AND MODEL BUILDING
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Shi Chen Summary of velocity estimation methods

Maulin Patel Building 2-D stratigraphic and structure
 models from well log data and control horizons

Weihong Fei 3-D velocity and depth estimation

4:15 - 5:30 POSTERS AND INFORMAL DISCUSSION
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POSTERS (WILL BE UP BOTH DAYS)

Zijian Zhang Seismic characteristics of sub-bottom oceanic
 sediments for mining polymetallic nodules:
 Chinese exploration in the western Pacific.

Keumsuk Lee et al. Characterization of a delta front reservoir
 analog in Wyoming

Bob Szerbiak 3-D characterization of a clastic reservoir
 analog; From 3-D migrated GPR data to a 3-D
 fluid permeability model to fluid flow simulations

Shi Chen Application of nonlinear discriminant functions
 for hydrocarbon prediction

Weihong Fei Extraction of shear wave velocity profiles
 from ambient noise

Don Moore Tour of the new cluster computer (in FA2.102)

5:30 BANQUET IN THE GREEN CENTER

THURSDAY MARCH 7: MORNING SCHEDULE

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

9:15 - 10:00 PETROPHYSICS
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Adam Koesoemadinata Correlations between seismic parameters, EM parameters and petrophysical/petrological parameters for sandstone

Robert Szerbiak Electrical and petrophysical parameter modeling and inversion for the Ferron Sandstone

10:00 - 10:15 COFFEE BREAK

10:15 - 11:45 NEW PROJECTS IN RESERVOIR CHARACTERIZATION

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Xiaoxian Zeng 3-D imaging of Vinton Dome data

Gislain Madiba Processing and inversion of data from the Alberta foothills

Shaoming Lu 3-D seismic study of gas hydrates in offshore Angola, West Africa.

Zijian Zhang Detailed seismic study of gas hydrates on the Oregon continental margin

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

THURSDAY MARCH 7: AFTERNOON SCHEDULE

12:45 - 2:30 SEISMIC MODELING AND PARALLEL COMPUTING

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Xiaoxian Zeng Development of a PC cluster for geophysical computing at UTD; Status report

Pratik Patel MPI implementation of 2-D acoustic modeling

Stig Hestholm 3-D viscoelastic finite-difference modeling in transformed coordinates

Menno Dillen Comparison of algorithms for 3-D viscoelastic finite-difference modeling

Stig Hestholm Free surface topography boundary conditions in 3-D seismic modeling.

2:30 - 2:45 COFFEE BREAK

2:45 - 3:00 SUMMARY OF OTHER 2001 PROJECTS

George McMechan

3:00 - 3:15 DISCUSSION / QUESTIONS

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