

AGENDA
UT-Dallas Geophysical Consortium
2010 Annual Sponsor's Meeting
March 15 & 16, 2010

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

MONDAY MAR 15: MORNING SCHEDULE

9:15 - 9:45 REGISTRATION, COFFEE AND LATE BREAKFAST (GALAXY ROOM)

9:45 - 10:00 SUMMARY OF 2009 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

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

Bao Nguyen 2D and 3D implementation of source wavefield
reconstruction for reverse time migration

Ernesto Oropeza Parsimonious anisotropic prestack migration

Kun Xu Implementation of prestack reverse-time migration
in the frequency domain

Bao Nguyen Excitation amplitude image condition for RTM

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

MONDAY MAR 15: AFTERNOON SCHEDULE

1:00 - 2:45 3-D & MULTI-COMPONENT MODELING & PROCESSING

Cambrey Johnston Finite-difference anisotropic modeling and interpretation of 3D, 3-C data from the Barnett Shale

Jack Deans Simultaneous inversion of data from a carbonate reservoir in the Permian Basin

Qunshan Zhang Direct vector field methods to obtain angle gathers for isotropic acoustic and elastic RTM

Heru Rusmanugroho Inversion for elastic tensor elements from polar angle and azimuth in 9C, 3D VSP data

2:45 - 3:00 COFFEE BREAK

3:00 - 4:20 ALGORITHMS AND HARDWARE

Qunshan Zhang Reverse-time migration in elastic, anisotropic media and common-image gathers in the incident phase angle domain

Matt Browning Applications of Sobolev Gradient Methods to Geophysical Problems

Deepthi Ponnampalath UTD computing environment updates and future plans

4:20 - 5:15 POSTERS AND INFORMAL DISCUSSION

Cambrey Johnston 3-D, 3-C Full-wavefield finite-difference anisotropic modeling of the fractured Barnett Shale

Hui Chang Parameter estimation for anisotropy using full-wave inversion

Ernesto Oropeza Implementation of MZO operator for variable velocity

media

Ting Gong Wave equation processing: Potential for application to 3D field data

Yanrong Hu 3-D, 3-C full-wavefield modeling of strong anisotropy

Juanjuan Cao Multiple prediction and subtraction, from slowness relations

Keumsuk Lee et al. A 3-D GPR and wavelet transform analysis of the morphology of shoreface deposits in the Upper Cretaceous Ferron Sandstone, Utah, USA

UTD Geophysical Consortium Overview of recent projects

Geosciences Department Overview of Activities in Geosciences at UTD

Authors Reprints of 2009 papers

5:30 BANQUET IN THE MCDERMOTT SUITE (4TH FLOOR OF THE MCDERMOTT LIBRARY)

TUESDAY MARCH 16: MORNING SCHEDULE

7:30 - 8:00 CONTINENTAL BREAKFAST (GALAXY ROOM)

8:00 - 9:15 FIELD DATA ANALYSIS

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Gordon Davison Characterizing gas hydrate using seismic inversion

Ting Gong CRP-based migration velocity analysis of synthetic and field data with strong topographic variations

Martin Nyamapfumba Seismic attributes and interpretation of gas hydrate data from Block 31, offshore Angola

9:15 - 9:25 COFFEE BREAK

9:25 - 10:40 SEISMIC INVERSION AND VELOCITY ANALYSIS

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Xinfa Zhu Review of full wave inversion options: Tutorial

Sylvia Pacheco Full wavefield reflectivity inversion for viscoelastic anisotropic media

Ernesto Oropeza Migration velocity analysis for anisotropic media

10:40 - 10:50 COFFEE BREAK

10:50 - 12:05 TOMOGRAPHY AND RESERVOIR ANALOGS

Hussein Harbi Ellenberger reservoir analog characterization, Burnet County, central Texas

Kun Xu Imaging by crosswell waveform inversion: A case study from Kambalda, Western Australia

Hussein Harbi GPR scattering and conductivity inversion, Burnet County, central Texas

12:05 - 12:55 LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

TUESDAY MARCH 16: AFTERNOON SCHEDULE

12:55 - 2:30 3-D ALGORITHMS AND MULTIPLES

Juanjuan Cao Application of 3D GGSRME to WATS multiple attenuation

Xinfa Zhu Output imaging for 3D common reflection surface (CRS) stacks

Juanjuan Cao Prediction and subtraction of multiples using apparent slowness relations in 2D synthetic and field ocean-bottom data

Heru Rusmanugroho Estimating elastic tensor elements from polarization and slowness in 9C, 3D VSP data at the Weyburn Field, Saskatchewan, Canada.

2:30 - 2:40 COFFEE BREAK

2:40 - 3:00 SUMMARY OF OTHER 2009 PROJECTS

George McMechan

3:00 - 3:20 DISCUSSION / QUESTIONS

3:20 ADJOURN TO SNACKS & COFFEE