

AGENDA

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UT-Dallas Geophysical Consortium
2011 Annual Sponsor's Meeting
March 10 & 11, 2011

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

THURSDAY MAR 10: MORNING SCHEDULE

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

9:45 - 10:00 SUMMARY OF 2010 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

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

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Bao Nguyen	Excitation amplitude image condition for RTM
Ernesto Oropeza	Anisotropic parsimonious prestack depth migration
Bao Nguyen	2D & 3D implementation of source wavefield recovery for Reverse Time Migration
Kun Xu	3D Laplace-domain RTM with a public-domain standard parallel iterative solver
Qunshan Zhang	Wave-equation based migration velocity analysis in acoustic media

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

THURSDAY MAR 10: AFTERNOON SCHEDULE

1:00 - 3:00 ELASTIC AND ANISOTROPIC IMAGING AND INVERSION

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Heru Rusmanugroho Inversion for elastic tensor elements from slowness and polarization as a function of polar angle and azimuth in 9C, 3D VSP data

Qunshan Zhang Angle domain common image gathers from isotropic
 acoustic/elastic and anisotropic elastic RTM

Sylvia Pacheco Full wavefield reflectivity inversion for
 viscoelastic anisotropic media

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

3:00 - 3:10 COFFEE BREAK

3:10 - 4:30 ALGORITHMS AND HARDWARE

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Kun Xu 3D one-way absorbing boundary conditions with optimal
 coefficients in the frequency-space domain

Matt Browning 3D anisotropic ray tracing using Sobolev gradients

Deepthi Ponnampalani UTD computing environment updates and future plans

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

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BOTH DAYS)

Hui Chang Parameter estimation for anisotropy using full-wave
 inversion

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

Xinfa Zhu Inversion of Critical and Post-critical Reflections

UTD Geophysical Consortium Overview of recent projects

Geosciences Department Overview of Activities in Geosciences at UTD

Authors Reprints of 2010 papers

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

FRIDAY MARCH 11: MORNING SCHEDULE

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

8:00 - 10:00 FIELD AND SYNTHETIC DATA ANALYSIS
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Gordon Davison Stratigraphic controls on gas hydrate and free gas accumulations, offshore Angola

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

Gordon Davison Characterizing gas hydrates using elastic seismic inversion: Offshore Angola

Martin Nyamapfumba AVO analysis of seismic data from offshore Angola

Juanjuan Cao Prediction and subtraction of PS converted reflections and their multiples using apparent slowness relations, with examples from 2D 2-C synthetic elastic media

10:00 - 10:10 COFFEE BREAK

10:10 - 12:30 SEISMIC INVERSION AND VELOCITY ANALYSIS
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Roberto Falcon 3D fullwave acoustic inversion for folded anisotropic layers

Xinfa Zhu Elastic inversion of pre-, near- and post-critical reflections using phase variation with angle

Hu Jin Velocity analysis by tomography of focusing operators

Ernesto Oropeza Migration velocity analysis for anisotropic media

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

FRIDAY MARCH 11: AFTERNOON SCHEDULE

1:00 - 2:15 TOMOGRAPHY AND RESERVOIR ANALOGS
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Hussein Harbi Modelling 3D porosity and permeability from GPR data in the Ellenburger Dolomite, central Texas

Zabi Khaxar Sedimentological/hydrogeological model of barrier islands in the Texas Gulf Coast using GPR data

Hussein Harbi Imaging intrinsic and scattering Q in an Ellenburger reservoir analog, central Texas

2:15 - 2:25 COFFEE BREAK

2:25 - 2:50 SUMMARY OF OTHER 2010 PROJECTS

George McMechan

2:50 - 3:15 DISCUSSION / QUESTIONS

3:15 ADJOURN TO SNACKS & COFFEE