

AGENDA

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UT-Dallas Geophysical Consortium
2013 Annual Sponsor's Meeting
March 11 & 12, 2013

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

MONDAY MAR 11: MORNING SCHEDULE

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

9:45 - 10:05 SUMMARY OF 2012 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

10:05 - 12:05 MIGRATION AND MIGRATION VELOCITY ANALYSIS

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Xinfa Zhu Stretch-free migration imaging condition

Bao Nguyen 2D source wavefield reconstruction for elastic
prestack RTM

Ernesto Oropeza Anisotropic parsimonious prestack depth migration

Bao Nguyen Excitation amplitude imaging condition for
elastic prestack RTM

12:05 - 1:30 BUFFET LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

MONDAY MAR 11: AFTERNOON SCHEDULE

1:30 - 2:50 VELOCITY ANALYSIS

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Hu Jin Velocity analysis by tomography of focusing
operators

Ernesto Oropeza Common-reflection point migration velocity
analysis

for TTI media

Roberto Falcon Determining 3D geometry and velocity in dipping
and folded anisotropic layers.

2:50 - 3:00 COFFEE BREAK

3:00 - 4:45 SEISMIC MODELING AND HARDWARE
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Kun Xu 3D scalar-wave absorbing boundary conditions with
optimal coefficients in the frequency-space domain

Peng Guo 3D Modeling of anisotropy of attenuation

Matt Browning New method for normal mode problems: Sobolev
gradient steepest descent

Sasmita Mohapatra UTD computing environment, updates, and
future plans

4:45 - 5:30 POSTERS AND INFORMAL DISCUSSION (POSTERS WILL BE UP
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BOTH DAYS)

Bao Nguyen Excitation amplitude imaging condition for elastic
reverse-time migration

Xinfa Zhu Comparison of methods for modeling phase variation
with angle

Xinfa Zhu Analysis of amplitude and phase variation with
ray parameter in the τ -p domain

Ernesto Oropeza Anisotropic parsimonious prestack depth migration

Hu Jin Parsimonious tomography of focusing operators

Juanjuan Cao Multiple prediction and subtraction, from slowness
relations

Geosciences Department Overview of Activities in Geosciences at UTD

Authors Reprints of 2012 papers

5:45 BANQUET IN THE MCDERMOTT SUITE (4TH FLOOR OF THE MCDERMOTT LIBRARY)

TUESDAY MARCH 12: MORNING SCHEDULE

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

8:00 - 9:45 ANALYSIS AND INTERPRETATION OF FIELD, RESERVOIR ANALOG,
=====
AND SYNTHETIC DATA
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Zabiholla Khaxar Processing, migration and interpretation of data
from Dry Wash, Utah

Marianne Reyes Boet Methodology for Elastic Property estimation
by Simultaneous Angle Dependent Inversion
of 3D Data, Off-shore Angola

Ting Gong Near surface tomography under strong topographic
variations

Sasmita Mohapatra Prediction and subtraction of high amplitude
coherent noise

9:45 - 10:00 COFFEE BREAK

10:00 - 11:30 FULL WAVEFIELD SEISMIC INVERSION
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Roberto Falcon Elastic properties and crack distributions from
T-Matrix and Linear-Slip tensor-based inversions
for an anisotropic layer.

Kun Xu Frequency-domain elastic full-waveform inversion
and imaging, using time-domain modeling and
a multi-steplength gradient approach.

Sylvia Pachecho Full wavefield reflectivity inversion for synthetic
data from elastic and viscoelastic anisotropic
shale-bounded, fractured sandstone reservoirs.

11:30 - 12:30 LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

TUESDAY MARCH 12: AFTERNOON SCHEDULE

12:30 - 2:15 ALGORITHMS

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Xinfa Zhu	Amplitude and phase versus angle in the τ -p domain
Hu Jin	Comparison of methods for calculating ADCIGs from RTM
Wenlong Wang	P-S wavefield decomposition using attenuation
Xiaoyu Zhang	Solutions of multipathing in the incident angle, depth, and image time domain.

2:15 - 2:25 COFFEE BREAK

2:25 - 2:50 SUMMARY OF OTHER 2012 PROJECTS

George McMechan

2:50 - 3:15 DISCUSSION / QUESTIONS

3:15 ADJOURN TO SNACKS & COFFEE