

AGENDA

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UT-Dallas Geophysical Consortium

2014 Annual Sponsor's Meeting

April 2 & 3, 2014

THE GALAXY CONFERENCE ROOMS

UTD STUDENT UNION BUILDING

The University of Texas at Dallas

WEDNESDAY APRIL 2: MORNING SCHEDULE

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

9:45 - 10:05 SUMMARY OF 2013 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

10:05 - 12:00 MIGRATION AND MIGRATION VELOCITY ANALYSIS

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

Ernesto Oropeza Common-reflection-point migration velocity
analysis for TTI media

Xinfa Zhu Stretch migration correction by shrinking
wavelets toward the peak of their envelopes

Bao Nguyen Strategies to avoid source wavefield storage
for 2D elastic prestack reverse-time migration

12:00 - 1:10 BUFFET LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

WEDNESDAY APRIL 2: AFTERNOON SCHEDULE

1:10 - 3:00 FULL WAVEFIELD INVERSION

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Roberto Falcon 3-D full-wavefield inversion for P-wave
anisotropy and layer geometry

Kun Xu Frequency-domain elastic full-wavefield
inversion using time-domain modeling and a
multi-steplength gradient

Roberto Falcon Stochastic inversion for crack and elastic
properties using T-matrix and linear slip models.

Peng Guo Full waveform inversion for macro reservoir parameters based on isotropic patchy media assumptions

3:00 - 3:10 COFFEE BREAK

3:10 - 4:50 SEISMIC MODELING, INVERSION AND HARDWARE

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Wenlong Wang Two Syn-extrapolation algorithms for vector domain P-S separation

Ting Gong Target oriented joint AVA/PVA inversion for V_p , V_s and density using post-migration PP / PS reflections in ADCIGs

Peng Guo Sensitivity of anisotropic attenuation and velocity, to reservoir parameters in fractured media

Sasmita Mohapatra UTD computing environment, updates, and future plans

4:50 - 5:30 POSTERS AND DISCUSSION (POSTERS WILL BE UP BOTH DAYS)

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- 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
- Hai Gao Comparing wave-based and ray-based methods for computing wavepaths for velocity updates
- Ernesto Oropesa Anisotropic parsimonious prestack depth migration
- Titilope Kutemi Relations between anisotropies of permeability, electrical conductivity, and dielectric permittivity, with application to the Ellenberger dolomite reservoir analog
- Hu Jin Parsimonious tomography of focusing operators
- Matt Browning New method for normal mode problems: Sobolev gradient steepest descent
- Xiaoyu Zhang Multipathing in the incident angle, depth, and image time domain.
- Authors Reprints of 2013 papers

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

THURSDAY APRIL 3: MORNING SCHEDULE

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

8:30 - 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 Simultaneous, angle-dependent inversion of 3D
data from off-shore Angola

Sasmita Mohapatra Prediction and subtraction of high amplitude
coherent noise

9:45 - 10:00 COFFEE BREAK

10:00 - 12:00 ANGLE-DOMAIN COMMON-IMAGE GATHERS

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Hu Jin Comparison of methods for extracting ADCIGs from RTM

Chen Tang Combining source direction vectors with wavefield
decomposition to calculate angle gathers from
reverse-time migration

Hu Jin Removing smearing-effect artifacts in 2D ADCIGs
from RTM

Zabi Khaxar Angle-domain CIGs for data from 3D heterogeneous
elastic isotropic media using RTM

12:00 - 1:10 LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

THURSDAY APRIL 3: AFTERNOON SCHEDULE

1:10 - 2:15 ALGORITHMS

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Hu Jin Improving efficiency in calculating ADCIGs from
2D and 3D RTM

Wenlong Wang Vector image conditions for elastic RTM

Xiaoyu Zhang Multipathing in the incident angle, depth, and
image time domain.

2:15 - 2:25 COFFEE BREAK

2:25 - 2:50 SUMMARY OF OTHER 2013 PROJECTS

George McMechan

2:50 - 3:15 DISCUSSION / QUESTIONS

3:15 ADJOURN TO SNACKS & COFFEE