

AGENDA

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UT-Dallas Geophysical Consortium
2015 Annual Sponsor's Meeting
March 2 & 3, 2015

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

MONDAY MARCH 2: MORNING SCHEDULE

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

9:30 - 9:50 SUMMARY OF 2014 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

9:50 - 12:30 REVERSE-TIME MIGRATION

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Bao Nguyen Computational strategies and image conditions
for elastic prestack reverse-time migration

Chen Tang Time-shift multi-component Poynting vectors for compu-
ting ADCIGs from RTM: I Multicomponent Poynting vectors

Wenlong Wang Isotropic elastic & viscoelastic P-S separation in
the vector domain

11:05 - 11:15 COFFEE BREAK

Chen Tang Time-shift multi-component Poynting vectors for compu-
ting ADCIGs from RTM: II Speeding up and time shifting

Wenlong Wang Vector-based elastic RTM

Peng Guo Low-rank viscoacoustic modeling and Q-compensated RTM

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

MONDAY MARCH 2: AFTERNOON SCHEDULE

1:30 - 3:00 FULL WAVEFIELD INVERSION

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

Li Ren 2D and 3D FWI of surface waves for shear velocity
estimation

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

3:00 - 3:10 COFFEE BREAK

3:10 - 4:50 SEISMIC MODELING, INVERSION AND HARDWARE
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Ting Gong	Target oriented joint AVA/PVA inversion for Vp, Vs and density using post-migration PP / PS reflections in ADCIGs
Peng Guo	Sensitivity of 3D synthetic seismograms to anisotropic attenuation and velocity in reservoir models
Yulang Wu	True amplitude recovery in reverse-time extrapolation of plane and spherical waves
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
Bao Nguyen & Ting Gong	A signed vector magnitude imaging condition for elastic prestack RTM
Xinfa Zhu	Comparison of methods for modeling phase variation with angle
Xinfa Zhu	Analysis of amplitude and phase variation with ray parameter in the T-p domain
Ernesto Oropeza	Anisotropic parsimonious prestack depth migration
Xiaoyu Zhang	Multipathing in the incident angle, depth, and image time domain.
Xin Fu	Approaches to inversion
Authors	Reprints of 2014 papers
Geoscience Department	Overview of Department research activities
UTD SEG Student Chapter	Activities

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

TUESDAY MARCH 3: MORNING SCHEDULE

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

8:30 - 9:55 ANALYSIS AND INTERPRETATION OF FIELD, RESERVOIR ANALOG,
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AND SYNTHETIC DATA
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Zabiholla Khaxar Processing, interpretation and comparison of GPR
data modern and ancient sedimentary environments

Marianne Reyes Boet Simultaneous, angle-dependent inversion of 3D
data from off-shore Angola

Sasmita Mohapatra Prediction and subtraction of high amplitude
coherent noise

9:55 - 10:10 COFFEE BREAK

10:10 - 11:30 ANGLE-DOMAIN COMMON-IMAGE GATHERS
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Hu Jin Removing smearing-effect artifacts in 2D ADCIGs
from RTM

Zabi Khaxar Angle and azimuth domain CIGs for 3D heterogeneous
elastic isotropic media using RTM

Hu Jin Improving performance in 2D and 3D ADGIGs from RTM

11:40 - 12:30 LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

TUESDAY MARCH 3: AFTERNOON SCHEDULE

12:30 - 1:45 ALGORITHMS AND APPLICATIONS
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Xiao Liang Geophysical model building by 3D printing

Hai Gao Wavepath-based migration velocity updates

Mohammed Alkharji Fractured reservoir characterization by least
squares inversion of the elastic tensor

1:45 - 1:55 COFFEE BREAK

1:55 - 2:20 SUMMARY OF OTHER 2014 PROJECTS

George McMechan

2:20 - 2:45 DISCUSSION / QUESTIONS

2:45 ADJOURN TO SNACKS & COFFEE