

AGENDA

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UT-Dallas Geophysical Consortium  
2012 Annual Sponsor's Meeting  
March 1 & 2, 2012

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

THURSDAY MAR 1: MORNING SCHEDULE

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

9:45 - 10:00 SUMMARY OF 2011 PROJECTS AND CONSORTIUM HIGHLIGHTS

George McMechan

10:00 - 12:15 REVERSE TIME MIGRATION AND MIGRATION VELOCITY ANALYSIS

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Ernesto Oropeza	Anisotropic parsimonious prestack depth migration
Bao Nguyen	Elastic RTM with the excitation amplitude image condition
Xinfa Zhu	PVA and AVA Analysis in RTM and ADCIGs
Xiaoyu Zhang	Solutions of multipathing in the image-time, depth, and incident-angle domain
Qunshan Zhang	Polarization-based wave-equation migration velocity analysis in acoustic media

12:15 - 1:30 BUFFET LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

THURSDAY MAR 1: AFTERNOON SCHEDULE

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1:30 - 2:50 VELOCITY ANALYSIS

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Hu Jin Velocity analysis by tomography of focusing

operators

Luiz Santos            Diffraction-based CFP tomography

Ernesto Oropeza      2-D common-reflection point analysis for TI  
media

Hu Jin                Polarization-based wave-equation migration  
velocity  
analysis; theory for anisotropic media and  
development

2:50 - 3:00    COFFEE BREAK

3:00 - 4:30    ALGORITHMS AND HARDWARE

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Roberto Falcon        Estimation of crack properties from measured  
elastic tensor elements at high crack density  
(Preliminary results)

Matt Browning        A steepest descent method for computing surface  
wave modes

Sasmita Mohapatra    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)

Ernesto Oropeza      Anisotropic parsimonious prestack depth  
migration

Hu Jin                Parsimonious tomography of focussing operators

Xinfa Zhu            Comparison of methods for modeling phase  
variation with angle

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 2011 papers

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

FRIDAY MARCH 2: MORNING SCHEDULE

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

8:00 - 10:00 FIELD AND SYNTHETIC DATA ANALYSIS AND INTERPRETATION  
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|-------------------|----------------------------------------------------------------------------------------------------|
| Ting Gong         | 2D CRP-based migration velocity analysis for strong topographic overthrust data                    |
| Gordon Davison    | Characterizing gas hydrates using elastic seismic inversion: Offshore Angola                       |
| Zabiholla Khaxar  | Processing, interpretation and comparison of data from modern and ancient sedimentary environments |
| Heru Rusmanugroho | 3D, 9-C seismic modeling and inversion of Weyburn Field data, Saskatchewan, Canada                 |
| Scott Lavy        | Decoding the Cenozoic shelf-slope region of the South Texas Gulf Coast with 3D seismic data        |

10:00 - 10:15 COFFEE BREAK

10:15 - 11:45 FULL-WAVE SEISMIC INVERSION  
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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Roberto Falcon  | Influence of source distribution on convergence of scalar fullwave acoustic anisotropic inversion                                                 |
| Sylvia Pachecho | Full wavefield reflectivity inversion for synthetic data from elastic and viscoelastic anisotropic shale-bounded, fractured sandstone reservoirs. |
| Kun Xu          | Frequency- and Laplace-domain full-waveform inversion                                                                                             |

11:45 - 1:00 LUNCH & INFORMAL DISCUSSION (GALAXY ROOM)

FRIDAY MARCH 2: AFTERNOON SCHEDULE

1:00 - 2:15 WAVE EQUATION EXTRAPOLATION; 3D, PHASE, AND  
RECONSTRUCTION

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

Xinfa Zhu        Elastic Phase variation with angle (PVA) inversion  
with the reflectivity method

Bao Nguyen      Elastic source wavefield reconstruction techniques

2:15 - 2:25 COFFEE BREAK

2:25 - 2:50 SUMMARY OF OTHER 2011 PROJECTS

George McMechan

2:50 - 3:15 DISCUSSION / QUESTIONS

3:15 ADJOURN TO SNACKS & COFFEE