

Texas Consortium for Computational Seismology

Fifteenth Bi-Annual Research Meeting

| Thursday, April 19, 2018 | | |
|--------------------------|---|---|
| 8:00–8:30 | Coffee and pastries | |
| 8:30–9:00 | Sergey Fomel | Introduction |
| 9:00–12:00 | <i>Full Wave Inversion and Imaging</i> | |
| | Björn Engquist Yunan Yang Harpreet Kaur Sarah Greer | New developments in mathematics of waves Full waveform inversion using optimal transport Seismic imaging in stratigraphic coordinates Least-squares migration using matching |
| 12:00–1:00 | Lunch | |
| 1:00–5:00 | <i>High-Resolution Imaging</i> | |
| | Dmitrii Merzlikin Ben Gremillion Xinming Wu Sean Bader Sergey Fomel | Diffraction imaging High-resolution dip moveout and stacking Fault detection algorithms Well-log matching and interpretation Anisotropic parameterizations |
| 5:30–8:30 | Wine reception and dinner at Omni Westside Hotel | |

| Friday, April 20, 2018 | | |
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| 8:00–8:30 | Coffee and pastries | |
| 8:30–12:00 | <i>Deep Learning</i> | |
| | Lei Huang (Prairie View A&M) Yunzhi Shi Xinming Wu Nam Pham Zhicheng Geng | Deep learning platform for seismic data analysis Deep learning in interpretation and inversion Deep learning for fault detection Deep learning for channel detection Fast seislet transform |
| 12:00–1:00 | Lunch | |
| 1:00–3:00 | <i>Multiples and Deconvolution</i> | |
| | Clement Kostov (Schlumberger) Luke Decker Yuhan Sui (HIT) | New developments in multiple attenuation Seismic deconvolution using finite elements Seismic deconvolution using atomic norm |

The meeting location is BEG Houston Research Center,
11611 West Little York Road, Houston, TX 77041.

The dinner location is Omni Westside Hotel,
13210 Katy Freeway, Houston, TX 77079.