

**SCITS 2018 AFFILIATES MEETING AGENDA**

**November 29 and 30, 2018**

**[Pioneer Building, 3617 N. Big Spring](#)**

**[Room 1102, Midland, TX 79705](#)**

**DAY 1: Thursday, November 29**

**Morning Session**

**Location: Pioneer's Offices**

- 9:30am**            **Continental Breakfast**
- 10:00am            *Welcome* – Mark Zoback and Claudia Baroni
- 10:10–11:00am    Physics-based hazard forecast for induced earthquakes (Cornelius  
Langenbruch)
- 11:00-11:30am    DAS: Game changing technology for monitoring (Biondo Biondi)
- 11:30-11:50am    **Coffee Break**
- 11:50-12:00pm    The Importance of Data-Driven Seismology for Understanding  
Induced Seismicity (Greg Beroza)
- 12:00-12:15pm    Real-time FAST for TexNet earthquakes (Yongsoo Park)
- 12:15-12:30pm    Using dense seismic arrays for induced earthquakes (Zack Spica)
- 12:30-12:45pm    Using crustal structure to improve magnitude and ground motion  
prediction (Fatimah Al-Ismail)
- 12:45-1:00pm     Applying machine learning for analysis of induced earthquakes  
(Mostafa Mosavi)
- 1:00-2:00pm**     **Lunch**

**Afternoon Session (Please note change in location)**

To accommodate non-member guests, the afternoon session will be held at the  
**Midland Country Club** ([6101 N. Highway 349 Midland, Texas 79705](#)).

**Afternoon Session**

- 3:00-3:15pm Welcome (Mark Zoback and Bill Ellsworth)
- 3:15-3:35pm Identification of potentially active faults (Mark Zoback)
- 3:35-4:00pm State of stress in the Permian Basin and other unconventional plays  
(Jens Erik Lund Sneek)
- 4:00-4:15pm Coffee Break**
- 4:15-4:30pm Aaron Velasco, Texas State Seismologist
- 4:30-5:15pm Activities by CISR and TexNet in the Permian Basin (Peter Hennings  
and Alexandros Savvaidis, UT Bureau of Economic Geology)
- 5:15-5:30pm Reducing the hazard of induced earthquakes – what we need to  
know (Cornelius Langenbruch)
- 5:30-5:45pm Vertical ground motion resulting from production and injection in  
the Permian Basin (Karrissa Pepin)
- 5:45-5:55pm Marianne Karplus, UTEP dense seismic array near Pecos
- 5:55-6:10pm Precision seismology for induced seismicity (Greg Beroza and Bill  
Ellsworth)
- 6:10pm Networking Reception**
- 6:45pm Dinner**

**Day 2: Friday, November 30**

**Morning Session**

**Location: Pioneer's Offices**

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[Room 1102, Midland, TX 79705](#)

**8:30-9:00am Breakfast**

9:00-9:15am Initial look at Delaware Basin seismicity – Bill Ellsworth

9:15-9:45am Group discussion of Permian Basin seismicity

9:45 -10:00am Extending the Seismogenic Index Model – Cornelius Langenbruch

10:00-10:20am FSP 2.0 – Suvrat Lele

10:20-10:40am Injection into basement – lessons from deep EGS projects – Bill  
Ellsworth

10:40-11:00am **Coffee Break**

11:00-12:00am Open discussion with affiliates

**12:00 Adjourn**