

**SCITS Tentative Agenda**  
**May 7<sup>th</sup> - 8<sup>th</sup>, 2019**  
**Black Community Center, Stanford University**  
**[418 Santa Teresa Street, Stanford, CA 94305](#)**

**DAY 1: Tuesday, May 7<sup>th</sup>**

**8:00am**                      **Continental Breakfast on Patio**

8:30 – 8:45                Welcome – Prof. Mark Zoback and Prof. Bill Ellsworth  
SCITS Program Status – Claudia Baroni

**Morning Session**

8:45 – 9:00                Delaware Basin Seismicity (Prof. Bill Ellsworth)

9:00 – 9:15                Induced seismicity in the Cogdell oil field (Yongsoo Park)

9:15 – 9:30                WTX Subscriber Array - New Research-grade Data Set Acquisition  
Concept (Dario Baturan, Nanometrics)

9:30 – 10:15              Signatures of Wastewater Disposal and Hydraulic Fracturing in  
Oklahoma: Recent Developments and Future Directions (Andy  
Barbour, Robert Skouma, USGS)

**10:15 – 10:45**              **Break and Posters**

10:45 – 11:15              Pohang Earthquake triggered by EGS Injection (Prof. Bill Ellsworth)

11:15 – 12:00              Discussion

**12:00 – 1:00**                **Lunch on Patio**

## **Afternoon Session**

- 1:00 – 1:40      Earthquakes induced by hydraulic fracturing in the Sichuan basin  
(Chen Ying)
- 1:40 – 2:10      Seismic velocity analysis and velocity-based event detection using  
downhole DAS records - examples from SAFOD (Ariel Lellouch)
- 2:10 – 2:30      Evaluation of catalog declustering algorithms for induced seismicity  
hazard analysis (Ganyu Teng, Prof. Jack Baker)
- 2:30 – 3:00      Break**
- 3:00 – 3:40      Ground deformation resulting from production and injection in the  
Permian Basin (Karissa Pepin)
- 3:40 – 4:00      Modeling of microseismic events and fault slip during hydraulic  
fracturing (Ali Kashefi, Prof. Eric Dunham)
- 4:00 – 4:20      FSP Update (Ankush Singh)
- 4:20 – 4:45      Open Discussion**
- 4:45 - 6:30      Reception and Posters**

### **Posters:**

- Induced seismicity in the Cogdell oil field - Yongsoo Park
- Modeling of microseismic events and fault slip during hydraulic fracturing - Ali Kashefi
- Seismic velocity analysis and velocity-based event detection using downhole DAS records - examples from SAFOD – Ariel Lellouch
- Vertical ground motion resulting from production and injection in the Permian Basin – Karissa Pepin
- Hydraulic Fracturing Induced Seismicity in Oklahoma- Cornelius Langenbruch
- State of stress and active tectonics in North America: Impacts for induced seismicity – Jens Erik Lund Snee
- Hydraulic Fracturing Induced Seismicity in Delaware Basin – Noam Dvory

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**Day 2: Wednesday, May 8<sup>th</sup>**

<b>8:00am</b>	<b>Continental Breakfast on Patio</b>
8:30 – 8:50	The role of pore-pressure distribution and fault roughness on induced rupture lengths (Prof. Paul Segall)
8:50 – 9:30	Hydraulic Fracturing Induced Seismicity in Oklahoma (Cornelius Langenbruch)
9:30 – 10:00	Hydraulic Fracturing Induced Seismicity in Delaware Basin (Noam Dvory)
10:00 - 10:05	State of stress and active tectonics in North America: Impacts for induced seismicity (Prof. Mark Zoback)
<b>10:05 – 10:30</b>	<b>Break and Posters</b>
10:30 – 11:00	Towards Collaborative Earthquake Monitoring involving Stanford, UTEP, and BEG using Machine Learning on Data from a Nodal Deployment near Pecos (Prof. Greg Beroza)
11:00 – 12:00	Open Discussion – Future directions, Nanometric proposal, USGS collaboration
<b>12:00 – 1:30</b>	<b>Lunch</b>