



**Stanford 2013 Program:**  
**DTS in Earth Sciences**  
**December 7-8, 2013**

**December 7**

<b>7:30 - 8:15</b>	Registration
<b>8:15-8:30</b>	Introduction to the Workshop. John Selker
<b>8:30-9:10</b>	Distributed temperature sensing using fiber optics: The Physics. Scott Tyler
<b>9:10-9:30</b>	Introduction to instrument selection. John Selker
<b>9:30-10:15</b>	Installations to date. Scott Tyler, Nick van de Giesen, and John Selker.
<b>10:15-10:45</b>	Coffee break and first chance to see equipment.
<b>10:45-12:00</b>	Concepts in calibration (bring your laptop with Excel!). Nick van De Giesen.
<b>12:00 – 12:30</b>	Start hands-on calibration exercise
<b>12:30 - 1:15</b>	Lunch – Multi-regional feast.
<b>1:15 – 2:00</b>	Calibration: Real world challenges Algorithms and Tools. Scott Tyler
<b>2:00 – 2:30</b>	Installation and power, fiber selection. John Selker
<b>2:30 – 3:15</b>	Hands-on Demonstration of DTS and Splicer (runs parallel to calibration)
<b>3:15-4:45</b>	Completion of calibration exercise
<b>4:45-5:15</b>	Recap of questions, answers, and outstanding issues.

**December 8**

<b>8:00-8:45</b>	Instrument specs data quality
<b>8:45-9:30</b>	Brugg and AFL: cable design and field deployment
<b>9:30-12:00</b>	Data analysis breakout (working in teams): Real data, real problems!
<b>12:00 -1:00</b>	Lunch
<b>1:00-2:00</b>	Overview of data sets, including from participants
<b>2:00-3:30</b>	Group presentations of data analysis
<b>3:30-4:00</b>	Coffee Break
<b>4:00-4:30</b>	Wrap-up discussion and evaluations