



Stanford CTEmps 2016 Workshop Program:
Fiber Optics in Earth Sciences
December 10-11, 2016

December 10th

7:30 - 8:15	Registration light breakfast and coffee [Braun Hall, Building 320]
8:15-8:30	Introduction to the workshop. John Selker
8:30-9:30	Sensing using fiber optics: The Physics. Scott Tyler
9:30-10:15	DTS Installations to date. Scott Tyler and John Selker .
10:15-10:45	Coffee break and time to see and interact with the equipment.
10:45-11:45	Concepts in calibration (bring your laptop with Excel!).
11:45 – 12:15	New developments in DTS – Thomas Coleman and Athena Chalari – Silixa
12:15 - 1:15	Lunch
1:15 – 2:00	iDAS - special issues and examples from the field
2:00 – 2:30	Installation and power, fiber selection. John Selker
2:30 – 4:00	Hands-on Demonstration of DTS, iDAS and Splicers Full Team
4:00 - 4:45	Instrument specs, Introduction to instrument selection. John Selker
4:45-5:15	Open discussion of observations from the day Panel Format

December 11th

8:15-8:45	Early-birds welcome to crack into muffins, coffee and data.
8:45-9:30	First look at data sets Mark Hausner and Chadi Sayde
9:30-10:15	Calibration: Real world challenges Algorithms and Tools. Mark Hausner
10:15-10:30	Coffee Break
10:30-11:45	Derived measurements from Temperature: Soils, air, wells Chadi Sayde
11:45-12:15	Second look at data: calibration Full Team
12:15 -1:00	Lunch
1:00-3:00	Third data analysis (working in teams): Real data, real problems!
3:00-4:00	Group presentations of data analysis
4:00-4:30	Wrap-up discussion and evaluations