

# **Working with Strainmeter and Tiltmeter Data: A Short Course for New Users**

**June 10-12, 2008**

## **Tuesday June 10 2008**

8:30 am	Welcome	Jackson
8:40 am	Class Introduction	Roeloffs
9:00 am	Basic concepts of strain and tilt	Roeloffs
10:00 am	Instrumentation for monitoring crustal deformation	Agnew
10:30 am	Break: Visit warehouse to see a strainmeter	
11:00 am	Understanding PBO strainmeter data	Hodgkinson
12:00 pm	Lunch	
1:00 pm	Signals and trends in PBO borehole strainmeter data	Hodgkinson
2:00 pm	BAYTAP-G: Determining tides in strainmeter data	Agnew
3:00 pm	Break	
3:15 pm	Earth Tides: Theory and practice	Agnew
4:30 pm	Adjourn	
Evening Presentation:		
5:00 pm	How to install a borehole strainmeter	Mencin

## **Wednesday June 11 2008**

8:30 am	Calibration of borehole strainmeters: Theory	Roeloffs
10:15 am	Break	
10:30 am	SPOTL: Calculating the predicted tides for a strainmeter	Agnew

11:00 am Calibration of borehole strainmeters: Practice Roeloffs

12:00 pm Lunch

1:00 pm Class Practical: Download and compute the tides in a  
strainmeter data set, compare with theory.  
Agnew, Hodgkinson, Roeloffs

4:30 pm Adjourn

### **Thursday June 12 2008**

8:30 am Laser strainmeters Agnew

9:30 am Questions Agnew, Hodgkinson, Roeloffs

12:00 Lunch

Adjourn

Basic concepts of strain and tilt

Instrumentation for monitoring crustal deformation

Understanding PBO strainmeter data

Signals and trends in PBO borehole strainmeter data

BAYTAP-G: Determining tides in strainmeter data

Earth Tides: Theory and practice

Calibration of borehole strainmeters:

# Theory and Practice

**SPOTL: Calculating the predicted tides  
for a strainmeter**