
**National Seismic Source Facility
Short Course Outline**

Sunday, December 8, 2013, 8:30 am to 4 pm
Zeum Room, Hotel Palomar, 12 4th St., San Francisco, CA

Instructors:

Dr. Steven Harder, University of Texas at El Paso

Harder has 15 years experience with lithospheric shots, has worked on industry seismic crews, and has provide source support for many of the lithospheric seismic experiments in the US and aboard for the last 15 years. He has worked closely with USGS shooters when the USGS was more involved in lithospheric studies. His engineering background has been useful in developing innovative drilling and blasting techniques for use in lithospheric experiments. He holds seismic shooting licenses in Georgia, Oklahoma, and British Columbia, as well as Professional Geophysics license in Texas.

Dr. Catherine Snelson, National Security Technologies, LLC

Snelson has been a seismic blaster since 1996, receiving her training during her graduate studies under the supervision of PI Harder. She has continued her education in seismic blasting; she currently holds a blaster's certificate in Nevada and British Columbia. She has served as a shooter on many U. S. controlled-source seismic experiments since 1996. She has been involved in all aspects of seismic blasting. She has conducted controlled-source seismic experiments with large explosive sources as a PI in Las Vegas, NV 2003 and Erebus volcano, Antarctica 2007-2008 and 2008-2009 seasons.

Mr. Gordon Coleman, Alpha Explosives

Coleman has over 20 years of experience in explosives safety and hold the current position of Health, Safety, & Environmental Quality (HSEQ) officer at Alpha Explosives. He has taught many explosives safety course to a variety of audiences to the basics in explosives to the use of electronic detonators. He tailors his course for the audience intended. He has conducted safety courses for seismic blasters previously. He holds several blasting certifications in Hawaii, Nevada, and California.

Course Outline

0830: Administrative Announcements	Snelson
0840: Overview of the NSS	Harder
Overall Plan for the Facility	
The Evolution of Seismic Blasting	
0910: Explosives Safety	Coleman
1000: Break	
1015: Explosives Safety cont'd	Coleman
1130: Lunch will be provided.	
1230: Explosives Safety cont'd	Coleman
1345: Break	
1400: The Practice of Seismic Blasting	Snelson
Geologic Considerations	
Common Practice & Communication	
Permitting & Management	
1600: Adjourn for the day	All

Seating is limited, please register with Steve Harder harder@utep.edu by November 8, 2013.