What Will You Learn?

Ever wonder how dynamite works? How about fireworks? At the 2012 Summer Explosives Camp, you will not only learn how these things work, you will be able to get hands on experience! You will learn:

1. Safety precautions when handling explosives.
2. How to prime and shoot dynamite.
3. Where explosives are used.
4. What explosives related careers are available.
5. How underground blasts work.
6. How pyrotechnics are used in special effects.
7. How to set up and shoot off a fireworks display.
9. and much more!

What Will You Do?

At the 2012 Summer Explosives Camp you will have the unique opportunity to have hands-on learning experience with explosives: the first and best camp of its kind! The course will comprise a variety of lectures, demonstrations, handling & shooting of explosives, field trips, projects and culminate in the setup and shooting of a fireworks display. It will encompass detonators, high explosives, blasting agents, rock blasting, display fireworks and demolition. You will have a behind-the-scenes look at how explosives are used in industry and in entertainment. But the number one thing that you will do at the Summer Explosives Camp is have fun!

S&T (formerly UMR)
Mining Engineering Program

The Missouri University of Science and Technology was founded in 1870 as the Missouri School of Mines and was the first technological institution west of the Mississippi River. Before 1920, most of the curriculum was centered around the mining industry and although S&T has expanded its emphasis to include other majors, the mining program is still at the heart of the university. The mining department has an exceptional reputation. You will gain hands-on experience at the experimental mine and get to work with world-renowned faculty. The department also offers many scholarships and work opportunities to students. The students take what they learn in the classroom and use it in the real world. Our graduates are highly sought after and receiving job offers as high as $87,000 per year. Our mining program is probably the top program in the United States, is very progressive and has a growing faculty. Statistics like that show how reputable S&T and its mining program is. Using its reputation in the field of explosives engineering, the department has been aggressively expanding its explosives classes. In 1997, S&T (then UMR) was the first university to offer an explosives emphasis, and in 2005 a minor in explosives engineering was added, culminating in a Masters in Explosives Engineering approved in 2010.

“I just love this job! Where else could you get to blow up such a variety of stuff!” Lead Instructor: Professor Paul Worsey. Co-Host of “The Detonators” on Discovery Channel and seen on TLC (Demolition Day Seattle Kingdom), the Discovery Channel (3 Rivers Stadium), and National Geographic (Demolition Dynasty) and the winner of the 2002 International Society of Explosives Engineers President’s Award and many other awards.
Other Activities

You will have the opportunity to go on various field trips, including an underground field trip to view underground blasting operations, a quarry field trip to view surface blasting, and a trip to Premier Pyrotechnics to go on a pyrotechnics tour.

Question & Answers

Who gets to go? Twenty Junior and Senior high school students per camp who are interested in enrolling at S&T and are at least 16 by the first day of camp.

How much attention will I get? Course staff to student ratio is normally 1 per 4 to 5 students, unprecedented anywhere!

How do I get selected? Send the following
1) One page resume
2) 500 word essay on “Why I am interested in a career focusing on the application of explosives”
3) A letter of recommendation from a high school teacher or counselor to:

   Mining and Nuclear Engineering
   226 McNutt Hall
   Missouri University of Science and Technology
   Rolla, MO 65409

   How much does it cost? The cost per student is $1,300, including room and board.

   How will I know if I get selected? We will notify you by email around May 1st.

   Who do I contact if I have other questions? You can email the following people:
   Dr. Paul Worsey pworsey@mst.edu
   Barbara Robertson barb@mst.edu

Don’t waste time! Application deadline is April 15th!

2012 Summer Explosives Camps

   #18 June 3 - June 8
   #19 June 10 - June 15
   #20 June 17 - June 22

   http://explosives.mst.edu

S&T Experimental Mine ranked #1 in Popular Science’s Awesome College Lab Ranking. September 2010 and 2011 issues.

Missouri’s Technological University and #1 ranked Public University