

What Will You Learn?



Loading of C4 for a demolition demonstration -
2005 Explosives Camp

Ever wonder how dynamite works? How about fireworks? At the 2013 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.How to learn about explosives at college.
- 5.What explosives related careers are available.
- 6.How underground blasts work.
- 7.How pyrotechnics are used in special effects.
- 8.How to set up and shoot off a fireworks display.
- 9.Basics of explosives demolition.

and much more!



Getting ready for the firework show at school mine
2011 Explosives Camp



Opening Night for the 2007 Camp. Close Proximity
Pyro in front of the Havener Center

What Will You Do?

At the 2013 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!



Demonstrating "The Wall of Fire" at the
2006 Explosives Camp

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.



Explosives Summer Camp was featured in
The New York Times in July 2007.

"I just love this job! Where else could you get to blow up such a variety of stuff!" Lead Instructor: Professor Paul Worsley. 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



2010 Camp participant at Capital Quarry programming electronic detonator on a surface shot

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.



2010 Camp participants pose before going underground at The Doe Run Co.

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 \$1,350, 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!

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

2013 Summer Explosives Camps



#21

June 2 - June 7

#22

June 9 - June 14

#23

June 16 - June 21

<http://explosives.mst.edu>



Missouri's Technological
University and #1 ranked
Public University