

What Will You Learn?



Ever wonder how dynamite works? How about fireworks? At the 2007 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. How to prime and shoot dynamite.
2. Safety precautions when handling explosives.
3. Where explosives are used.
4. The curriculum and department of Mining Engineering at UMR.
5. What careers are available that are explosive related.
6. How underground blasts work.
7. How explosives are used in industry.
8. How to set up and shoot off a fireworks display.



9. And much more!
Loading dynamite underground at school mine.



Fireworks on campus

What Will You Do?

At the 2007 Summer Explosives Camp you will have the unique opportunity to have hands-on learning experience with explosives: the first and only 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!



UMR and the Mining Engineering Program

The University of Missouri-Rolla was founded in 1870 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 UMR 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. In the past ten years, UMR has had an astounding 100% job placement for all seniors who wanted it. Not only did they get jobs, they had great starting salaries as well! Statistics like that show how reputable UMR 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, UMR was the first university to offer an explosives emphasis, and in 2005 a minor in explosives engineering was added.



“I just love this job! Where else could you get to blow up such a variety of stuff!”

Lead Instructor: Professor Paul Worsey
As 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.

Other Activities



2005 camp students at Capital Quarries for a 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.

Bring the sunscreen and beach towel! There will be plenty of outdoor explosives and leisure activities, including a barbecue!



So what is the best part of setting up a fireworks display? Shooting it! After the pyrotechnic tour, you will get to put on your very own show!

Questions

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

How do I get selected? Send the following

- 1) One page resume
- 2) 250 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
University of Missouri-Rolla
Rolla, MO 65409

How much does it cost?

The cost for the students will be \$450
This will include room and board.

How will I know if I get selected?

We will notify you by email or mail
around May 1st.

Who do I contact if I have other questions?

You can email the following people:

Dr. Paul Worsey pworsey@umr.edu
Barbara Robertson barb@umr.edu



**Don't waste time!
Application deadline
Is April 1th!**

2007

Summer Explosives Camps



2004 Fireworks on UMR campus

**June 3 – June 9
&
June 17 – June 23
2007**