

annual
BLASTERS
training seminar
MARCH 8-10, 2010
St. Charles Convention Center, St. Charles, Missouri

Register online at <http://blasters.mst.edu>

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State licensing of Blasters became mandatory on **January 1, 2009**. Don't leave the required training until the last minute.

Course Content

- Selection of the type of explosives to be used
- Blast designs
- Initiation systems and blasting machines
- Loading blast holes
- Blasting vibrations and airblast
- Secondary blasting applications
- Federal and state laws and regulations
- Blast records
- Schedules
- Preblast surveys
- Blast plan requirements
- Signs, warning signals and site control
- Unpredictable hazards

Blasters' Training Seminar Schedule | March 8-10, 2010

Monday March 8, 2010

7:30 a.m. - 8:00 a.m.
Registration

8:00 a.m. - 8:15 a.m.
Introduction

8:15 a.m. - 12:00 noon
Program/Refresher Course

Noon - 1:00 p.m.
Lunch on your own

1:00 p.m. - 5:00 p.m.
Program/Refresher Course

Tuesday March 9, 2010

7:30 a.m. - 8:00 a.m.
Registration

8:00 a.m. - 12:00 noon
Program/Refresher Course

Noon - 1:00 p.m.
Lunch on your own

1:00 p.m. - 5:00 p.m.
Program/Refresher Course

Wednesday March 10, 2010

8:00 a.m. - 12:00 noon
Program

Morning and afternoon breaks are provided each day.

Breakfast cooked to order and a daily Manager's Reception are complementary as a guest of Embassy Suites.

Register now for Blasters Training — online at <http://blasters.mst.edu>

annual **BLASTERS** training seminar

March 8-10, 2010
 St. Charles Convention Center
 St. Charles, Missouri

Presented by Missouri S&T's Mining Engineering Department in conjunction with Missouri Limestone Producers' Association

This course will assist you in preparing for the State Blasting Certification

Course Objective

This 20-hour course provides participants with basic training for blasting in the crushed stone and construction industries. It is of invaluable use for individuals concerned with other aspects of blasting, such as those used by underground mines and utility companies. The course also acquaints participants with federal and state licensing, purchase, transportation and storage regulations. Experienced blasters and engineers may use the course as both a refresher and an update on new products, blasting techniques, and regulations, as well as to enhance their blasting knowledge and skills.

The course fulfills the training requirement portion of the Missouri State Blasters licensing as of Jan. 1, 2009.

Course Guest Lecturers

Past guest lecturers from industry have included:

Austin Powder Dyno Nobel Midwest
 ECI Orica
 Missouri S&T Vibra-Tech Engineers

Course Materials

A DVD of course notes will be provided to each participant.

Registration and Fees

Enrollment is limited to 40 participants. The registration fee is \$650 (\$600 for MLPA and SEE affiliates) and covers program materials, coffee breaks and instructional costs.

Those wishing to take the new blasters licensing exam should contact the Office of the State Fire Marshal (573-751-2930). Missouri S&T reserves the right to cancel the course and return all registration fees, if minimum registration is not reached.

No refunds for cancellations will be made after Feb. 19, 2010

Refresher Course

Either full day, Monday or Tuesday, can be used to earn 8.0 Professional Development Hours (PDHs) equivalent to 0.8 Continuing Education Units (CEUs) for recertification. The fee for the one-day refresher course is \$250.

Continuing Education Units

Completion of the full three-day course will qualify attendees to receive 20 PDHs, equivalent to 2.0 CEUs.



Course Director

Dr. Paul Worsley, Professor of Mining Engineering at Missouri University of Science and Technology

Dr. Worsley has over 25 years of explosives and blasting experience and has been involved in blasting training for over 15 years. He has been on numerous programs such as TLC, Discovery and History channels, and *National Geographic* highlighting

explosives, blasting and demolition. He most recently co-hosted *The Detonators*, a series on Discovery.

Dr. Worsley is responsible for the first university courses in the nation in commercial pyrotechnics and demolition. He has over 200 publications and has taught over 60 short courses on blasting throughout the world and consults in the field of blasting.

At Missouri S&T, Dr. Worsley's work has included blast casting, underground tunnel blasting, perimeter blasting, high speed video analysis of blasts, the development of a blast plug, fuse design, and explosive testing and formulation.

Before coming to Missouri S&T in 1981, he worked for the TRRL in Scotland, troubleshooting highway blasting contracts in the Highlands and doing extensive work on pre-split blasting. He holds an MS in rock mechanics and excavation engineering and a Ph.D. in mining engineering from the University of Newcastle-upon-Tyne in England.

For Technical Information

Dr. Paul Worsley, Missouri S&T, 226 McNutt Hall, Rolla, MO 65409-0660
 Phone: (573) 341-4317, Email: pworsley@mst.edu

Training Location and Lodging

Blasters Training Location

St. Charles Convention Center
 One Convention Center Plaza
 St. Charles, MO 63303

Lodging at the Embassy Suites

Two Convention Center Plaza
 St. Charles, MO 63303

For Reservations, call 1-800-EMBASSY by Feb. 19, 2010, and mention the Missouri S&T special group rate of \$119.



St. Charles Convention Center

Blasters Training Seminar Registration Form | March 8-10, 2010

Please fill out the form below, or register online at <http://blasters.mst.edu>

Mr. / Ms. (Please print or type) Preferred First Name: _____

Name _____ Last _____ First _____ MI _____

Company _____

Address [home / work] _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

Method of Payment: ___ Check ___ Purchase/Money Order (payable to: Missouri S&T)

Credit Card Information: Discover VISA MasterCard

Card #: _____ Exp. Date _____

Print Name as it appears on Credit Card: _____

Credit Card Holder/Signature _____

- Full Registration Fee \$650
- MLPA & SEE Member Fee \$600
- Refresher Course Fee \$250

Total Enclosed \$ _____

I will attend the Refresher Course on
 Monday Tuesday

Detach and mail or fax to:

Distance and Continuing Education

216 Centennial Hall 300 W. 12th Street
 Missouri S&T, Rolla, MO 65409-1560
 Phone (573) 341-4442 | Fax (573) 341-4992

Cancellation Policy – Missouri S&T reserves the right to cancel its programs in the event of insufficient registrations, instructor illness, severe weather, or natural disaster. In the event of cancellation, registrants will be notified immediately and all fees will be refunded in full. Persons wishing to cancel their registrations must do so by **Feb. 19, 2010**. Refunds will not be made after this date.