



# Agenda

## *Welcome & Introductions*

Sam Hollins–Virginia  
Transportation Construction  
Alliance

## *Introduction to Basic Seismic Principals*

Mike Donahue–Vibra-Tech  
Engineers, Inc.

## *Review of Changes to Safety & Health Regulations*

Vernon Harris–DMM

## *Question & Answer Session*

Vibra-Tech Engineers and DMM  
personnel

## *Conclusion*

Sam Hollins



## Upcoming VTCA Events

Northern Virginia District Dialogue  
November 5, 2009  
Marriott Fair Oaks  
Fairfax, Virginia

2010 VTCA Winter Meeting  
January 30-February 4, 2010  
Miramonte Resort  
Indian Wells, California

Richmond District Dialogue  
March 2, 2008  
TBD  
Richmond, Virginia

2010 VTCA Spring Conference  
April 14-16, 2010  
Hampton Roads Convention Center &  
Embassy Suites  
Hampton, Virginia

2010 VTCA Annual Meeting  
July 15-18, 2010  
Wyndham Virginia Beach Oceanfront  
Virginia Beach, Virginia



**FOR ADDITIONAL INFORMATION CALL  
OR WRITE:**

Virginia Transportation Construction Alliance  
620 Moorefield Park Drive  
Suite 120  
Richmond, VA 23236

Phone: 804-330-3312  
Fax: 804-330-3850  
Email: vtca@vtca.org

*A VTCA Member*

*Lunchbox Seminar*

# *Basic Seismic Principles*



Charlottesville Division of Mineral  
Mining / DMME  
Charlottesville, Virginia  
November 10, 2009

10:00 a.m.–12:30 p.m.  
(lunch provided)



# Basic Seismic Principles

## VTCA LUNCHBOX SEMINAR

### Basic Seismic Principles

Division of Mineral Mining/DMME, 900 Natural Resources Drive, Suite 400, Charlottesville, VA 22903  
November 10, 2009

This two-hour session is dedicated to developing an understanding of basic seismic principals such as peak particle velocity (PPV), frequency, air overpressure, etc. Also, the seismic waveform will be broken down into its individual parts and discussed in depth to facilitate a better understanding of a blast report and develop a stronger foundation to design future blasts with.

This session is being organized and conducted under the direction of Mike Donahue with Vibra-Tech Engineers, Inc. and Vernon Harris of the Division of Mineral Mining.

#### Presenters:

**Mike Donahue** is an Area Manager with Vibra-Tech Engineers, Inc. and has 10+ years of experience with the company. Mike has a BS in Geology from Clarion University of Pennsylvania. He covers MD, VA and portions of WV and DC.

**Vernon Harris** is a mine inspector with the Division of Mineral Mining and has been with DMM since 2007. Prior to joining the DMM, Vernon spent 28 years in the mining industry with 17 of those as plant manager at various sites.

### REGISTRATION

*Individuals who will attend (if you need more space, please attach another page):*

NAME \_\_\_\_\_ NAME \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Person completing form: \_\_\_\_\_

Email: \_\_\_\_\_

### *SPACE IS LIMITED TO 30 PARTICIPANTS*

Registration includes seminar materials and lunch. Registration prior to November 3 for VTCA members is \$60.00 per person, and (AFTER NOVEMBER 3 THE REGISTRATION COST WILL BE \$75.00 PER PERSON). Payment can be made by credit card or check made payable to VTCA.

Please provide the following information below to authorize VTCA to charge your credit card.

**Circle Type of Card:** American Express Visa MasterCard

**Credit Card #:** \_\_\_\_\_ **Expiration Date:** \_\_\_\_\_

**Name on Card:** \_\_\_\_\_ **Signature:** \_\_\_\_\_

\_\_\_\_\_ **Amount to be Charged:** \_\_\_\_\_

(Credit Card Billing Address and Zip Code if different from above.)

**\*\* Refunds, less a \$10 administrative fee, are available when cancellations are received prior to the close of business November 6. Cancellations received after November 6 are not eligible for refunds. However substitutions will be allowed. \*\***

**Return to: Stacy Saunders, VTCA, 620 Moorefield Park Drive, Suite 120, Richmond, VA 23236**

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