

## Registration Form

Yes! Sign me up for:

- Blast Resistant Design (Washington DC)** Price  
\$1,900  
Feb 9 — 13, 2009

Name \_\_\_\_\_

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

Mailing Address \_\_\_\_\_

City, State Zip \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Method of Payment: (payable to BakerRisk)

- Check  Visa  
 Bill Me  MasterCard

Credit Card # \_\_\_\_\_

Exp. date \_\_\_\_\_

Signature \_\_\_\_\_

**Payment must be received by Jan. 9, 2009.**

To register, return this completed form with your payment to:

Judy Nesloney

Baker Engineering and Risk Consultants, Inc.

3330 Oakwell Court, Suite 100

San Antonio, TX 78218

Tel. (210) 824-5960

Fax. (210) 824-5964

[BakerRiskTraining@BakerRisk.com](mailto:BakerRiskTraining@BakerRisk.com)

Registrants will receive a written confirmation on receipt of payment. **Do not travel without a written confirmation!**

*Call for substitution and cancellation policies*

Baker Engineering and Risk Consultants, Inc.  
3330 Oakwell Court, Suite 100  
San Antonio, TX 78218-3024



## BLAST RESISTANT STRUCTURAL DESIGN

February 9—13, 2009  
(Monday - Friday)  
8:30 am - 4:30 pm

*Offered by:*



Baker Engineering & Risk Consultants, Inc.  
1050 17th St NW, Suite 600  
Washington, DC 20036

[www.BakerRisk.com](http://www.BakerRisk.com)

*with the assistance of:*



The George Washington University  
National Crash Analysis Center  
20101 Academic Way  
Ashburn, VA 20147

[www.ncac.gwu.edu/blastcourse/](http://www.ncac.gwu.edu/blastcourse/)

## Course Summary

### **BLAST RESISTANT STRUCTURAL DESIGN**

Washington, DC

**February 9–13, 2009**

This course acquaints practicing engineers with procedures used in the analysis and design of structures subjected to loads from accidental and terrorist explosions. Explosion effects from vapor clouds and high explosives will be addressed. The course content will be based on commonly used references for blast resistant design including the U.S. Army Technical Manual TM5-1300, *Structures to Resist the Effects of Accidental Explosions* and the American Society of Civil Engineers (ASCE) publications: *Design of Blast Resistant Buildings in Petrochemical Plants*® (1997), and *Structural Design for Physical Security*® (1999).

## Course Location

THE GEORGE WASHINGTON UNIVERSITY

20101 Academic Way  
Ashburn, VA 20147

## Course Fee

**\$1,900**

*Fee includes a copy of all course notes, design/analysis software, and lunch daily. Accommodations are not included.*

*Contact the George Washington University course coordinator for information on hotels and transportation.*

## Course Content

- Overview of Blast Effects and Security Criteria
- Introduction to Dynamic Response
- Dynamic Material Properties
- Allowable Response Criteria
- Steel Framed Structures
- Reinforced Concrete Structures
- Reinforced and Un-reinforced Masonry Structures
- Applications of Non-Linear Dynamic Finite Element Analysis
- Windows and Doors

The course is structured with lectures, example problems, and discussions. The SBEDS\* software analysis tool developed by BakerRisk for the U.S. Army CoE Protective Design Center will be used extensively during the course.

Participants will earn PDH (Professional Development Hours) accreditation issued by George Washington University (GW) upon completion of the course.

\*Single Degree of Freedom Blast Effects Design Spreadsheet

## BakerRisk Course Instructors

James W. Wesevich, P.E., S.E.

Donald E. Ketchum

Khaled El-Domiaty  
*Course Manager*

## GW Course Coordinator

Pedro Silva, Ph.D.  
*Associate Professor*

Civil Engineering Department  
The George Washington University  
Tel. (202) 994-7446  
[silvap@gwu.edu](mailto:silvap@gwu.edu)

## About BakerRisk

Baker Engineering and Risk Consultants, Inc. (BakerRisk) is an internationally recognized engineering firm specializing in blast effects and the response of structures to dynamic loads. Since its formation in 1984, BakerRisk has been dedicated to advancing these technologies and enhancing its capabilities through research and development. The knowledge and experience of BakerRisk's engineering team has been applied to the analysis and design of a wide variety of petrochemical and explosives handling facilities.

The lectures for this course are based on BakerRisk's substantial experience, which includes a wide spectrum of testing, development, analysis, and design projects.

For further information on the course, please contact:

Khaled El-Domiaty  
BakerRisk  
1050 17th St NW, Suite 600  
Washington, DC 20036  
Tel. (202) 496-1295  
Fax. (202) 496-1297  
[keldomiaty@bakerrisk.com](mailto:keldomiaty@bakerrisk.com)

You can also visit our websites at:



[www.BakerRisk.com](http://www.BakerRisk.com)



[www.ncac.gwu.edu/blastcourse/](http://www.ncac.gwu.edu/blastcourse/)