

President

Robert T. Gorski, PE
HDR Engineering, Inc.
8550 West Bryn Mawr Avenue
Suite 900
Chicago, IL 60631
(773) 380-7951

Past President

P. Kay Whitlock, PE, D. WRE
Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, IL 60018
(847) 823-0500

President-Elect

Christopher J. King, PE, SE
Robinson Engineering, Ltd.
17000 South Park Ave.
South Holland, IL 60473
(708) 210-5680

Secretary

William Cussen, P.E.
Haeger Engineering, LLC
1300 North Plum Grove Road
Schaumburg, IL 60173
(847) 230-3155

Treasurer

Darren Olson, PE
Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, IL 60018
(847) 823-0500

Directors to 2009

Lou Arrigoni, PE
(847) 640-3077
Krishna Reddy, Ph.D., PE
(312) 996-4755
Dipal Vimiwala, PE
(312) 373-6625

Directors to 2010

Thera A. Baldauf, PE
(312) 831-3406
Patrick M. Lach, PE
(773) 792-8510
Bryan Luke, PE
(847) 823-0500

Chair, Geotechnical Group

Gary Goodheart, PE
Civil & Environmental Consultants, Inc.
3041 Woodcreek Drive, Suite 210
Downers Grove, IL 60515
(630) 963-6026

Chair, Structural Group

Zaida Morillo, PE
Parsons Brinckerhoff
230 W. Monroe Street, Suite 900
Chicago, IL 60606-4701
(312) 803-6523

Chair, Environmental Engineering & Water Resources Group

Graig B. Neville, PE
Manhard Consulting LTD
2050-50 Finley Road
Lombard, IL 60148
(630) 925-1201

Chair, Urban Planning & Development Group

Erik Olson, PE
Bollinger, Lach & Associates, Inc.
2100 Huntington Drive North
Suite A
Algonquin, IL 60102
(847) 854-7799

Chair, Transportation Group

Srikanth Panguluri, PE
CH2MHill
8501 West Higgins Road
Suite 300
Chicago, IL 60631
(773) 693-3800

Chair, Younger Member Group

James Reisert, EI
Strand Associates, Inc.
1170 Houbolt Road,
Joliet, IL 60431
(815) 744-4200

ILLINOIS SECTION AMERICAN SOCIETY OF CIVIL ENGINEERS

645 NORTH MICHIGAN AVENUE, SUITE 540 * CHICAGO, IL 60611-2881
(312) 649-4600 * FAX (312) 649-5840
EMAIL: Barb@isasce.org * WEBSITE: <http://www.isasce.org>



THE ASCE ILLINOIS SECTION - STRUCTURAL GROUP

LRFD FOR HIGHWAY BRIDGE SUBSTRUCTURES AND EARTH RETAINING STRUCTURES (4-DAY)

Course Number FHWA-NHI-130082B

Monday, November 16th, thru Thursday, November 19th 2009

The course promotes the philosophy of the LRFD design platform and establishes the motivation for LRFD as the reassurance that safe design practices are being applied where needed. For structural applications, the curriculum follows the AASHTO "LRFD Bridge Design Specifications," 3rd Edition, 2004 (AASHTO LRFD). However for geotechnical applications, the curriculum follows recent development work on AASHTO LRFD Section 10, Foundations, including the approved 2006 interim specifications.

This course is a combination of Instructor-led discussions and workshop exercises. It includes LRFD theory applied to design examples and illustrates step-by-step LRFD design procedures through a series of detailed process flowcharts. The training includes the extensive use of student exercises and example problems to demonstrate overall design, detailing, and construction principles addressed in the reference materials, and provides hands-on experience in the AASHTO LRFD design and detailing of bridge abutment and pier elements, deep and shallow foundation design, and earth retaining structures. Exercise and example problems are based on components of overall comprehensive bridge design examples using AASHTO LRFD and provide comparisons between ASD, LFD, and LRFD design methods where meaningful.

The curriculum materials are comprised of a comprehensive reference manual, FHWA Publication No. FHWA NHI 05-094, lecture and workshop exercises intended to promote or enhance a working knowledge of the AASHTO LRFD specification, and a participant workbook for lecture notes and exercises.

The course material contains the following major topics:

1. Loads, load distribution, and load combinations
2. Principles of limit state designs
3. Geotechnical spread footing design (soil and rock)
4. Driven pile and drilled shaft design (soil and rock)
5. Substructure design and detailing for a cantilever abutment and hammerhead pier
6. Mechanically stabilized earth walls
7. Precast modular walls
8. Ground anchor wall design

Upon completion of the course, participants will be able to:

- Define AASHTO LRFD limit states and compute structural and geotechnical design loads
- Apply AASHTO LRFD criteria for design
- Integrate the geotechnical aspects of LRFD foundation design into LRFD structural design

This seminar will provide 24 hours of continuing education credit.
Advanced registration required.

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ASCE ILLINOIS SECTION STRUCTURAL GROUP

REGISTRATION FORM

**LRFD FOR HIGHWAY BRIDGE SUBSTRUCTURES AND EARTH RETAINING
STRUCTURES (4-DAY)**

NOVEMBER 16-19, 2009 7:30 AM TO 5:00 PM

Name: _____

Email: _____ **Daytime Phone:** _____

Cell Phone: _____

Company Name: _____

Address: _____

City: _____ **State:** _____ **Zip Code:** _____

Lunches are included in the cost of the seminar. Register early. Space is limited.

Seminar Location

UBS Tower
1 N. Wacker, 2nd Floor
Superior Room
Chicago, IL 60606

Registration Deadline: October 16th
Late Registration: October 17th thru November 12th

Seminar Fees

Postmarked By: October 16th: \$1,100
Postmarked After October 16th: \$1,250

Cancellation fee by September 30th: \$100
No refunds after September 30th

Mail registration form and check payable to ASCE Structural Group to:

HDR c/o Victor Van Santen,
8550 W. Bryn Mawr Ave., Suite 900,
Chicago, IL 60631

Or email registration to:

Victor Van Santen at Victor.VanSanten@hdrinc.com