

SEAOI SEMINAR: Seismic Design of Bridges

CHICAGO – April 11, 2012



SEAOI is pleased to present a full-day seminar on the topic of Seismic Design of Bridges using AASHTO LRFD. Topics to be addressed include:

1. AASHTO LRFD Approach to Dynamic Analysis
 - a. Basic Requirements of Structural Dynamics
 - b. Elastic Dynamic Responses
 - c. Inelastic Dynamic Responses
 - d. Analysis for Earthquake Loads
2. AASHTO LRFD Approach to Seismic Loads
 - a. Seismic Hazard
 - b. Site Effects
 - c. Seismic Hazard Characterization
 - d. Importance Categories
 - e. Seismic Performance Zones (National/Illinois)
 - f. Response Modification Factors
 - g. Combination of Seismic Force Effects
 - h. Calculation of Design Forces
3. Analysis and Design Example using AASHTO LRFD Approach to Dynamic Analysis
4. Analysis and Design Example using IDOT Bridge Manual Approach to Seismic Design, (both 1000 years and 500 year EQ)

Tony Shkurti, Ph.D., SE, PE, is Senior Structural Engineer and a principal engineer in HNTB's Chicago office and a nationally recognized authority in structural engineering. His research includes seismic retrofit of bridge substructures, redundancy of bridge superstructures, bracing systems, fatigue and fracture behavior of steel bridges, infrastructure security risk assessment and mitigation and vehicular impact analysis. He has presented and published in numerous venues.

This workshop will provide 7.5 hours of continuing education. Reservations are required and may be made by calling Donna Childs at the SEAOI office at (312) 726-4165 x200. Continental breakfast and lunch are included in the fee.

Registration Form

Seismic Design of Bridges
8:00am – 5:00 pm
April 11, 2012
Chicago, IL

Name _____ E-Mail Address _____ Daytime Phone _____

Company Name _____ Cell Phone _____

Mailing Address _____ Yes No

City / State / Zip _____

SEAOI Member? _____

MAIL FORM AND PAYMENT TO:

SEAOI
134 N. LASALLE ST., STE. 1910
Chicago, IL 60602

Fax: 312.726.4166

Charge to Credit Card Check Enclosed (payable to SEAOI)

Exp. Date _____ Amount Enclosed _____

Signature _____

Cancellation fee by April 4: \$50

No Refunds after April 4

Seminar Location:
UBS Tower – 1 N. Wacker
Chicago, IL 60606

<u>Seminar Fee:</u>	<u>By April 4</u>	<u>After April 4</u>
SEAOI Members:	\$300	\$375
Non-Members:	\$400	\$475