



# Steel Plate Shear Walls

March 17, 2010

Steel plate shear walls are a relatively new seismic-load resisting system that is becoming more attractive as its seismic performance and economy become better understood. Steel plate shear walls have been used in applications ranging from high-rise construction to single-family residential construction. The system offers the opportunity to provide high strength and stiffness in a concentrated area of the building. Proper detailing of the system permits excellent seismic performance.

This seminar draws on the AISC Design Guide 20, by Rafael Sabelli, SE, and Michel Bruneau, Ph.D. It gathers the information available to date from analytical studies, physical tests, design applications, and design specifications, and presents a clear, logical, and coherent design methodology that is consistent with the observed behavior of the system and the goals of the design specifications. The range of analytical approaches possible for the system is presented, with discussion as to the appropriate applications for each compares their efficiency in terms of design effort and economy of the structure. A design example is presented, including analysis and sample designs of key elements.

**Rafael Sabelli, S.E.** is a Principal and Director of Seismic Design at Walter P Moore. He is the co-recipient of the 2008 AISC T.R. Higgins Lectureship, and is a member of the AISC Task Committee on the Seismic Provisions for Structural Steel Buildings, the ASCE 7 Seismic subcommittee, and a past member of the NCSEA Seismic Code Advisory Committee. He is the coauthor (with Michel Bruneau) of AISC Design Guide 20: Steel Plate Shear Walls, as well as of numerous research papers on conventional and buckling restrained braced frames. Rafael was the 2000 NEHRP Professional Fellow in Earthquake Hazard Reduction, and is the Past Chair of the Seismology Committee of the Structural Engineers Association of California. Rafael is currently the President of the Structural Engineers Association of California.

**The seminar will provide 7.5 hours of continuing education credit.** Advance reservations are required – please see instructions below. If you have questions on the seminar, please contact Elizabeth O’Connor at 312-726-4165 x301.

## Registration Form

### Steel Plate Shear Walls

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Name E-Mail Address Daytime Phone

Company Name Cell Phone

Address Yes No  
SEAOI Member?

MAIL FORM AND PAYMENT TO:

SEAOI  
134 N. LaSalle Street, Ste. 1910  
Chicago, IL 60602

City / State / Zip  
 Charge to Credit Card  Check Enclosed (payable to SEAOI)

Card No. Expiration Date Amount Enclosed

Or fax your registration form to the  
SEAOI office at 312.726.4166

Signature

Registration Deadline: Mar. 10

Late Registration: Mar. 11 – 17

Cancellation Fee by Mar. 10: \$50

No Refunds after Mar. 10

<u>Seminar Location:</u>	<u>Seminar Fee:</u>	<u>By Mar. 10</u>	<u>After Mar. 10</u>
University Center of Chgo. 525 S. State Street Lake Room, 2 <sup>nd</sup> fl. Chicago, IL 60605	SEAOI Members: Non-Members:	\$300 \$400	\$375 \$475