



# 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.

<b>Registration Form</b>				
<b>Steel Plate Shear Walls</b>				
<b>March 17, 2010</b>				
<i>Available via the Web</i>	Name	E-Mail Address	Daytime Phone	
Check here for Web Access <input type="checkbox"/>	Company Name	Cell Phone		
	Address	Yes No SEAOI Member?		
<b>MAIL FORM AND PAYMENT TO:</b>	City / State / Zip			
SEAOI	<input type="checkbox"/> Charge to Credit Card	<input type="checkbox"/> Check Enclosed (payable to SEAOI)	<i>This workshop</i>	
134 N. LaSalle Street, Ste. 1910				<i>Provides 7.5 hours of</i>
Chicago, IL 60602	Card No.	Expiration Date	Amount Enclosed	<i>Continuing education</i>
<u>Or fax your registration form to the</u>	Signature			<i>credit</i>
SEAOI office at 312.726.4166				
Registration Deadline: Mar. 10	<b>Seminar Location:</b>	<b>Seminar Fee:</b>	<u>By Mar. 10</u>	<u>After Mar. 10</u>
Late Registration: Mar. 11 – 17	UBS Tower, 1 N. Wacker	SEAOI Members:	\$300	\$375
Cancellation Fee by Mar. 10: \$50	Superior Room, 2 <sup>nd</sup> fl.	Non-Members:	\$400	\$475
No Refunds after Mar. 10	Chicago, IL 60606			