



# Welding Engineering – Duane Miller, Sc.D., P.E.

May 1, 2015 8:00 a.m. - 5:00 p.m.  
Gold Coast Hotel ■ 4000 W. Flamingo Rd. ■ Las Vegas NV 89103

## PRESENTATION SYNOPSIS

Welded connections are an essential part of today's steel structures and yet many Structural Engineers have received little or no training on this important topic. This one-day seminar will serve as a primer on welded connections, covering topics from the fundamentals to advanced subjects. The presentation will cover:

- **Basics of Welded Connections**

This session will consist of a review of applicable welding codes, the basics of welded joints and weld types, and required weld metal strength levels. Details for welded connection details will be discussed, including the basic criteria to be used to determine weld throat dimensions.

- **Principles of Welded Connection Design**

Twelve design-related principles that should be considered when welded connections are designed and detailed. The principles are discussed and then illustrated with examples of connections that comply and do not comply with the concepts.

- **Welding of Seismically Resistant Connections**

The requirements of the AWS D1.8 Seismic Welding Supplement are reviewed with a specific focus on the requirements that must be specified by the Engineer, what compliance to these requirements looks like, and why such provisions are in the Code.

- **Special Welding Applications**

There are a variety of "standard" special welding applications that are encountered in by Structural Engineers that often create perplexing challenges. Practical solutions to a dozen routine problems are presented, including some "field fixes" to problems that are frequently experienced.

## ABOUT THE SPEAKER

**Duane K. Miller, Sc.D., P.E.** is a recognized authority on the design and performance of welded connections. He is a popular speaker on the subject and has lectured around the world. Dr. Miller publishes frequently and on three occasions, has been awarded the Silver Quill Award of the American Welding Society (AWS) for the excellence of his published work. In 2001, he received the American Institute of Steel Construction's T. R. Higgins Lectureship Award, which annually recognizes an outstanding lecturer and author whose technical papers are considered an outstanding contribution to the engineering literature. In 2005, he received AISC's Lifetime Achievement Award and in 2013, the George E Willis award from the AWS for his work in advancing welding internationally. He has authored and co-authored chapters of many texts, including the AISC Design Guide on Welding and the Mark's Handbook of Engineering, 11th Edition. He has appeared as a subject expert on the History Channel and Discovery Channel.

Dr. Miller earned a B.S. degree in Welding Engineering from LeTourneau University in Longview, Texas, an M.S. in Materials Engineering from the University of Wisconsin - Milwaukee, and was awarded an honorary Doctor of Science degree from LeTourneau University in 1997. He is the immediate past Chair of the AWS D1 Structural Welding Code Committee. He was the first Chair of the Seismic Welding Subcommittee and is a former co-chair of the AASHTO-AWS D1.5 Bridge Welding Code Committee, a current member of the AISC Specification Committee, a Professional Engineer, Certified Welding Inspector and Qualified Welder.

## REGISTRATION FEES

Registration fee includes presentation, lunch, refreshment breaks, and seminar handouts. **SEASoN is extending membership rates to individuals who are members of other state Structural Engineering Associations and to AWS members. Deadline to register is Monday, April 27, 2015.**

SEASoN/SEA Member	\$225
Non Member	\$325

## CANCELLATION POLICY

You have until noon on Wednesday, April 29, 2015 to cancel your registration and receive a refund less a \$50 processing fee. Substitutions from within the same company will be accepted.

## PROFESIONAL DEVELOPMENT HOURS

Certificates for 8.0 Professional Development Hours will be issued at the conclusion of the seminar.

## REGISTER ON-LINE

If you would like to pay by credit card you must register on-line. Please click on the link below to be taken to the on-line registration form.

[Register On-Line](#)

## REGISTRATION FORM

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**Member of AWS or Structural Engineers State Association - Circle One:**

**AWS NV CA AZ UT CO NM Other\_\_\_\_\_**

**If you fax or email your registration, it will not be confirmed until your payment is received.** A confirmation email will be sent to each attendee once payment is received. Please make checks payable to: **SEASoN.**

Mail payment and registration form to:  
**SEASoN**  
**P.O. Box 35081**  
**Las Vegas NV 89133**  
**Fax: 702-656-4981**  
**Email: [seasonlv@earthlink.net](mailto:seasonlv@earthlink.net)**

If you have questions about the seminar please call Dawn Miller at 702-203-7817 or email her at [seasonlv@earthlink.net](mailto:seasonlv@earthlink.net)