

CCWJ ANNUAL SEMINAR 2025



Featuring National Academy of Engineering Inductee
DR. DUANE K. MILLER

 UofA May 14/15



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MASTERING WELDED CONNECTIONS

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CCWJ
CANADIAN CENTRE FOR
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American Welding Society
ALBERTA SECTION



DR. DUANE K. MILLER

2 Day Seminar Featuring topics
including :

1. Principles of Connection Design

Learn how welded connections transfer loads and how to design joints that maintain structural integrity under stress.

2. Designing Seismically Resistant Welded Connections

Explore strategies for designing welded joints that can withstand dynamic, earthquake-level loading conditions.

3. Designing Fracture Resistant Welded Connections

Learn how to design welded joints that maintain toughness and resist failure in cold and demanding service environments.

4. Designing Fatigue Resistant Welded Connections

Understand how to design welded joints that endure cyclic loading and avoid fatigue-related failures over time.



DR. DUANE K. MILLER

Duane K. Miller, Sc.D. 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. In 2015, he was named an AWS Fellow. He received the American Institute of Steel Construction's T. R. Higgins Lectureship Award in 2001, the AISC Lifetime Achievement Award in 2005, and became the eighth recipient of the AISC Robert P. Stupp Award for Leadership Excellence in 2016; he became the first recipient of the AISC Steel Conference Speaker Award in 2018. He was appointed an Adjunct Professor at the University of Alberta in 2019. In 2024, he was induced into the National Academy of Engineering. He has authored or co-authored texts and chapters of many handbooks, including the *AISC Design Guide on Welding*. He has appeared as a subject expert on the History Channel and Discovery Channel.

After a successful 44-year career at The Lincoln Electric Company, Duane formed an independent engineering consulting firm called Listen to the Steel. He has an ongoing consulting arrangement with Lincoln and serves other clients as well.

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 a former 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. His current technical involvement includes membership on the AWS D1 and D14 committees, and the AISC Specification Committee. He is a former Professional Engineer, Certified Welding Inspector and Qualified Welder.

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