

This two-day resistance welding school is sponsored by the American Welding Society and the Resistance Welding Manufacturing Alliance (RWMA), and conducted by industry specialists with extensive resistance welding experience. The basics of resistance welding and real-life application of the process are covered. Each participant may learn at their own pace, and discuss specific welding concerns with the instructors. You are invited to bring your own samples for discussion.

Take advantage of this career-enhancing opportunity — plus experience the largest gathering of metal forming, fabricating, tube and pipe, and welding technology providers at the 2013 FABTECH SHOW.

Please plan to be present for both days of the school. The program is limited to 100 students. The registration fee includes a copy of the *Resistance Welding Manual*, Revised Fourth Edition (a \$125 value), and a course binder containing all instructor notes. Participants will receive free admission to the show and a **certificate of completion**. In addition, there will be tabletop displays demonstrating the latest resistance welding products offered by RWMA-member companies.

Whether you're a beginning operator or a seasoned pro, a shop supervisor or a production manager, an electrical or a mechanical engineer, there's something for everyone.

**So what are you waiting for?
Enroll today!**

TOPICS COVERED:

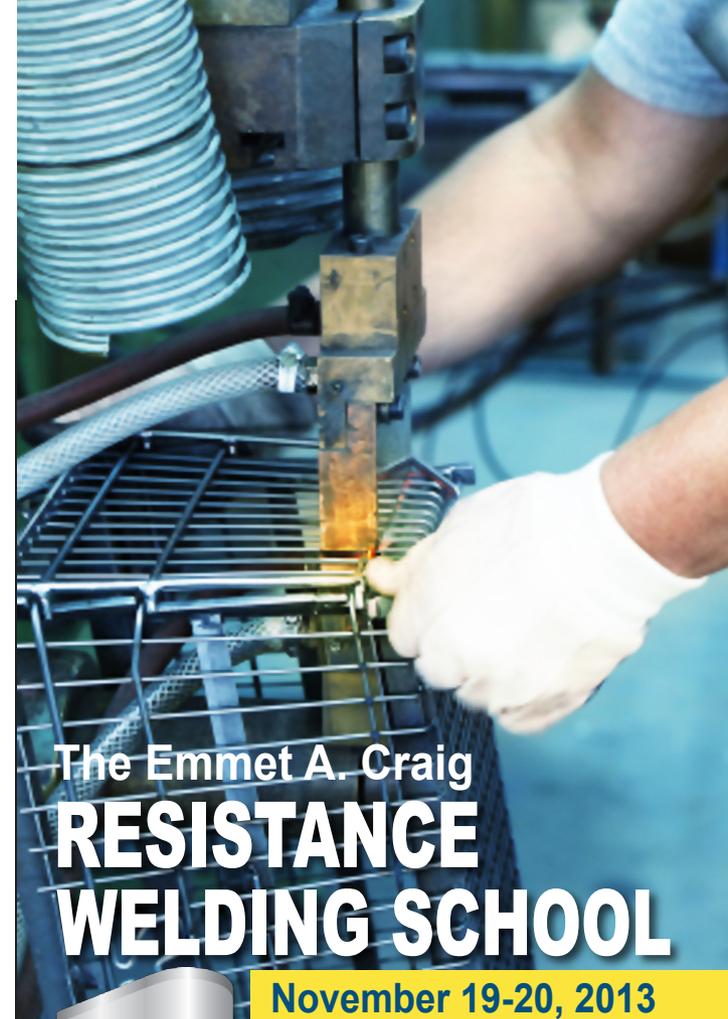
Resistance Spot Welding
Projection Welding
Cross Wire Resistance Welding
Upset Resistance Welding
Flash Butt Welding
Resistance Butt Welding
Resistance Seam Welding
Resistance Welder Electrodes and Tooling
Resistance Welder Controls
Resistance Welder Equipment Selection and Setup
Resistance Welder Power Systems
Resistance Welder Maintenance and Troubleshooting

American Welding Society[®]



8669 Doral Blvd., Doral, Florida 33166
Visit our website www.aws.org

RWMA[®]
RESISTANCE WELDING MANUFACTURING ALLIANCE



The Emmet A. Craig
**RESISTANCE
WELDING SCHOOL**

November 19-20, 2013

FABTECH
AWS WELDING CCAI FMA SME PMA METALFORM

McCormick Place,
Chicago, IL

RWMA[®]
RESISTANCE WELDING MANUFACTURING ALLIANCE
A STANDING COMMITTEE OF American Welding Society

The Emmet A. Craig Resistance Welding School

Tuesday, November 19

7:45 AM – 8:00 AM

Welcome and Introduction to Resistance Welding

Bill Brafford, Technical Liaison Manager, Tuffaloy Products, Inc.

8:00 AM – 8:30 AM

Basics of Resistance Welding Video – Part I

8:30 AM – 11:00 AM

Electrodes and Tooling

Bill Brafford, Technical Liaison Manager, Tuffaloy Products, Inc.

Focus on the classification, selection and maintenance of electrodes and fixtures as they pertain to numerous applications. By revealing some problem-solving techniques and suggestions, Bill will familiarize you with some powerful problem/evaluation/solution techniques that will keep your production process running longer—and operation more efficient.

11:15 AM – 12:15 PM

Tabletop Exhibits

12:15 PM – 12:45 PM

Lunch Served

12:45 PM – 2:45 PM

Welding Controls

Don Sorenson, Director of Engineering, ENTRON Controls, LLC.

This discussion focuses on the selection, descriptions, and applications of welding timers, contactors, and accessories. Packed with a punch, Don Drives home H=I²RT in a way you'll never forget. He shows you how this invaluable formula is used in every resistance welding application—every day—every cycle—all the time!

3:00 PM – 5:30 PM

Electrical Power Systems

Mark Siehling, Vice President Engineering, RoMan Manufacturing Inc.

This session reviews the descriptions and maintenance of electrical power components and conductors from the weld control to the electrode. This lively presentation has something for everybody. Utilizing several small demonstrations, Mark helps you understand this very important part of the resistance welding process which will keep you on the edge of your seat!

Wednesday, November 20

8:00 AM – 10:00 AM

Welding Processes & Machines

Tim Foley, Sales Manager, Automation International, Inc.

This session will reinforce the very essence of how the resistance welding process works and how the process relates to each of the four resistance welding processes. This session will be full of application examples from each process and how machinery utilizes the individual components and elements illustrated in the other sessions.

10:15 AM – 10:45 AM

Basics of Resistance Welding Video – Part II

10:45 AM – 12:00 PM

Troubleshooting and Maintenance

Bruce Kelly, President, Kelly Welding Solutions

With over 30 years' experience in the auto industry, specifying, installing and troubleshooting resistance welding systems, Bruce will give you tips on how to find the reasons why welds don't turn out the way you would like. This presentation is filled with Real-life examples of problems that baffled maintenance persons.

12:00 PM – 1:15 PM

Lunch Served

1:15 PM – 3:15 PM

Initial Machine Set-Up

Robert Matteson, Director, Product Development, Taylor-Winfield Technologies, Inc.

Robert takes you through the selection and maintenance procedures of proper weld schedules and preventive maintenance programs designed to make your resistance welding operations profitable. Hands-on demonstrations peak this presentation

3:15 PM – 3:45 PM

Question and Answer Session



INSTRUCTORS

Each course session is conducted by carefully selected, accomplished professionals from within the resistance welding industry. With more than 150 years of combined experience among these six instructors, you are bound to feel the educational impact these professionals will deliver.

Bill Brafford, Technical Liaison Manager
Tuffaloy Products, Inc., Greer, SC

Electrodes and Tooling

Don Sorenson, Director of Engineering
ENTRON Controls, LLC, Greer, SC

Welding Controls

Mark Siehling, Vice President, Engineering
RoMan Manufacturing Inc., Grand Rapids, MI
Electrical Power Systems

Tim Foley, Sales Manager
Automation International, Inc., Danville, IL
Welding Processes and Machines

Bruce Kelly, President
Kelly Welding Solutions, Grand Ledge, MI
Troubleshooting and Maintenance

Robert Matteson, Director,
Technology and Product Development,
Taylor-Winfield Technologies, Inc., Brookfield, OH
Initial Machine Set-up

RWMA WELDING SCHOOL REGISTRATION

FEES:

Member of AWS / FMA / SME / PMA / CCAI \$775

Nonmembers: \$859

RWMA WELDING SCHOOL REGISTRATION INCLUDES:

Resistance Welding Manual (fourth edition), class handouts, certificate of completion, a course binder containing all instructor notes, and complimentary admission to the show floor. Nonmembers receive a two-year AWS individual membership. Lunch is provided on both session days. (Hotel accommodations, all other meals, and transportation are the responsibility of the attending participant.)

To register for the **RWMA Welding School**, go to
www.fabtechexpo.com

TABLETOP REGISTRATION

FEES:

Tabletop Exhibition Space (RWMA member only)..... \$200

To reserve Tabletop Exhibition Space, go to
www.aws.org/registrations/conference.html?type=CNF
and select **RWMA Welding School Exhibitor at FABTECH**
from the Name's drop-down menu.

To secure exhibit space and/or receive information on becoming a member, please contact **Keila DeMoraes** via email
kdemoraes@aws.org or call **800-443-9353, ext. 444**.