



American Welding Society®
DETROIT SECTION



MAY 2026 Inside This Issue

- 1 MAY 14TH PATRON'S NIGHT AND ANNUAL AWARDS PRESENTATION AT: FOCUS:HOPE, 1400 OAKMAN BLVD, DETROIT
- 2 2025-26 PATRONS
- 4 AWS-DETROIT SECTION 2025-2026 YEAR IN REVIEW
- 5 CHAIRMAN'S MESSAGE
- 5 OUR MISSION
- 7 BEYOND THE PROCESS: SQUARE GROOVE WELD- PART 2
- 8 ANNUAL GOLF OUTING THURSDAY, SEPT. 24TH AT LAKES OF TAYLOR
- 10 SMWC XXI NOVEMBER 3RD - 5TH
- 12 E-BULLETIN CONTRIBUTORS

AWS-Detroit Patron's Night & Annual Awards Thursday, May 14, 2026 • 5:30 to 8pm

Focus: HOPE

1400 Oakman Blvd
Detroit, MI 48238

presents

Don Maatz from Milco Manufacturing “Projection Welding of Forged / Coined Fasteners”



Please join us for the May Technical Meeting, hosted by Focus:HOPE, featuring a projection welding presentation from Don Maatz from Milco Manufacturing, Patrons Awards, Old Timers Awards, and dinner.

Don will present his thoughts on the “*Projection Welding (PW) of Forged/Coined Fasteners.*” The topics he will touch on include a bit of history as to how we got where we are today, a review of the most common type of projection designs one might encounter, and some ideas for weld schedule selection.



CLICK LINK TO R.S.V.P.: <https://www.eventsquid.com/event/31958>

May 14th Awards

The May Technical Meeting will include our annual awards ceremony. We will be honoring three of our members for all the hard work they do for AWS and what they do to promote welding. This year's honorees are:

• SECTION AWARDS •

to be presented by Awards Chairman Michael Karagoulis

RUSS WEBSTER

Section Distinguished Service

CHRISTIAN MEGNA, Section Appreciation

JEFFREY PODHOREZ, Section Appreciation

• PATRON'S AWARDS •

to be presented by Patron's Chairman Michael Pos

• DISTRICT AND NATIONAL AWS AWARDEES FROM OUR SECTION •

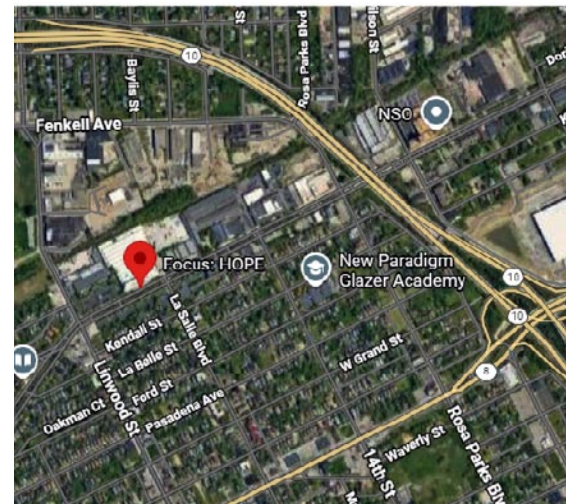
There are currently several members with pending awards. Stay tuned for updates this fall!

Thank you, and Congratulations to this year's fine Honorees!

Michael Karagoulis, Detroit Section Awards Chair

Focus: HOPE

1400 Oakman Blvd, Detroit, MI 48238



Check out the latest videos published by the American Welding Society on its YouTube page.

AWS Technical Nights are open to everyone! We encourage that members bring students and non-members to learn more about our organization and industry.



Patrons 2025-26

Thank you for your support!

100%

of the Patron's Fund Donations are directed to scholarships for students who are pursuing careers in Welding Engineering and Welding Technology.

To become a Patron, contact Mike Poss, AWS Detroit Section-Patron's Committee Chair, michael.g.poss@gm.com



ARO Welding Technologies, Inc.

CenterLine (Windsor) Ltd.

Changer & Dresser Corp.

Don Decorte-DTS Technical Services

Susan DeRosia

Ferris State University Welding Engineering
Technology Alumni

Fronius

FUSION Welding Solutions

Steve Gucciardo

Elizabeth Lekarczyk

LeTourneau University Welding
Engineering Alumni

Forrest Lissner

Lube Power, Inc.

Luvata

Milco Manufacturing Company

Charles Orsette

Ram Solutions, LLC

RoMan Manufacturing

The Ohio State University Welding
Engineering Alumni

United Technical Inc.

Vector NDT

WSI, Weld Systems Integrators, Inc.

Welform Electrodes Inc.

David Williamson



**David
Williamson**



**Elizabeth
Lekarczyk**



Steve Gucciardo



**Forrest
Lissner**



Susan DeRosia



Charles Orsette



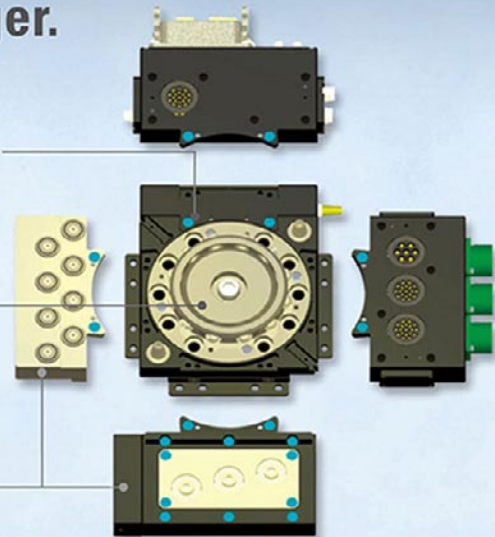
ROBOTIC END EFFECTORS

The most reliable, easy-to-use Gun Changer. Ever.

A more reliable fail-safe.
A patented "springless" mechanical fail-safe is guaranteed to work, even with loss of air pressure.

A more reliable locking mechanism.
7,000 pounds of locking force guarantees that signals pass flawlessly, even with heavy accelerations and payloads.

A more flexible utility solution.
Widest choice of modules (power, fluid/air, signal, and more) with common mounting features for greater flexibility.



With patented advances in the locking mechanism and failsafe, and new flexible module mounting and integrated robot mounting patterns, we've created the most reliable, easy-to-use Welding Gun Changers. Ever.

The QC-210 Welding Gun Changer. The new standard from ATI.



Engineered Products for Robotic Productivity

4577 S. Lapeer Road, Suite I
Orion Township, MI 48359
248.276.0502
www.ati-ia.com/dstc

Welding Solutions for Fabrication & Manufacturing



Small Business

WEMCO
An Association of Welding Manufacturers



- PQR, WPS & WQTR
- Process Optimization, Specification & Development: GMAW, GTAW, RW, Etc.
- Applied Research
- Design of Experiments
- Weld Cross-Sections
- Teardowns



- AWS Certified Educators & Inspectors
- Custom Corporate Training
- Learning Center
- Welding Simulator
- Robotic Training Cells
- Real-time Welding Camera



ATF
ACCREDITED TEST FACILITY
WELDER TESTING



Nadcap
Administered by PRI
ACCREDITED
Materials Testing Laboratories

1081 E North Territorial Rd
Whitmore Lake MI 48489
248-667-9185
info@unitedtech1.com
<http://www.unitedtech1.com>

AWS Detroit Section: 2025–2026 Year in Review

For more than a century, the AWS Detroit Section has served as a cornerstone of the Metro Detroit welding community. In 2025–2026, we continued that legacy with expanded scholarships, strengthened workforce partnerships, and renewed commitment to student and professional development. Our achievements this year reflect the dedication of our volunteers, partners, donors, and members who make our mission possible.



**SCHOLARSHIP &
FOUNDATION IMPACT:
\$65,000**

Section Scholarships

This academic year, the AWS Detroit Section awarded over \$65,000 in scholarships to students residing in

Michigan or enrolled in welding-related programs within Michigan and the Ontario counties of Essex, Chatham-Kent, and Sarnia-Lambton.

Applicants submitted academic transcripts, personal statements, and supporting materials for review by the Scholarship Committee. A total of 31 students received 2025–2026 scholarships, attending:

- Ferris State University
- Lansing Community College
- Oakland University
- Schoolcraft College
- Washtenaw Community College
- Wayne State University

The application window for 2026–2027 closed on April 1, 2026, with 147 submissions — a new record, surpassing last year's 126. Eligibility confirmation is pending data from AWS National.

Over the past 50 years, the Section has awarded more than **\$1.3 million** in scholarships, *making it one of the most impactful scholarship programs in AWS.*

Foundation Contributions

This year, the Section received two major donations:

- **\$10,000** from Blazok Foundation
- **\$15,000** from Bob Wilcox

Both contributions will be forwarded to the AWS Foundation, matched, and added to existing endowed scholarships, including:

- **The Robert P. and Mardell D. Wilcox Scholarship**
- **The Mardell D. Wilcox Scholarship**
- **The Blazok Foundation Scholarship**

District 11 Director Wes Doneth also announced the return of AWS Foundation funding for Welding Competition scholarships. Two \$1,250 awards will be presented to participants in the upcoming **Detroit Section High School Welding Contest (HSWC).**

WORKFORCE DEVELOPMENT: \$15,000

Workforce Grant Program

In 2025, the Section awarded **\$15,000** to IDA PUBLIC SCHOOLS through our workforce development grant initiative. Over the past six years, this program has distributed \$105,000 to support welding education and training across the region.

Section Patrons

Our Patrons program continues to be a vital source of scholarship support. This year:

- 24 Patrons contributed
- Donations totaled nearly \$10,000

EVENTS & COMMUNITY ENGAGEMENT

Ladies Night Scholarship Gala

The 83rd annual Ladies Night Scholarship Gala was held at The Henry Ford Museum of American Innovation, drawing over 280 attendees. Hosted by First Vice Chairman George Meeker, the event remains one of the Section's most cherished traditions. Proceeds directly support Section scholarships and educational programs. Thanks to the success of events like this, the Section now awards over \$90,000 annually in scholarships and workforce grants.

Annual Charity Golf Outing

Held at The Lakes of Taylor, this year's outing welcomed 80 golfers representing 17 company teams. After expenses, the event generated over \$5,000 to support Section initiatives.



Holiday Party

Members and students gathered at One Eyed Jacks in Shelby Township for an evening of games, food, a 50/50 raffle, and giveaways. Special thanks to the Wayne State University AWS Student Chapter, our sponsors, and event organizers Erin Lalinsky and Christian Megna.



STUDENT & PROFESSIONAL DEVELOPMENT: \$14,000

High School Welding Contest (HSWC)

The Section proudly hosted the 53rd Annual High School Welding Competition, featuring more than 50 high school seniors. Students completed timed welding projects in aluminum and carbon steel, following detailed weld prints and safety requirements, and took a fundamentals written exam. Winners received high-quality welding equipment and scholarship opportunities totaling **\$9,000.**



Chairman's Message
Donnie Crist

Hello AWS Members and Friends,

As we continue through the spring months, the AWS Detroit Section remains active with strong participation and meaningful technical engagement across our membership. The momentum we've built early in 2026 continues to carry forward, and it is encouraging to see our community staying connected through both educational and networking opportunities.

Looking ahead, we have an excellent Technical Meeting scheduled for May 14th, 5:30 PM–8:00 PM hosted by Focus: HOPE in Detroit (**1400 Oakman Blvd, Detroit, MI 48238**). This event will feature Don Maatz from Milco Manufacturing, who will present on projection welding of forged and coined fasteners. The presentation will include a review of projection design fundamentals,

historical context of the process, and practical considerations for weld schedule selection. In addition to the technical session, the evening will include Patrons Awards, Old Timers Awards, and dinner, making this a well-rounded and valuable event for all attendees. Registration and event details can be found here: <https://www.eventsquid.com/event/31958>

In addition, I will be attending FABTECH Mexico 2026, taking place May 12–14, 2026 at Centro Banamex, Mexico City, Mexico. Events like this continue to showcase the latest advancements in metal forming, fabricating, welding, and finishing technologies. I look forward to bringing back insights and perspectives that can benefit our section and ongoing technical discussions.

Further into the year, please be sure to mark your calendars for one of our signature annual events, the AWS Detroit Section Golf Outing, taking place on Thursday, September 24, 2026 at the Lakes of Taylor Golf Club. This 18-hole, four-person scramble is always a great opportunity to connect with fellow members and industry peers in a relaxed setting. Additional details regarding registration and sponsorship opportunities will be shared in the coming months. For questions, contact Mike Remer (mremer@reautomated.com).

Thank you for your continued involvement and support of the AWS Detroit Section. I look forward to seeing many of you at our upcoming events.

Warm regards,
Donnie Crist
Chair, AWS Detroit Section

Our Mission

is to advance the science, technology and application of welding and allied joining and cutting processes worldwide, including brazing, soldering and thermal spraying. AWS Detroit provides support for the industry in many ways, including:

- » Institutional Grants (endowment based);
- » Scholarships through Application (endowment based);
- » Scholarships through aptitude (HSWC);
- » Vocational Support (case by case but budgeted each year), Institution (e.g. supply gas and materials), Local Contest (e.g. travel expense), International Contest (e.g. travel expense);
- » Student Memberships (evaluated each year);
- » Student Chapter (evaluated each year);
- » Technical and Educational Opportunities.

LUVATA

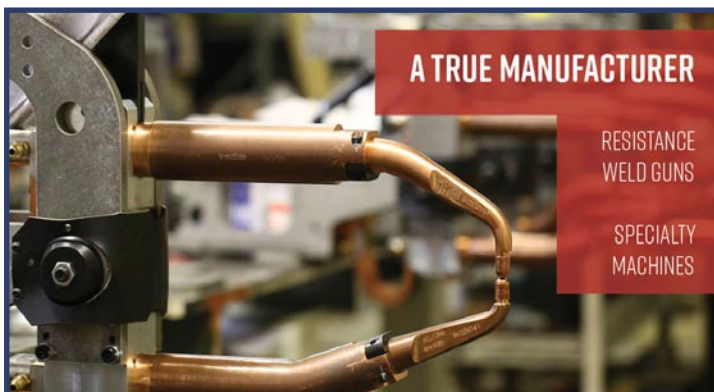


Ask us about the difference a Luvata weld can make

Manufacturing welding solutions including Nitrode®, A-Trode®, H-Trode®, Z-Trode®, Cupal®, Luvaweld® brazing wire, MIG contact tips and projection welding electrodes.

Luvata Ohio, Inc.
1376 Pittsburgh Drive
Delaware, Ohio 43015
Phone: +1 740 363 1981
www.luvata.com/welding

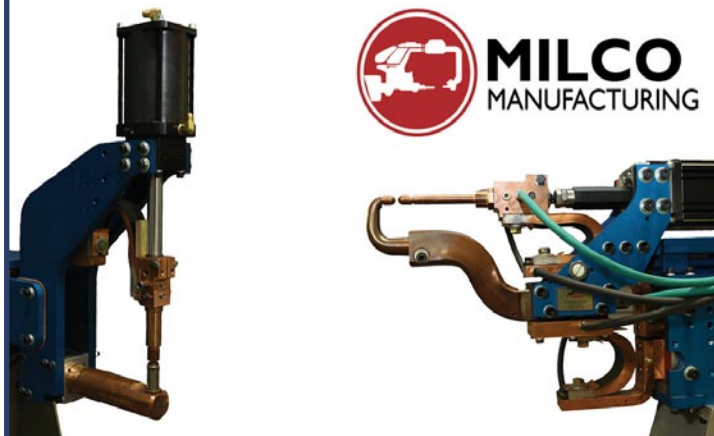
A Group Company of  MITSUBISHI MATERIALS



A TRUE MANUFACTURER

RESISTANCE
WELD GUNS

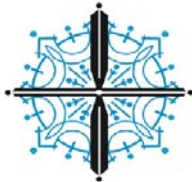
SPECIALTY
MACHINES



MILCO
MANUFACTURING

2147 East Ten Mile Phone: (586) 755-7320
Warren, Michigan 48091 Fax: (586) 755-7442

www.milcomfg.com



T. J. SNOW

INDUSTRIAL
WATER CHILLER
A Division of T. J. Snow



RESISTANCE WELDING

One-Spot-Shop

MACHINERY | SUPPLIES | SERVICE | TRAINING



CONTACT US TODAY!

(423) 894-6234 | www.tjsnow.com

RoMan
MANUFACTURING
"THE POWER TO TRANSFORM"

RoMan's resistance welding power supplies can be integrated with any brand of controls, weld guns, or robotic systems and are designed to meet all resistance welding application requirements—from small spot welds to large projection welds.

RoMan products are proudly made in the USA!



RoMan TDC - 5998B

- New modular primary - field changeable from RobiFix to Hardwire
- Our first available product with RobiFix and dual secondary voltages 9V/13V

RoMan TDC - 7537

- High-capacity size 6 rectifier and 225KVA transformer
- 13V/17.5V secondary taps cover a wide range of applications including aluminum spot welding and Fast Rise projection welding

RoMan has innovations for all of your high-current resistance applications including:

- Welding
- Heat Treating
- Sintering
- Glass Making

For more information



Connect with us to learn more!

Grand Rapids, MI | 616.530.8641 | www.romanmfg.com

Unleash
your
welding
potential

Fronius



Wixom, MI

sales.northeast@fronius.com (810) 844-2800

COR-MET

SPECIALTY CORED WIRE
COATED WELDING ELECTRODES
TOOL STEEL MIG & TIG

Tel: 810-227-3251
Fax: 810-227-9266

12500 Grand River Road
Brighton, MI 48116 U.S.A.
www.cor-met.com

Beyond The Process The Square Groove Weld Part 2: Unintended Use

By Jason Nicholson

The Square Groove welding symbol is one of the most used welding symbols on Blueprints. For a quick reference, see Figure 1¹. In my last article I discussed the definition and its intended use. From



Figure-1: Square Groove Welding Symbol

what I have seen from production drawings at different companies, this is the most incorrectly used welding symbol. Faulty welding symbols are communication issues that can have serious consequences from re-work to in-service failures. Most welders can catch this and fix it before it gets off the shop floor, but the point is to have to best communication at all stages. You never know how this could affect other departments and customers, with worst-case scenarios resulting in safety concerns or loss of life and causing tremendous legal trouble.

I have come across several reasons for

the misuse of the Square Groove, although there are probably several more. I use the term “Designer” for anyone who makes Blueprints or drawings. My intent is not to blame them, but design is usually where this issue originates.

- 1. Misunderstanding of what it is:** Sometimes Designers aren’t familiar with the AWS A2.4. Most Designers refer to ASME Y14.100 for Blueprint standards which unfortunately only has one reference to welding symbols in section 4.20.6². I’ve seen the Square Groove used for Edge or Parallel joints in most cases. Specific Training may be best in this situation.
- 2. Missed updates:** Designers may not be aware that welding communication has evolved over the years. If this is the case, you might need older versions of the AWS A2.4 handy. Sometimes Blueprints may not get an update for years, but I recommend staying current.
- 3. Gaps in process knowledge:** Designers may not know that the Square Groove weld is best for specific processes or certain thickness of

materials. They may not have a clear knowledge of production capabilities. If this is the case, a production demonstration may help.

- 4. Design software capabilities:** Most design software only has a limited range of welding symbols. Again, I’ve seen this most often used for Edge Welds. Sometimes Designers are doing their best with the tools they have. In most cases, adding “Edge Weld” in the tail of the welding symbol is the best solution.
- 5. Design Requirements:** Sometimes Designers may not have a clear understanding of customer requirements or final applications and apply the wrong weld joints in Blueprints. Specific training for welded joint design may help with this.
- 6. I’ve seen the Square Groove symbol changed or altered to make something completely unique.** I have no issue with unique welding symbols, but it would be best to have them properly documented and training offered for all who may be affected. In other cases, sometimes Design may not know that they are making a unique symbol.

The best solution for all the possibilities above is to seek and stay current with latest standards, and to promote clear and concise communication. Easy to say, but difficult to do.

¹ AWS A2.4: Standard Symbols for Welding, Brazing, and Non-Destructive Examination (2020), Section 7.2.2, Pg. 30.

² ASME Y14.100: Engineering Drawing Practices (2017), Section 4.20.6, Pg. 14

RESISTANCE WELDING TOTAL SOLUTION

Dengensha brings innovative welding solutions, state-of-the-art equipment, and world-class service which includes:

- Troubleshooting and Repairs
- Rebuilds
- Testing and Training Lab
- On-Site or Online Training
- Customizable Courses



DG **DGENSHA**
AMERICA
Global Leader in Resistance Welding

SINCE 1935
dengensha.com
440-439-8081
Sales@dengensha.com

JASON NICHOLSON is a Welding Engineer for General Dynamics Land Systems. He has worked in a variety of industries and has worked across the world from Massachusetts to Japan in a variety of roles and responsibilities.
Nicholsonjason4955@gmail.com

American Welding Society

Annual Golf Outing

Save THE Date

— Thursday September 24th, 2026 —



18 Hole — 4 Person Scramble

Open Range 7:30am | Registration 8:00am | Shotgun Start 9:00am

Mike Remer — Mremmer@reautomated.com

SDK ENGINEERING, LLC

WELD PROCESSING SUPPORT

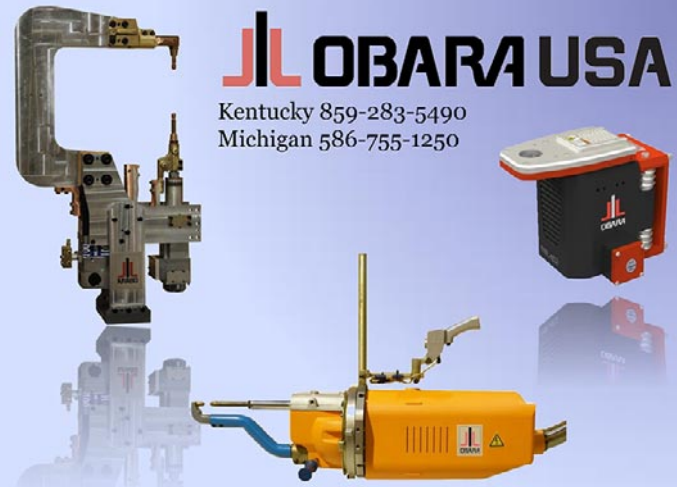
- Joining Consultants
- Long Term Onsite Engineering Support Includes
 - RSW/LASER/GMAW(CWI)
 - Alt Joining Processes
 - Self Piercing Rivets
 - FDS
 - Ultrasonic Inspection
 - Tessonics Setup/Training
 - Destruct Services
- MEXICAN AFFILIATE COMPANY
NISESA GROUP S DE RL DE CV

All Facets of Project Management, Weld Processing, Robot Programming, Equipment Integration, Field Service, & Troubleshooting.

www.sdkeng.com

JL OBARA USA

Kentucky 859-283-5490
Michigan 586-755-1250



Obara USA has established itself as a premier supplier of high quality welding equipment and services. With our worldwide resources for equipment, research and development, and manufacturing, Obara USA can meet any project requirements, regardless of size or scope.

www.obarausa.com





RAM SOLUTIONS, LLC

1904 Woodslee Drive | Troy, MI 48083 | 248-299-0525 phone | 248-299-0528 fax

OUR PARTNERS



Manufacturer and Supplier of Fittings, Solenoid Valves, Quick Couplings and Air Pipelines



Sensor and Automation Specialist



Robot Guidance, Bin Picking, Flexible Inspection and Industrial System Communication



Tip Dressing and Tip Changing Technologies



Pneumatic Components, Valves, Mechanical Indexing Systems, and Semiconductor Products



Vacuum Automation Technology



Member of HENW Connector Group

Fittings and Multi-Line Connectors



High-End Stainless Steel Pneumatic Valves



Festo is leading global Manufacturer of Pneumatic and Electromechanical Systems



Crane Technology and Ergonomic Lifting Products



Cables, Wires, Media Technology, Cable Accessories, Data, Network & Business Technology



Full-Service Force And Motion Control Provider



Comprehensive Selection of Innovative High Quality Gas Springs and Gas Hydraulic Systems



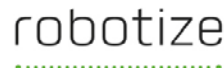
Global Manufacturer of Thermal Management, Liquid Cooling, and Signaling Solutions



Clamping units, centering units, grippers, rotating units and complete multi-axis positioning systems



Proteus WeldSaver™ - Leading Water Safety Device For Flow Control & Leak Detection



Autonomous Mobile Robots (AMRs) and Accessories for Internal Material Transportation



Robotic Tool-Changing Systems, Electrical Connectors, and Fluid Connectors



Clamping Technologies Made in Italy Since 1966 Pneumatic Products for Industrial Automation



Nondestructive Testing with Pioneering Ultrasonic Technologies



Smart Sensor And Image Processing Technologies



Autonomous Power Technologies
Provides Next-Gen High-Power Wireless Charging Solutions



YOUR AUTOMATION SOLUTIONS PROVIDER

Ready to transform your manufacturing? Contact us to explore our industrial automation solutions and find the right robotic components for your needs.

SMWC XXI

ADVANCES IN AUTOMOTIVE WELDING & JOINING CONFERENCE

November 3-5, 2026

Sheraton Detroit Novi, Novi MI

Smarter Welding for an Evolving Industry



REGISTRATION



ABSTRACT
SUBMISSION



American Welding Society®

DETROIT SECTION

MORE INFORMATION

email: DetroitSMWC@awssections.org

Technical Program November 3-5

Premier technical conference focused on sheet metal welding featuring:

- 3+ Keynote Speakers
- 40+ Technical Presentations from OEMs, Suppliers, Integrators and Academia
- Networking Opportunities
- 30 Professional Development Hours

Vendor Display Night November 4, 4-7 PM

An evening of networking and new technology featuring:

- 30+ Vendors
- Food and Refreshments
- Free Admission
- Open to the Public

Complimentary Tutorial Lecture Series November 4, 12-4PM

Featuring lectures on production ready topics including Inspection, Materials, Arc Welding and Laser Joining

TECNA[®] USA

Resistance Welding Systems & Balancers

**the most complete range of
spot welding robot guns for the industrial sector**



INDUSTRIAL RESISTANCE WELDING SYSTEMS
CAR BODY REPAIR TECHNOLOGIES
BALANCERS & BOWDEN RETRACTORS

sensum[®]
by TECNA

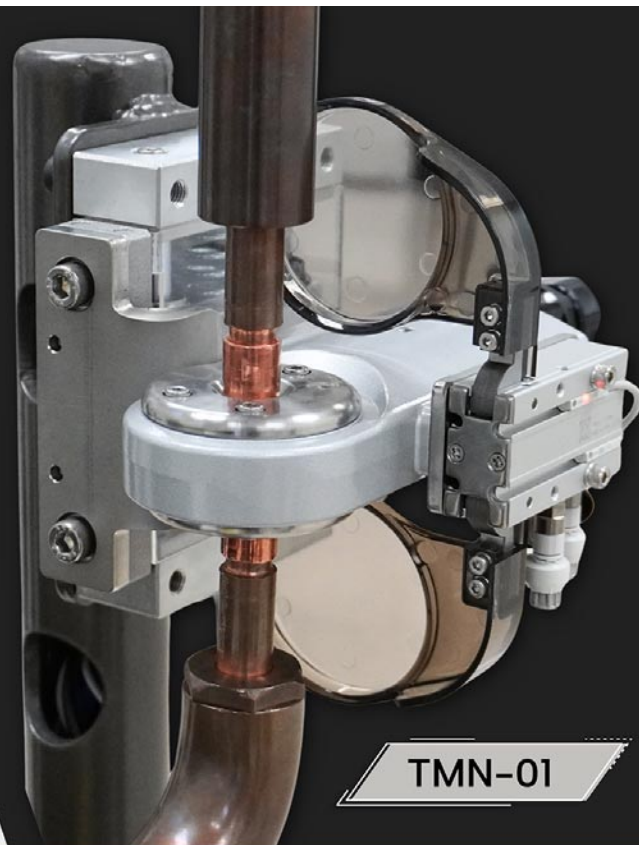



**CHANGER &
DRESSER CORP.**
A DIVISION OF KYOKUTOH CO., LTD.

Global Automation Solutions

OUR PRODUCTS

- ✓ Automatic Tip Dressers
- ✓ Automatic Tip Changers
- ✓ Cutter & Holders
- ✓ Arc Welding Solutions
- ✓ Offline Tip Dressers
- ✓ Manual Tools



TMN-01

(256) 832-4392

cdsales@changer-dresser.com

changer-dresser.com

"Year in Review" *continued from page 4***Welding Education Series**

Chaired by Erin Lalinsky, this year's program at Schoolcraft College focused on Solid State Welding (SSW) and provided attendees with valuable professional development hours.

CWI Roundtable

Our annual CWI Roundtable continues to offer Certified Welding Inspectors a forum to discuss industry challenges, share insights, and strengthen professional networks.

Vocational Support

The Section is proud to support Mikala Sposito of Washtenaw Community College, the SkillsUSA National gold medal welder. To assist her preparation for WorldSkills 2026 in Shanghai, the Section contributed \$5,000 toward her training and travel.

**COMMUNICATIONS & OUTREACH****Section Bulletin**

The AWS Detroit Section published nine editions of the e-Bulletin this year, each featuring event announcements, technical insights and contributions from industry professionals.

Sheet Metal Welding Conference (SMWC)

The Section's flagship technical conference, SMWC, remains the premier event for welding and joining technologies in automotive, transportation, and light manufacturing. SMWC XX was held in October 2024, with the next conference scheduled for November 2026 at the Sheraton in Novi, Michigan.

Service Awards

This year, 23 AWS Detroit Section members were honored for milestone years of service. Awards were presented by Dr. Mark D. Gugel, Service Awards Coordinator. Their dedication continues to strengthen the Section and the broader welding community.

- SILVER (25-Year): Matthew J. Rogers, Scott Strawn
- LIFE (35-Year): Thomas R. Jones, Thomas J. Moran, Lawrence Banasky, Michael E. Fisher, Dr. Sudhakar Kolli, Salvatore J. Delisi, Donald K. Jackson, Warren Peterson

- GOLD (50-Year): Gordon Ebsch, John D. McKenzie, Robert P. Wilcox, Clyde E. Slade, Charles S. Beach, Robert E. Shaw
- GOLD+ (55-Year): Lewis Tann, Stanley J. Targosz
- GOLD+ (60-Year): George F. Gauchey
- GOLD+ (65-Year): R. A. Heinz, Martin Keasal, J. E. Black, Richard E. Haver

Meritorious Awards

This year, the Section honored several deserving members with awards at the Section, District, and National levels. The awards were presented by Dr. Michael J. Karagoulis, Meritorious Awards Chair

- BLAIR CARLSON: 2024–2025 Samuel Wylie Miller National Memorial Medal Award
- BRUCE KELLY: 2024–2025 District Meritorious Award (Posthumous)
- NICHOLAS BERCHERT: 2024–2025 Section Appreciation
- STEVE GUCCIARDO: 2024–2025 Section Appreciation
- GEORGE MEEKER: 2024–2025 Section Appreciation

**LOOKING AHEAD**

As we look toward 2026–2027, the AWS Detroit Section remains committed to advancing welding education, supporting the next generation of professionals, and strengthening the welding community across Michigan and Ontario. This progress is only possible because of the passion and dedication of our members, volunteers, partners, and donors.

eBulletin Contributors



(Emails linked where available.)

CHAIRMAN: **Donnie Crist** | TREASURER: **Christian Megna / Andre Young** | SECRETARY: **Elizabeth Lakarczyk** | FIRST VICE CHAIR: **George Meeker**
 SECOND VICE CHAIR: **Steve Gucciardo** | 1ST ASSISTANT TO THE CHAIR: **Robert Watson** | 2ND ASSISTANT TO THE CHAIR: **Erin Lalinsky**
 3RD ASSISTANT TO THE CHAIR: **Kurt Van Donkelaar** | EBULLETIN EDITOR: **Daniel Sims** | WEBMASTER: **Christian Megna** | ADVERTISING: **Brian Pearch**
 HOTLINE COORDINATOR: **Brandon Fuson** | TECH NIGHT MEETING RESERVATIONS: **Steve Gucciardo**

CUSTOM PRODUCTS, REPLACEMENT PARTS, COMPLETE BUILDS

ANY GLOBAL SPEC...
WHEN YOU NEED IT.

CUSTOM
ELECTRODES

WELFORM ELECTRODES INC.

2147 Kenney
Warren, Michigan 48091

www.welform.com

P: (586) 755-1184
F: (586) 755-5639

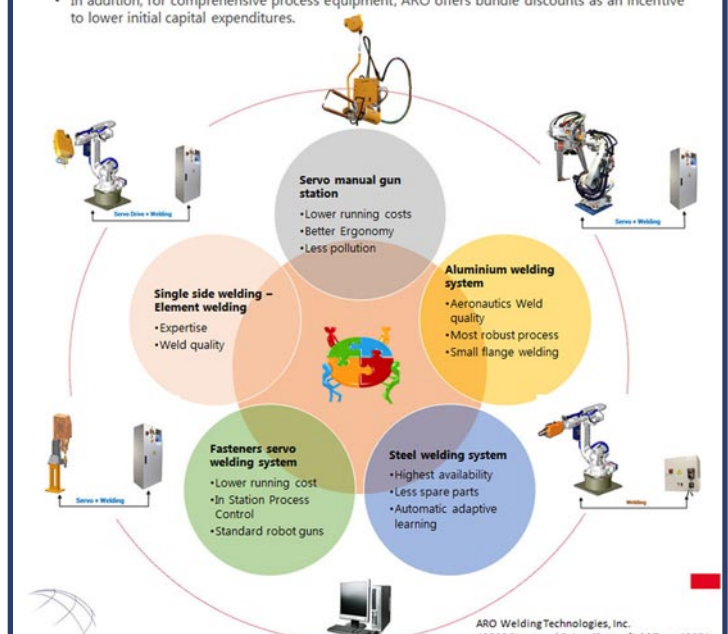
ARO
WELDING TECHNOLOGIES

**One stop shopping
All Servo solutions**

Why mix and match components of your Resistance welding process?

- One global, solid, responsible supplier
- Guaranteed lowest running costs
- Top Welding quality
- Lowest carbon foot print
- Less air and noise pollution
- Best flexibility and equipment re-use potential
- Homogeneous supervisory network
- Expert assistance through product life

In addition, for comprehensive process equipment, ARO offers bundle discounts as an incentive to lower initial capital expenditures.



Servo manual gun station

- Lower running costs
- Better Ergonomy
- Less pollution

Single side welding - Element welding

- Expertise
- Weld quality

Aluminium welding system

- Aeronautics Weld quality
- Most robust process
- Small flange welding

Steel welding system

- Highest availability
- Less spare parts
- Automatic adaptive learning

Fasteners servo welding system

- Lower running cost
- In Station Process Control
- Standard robot guns

Monitor and trace

ARO Welding Technologies, Inc.
48500 Structural Drive, Chesterfield Twp. 48051
www.rotechnologies.com
Phone: 586-949-9353

A Langley Holdings Company

THE CLINCH PRESS THAT'S SETTING THE NEW INDUSTRY STANDARD FOR

SMART FASTENER INSTALLATION

VersaForce™
PRECISE • RELIABLE • EFFICIENT • SAFE • SMART

Learn more at cntrline.com/versaforce

centerline



Power-on-demand servo power unit.

Robust two-stage motion intensification cylinder.

VeriFast™ SA

Clinch signature analysis.