Robert W. Roth is President/CEO of RoMan Manufacturing, Inc. Founded in 1980, RoMan Manufacturing is a second-generation family business with operations in Grand Rapids, Michigan and sales offices in Oerlinghausen, Germany and Shanghai, China. RoMan Manufacturing specializes in the design and manufacture of water-cooled transformers and DC power supplies used for industrial applications such as resistance welding, glass melting and forming, plating, and furnace applications. Its subsidiary Quality Non-Ferrous Foundry is a green sand and permanent mold foundry located in Grand Rapids, Michigan.

Robert (Bob) is a member of the second generation and joined the business in 1987, after his employment with the Hydra-matic Division of General Motors from 1980 until 1987. Robert graduated in 1985 from Kettering University, formerly General Motors Institute with a Bachelor of Science degree in Industrial Administration. He was recognized by the University with its Engineering Achievement Award in 2012. Robert is also a graduate of Leadership Grand Rapids (2002) and the Institutes for Healing Racism (2004). He is married to Marcy and they have two children, Mike age 30 who is an M.D. in his emergency medicine residency and Kayla age 27 who is currently in graduate school seeking the dual degrees of M.S. Industrial Psychology and an MBA.

Robert served as Board Chair of the Grand Rapids Area Chamber of Commerce in 2004 and has served on the Board of Directors for the Grand Rapids Area Community Foundation, the Michigan District Safety Council, and the Michigan Restaurant Association. His company has received recognition as one of the Grand Rapids Business Journal’s Best Places to Work, Best Workplaces for Leaders, and Best Workplaces for Women.

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March 2019
This Issue of the Bulletin can be viewed on the web at awsdetroit.org

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810-844-2800
peterson.brian@fronius.com

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

Robert Roth’s Bio continued from page 1

the board of directors of Home Repair Services and the board of managers of the SE YMCA. In 2012 Robert completed eight years of service on the Priority Health Board of Directors serving as Board Chair from 2009-11. He is a founding member of the Family Business Alliance and served for eight years as a member of the Advisory Board. Concluding in 2016 Robert served his community and the citizens of Grand Rapids Township for six years as a township trustee. He concluded eight years as a trustee of the Grand Rapids Community Foundation at the end of 2016 and chaired the board in 2013. He currently serves on the Board of Directors of The Employers’ Association, the American Welding Society as a Director and Vice President, and the Board of Directors of Spectrum Health, where he chairs the Governance Committee. He serves on the boards of for-profit corporations Grand Rapids Label Inc., United Bank of Michigan, Grand Transformer/Warner Power Inc., SecurAlarm Systems, and Vibration Research Corporation.
Service Awards

This year the Detroit Section is honored to acknowledge the following individuals for their many years of service and involvement with the American Welding Society. The following individuals have been active members of the AWS and in some cases the Detroit Section for 25, 35 or 50 years as noted.

Those that asked to receive their award in person will be honored as a part of the monthly Detroit Section Technical Night being held March 14, 2019. If you know or work with any of these individuals, please take the time to join us in thanking them for their many years of dedicated involvement with the Detroit Section and the American Welding Society.

We look forward to seeing everyone at the Tech Night in March and thank you for allowing AWS and the Detroit Section to be a part of your personal and professional lives.

<table>
<thead>
<tr>
<th>GOLD Membership Status - 50 YEARS</th>
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<tbody>
<tr>
<td>Richard Donovan</td>
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<tr>
<td>AWS Member since April 1968</td>
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<tr>
<td>Carl Occhialini</td>
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<tr>
<td>AWS Member since June 1968</td>
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<tr>
<td>Peter Kilunen</td>
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<tr>
<td>AWS Member since September 1968</td>
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<tr>
<td>Robert Ireland</td>
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<tr>
<td>AWS Member since September 1968</td>
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<tr>
<th>LIFE Membership Status - 35 YEARS</th>
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<tr>
<td>David Kilunen</td>
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<tr>
<td>AWS Member since February 1983</td>
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<tr>
<td>Brian Moore</td>
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<tr>
<td>AWS Member since May 1983</td>
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<tr>
<td>Larry Garrett</td>
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<tr>
<td>AWS Member since May 1983</td>
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<tr>
<td>Paul Loncarevich</td>
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<tr>
<td>AWS Member since June 1983</td>
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<tr>
<td>Dennis Kolodziej</td>
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<tr>
<td>AWS Member since July 1983</td>
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<tr>
<td>Roy Bailiff</td>
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<tr>
<td>AWS Member since September 1983</td>
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<tr>
<th>SILVER Membership Status - 25 YEARS</th>
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<tr>
<td>Steven Renaud</td>
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<tr>
<td>AWS Member since February 1993</td>
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<tr>
<td>Dale Bukaski</td>
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<tr>
<td>AWS Member since February 1993</td>
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<tr>
<td>Michael Mohn</td>
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<tr>
<td>AWS Member since February 1993</td>
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<tr>
<td>Larry Koscielski</td>
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<tr>
<td>AWS Member since March 1993</td>
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<tr>
<td>Robert Gunow Jr.</td>
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<td>AWS Member since March 1993</td>
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<td>Ronald Johansson</td>
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<td>AWS Member since March 1993</td>
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<tr>
<td>Thomas Jones</td>
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<tr>
<td>AWS Member since April 1993</td>
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<tr>
<td>Joseph Jackson</td>
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<td>AWS Member since July 1993</td>
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<tr>
<td>Donald Maatz Jr.</td>
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<td>AWS Member since August 1993</td>
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<tr>
<td>Richard Oster</td>
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<td>AWS Member since September 1993</td>
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<tr>
<td>Steve Bach</td>
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<td>AWS Member since September 1993</td>
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<tr>
<td>Gerald Reid</td>
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<tr>
<td>AWS Member since October 1993</td>
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<tr>
<td>Galen White</td>
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<tr>
<td>AWS Member since November 1993</td>
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</table>
CAPACITY: The contest will be limited to 70 contestants. The first 10 schools to register will be allowed 7 seats each. If we do not reach capacity, those schools enrolled may be allowed additional seats.

CONTEST: Phase 1: Written Exam  
Phase 2: Cutting Project  
Phase 3: Welding Projects

ELIGIBILITY: High School Seniors enrolled in a vocational welding program

DEADLINE: Registration form (on page 17) must be emailed to Glenn Kay @ gkayii@wccnet.edu no later than April 3, 2019 or the application will not be accepted. This deadline is critical to allow time to prepare for the event.

AWARDS:  
First place: $2,500 Scholarship, Trophy & School Plaque  
Second place: $2,000 Scholarship, Trophy & School Plaque  
Third place: $2,000 Scholarship, Trophy & School Plaque  
Fourth place: $1,500 Scholarship, Trophy & School Plaque  
Fifth place: $1,000 Scholarship, Trophy & School Plaque

Scholarships are one-time awards and will be paid to the award winner’s college of choice to cover tuition, fees, books and supplies when pursuing a certificate or degree in welding in the 2019/2020 academic year. Final scholarships requests must take place by March 1, 2020

PRIZES: All contestants will receive an AWS tee shirt. Educational and professional welding equipment will also be distributed to the top 12 finalists as donations permit. Typical prizes distributed have been welding machines, torch outfits, welding helmets, jackets, gloves, safety glasses, cutting shields, etc.

MEALS: Both breakfast and lunch will be provided. Bagels, donuts and juice will be served upon arrival as well as pizza and pop for lunch, all compliments of the AWS Detroit Section!

CONTEST DETAILS: The welding contest is divided into three (3) phases. All three phases listed below will be part of the student's final score and used to determine the top 12 finalists. Upon competition day, the phases may be arranged in a different order dependent upon the number of schools enrolled.

Phase 1: Written Exam – Each contestant will be given a written exam to test their basic knowledge in the following areas: OFW (Oxy-Fuel Welding), OFC (Oxy-Fuel Cutting), Brazing, SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), FCAW (Flux Core Arc Welding) and GTAW (Gas Tungsten Arc Welding) processes.

Phase 2: Cutting Project – Project may include straight cuts, bevel cuts, and shape cutting on 1/4", 3/8" or 1/2" carbon steel. This project will require print reading and layout skills.

Phase 3: Welding Projects – Projects will be evaluated based on the quality of work, neatness of project, and adherence to the project instructions.

Contact CenterLine today to discuss your spot welding or assembly needs.
New Products

Purge Free Pipe Welding With Flux Coated Tig. Required To Use A Gas Purge Or Backing When Welding the Root Pass? - A One Step Process

COR-MET INC, introduces their new QWP Flux Coated Tig wire product line. The QWP Flux Coated Tig wire will eliminate the need for a gas purge or backing. There will be no oxidation (Sugaring) on the backside of the weld, and it will produce an x-ray quality weld. COR-MET “Makes it” in the USA.

Grades Available:
Stainless: 308H 308L 309L
316L 317L 347
2209 16-8-2
Nickel: N82 N625
Low Alloy: B6 B8 B91

Sizes Available: 3/32” and 1/8” (We can make special grades/diameters on request)

Visit the COR-MET INC website and view the QWP videos for flux coated tig wire. www.cor-met.com. Contact Cor-Met For More Information And Find Out If The Flux Coated Tig Wire Is Suitable For Your Application. 800-848-2719, sales@cor-met.com

**Above Data provided by John Corrado, COR-MET INC, New Products Specialist.

Educational Opportunities

Emmett A. Craig Resistance Welding School

From May 15-16, 2019, the American Welding Society will hold the Emmett A. Craig Resistance Welding School in Grand Rapids, MI. Presented by industry experts, this is an intensive two-day course covering the fundamentals of resistance welding. The course is designed for resistance welding community members in a variety of roles, such as welding & production managers & supervisors, engineers, setup and senior operators, trainers & educators. Students emerge from the course with a better understanding of resistance welding fundamentals, from theory to application requirements to equipment and setups used in various resistance welding processes.

Day 1: Discussion of resistance welding processes and the associated machines, materials, electrodes, and power systems.
Day 2: Exploration of resistance welding controls, quality standards, machine set-up, and maintenance.

Q&A panel where students can get feedback from the instructors on their specific applications.

Registration is limited to the first 40 students so be sure to sign up soon. www.aws.org/conferences/upcoming-conferences/rwma-resistance-welding-school-2019

FREE CWI Seminar at AWS Headquarters in Miami, FL

To celebrate the new year, and all the potential it can hold, we’re offering a FREE in-person CWI Seminar at AWS Headquarters from May 5-10. This six-day, instructor-led seminar includes lectures, practice questions, hands-on exercises, and homework assignments that address the content tested in all three parts of the CWI Exam. In order to qualify for the free seminar you must register via the certification portal.

March Hotline

Seeking Employment

Welding Engineer with 24 years’ experience in weld process development, resistance spot welding, drawn arc welding, projection welding, production launch, weld characterization, and welding standards seeks employment. Please contact (248) 289-2911 with inquiries.

AWS Welding Journal Highlights SWMC

The February 2019 issue of the Welding Journal featured an article on the AWS-Detroit Sheet Metal Welding Conference. To review the article, visit page 14 of the February 2019 Welding Journal.

Employment Opportunities

MONROE COMMUNITY COLLEGE

• Materials Technology/Welding Instructor - Full Time Position. Requires a BS in a technical field related to welding, materials, metallurgy, etc. Position is open with a planned start date of Fall 2019

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Thanks Again for Your Support of Our Efforts

For many years, the AWS-Detroit Section has been committed to supporting education as an integral part of fulfilling our mission statement. The educational activities we as a section support include our annual high school welding contest, the biennial Sheetmetal Welding Conference, our vocational grant awards, and our scholarship program. As with all the section accomplishes, it would not be possible were it not for the dedication of our volunteers, the support of our partners in industry, and the various educational organizations and students that all come together and contribute to build a better welding industry for all of us.

For the academic year 2018/2019 the section was able to award 30 scholarships totaling $60,000 to candidates from 9 different schools. This year, one of those awardees could be you. If you are enrolled in a welding class or are in any other welding program for 2019–2020 for academic school year, you may be eligible for a variety of scholarships. These would include the AWS-Detroit section Scholarships, AWS-Detroit section Named Scholarships, AWS District-11 Scholarships and the AWS-National Foundation Scholarships, which includes a special scholarship offer from Praxair.

You can find more information about the AWS-Detroit and Praxair scholarship application process, and determine your eligibility at our website www.awsdetroit.org - Just click on the ‘Scholarships’ tab. The application deadline is April 1, 2019. Again this year we have an interactive on-line application – We encourage everyone to take advantage of it. Please note that the on-line form cannot be saved – You must fill it out completely in one setting.

All information concerning AWS District and National awards can be found at www.awss.org/about/page/scholarships.

As chair of the AWS-Detroit scholarship committee I would encourage everyone to stay committed and focused on your education. The possibilities are bright within our industry, so to anyone who thinks that they may be eligible I would not delay in sending in your application - You never know what might happen. I know this because I have been there, the recipient of a $1500 award from the AWS-Cleveland section many years ago (ok, 1993).

The following is a summary of the education funding opportunities, both inside and outside of the American Welding Society, which I am aware of. My request is to please forward any other sources so we can get the word out.

**AWS-Detroit Scholarships**
For students pursuing Post-secondary training or an Associate/Bachelor Degree in Welding Engineering or Welding Engineering Technology. These scholarships provide money to be used for the student’s tuition, books, or lab fees for one year.

To be eligible for these scholarships, you must be enrolled in a certification-based program or two (2) or four (4) year engineering degree program in Welding, Welding Technology, or a related field.

The program supports students attending schools in the state of Michigan and the following counties in the province of Ontario: Essex, Chatham-Kent, and Sarnia-Lambton. Please reference the attached General and Instruction letters, plus the section boundary map.

An on-line application form (with supplemental instructions) is now available on the AWS Detroit Section website: www.awsdetroit.org. Application deadline for the 2019-20 academic year is April 1.

**AWS Welder Training Scholarships**
The AWS Welder Training Scholarship is for students seeking training to become a welder in a program up to two years in length at a trade school, community college, or other facility providing welder training. This is not for an associate degree.

In 2019, each AWS District has twenty-five (25) $1,000 scholarships to award. Five of those scholarships will be designated for high school seniors for training following graduation.

Applications are accepted year-round and selections are made on a rolling basis until the District awards the designated funds for the year. The current application cycle is open to students attending school or training prior to May 2020.

The link to the web site is: www.awss.org/foundation/page/scholarships

**Other AWS Scholarship Opportunities**

All of the following (and many more) can be found at the AWS Foundation web-site. These include various section (local), district (regional), and national scholarships: www.awss.org/foundation/page/scholarships. One and all encouraged to submit an application with the AWS Foundation. You never know what might be available.

Of note are the District-11 scholarships funded by the AWS-Detroit section.
• AWS Detroit Section, District 11 Fred Ellicott Scholarship for Arc Welding
• AWS Detroit Section, District 11 Dietrich Roth Scholarship for Resistance Welding

**AWS-Detroit Vocational Grants**
The AWS-Detroit section and the AWS Foundation have established the “Welder Workforce Grant” program to directly provide funds to schools looking to finance their programs with new equipment, supplies and other qualifying items. There are $15,000 in guaranteed funds available to those within the AWS-Detroit section (see the attached section boundary map). www.awss.org/foundation/page/welder-workforce-grant

**Other possible sources of Welding Vocational Funding**

• This is geared more towards schools, and is funded by the band Metallica: www.allwithinmyhands.org

• From the host of Dirty Jobs – Mike Rowe: www.mikeroweworks.org

Best of luck to all of the applicants, and let me know if you have any questions!
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A more reliable locking mechanism.
7,000 pounds of locking force guarantees that signals pass flawlessly, even with heavy accelerations and payloads.

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

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Web: www.dengensha.com

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Editor’s Notes

March. Tis the month of Leprechauns and Roman emperors... Will it be in like a lion and out like a lamb? Or In like a lamb and out like a lion?

I’m happy to state that this month, we have a lot of good content in this issue for you, our readers. Sometimes it takes a little pushing to get the ball rolling again! You will notice that this month, we have re-introduced our Meet Our Members column. I thank both Dan Galiher and Mark Rotary of our executive committee for picking this up and getting it moving again! This is one of those columns that bring the human side back into our careers. Getting to know those that work in the industry and what they are like other than just great members!

You will notice that there are a lot of coming events in the next few months! Scholarship applications and Grant applications that become due on April 1st, Technical meetings on the second Thursday of the month, our annual AWS Detroit Section Ladies night in April, the annual High School Welding contest in May (don’t forget to turn in your entry!!) and looking way forward, our annual golf outing in July!

We’d love to see you at one of our AWS Detroit Section events! They are not only a great opportunity to network and learn, but also any donations to the section go directly to our grant and scholarship fund to promote the future of welding!

If you didn’t catch on to my opening line, maybe these will help jar the memory! “Beware the Ides of March” and Happy St. Patrick’s Day!

Have a great month and until next time!

Keep on Welding!
Robin

2019 AWS – Detroit Section
Ladies’ Night Gala

MotorCity Casino Hotel
Saturday, April 6, 2019
More Information/ Registration:
www.AWSDetroit.org

Room Rates are $149.99 before tax. Rooms must be booked 30 days in advance for this rate.

Proceeds support our Scholarship, Education, and Endowment Programs

Upcoming Events

March 14, 2019
March Tech Night and Awards Night
Featuring Mr. Robert Roth, VP AWS National. Ukranian Cultural Center, Warren, MI

April 1, 2019
AWS Scholarship Applications are DUE today. Online application – see www.awsdetroit.org for more information

April 2019 (exact date TBD)
April Tech Night. Centerline is our host. More information to follow.

April 6, 2019
AWS Detroit Section Ladies Night
Motor City Casino. Registration online – see www.awsdetroit.org

March Hotline
continued from page 5

• Maker Space Technician - Part Time Position (20 Hrs/Wk). Duties include helping students and community members run equipment and software in the maker space facility and the ASET Division.

Further information and applications are posted on the MCC web site: www.monroecc.edu

Possible Source of Welding Scholarships
Mike Rowe Works – www.mikeroweworks.org/
The AWS Foundation is committed to securing the future of the welding industry by positively impacting welding education. The Welder Workforce Grant is the latest effort to ensure a skilled workforce is ready when industry calls.

This year, the AWS Foundation will award up to $300,000 to improve and expand training programs and institutions to increase the number of welding graduates across the country.

Please note that starting in 2019 Applicants must be both AWS Educational Institution Member and SENSE Registered to apply for the Welder Workforce Grant.

**Detroit Section Welder Workforce Grant – Schools in the Detroit Section**

The AWS Detroit Section Welder Workforce Grant is a $15,000 grant open to any training program or institution within the boundaries of the Detroit Section. Applicants for the Detroit Section Welder Workforce Grant do not need to meet the requirements of being SENSE Registered and Education Institution Member. Deadline to apply online is April 1st, 2019.

The AWS Detroit Section with its commitment to local schools and educators established this endowed grant in partnership with the AWS Foundation. The grant is awarded in parallel to the AWS Foundation national funds. Schools in the Detroit section boundaries are eligible for these monies as well as the monies from the Foundation. It is recommended that schools applying contact the AWS Detroit Section Grant committee and request a letter of recommendation. The contact is Wesley Doneth – 810-844-2800 or doneth.wesley@fronius.com. The grant was made possible thru the AWS Detroit section due to our members and the commitment of supporting companies.

Grants up to $25,000 are available for secondary and post-secondary education/training institutions to enhance and improve welding programs resulting in an increase in the number of welding graduates and/or the number of graduates successfully placed in welding or welding-related jobs.

Funds may be used for:
- classroom or lab materials and/or supplies
- facilities improvements
- capital items
- computers, computer-based training systems
- metalworking equipment purchases or upgrades
- expand teaching staff

Funds cannot be used for:
- any program or area not related to welding education/training
- travel expenses
- student tuition or scholarships
- textbooks or teaching materials
- personal protective equipment
- indirect costs
- no grants will be given to individuals

**TO APPLY FOR ALL GRANTS:**

You must visit: [https://www.aws.org/foundation/page/welder-workforce-grant](https://www.aws.org/foundation/page/welder-workforce-grant)

The application is at [https://webportalapp.com/sp/login/awsgrant](https://webportalapp.com/sp/login/awsgrant)
Co-op Welding Students, Summer Interns and Part-time Welders
Contact Pat Bell: patricia.bell@detroitk12.org or (313) 282-8171 in Detroit

Matuschek Resistance Welding Equipment
Matuschek Welding Products, Inc.
42378 Yearago
Sterling Heights, MI 48314

Greg Barbeau
Product and Support Engineer
Matuschek Welding Products, Inc.
42378 Yearago
Sterling Heights, MI 48314

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Contacting: Workshop
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Cell: (586) 925-1255
www.matuschekwelding.com

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  • Tessonics Setup/Training
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kberner@genesis-systems.com
Sharing Your WPS...

By Eric Lichtfusz

eric.lichtfusz@roush.com

AWS/CWI 09070281

As I’ve discussed in a previous article, an AWS CWI may have many different roles and responsibilities. This can differ from one company to the next. Many times, the functions that a CWI performs are far different from those outlined in AWS QC1, Specification for AWS Certification of Welding Inspectors, or AWS B5.1, Specification for the Qualification of Welding Inspectors. What you do as a CWI needs to be carefully balanced with what you are authorized to do as a CWI and a thorough read of the aforementioned documents should give you valuable insight into this.

For this article let’s assume that you work independently. You’ve been contacted by a company, we’ll call them Company A, which manufactures weldments and they have more work than they have manpower. They’ve been given a purchase order by a large customer of theirs, Massive Escapades, LLC (a fictitious company), to take on a very large welding project. Company A contracted you to help them locate a company nearby that they could subcontract some of the overflow work to. I imagine this scenario is quite common. After reviewing the work that they have and what they intend to subcontract, you determine that the work is required to comply with AWS D1.1/D1.1M:2015. By thoroughly reviewing the contract documents, you read that Massive Escapades, LLC is retaining all rights as the Original Equipment Manufacturer (OEM). Under this contract any deviations from any portion of the specified code intended by Company A must be approved by Massive Escapades, LLC. Company A has qualified a PQR and has written a WPS for this job and they qualified their welders with this WPS. After a thorough review of these documents and a review of the standard, D1.1, you conclude that everything is in order and Company A is ready to start production. Now it’s time to direct your attention to the subcontract company that will be handling the overflow work.

Company A tells you that they have previously worked with another company and would like you to determine if they are capable to take the overflow work for this project. You make arrangements to visit the other company’s facility and after a tour of the facility and a review of their processes you determine they indeed have capability. However, during your review of their document library you’ve determined that they do not have a suitable WPS for the production weldments they are intended to produce. So, even though they are capable, they are not currently qualified to perform this work. You make the representative of Company B aware of your findings and share this information with the leadership at Company A. The due date for this project is rapidly approaching, and all the material for the overflow work has already been delivered to Company B. Since Company B has all the necessary equipment and personnel, and the existence of a robust quality system has been established during your tour, Company A finalizes a plan to proceed with outsourcing the overflow work. Company A decides that they quickly need to provide a copy of the WPS that they’ve qualified to Company B, so they can start production immediately. The leadership at both companies thank you for your service and for providing help in determining suitability for the production applications and tell you that you’ve completed your services to their satisfaction. Happy ending for all, right? Not exactly.

You established earlier that work is to comply with AWS D1.1/D1.1M:2015. So, what does D1.1 say about sharing a WPS with subcontractors? In Clause 4, Qualification, under Part A, General Requirements, subclause 4.2.1.1, we learn that, “Each manufacturer or Contractor shall conduct the tests required by this code to qualify the WPS.” “Shall conduct...” It has probably already been drilled into your head, but I’ll remind you that “shall,” by the definition provided in subclause 1.3.6.1 means “mandatory unless specifically modified in contract documents by the Engineer.” So, who is the “Engineer” that D1.1 is referring to? Subclause 1.3.1 defines the Engineer “as the duly designated individual who acts for, and in behalf of, the Owner on all matters within the scope of the code.” So, then who is the “Owner”? Subclause 1.3.5 defines the Owner as “the individual or company that exercises legal ownership of the product or structural assembly produced under this code.” Company A has been contracted to manufacture and weld for this project, but they do not have legal ownership. That distinction belongs to Massive Escapades, LLC, who in this case has retained all rights as the OEM. That means that Company A cannot modify any requirements established in D1.1 without approval from the OEM. You have an obligation to explain to the leadership at Company A that in order to be compliant with the code requirement, Company B must also qualify a procedure and their welders should then be qualified to that WPS. Or, Company A must be approved to deviate from this requirement. By doing this you are acting within the best interest of all parties involved. As the CWI who was hired by company A, it was assumed that you are the subject matter expert and are able to properly guide and navigate Company A through the process of outsourcing the overflow work to another contractor with full code compliance. In fact, AWS B5.1:2013 as part of your functions

Continued on page 17
February Tech Night Re-cap

The Detroit Section continued its Technical Meeting / Patrons Night on February 21, 2018 at the Ukrainian Cultural Center in Warren, Michigan. Before the technical meeting, the AWS Detroit Section Executive Committee member Mr. Steve Gucciardo acknowledged all the patrons for Detroit section in 2019. The names of the patrons are listed here. February’s technical meeting speaker was Dr. Karagoulis from General Motors. His topic is about the innovations in Resistance welding applicable in automotive industry. Dr. Karagoulis has decades of years of experience in R&D and manufacturing of the resistance welding innovations and application in automotive industry. His talk covered both resistance seam and spot welding. Some innovations details presented regarding the cap size, thermal dynamics of the electrodes, and specifics on tip dressing. The Technical Meeting / Patrons Night was attended by about 100 attendees, and lasted about 2.5 hours.

Patrons

AET Integration, Inc.
ARO Welding Technologies, Inc.
ATI Industrial Automation
CAE Tooling Services
Centerline (Windsor) Limited
Changer & Dresser Corp.
Dengensha America Corp.
Forrest Lissner
Fronius USA, LLC
FU SION Welding Solutions
JEC Distributors Inc.
LUVATA
Matuschek
Models and Tools, Inc
Obara Corp. USA
RAM Solutions Inc
RoMan Manufacturing, Inc.
Scott Pronger
Stäubli North America (formerly Multi Contact)
The Ohio State University Welding Engineering Alumni
United Technical LLC
Phase 3: Welding Projects – Projects may include fillet & groove welds on carbon steel and aluminum (plate or pipe) in the flat, horizontal, vertical and overhead positions. The use of SMAW, GMAW, GTAW, FCAW and OFC processes may be applied to the various projects that will be distributed during orientation. Print reading and layout skills will also be required.

REQUIRED SAFETY GEAR & TOOLS: Each student is required to bring the following Personal Protective Equipment (PPE). PPE items will not be supplied; failure to bring these items will result in the student being unable to compete.

1) All leather welding gloves (appropriate gloves for each of the processes listed)
2) Welding helmet (minimum shade #10)
3) Welding jacket (leather preferred)
4) Cutting glasses/shield or goggles (minimum shade #5)
5) Safety glasses with side shields
6) All leather above the ankle work boots

In addition to the required PPE, each student is required to bring their own tools for the projects listed above.

Your tool list may include: tape measure, combination square, protractor, compass, scribe, soapstone, pliers, wire cutters, clamps, hammer, chisel, wire brush, chipping hammer, etc. No power tools will be permitted.

INSTRUCTOR/ADVISOR PARTICIPATION: Each school attending will need to have an instructor/advisor competent in the area of welding as they will be charged with conducting the scoring for the student projects (same as we did last year). By doing this, there may be an opportunity to obtain CEU’s towards your CWI maintenance requirements.

SEE REGISTRATION FORM BELOW

46th Annual High School Welding Contest

REGISTRATION FORM

Once completed, email the registration form to Glenn Kay to gkayii@wccnet.edu by the submission deadline, APRIL 3, 2019. Please complete all fields below or your form will not be accepted. Should you have any questions about this form or the contest itself, please feel free to reach out to Glenn Kay via email for assistance.

INSTRUCTOR INFO

SCHOOL NAME: __________________________________________________________________________

INSTRUCTOR NAME: _____________________________________________________________________

EMAIL: ___________________________________________ PHONE: _____________________________

STUDENT INFO

<table>
<thead>
<tr>
<th>FIRST NAME</th>
<th>LAST NAME</th>
<th>EMAIL</th>
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EXPERTS IN AUTOMATION & WELDING SOLUTIONS

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Consulting - Welding engineering, metallurgical
Process Development
Welding Laboratory - Multiple welding processors
Welder Certification Test Services
Welding Academy and Training Facility
On-Site Consulting, Program Support - Short & long term projects
Weld Evaluations - Full metallurgical laboratory, ISO accredited services
Destructive Testing / Vehicle Teardown - ISO accredited
Non-Destructive Testing (NDT) - ASNT Certified Inspectors

ISO Accredited Laboratory Testing

- Full Metallurgical Laboratory
- Tensile, Impact (CVN), Fatigue, Hardness
- Scanning Electron Microscope (SEM / EDS)
- Macro Cross-Sectional Evaluations
- Failure Analysis
- Chemical Analysis

United Technical, Inc.
1081 E. North Territorial Road
Whitmore Lake, MI 48189
Office: (248) 667-9185
www.unitedtechnicalinc.com
This month we are excited to once again feature one of our AWS Detroit Section members in our Meet Our Members column.

Welcome, Kenny Martz, manager of the metallurgy lab at Comau.

Kenny, can you tell us a little about yourself, and what you enjoy about your position?

There are quite a few things I like about my position at Comau. I get to manage the metallurgy lab which focuses on failure analysis of components and helping to develop joining technologies that go into the assembly systems that we manufacture. Overall, the fact that I can make a difference in improving a process or product means a lot to me.

Why did you join AWS?

I joined the AWS back in 2008 while attending Schoolcraft Community College because my welding professor Rodney Johnson (Rod) would talk about the AWS frequently and would also have competitions at school. I felt by joining I would become more familiar with the welding community and be informed of welding related things going on around me.

What kind of things do you like to do outside of work?

Really anything motorsport or extreme sports related! In the winter, I like to snowboard and snowmobile and, in the summer, I like to go boating and dirt bike. I also like to tinker and restore things. My current project is the house that my fiancée and I purchased back in July, so I have been really focused on making that our own home.

What would you say is your most memorable moment when it comes to AWS and/or welding?

It would be when I received the results back that I passed my CWI exam. It was such a stressful time period from taking the three-part exam to the time I was waiting to see if I got a passing score.

Do you have a funny moment or story you’d like to share – be it on the job, in training or in school?

One day at school I was in one of my classes not related to welding and I could tell my teacher was having a rough day. I asked him what’s going on. He told me he was having some car issues and barely made it to class. So, I started asking some more questions about what the issue was and I suggested at the end of the day he bring it to the welding shop and I could take a look at it. He agreed and we pulled it into the shop. Turned out to be some loose spark plugs. So, I tightened them up and it ran great after that. Needless to say, I got an A in that class!

Another question I like to ask, is if there’s anything that’s near/dear to your heart?

Family and friends, I have been fortunate to have met some really good people through my career and gained some great friends in that process. In the previous question about what I like to do outside of work, well those things would be completely different without having family and friends to do them with and share the experiences.

Mentoring is a great advantage in any career. Have you ever been a mentor? Or, is there someone who has mentored you?

I have mentored several interns and have trained people within our organization, I have traveled to China and Italy to mentor some of our colleagues over there on welding and joining processes. There are many people that have mentored me in more ways than just technical experiences. I would love to go into that detail but I would need the rest of this magazine to go cover those.

How did you get your start in welding?

I started by taking classes at Schoolcraft Community College, they were initially just meant to be filler classes for credit hours. So, while learning to do something I have been wanting to try, I actually enjoyed it so much I changed my major to Welding Technology. While going to school part time I began working full time doing production Aluminum TIG welding for Alcan.

What do you see as the biggest challenge for the welding community in the future?

I think the biggest challenge will be filling the gaps of skilled labor. I do think there will be a shift from pushing 4 yr. degrees on to students to pushing skilled trades as viable career paths as well. I think this

has already started to happen with schools and colleges so I hope there continues to be more emphasis on that. Also, I previously mentioned the term “joining technologies” so I would like to point out that the welding community is having to broaden their skills to work with other types of methods of joining. I hope academia is aware of this and is adjusting their programs to keep up with these new technologies.

What would you tell someone who may be “on the fence” about getting into welding as a career?

Try to shadow people in the welding industry, there are many positions available in the field of welding and joining that you may not know about. Roughly 50% of all U.S. products require welding so that means job security whether you want to be a manual welder, robotic welding technician, welding engineer, or underwater welder. Most importantly, try welding! It’s exciting to be able to join parts together and build things. If that doesn’t interest you, maybe the science behind the welding process does. To summarize, there are many avenues you can go. If you put in the work and perfect your skill you will be in demand and make a good living doing it.

Would you encourage more schools (both high school and junior high) to encourage more young people to look into technical schools and jobs and not just degree positions?

YES! The path I took was through technical programs and I turned out just fine. I use my practical skills and knowledge that I have gained from those courses nearly every day. However, my path did not stop there because I knew I wanted to be an engineer from early on and nothing was going to stop me from reaching that goal. Fortunately, community colleges offer MACARO programs with universities to where you can use that 2-year technical

Continued on page 18
Q: “My company is relatively new to resistance spot welding and we are looking at efficiency improvements that would require running multiple part combinations on a single tool. With an eye towards minimizing potential changeover miscues we would like to utilize a single welding electrode for all of our spot welds, if possible. Unfortunately, after a review of the many electrode combinations that might work, we came away slightly concerned about the wide variety available. Are there any rules or guidelines that you could pass along to assist us?”

A: “In a previous column (ATWE Nov-18) we introduced the concept that resistance welding electrodes were specialized consumables with the dual role of transmitting both the required force and needed secondary current to the parts being joined. We then put forth the idea (ATWE Jan-19) that is not realistic for one size electrode to work under all conditions, and in fact they needed to be sized in order to accommodate the welding they were being asked to do. With the aforementioned in mind, this column will further the discussion into the actual material electrodes are made from in order to achieve these goals.

With respect to an electrode’s material composition, it might be best to begin ‘with the end in mind’. Specifically, what would be the perfect material to use to make our electrode? A few characteristics that come to mind immediately include 1) it should be a great conductor of electricity, 2) it should be really strong but easy to form, and finally 3) when being used it should last a long time. And lest we forget, 4) being inexpensive would also be much appreciated. To see how the resistance welding industry has responded to these varying, but related requests, we first need to determine how to measure them.

Many materials out there exhibit great electrical conductivity. Of course, when one sees the price of silver or gold their viability as an electrode material quickly fades. However, copper has very good conductivity, and from a cost standpoint is much more reasonable. IACS is the abbreviation for the International Annealed Copper Standard, and is the metric used to compare the conductivity of any copper alloy (an alloy defined as a metal that is a combination of two or more elements, at least one of which is a metal) to 100% annealed copper. Therefore, a value of 85% means that the copper alloy in question has 85% of the conductivity of pure annealed copper.

With regards to strength and formability, many materials come to mind that are very able to do both (steel, anyone). However, when one looks at them through the lens of also being good conductors, copper once again rises to top. With the addition of a few select alloying elements (Chromium, Zirconium, and/or Aluminum) we now have alloys that are able to deliver the physical properties we need, along with the conductivity required. Finally, as a basis for comparing the strength of our different electrode materials, we will use a Vickers hardness value (HV).

The Resistance Welding Manufacturing Alliance (RWMA) has done an excellent job of breaking down the various types of copper available within the resistance welding community. Identified by the RWMA as classes, these materials are used in all facets of the industry. Some are utilized for casting component parts, others are forged into the desired item, and finally a few are specifically designed for use as resistance welding electrodes. If we focus on the just the resistance spot and projection welding processes, three classes of copper are used in the vast majority of these applications - Class-1, Class-2, and Class-20.

Other organizations also classify copper to one extent or another (think chemistry but not heat treat, properties, etc.). If one is lacking the secret decoder ring needed to translate the myriad of different copper standards, the following very simplified table may be helpful.

<table>
<thead>
<tr>
<th>RWMA</th>
<th>UNS*</th>
<th>ISO 5182**</th>
<th>Composition</th>
<th>IACS</th>
<th>Hardness (HV)</th>
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<tbody>
<tr>
<td>1</td>
<td>C15000</td>
<td>A2/4</td>
<td>CuZr</td>
<td>90%</td>
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<tr>
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<td>A2/2</td>
<td>CuCrZr</td>
<td>80%</td>
<td>145-179</td>
</tr>
<tr>
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<td>A2/1</td>
<td>CuCr</td>
<td>80%</td>
<td>145-179</td>
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<tr>
<td>20</td>
<td>C15725</td>
<td>C20/3</td>
<td>CuAl</td>
<td>87%</td>
<td>133-144</td>
</tr>
<tr>
<td>20</td>
<td>C15760</td>
<td>C20/1</td>
<td>CuAl</td>
<td>78%</td>
<td>160-180</td>
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* The Unified Numbering System (UNS) is an alloy designation system managed by both ASTM and SAE
** ISO 5182 specifies the characteristics of materials for resistance welding electrodes

As one would imagine, the above has just scratched the surface with regards to electrode materials in particular, and industrial copper in general. To move the conversation further down the road, there are many excellent sources of information on this topic and a good place to start is the RWMA manual or one of the many electrode suppliers listed in the RWMA Directory (click here).

Finally, there are still a few more broad areas of concern related to the proper selection of resistance welding electrodes that we need to address, and will do so in a future column.”

If you have more questions about this topic, contact Don Maatz at:

R&E Engineering Services
A subsidiary of R&E Automated Systems, LLC
70701 Powell Road, Bruce Township, MI 48065
(586) 228-1900 – Office / (734) 793-2304 – Direct
dmaatz@reautomated.com

Many thanks to Greg Chambers, a Welding Specialist from Luvata Special Products, for his assistance with electrode materials.

References:
and duties, in subclause 4.1.2 states, “The WI shall be able to conduct audits of suppliers and organizations providing materials or services to the project. The WI shall ensure the work performed and associated records are maintained and conform to the requirements of the applicable standards or other contract documents.”

I should also note that D1.1 is not alone in the requirement for each contractor to conduct their own tests. AWS D1.2/D1.2M:2014 states, “each Contractor, shall, prior to the start of production….” qualify a PQR and prepare a written WPS. AWS D1.3/D1.3M:2018 states it this way; “Each manufacturer or contractor shall be responsible for inspection and testing of WPS qualification test assemblies in conformance with the provisions of Clause 6.” AWS D1.6/D1.6M:2017 states, “Each Contractor shall be responsible for the qualification of welding procedures to be used.” I would imagine that most, if not all other AWS standards have the same or similar requirements as do other organizing bodies such as, ASME, API, ISO, etc. Although the specific reason for this is not clearly given in any of these instances, I would venture to say the intent is pretty straight forward. Since in this example a Prequalified WPS was not utilized, which I won’t go into detail here, demonstration of capability to comply and perform to the specific essential variables established by that particular WPS needs to be determined. This becomes a matter of technical competence. Since each contractor may have unique manufacturing practices, equipment, welding personnel, physical environment differences, building infrastructure, etc., some or all of these things could and will likely have an effect on production welding and the utilization of the WPS.

As you can see, the practice of simply handing over a WPS from one company to another, even between companies that have long standing, cooperative relationships, is not so straight forward. The role of making those decisions can be confusing at times, but ultimately it rests with whomever is assuming full legal responsibility for the project.

If you’re not already an AWS CWI and the idea of becoming a CWI is a career that you would like to pursue, the AWS-Detroit Section is hosting two AWS CWI Seminar/Exams for this year. The seminar/exam dates and location are as follows:

<table>
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<th>CWI Seminar</th>
<th>Location: Detroit Metro Airport Marriott</th>
<th>30559 Flynn Dr, Romulus, MI 48174</th>
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<tr>
<td></td>
<td>(734) 729-7555</td>
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<tr>
<td>May 05 – May 10, 2019</td>
<td>Oct. 13 – Oct. 18, 2019</td>
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<tr>
<td>Exam May 11, 2019</td>
<td>Exam October 19, 2019</td>
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Check the AWS-Detroit e-Bulletin often for other helpful information, at www.awsdetroit.org. For more information on how to become properly trained and certified by the American Welding Society and to register, you can visit www.aws.org/certification.
FABTECH - Chicago Nov. 11-13, 2019
Announcements will be forthcoming in the near future regarding plans for celebrating our 100th Anniversary. Many events are planned to celebrate this major milestone. Invite your associates and students to join during our centennial year.

NEW --- WELDING COMPETITIONS --- NEW

As I have stated many times I wish to attend as many of the welding competitions in our District as I can. Well, now you have a big reason to make sure I am invited. New for 2019 is $5000 in new scholarships available to be awarded to WINNERS of welding competitions. Your AWS Board of Directors approved this in November and this is now ready to be implemented. PLEASE invite me to your competitions so I can award these new scholarships in our District.

2019 DEADLINES

Scholarship Applications: Deadline is April 1
Detroit Section scholarship direct link for applications is: www.awsdetroit.org. Contact other Sections or visit www.AWS.org for information and application forms.

District Educator Scholarships
AWS National and District Educator Scholarships (including instructors) are available. Applications should be completed no later than April 1st. Submitted applications for the District level will be considered by the District Committee with awardees selected at the May 20th, 2019 District Conference. Go to www.aws.org/educatorsscholarships for more information and applications.

Welder Training Scholarship Applications
With the start of a new year we begin with new opportunities for applicants to apply for these scholarships. These are for individuals who want to learn how to weld, as a stand-alone skill or if they are taking welding classes as part of a technical school program for fabricating, machining, automotive mechanics classes, etc. In 2018 District 11 (Michigan and Northwest Ohio) awarded 20 scholarships of $1,000 each. Students wanting a scholarship may apply at www.aws.org/foundation/page/scholarships. For 2019 our District has 25 scholarships available - students should apply soon. Awards are made to qualified students on a first-come basis until all awarded. Applications are simple and completed on-line.

LEADERSHIP SYMPOSIUM

One individual from our District will be selected to attend with air, hotel, meals, and transportation expenses paid. Interested adults please notify me (your District Director) of your interest along with a short biographical sketch or resume and a statement of why you wish to attend along with supporting letters from your Section officers. Applications will be presented at the May 20th District Conference and the conference attendees make the final selection. Interested parties are encouraged to attend the District Conference.

AWS Welding Instructor Institute
Applications should be submitted early for this and one instructor from our District will be selected to attend with air, hotel, meals, and transportation expenses paid. Apply at: www.aws.org/events/detail/instructors-institute.

AWARDS

Look around your Section and let’s recognize outstanding members who serve our industries and the Society. Please forward recommendations so we can work together to get these individuals recognized. Awards are available for local Sections, District, and National Awards. Information is available at: www.aws.org/about/awards.

CWI CERTIFICATION

Detroit Area 2019 Seminars and Exams are scheduled for:
Seminars May 5-10 and Oct. 13-18
Exams May 11 and Oct. 19

DISTRICT DIRECTORS REQUEST

I wish to attend as many of these as possible but I need to know when events will occur, and the sooner the better. Please let me know dates for events, welder competitions, technical meetings, training sessions, golf outings, or just an Executive Committee meeting. If you have an opportunity for me to visit a school or a Section meeting, I am available and will travel on a mutually agreeable date.

Meet Our Members
continued from page 15

degree and take 30-40 more credit hours and turn that into an undergrad, this is the path I chose.

Finally, if you weren’t involved in the welding industry, what would be your dream job?

Owning and operating a Margarita stand on the beach. Unfortunately, my other desires require a steady income, health insurance, 401k, vacation time and a stable job. Therefore, I will stick with my current position.

Thank you, Kenny, for taking time to be our featured member for the March Meet Our Member column.

For anyone that is interested in becoming a featured member in this column, or if you know of someone that you would like to see featured in this column, please contact Mark Rotary by email at mark.rotary@zf.com.