February Technical Night
Thursday, February 9, 2017
Extremes of Resistance Welding for Lightweight and Aluminum Applications
Hosted by
R & E Automated Systems
17500 23 Mile Road, Macomb, MI 48044

This will be a great evening to network, enhance your knowledge of aluminum weld applications and give you an opportunity to tour the facility and view some of the latest technology.

• Meals will be provided in the training area of R&E. During the meal, Don DeCorte will give a 15-20-minute overview of what is new at RoMan Mfg. (i.e. IRCO Automation, current trends in the automotive and industrial portion of Resistance Welding, an update on new technologies at RoMan including Fast Rise Time and Reversing DC).
• Bob Carrier will give a 5-10-minute overview of R&E and explain what will be occurring during the technical presentation and tour (laser, prototype, hemming, lab)
• Don DeCorte will give a presentation on “Extremes of Resistance Welding for Lightweight and Aluminum Applications”
• Following Don’s Presentation, the group will be split in half.
  o Don DeCorte will demonstrate the Reversing DC equipment currently in the R&E lab with half of the group.
  o Brian Turner will demonstrate the Fast Rise Time equipment at the R&E lab to the other half of the group.
  o The groups will then switch.
• Don Maatz will conduct tours of the facility including the laser booth, prototyping, hemming and the lab.

Don DeCorte Bio: With a 37-plus year career in the resistance welding industry, Don DeCorte is responsible for overseeing RoMan’s Automotive and Industrial Resistance Welding products. At RoMan he has held positions in sales, applications, product development, and COO of one of RoMan’s divisions. Prior to joining RoMan, he held technical, product development, and sales management positions, with various resistance welding companies. Don is a lifetime member of the American Welding Society, a continued on page 2

AGENDA
5:30 - 6:00pm Welcome Reception & Networking
6:00 - 6:45pm Opening Remarks & Meal
6:45 - 7:00pm AWS Patrons Awards
7:00 - 7:30pm RoMan Technical Presentation
7:30 - 8:00pm Facility Tour
8:00pm Adjourn

RSVP
Amanda Davis
(248) 512-1803 or email amanda.davis@fcagroup.com

See map on page 2

Featured Speaker: Don DeCorte
February 2017

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

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Contact Don Crist
810-217-9897
dcrist@romanmfg.com

February marks the wrap up of our annual Patrons campaign. This year we will be recognizing 20 Patrons at the monthly Technical event that will be held at the R&E Automated facility in Macomb. Technical content for the evening will be provided by Don DeCorte of RoMan Manufacturing. Detroit Section Patrons contribute a very significant sum to our yearly collection of funds that are reserved for scholarships, grants and other educational endeavors within the State of Michigan. For those unfamiliar with the Detroit Section Patrons program, this campaign was launched many years ago for the express purpose of securing funding to support the students and educational programs that are considered important to our Section. A Patron is recognized as a company, organization or individual that has made a significant contribution to the AWS-Detroit Section Patrons’ Fund ($100 or more). Patrons are acknowledged on the AWS Detroit Section website, in the Detroit Section monthly bulletin and at our annual social functions. Much of the good work we accomplish in our section would not be possible were it not for these contributions. The Section continuously strives to provide good value for every dollar donated to ensure that our Patrons consider their support as money that is well invested. I would like to take this opportunity to thank all of our 2016/2017 Patrons for their assistance to this year’s campaign. If you or your organization would like to become a Patron or if you would like more information on this program, please feel free to contact me directly or contact our Patrons’ Chair, Eric Lichtfusz (eric.lichtfusz@rous.com).

Next month we have two great events to look forward to. Our March Technical Night will be held at Paslin on Thursday, March 9 and our Annual Ladies Night Gala, one of our premier social events for the year being held at the Royal Park Hotel on Saturday, March 25. Hope to see all of you at these great events. For those that choose not to attend, I welcome any productive feedback that might help us to encourage your attendance in the future.

Kind Regards,
Tyler Alexander

Don DeCorte Bio continued from page 1

lifetime Counselor of the AWS, and currently Chairman of the Education Committee of the RWMA, (Resistance Welding Manufacturing Alliance), a recipient of the American Welding Society’s National Meritorious award, and the 2015 recipient of the Elihu Thomson Resistance Welding Award from AWS/RWMA for his outstanding contributions to the technology and application of resistance welding. He is a graduate of the Industrial Electronics program of RETS Electronic Schools Detroit, MI.
AWS Detroit Section Ladies Night

The Detroit Section’s Ladies Night is an annual affair dating back to May of 1941. Since that auspicious beginning, Ladies Night has been held every year. Over the years the event has evolved from an end of year get together to introduce the Past Chairman and the newly elected officers of the section (now occurs on Spouses Night) to its present day role as a social event to promote networking on a couples basis and as a fundraiser.

As one of the Section’s primary fundraisers, proceeds from the event support our scholarship program, professional development activities, and new for 2017 the Detroit Section is working to create a Section Grant program allowing us to provide financial support to local schools offering welding classes.

The 2017 AWS Detroit Section’s Ladies Night venue is the Royal Park Hotel located in Rochester, Michigan. For those not familiar with this facility, located approximately 30 miles north of Detroit, it’s one of only 15 hotels in Michigan to earn the AAA Four-Diamond Rating. In addition, the boutique hotel has also been recognized the last two years by World hotels for the Best “Experience Creator.”

The Ladies Night Committee has arranged for a discount room rate for those wishing to spend the night. Guests need to call the Royal Park Hotel at (800) 339-2761 and identify the event (AWS Ladies Night) to reserve rooms at the block rate.

Please see the Events Page on the Detroit Section website for additional details www.awsdetriot.org/events

AMERICAN WELDING SOCIETY
DETOIT SECTION

Ladies Night Dinner Dance
Royal Park Hotel - Rochester, MI*
Saturday March 25, 2017
6:00 pm - Midnight

REGISTRATION

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ARE YOU INTERESTED IN DONATING A MAJOR RAFFLE PRIZE? **

* Discounted rooms at the Royal Park Hotel can be reserved at (800) 339-2761, ref. "AWS Ladies Night"
** As the AWS is a public charity, your contributions are deductible.
** This event supports our AWS Scholarship & Educational programs

REGISTRATION / PAYMENT TYPE

☐ CREDIT CARD: direct via wwwAwsdetriot.org

☐ CREDIT CARD: (complete form and mail or e-mail)

☐ CHECK: (complete form and mail or e-mail)

Contact John Bohr: (734) 751-7226 | john.bohr@gmail.com
AWS Detroit - Ladies Night, 34209 Grove Dr., Livonia, MI 48154
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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.

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February Hotline

Calling All Candidates For
The 2017/2018 Executive Committee Election!

Each winter the AWS Detroit Section Nominating Committee assembles a list of Candidates to prepare a ballot for an election that occurs in early April. To prepare for the election, the Nominating committee is charged with assembling a roster listing a minimum of 8 candidates who represent the various segments of the welding industry.

Why Is This Process Important?
Quality Nominees are essential to the continued success of AWS-Detroit, which was chartered on February 3, 1925. With more than 1,000 members, AWS-Detroit continues to thrive and host several nationally recognized activities, including Ladies Night and the Sheet Metal Welding Conference. The objectives of the AWS-Detroit Section include:

- The advancement of the science, technology and application of welding and allied joining and cutting processes, including brazing, soldering and thermal spraying;
- Support for, and provision of, educational opportunities related to welding and allied joining and cutting processes;
- Encouragement of the interaction of the local community of welding professionals, students, and users; and,
- Advancement of the image of welding.

Please contact Tyler Alexander (519) 734-8868 (x4476) or tyler.alexander@cntrline.com for more information. This is your opportunity to advance your involvement in one of the oldest and largest sections in the USA.

T. J. SNOW CO.

FOR IMMEDIATE RELEASE
January 15, 2017

Matt Post Joins T. J. Snow Company as Regional Sales Manager in Michigan

Chattanooga, Tennessee—T. J. Snow Company has recently hired industry veteran Matt Post as a Regional Sales Manager.

In his new role, Post will be responsible for T. J. Snow's resistance welding machinery and supply sales in the state of Michigan.

Post was employed at Apex Controls for 11 years, where he focused on sales, service and support for resistance welding components.

Based in Holland, MI, Post will continue to offer prompt and personal service in the region. With over 25 years of resistance welding application, engineering and process experience, Post is well known in the industry, having previously worked for RomMan Manufacturing, Tuffaloy Products and TG Systems.

He serves on AWS Western Michigan's Board and is a member of the Executive Committee of the Resistance Welding Manufacturing Alliance (RWMA).

Post will host one of T. J. Snow's popular Resistance Welding Regional Seminars on June 21, 2017 in Grand Rapids, Michigan. For more information or to register, please go to http://tjsnow.com/seminars/training-regional-seminars/.

About T. J. Snow Company
T. J. Snow Company is recognized as a full-service leader in the resistance welding industry. Located in Chattanooga, Tennessee, the business continues to be family owned and operated. T. J. Snow Company is committed to helping customers succeed with the resistance welding process by delivering superior service, technical expertise, quality and value on resistance welding machinery, parts and accessories, and service. For more information, contact: Catherine Bentley, cb@tjsnow.com; (423) 894-6234; tjsnow.com

R&E Engineering Services

R&E Engineering Services has donated steel to Washtenaw Community College's Welding Department to help support their new robotic welding and resistance welding courses. WCC Welding Department has recently revamped their courses to include advanced welding processes. R&E Engineering Services is proud to help support the advancement of the welding industry in the greater Detroit area.

LINCOLN ELECTRIC ANNOUNCEMENT
January 12, 2017

In Memory Omer W. Blodgett

It is with great sadness that we announce the passing of Omer W. Blodgett, P.E., Sc.D, who passed away yesterday at the age of 99. He was a world renowned authority on the design of welded connections and was with Lincoln Electric for more than 60 years, retiring as a Senior Design Consultant and Lincoln Electric’s “Employee of the Century.” During his tenure, he authored numerous manuals and textbooks for the arc welding industry and his seminars on welding were known throughout the welding industry.

Mr. Blodgett became involved in welding at the age of ten when he struck his first arc with his father’s Lincoln Stable-Arc welding machine in Minnesota. Through his high school years, he worked as a welder at his father’s company and became certified as a welder for high pressure applications in 1938. After obtaining a Bachelor of Science in metallurgical engineering and a Master’s degree in mechanical engineering from the University of Minnesota, Mr. Blodgett became a welding superintendent at the Globe Shipbuilding Company. Under demanding war-time production conditions, Mr. Blodgett learned firsthand how to solve welding-related problems such as distortion and cracking and met James F. (“JF”) Lincoln, with whom he would share a lifetime friendship.

Following World War II, he joined Lincoln Electric at the urging of “JF” and served as a technical representative and later as a design consultant - working in both the mechanical and structural fields. In this role, he became the primary presenter of the Lincoln Electric Welding Design Seminars which continue today and are named in his honor. Additionally, he was a frequent speaker on welding design at the American Welding Society (AWS) sectional and national meetings and conducted welding design seminars all over the world.

During his career he authored numerous technical articles and textbooks on design, including Design of Weldments and Design of Welded Structures. He was a licensed professional engineer in the State of Ohio, a fellow of the ASCE (American Society of Civil Engineers, ASME (American Society of Mechanical Engineers) and the AWS. Other affiliations include Tau Beta Pi and Sigma Xi.

Mr. Blodgett was a long time member and contributor to a number of organizations including the AWS D1 Structural Welding Committee, the American Institute of Steel Construction (AISC) Committee on Specifications, and the Welding Research Council (WRC) Task Group on Beam to Column Connections. His contributions were recognized by AWS in 1962, 1973, 1980 and 1983, when he was awarded the A. F. Davis Silver Medal for his work in structural design. From the AISC, he received the T.R. Higgins Lectureship Award in 1983, the Engineering Luminary Award in 1997 and AISC’s Lifetime Achievement Award in 1999. In 1993, LeTourneau University awarded Mr. Blodgett an honorary Doctor of Science degree, in addition to naming the Welding Engineering chair in his honor. In 1999, he was named by Engineering News-Record as one of the construction industry’s top 125 innovators over the past 125 years, a distinction also given to John Roebling, Buckminster Fuller, Thomas Edison, Frank Lloyd Wright and R.G. LeTourneau.

We are indebted to Omer who was a mentor to many, left a lasting legacy in our industry, and who will be fondly remembered with great honor. We extend our heartfelt condolences to his family.

continued on page 5
January Technical Meeting Re-cap

The AWS-Detroit section hosted its January Technical meeting at Easom Automation in Madison Heights, Michigan. Mr. Mark Schnee, the General Manager of Lincoln Electric Automation Solutions at Easom Automation Division, gave a presentation on Modular Arc Welding Cell Innovations. His presentation detailed how Lincoln Electric Automation Solutions innovatively designed the arc welding cell in a modular fashion for less maintenance effort, short down time, and flexible upgrade/interexchange of some portion of the cell for multiple welding applications. There were about 30 attendees at the meeting. A shop tour of Easom automation was given after Mr. Schnee’s presentation.

Rod says the food was freaking awesome!

February Hotline continued from page 3

Arrangements will be handled by Chambers Funeral Home in North Olmsted, Ohio and details will be made available at: www.chambersfuneral.com. We ask our member to you share your stories of Mr. Blodgett with us.

“Omer lived for a while in the same retirement community as my mother and she knew him and his wife. One day when I paid a visit she said she wanted me to meet someone. My mother had told Omer about what I did and he was interested in meeting me. I learned from my mother that the person we were meeting was also in welding. I said sounds good and off we went to have lunch together. We were sitting down already and in walks Omer Blodgett. Good thing I was sitting down.”

Mr. Donald Maatz

Coming Events: February – April 2017

February 9
AWS Detroit Tech meeting – Patrons Night
Hosted by R&E
Automated Macomb MI

March 9
AWS Detroit Tech meeting – Old Timer’s Night. Hosted by Paslin (location TBD)

March 25
AWS Detroit Section Ladies Night
Royal Park Hotel, Rochester, MI

April 1
AWS Detroit Scholarship Deadline!

April 2 – 7
AWS CWI, CAWI, CWE Welding Inspector/Educator
Hosted by AWS Detroit Section
Location: Detroit Metro Airport, Marriott

AWS DETROIT SECTION
PRESNTS
LADIES NIGHT PARTY
SATURDAY MARCH 25TH
LIVE MUSIC BY MOTIF
**Q:** “We have a current meter that is not displaying correctly. It is reading 9.3 9.4 kA when we think it should be displaying 10.0 10.1 kA. Are we in need of calibration, or perhaps a repair? It is not due for calibration for 6 months.”

**A:** “To date we have discussed several aspects of our initial question. The December-2016 column touched on the idea of measurement accuracy and then detailed a few questions one should consider when you have a current meter that is reading differently than expected. With the January-2017 column we presented a few options to consider if your current meter (or other measuring instrument) is not reading in an accurate manner. These options ranged from discarding and replacing it to thoughts on repair and calibration. Now it is time to talk about what was done to address the specific issue that initiated this missive. As is often the case, when issues related to calibration and meter accuracy come up, the answers are a combination of experience and some engineering thoughtfulness. Also, a bit of luck never hurts. Regardless of the methodology, it is helpful to provide the customer/user with any insight as to what might be occurring. That being said, I should also state that while we are very experienced with these meters and have a good feel for their nuances, we are not OEM Electrical Engineers. So it is very possible that what may be occurring with your meter is beyond the scope of this column (and our abilities). But to attempt to help all concerned to better comprehend what might be occurring, we hope the following is helpful as we illustrate how this meter might be occurring.

Where we have seen variability occur is with the current sensing coil (CSC). These tend to have the highest failure rate of any portion of the meter, and also have a large impact on the resultant readings that are displayed. The high failure rate makes sense as the CSC is in a much better position to be in the line of fire should anything go wrong. While most coils are fairly robust, we have yet to see one that can withstand being caught between electrodes under 900# of force.

When a current verification check is performed it should be in a method that is compatible with Reference-1. This helps to ensure that the variability inherent with any CSC is minimized. For this example, a custom shaped wooden insert (see Figure-1 for the representation of a round coil) is utilized to center the CSC on the secondary loop. The current checks are then conducted at various levels with each current level being done in the eight (8) positions shown. A ‘hanging’ test is also recommended that utilizes at least four (4) positions. This test attempts to mimic how a facility uses their meters on the factory floor.

For our example, after all of the above testing, the meter was reading within acceptable limits. What we think was occurring is that when the CSC was inserted into the wooden holder, or secured for the hanging test, it was placed in a position that appeared to have minimized the effect of an issue with its internal components. Examples of CSC issues include broken internal wires, or connections, that are only made on an intermittent basis. But when the meter was used as intended and the CSC is no longer constrained, the readings changed. The initial attempt at a fix was to install a new CSC. Once the new CSC was installed, the meter read just fine on both the calibration stand and more importantly, at the customer’s facility. As I said, a bit of luck is always helpful.”

A special thanks to Eric Pakalnins, calibration coordinator, and Bernard “Reggie” Scales, calibration technician, for R&E Engineering Services. If you have more questions about this topic, Don can be reached at:

R&E Engineering Services
A subsidiary of R&E Automated Systems, LLC
17500 23 Mile Road – Suite B, Macomb, MI 48044
(586) 228-1900 – Office
(734) 793-2304 – Direct

**Ask the Welding Engineer**

By Donald F. Maatz, Jr.

**References:**

Figure-1 - Current Sensing Coil (CSC) Positions: Taken from AWS A10.1M:2007, Figure 5
Thank You from the Patron’s Committee Chair

I would like to take this opportunity to personally wish everyone a Happy New Year! On behalf of the AWS-Detroit Section and myself, I would like to thank each and every company and individual who chose to support us as a Patron this year. With your help and generous support, we were able to raise $9,505.00 during this season’s email campaign. Well done!

As you may already know, the American Welding Society Detroit Section sponsors many students with these funds, and you, the Patrons are a large part of that. Last year we awarded 37 welding scholarships totaling $60,000 to students who attend Ferris State University, Lansing Community College, LeTourneau University, Madonna University, Monroe Community College, Oakland Community College, Schoolcraft Community College, Siena Heights University, Washtenaw Community College and Wayne County Community College District. This year we hope to accomplish even greater things.

Please join us on February 9, 2017 where we will be honoring our Patron’s at the AWS-Detroit Technical Meeting/Patron’s Award Night. This event is presented by AWS-Detroit, RoMan Manufacturing and R&E Automated Systems, located at 17500, 23 Mile Rd, Macomb, MI, 48044. The event begins at 5:30. You can get more information on this event by following the link below and clicking on the events tab.

http://www.awsdetroit.org/events.html

For those companies or individuals interested in becoming a Patron of the American Welding Society Detroit Section, all it takes is a minimum $100 contribution. Patrons are made known to the membership in the monthly technical bulletin, on the AWS website, and are further acknowledged by listing them in the annual Ladies Night Program.

Please visit our website often for news and information regarding any of our events throughout the year, and feel free to contact me directly with any questions that you may have regarding the Patron’s.

Warmest regards,

Eric Lichtfusz
AWS-Detroit Section
Patron’s Committee, Chair
12068 Market St.
Livonia, MI, 48150
734.466.6504
eric.lichtfusz@roush.com

Editor’s Notes

Welcome to February! Typically, one of the coldest and most brutal winter months in Michigan, but we’ll see what mother nature has in store for us this year. There’s been quite a bit of activity already this year within the AWS Detroit section, and great things are coming! We have quite a few events and technical meetings to finish out the season. There are always opportunities to get involved and to volunteer to “Make America Great Again” through our section. Activities, like the High School Welding competition, mentoring one of our student chapters, or jumping in to assist in some of our new endeavors with local welding groups within our community. Maybe, it’s talking to a group of students at one of our local high schools about the opportunities that are available in welding, donating materials or time to one of the many groups we support. Perhaps it’s talking to your coworkers, friends and neighbors about what we do and inviting them out to a meeting or event. You just never know who you might send on a new adventure in life by opening up their mind to opportunities they may not be familiar with.

We’d love to see you at one of our technical meetings! Check out the upcoming events in this bulletin, or on our website, www.awsdetroit.org for dates, times and locations!

As always, until next month,

Keep on Welding!

Robin Michon
editor
THE CONNECTING MASTERPIECE

Eisele LIQUIDLINE ~ The most comprehensive line of push-in fittings and threaded connections for cooling water circuits.
Combined with flame-retardant and robust ProWeld tubes LIQUIDLINE is your ideal solution for welding applications.

- release sleeve for anti-weld spatter build-up
- de-zincification resistant brass
- 10% improved through flow
- wide sweep elbows with increased through flow 50 + %
- swiveling elbows for weld guns
- robust-Long Service Life
- flame retardant ProWeld tubing

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Your Name Here!

We Want YOU to be featured in our column. If you are an AWS Detroit Section member, we want YOU to be featured in one of our articles!

It’s a great way for all of us to learn a little about our members, and the diversity that is out there in our group. Consider this, we have members that are in various fields but all have something to do with welding. You may be a welder for the automotive industry, or perhaps a welder of pipe for the construction industry. We have welders that work in the petroleum industry, aerospace industry, primary and secondary welding educators and even artists that use their welding skills as a way to depict art. Perhaps you aren’t a “welder” by trade, but a weld engineer or an integrator of welding equipment, if you deal with welding in any way, shape or form, this is your chance to shine!

Dan Galiher makes this process as simple as possible.

There’s a short interview that he emails to you. Questions on the interview sheet are answered as you would like, so if you don’t want to answer all the questions, you can pick and choose. Once you’re done, email the document back to him, with any pictures you’d want to include, and we’ll take care of the rest.

Contact Dan Galiher: danielgaliher@gmail.com to request an interview form and become one of our featured members!

Welding Scholarships
for
Post Secondary Training, Associate or Bachelor Degree
in
Welding Engineering, Welding Engineering Technology
or
Related Fields With Welding Content

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.

An on-line application form (with supplemental instructions) is now available on the AWS Detroit Section website, under the ‘Scholarship’ tab.

www.awsdetroit.org

Application deadline for the 2017-18 academic year is April 1, 2017.
Scholarship Committee
AWS Detroit Section
P.O. Box 32952
Detroit, MI 48232-0952

For 2016/17 the section was able to award 37 scholarships totaling $60,000 to students from 9 different schools.