Technical Event – Patron’s Night 2015
Thursday, February 12, 2015
“The Future of Welding at Roush”
Roush Automotive Collection
11789 Market Street • Livonia, MI 48150

The 2015 February Technical event is the annual Detroit Section Patron’s Night, where we acknowledge the generous donations made by local companies and individuals in the Detroit Section. This year we will be recognizing 28 Patrons who have made over $10,000 in donations. This money all goes directly towards scholarships for students pursuing a welding related education in Detroit and the surrounding areas.

Roush will be hosting the event at the Roush Automotive Collection Museum in Livonia MI. Thomas Topper, the Director of Operations at Roush, will cover the technical content for the evening with his presentation titled “The future of welding at Roush.”

AGENDA
5:30-6:00pm – Welcome reception & Networking
6:00-6:45pm – Opening Remarks & Appetizers
6:45-7:00pm – Patron’s Awards – Eric Lichtfusz
7:00-7:30pm – Roush Technical Presentation
7:30-8:00pm – Roush Tour
8:00pm – Adjourn

CHARGE This is a no charge event.

RSVP required by Tuesday, February 10, 2015. Attendance is limited by facility constraints. Please contact Susann Morfino for reservations. Phone: (586) 443-8333 Email: susann@mjmsales.com
Hope everyone made it through the January “Polar Vortex” unscathed… it will soon be March and spring time is right around the corner!

February is the month we recognize our Patrons. To become a Patron is not difficult and is not expensive. Our Patrons range from a $100 individual donation up to a $1000 corporate gift, we have schools, business, and royalties from books and the AWS Executive Committee as Patrons. All of these funds are committed to education, either in the form of scholarships or local educational events. In the ancient world Patronage referred to supporting the arts: musicians, painters, and sculptors, we continue this tradition by supporting the science of welding.

Either it’s the economy, “stupid” or just great fund raising, but this year’s contributions (I believe) were record setting. Eric Lichtfusz, has done an excellent job in his first year in this position. So thank you to Eric and all of the Patrons.

Please come out to Roush industries February 12th for a great technical event and to thank our Patrons.

Think Spring!

2015 AWS Detroit Section
Ladies Night Gala

Cocktails and Hor d’oeuvres
Ladies gift
Raffle prizes
Dinner and Dancing
Live Band featuring
—Steve King and the Dittilies—
Socialize with old friends

March 28, 2015 at 6:00 PM MGM Grand Hotel
For more information contact Wesley Doneth 810-844-2800 or doneth.wesley@ironius.com
Please visit our website for more information www.awsdetroit.org
Proceeds from this event benefit our scholarship and educational programs
American Welding Society  
2015 AWS Ladies' Night Gala  
Saturday, March 28, 2015

At the Beautiful  
MGM Grand Hotel & Casino  
Detroit, Michigan

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Donate a Major Raffle Prize: Yes  

# Tables (4 Couples) include Corporate/Company recognition.  
☆ MGM Hotel rooms can be reserved at (877) 888-2121, "American Welding Society 2015 Gala Room Block."  
☆ All gifts & prizes are recognized in the Program, in the Bulletin, & when awarded.  
☆ This event supports our AWS scholarship & educational programs.

3 Easy Ways to Register

- Mail: Wesley Doneth  
  10421 Citation Drive Suite 1100  
  Brighton, MI 48116  
  Telephone: Wesley Doneth  
  810-844-2800  
  E-Mail: doneth.wesley@fronius.com

Name  
Company  
Address  
City  
P.O. Box/Mail Stop  
Telephone  
e-mail  
State/Province  
Postal Code

Method of Payment

- Check (AWS-Detroit Section)  
- American Express  
- Master Card  
- Discover  
- Visa  
- Security Code

Card No.  
Expiry Date

Cardholder  
Signature  
Address

Special Dietary Needs (advance notice required)
As the Patron’s Committee Chair, I would like to thank those generous companies and individuals who have contributed so far to the fund.

2015 Patrons
AET Integration, Inc.
Ann Arbor Welding Supply
ARO Welding Technologies, Inc.
ATI Industrial Automation
CenterLine (Windsor) Limited
COR-MET, Inc.
Degensha America Corporation
Fronius USA, LLC
FUSION Welding Solutions
Genesis Systems Group
Hammitt & Associates Inc.
Industrial Control Repair (ICR)
LASAP, Inc.
LEONI Engineering Products and Services, Inc.
LUVATA Ohio, Inc.
Matheson Gas
Matuschek Resistance Welding Equipment
MJM Sales, Inc./RAM Solutions, Inc.
Multi-Contact USA
Ilse & Nick Hamers
Obara USA
Rochester Welding Co., Inc.
Roush
The Ohio State Welding Engineering Alumni
United Technical, Inc.
Vulcanmasters Welding Company, Inc.
Welding Jobs.com
Wyandotte Welding Supply, Inc.

AWS Patrons collectively provide annual funding for scholarships toward an Associate Certificate in Welding Technology or a Bachelor of Science degree in Welding Engineering or Manufacturing Technology. For more information please contact AWS-Patron’s Committee Chair Eric Lichtfusz.

Fronius USA, LLC Job Openings
Fronius USA, LLC has two job openings as described below. Applicants can apply through our recruiting portal: https://careers.fronius.com/Jobs/2?searchSkill1005=1000186&Search=1&lang=eng

- Sales Application Engineer – North America
- Sales System Engineer – North America

For detailed information about both these positions, please visit the careers tab on the AWS-Detroit.org website.

2015 Resistance Welding Seminar Schedule
T.J. Snow Company is putting on one day Regional Resistance Welding Seminars at various locations throughout the U.S during 2015. The ones closest to the Detroit area will be in Cleveland, OH on April 22, Grand Rapids, MI on May 20, and Columbus, OH on October 14.

For more information, go to: http://tjsnow.com/service/offsite_seminar_index.htm

Bosal Industries is seeking welders for its Ypsilanti, Michigan Plant to aid in the manufacture of stainless-steel tubing products. Job Requirements:

- Mig welding is required; Tig welding is preferred.
- Welding certifications are a plus.
- Employee will be required to pass a mig welding test during his/her probationary period.

Welders required for all regularly scheduled shifts:

- 1st Shift: 7 am-3 pm
- 2nd Shift: 3 pm -11 pm
- 3rd Shift: 11 pm-7 am

Rate Schedule for Probationary Employees (180 days then increase in wages):

- 1st Shift: $14.00 per hour
- 2nd Shift: $14.00 per hour, plus $0.60 shift premium
- 3rd Shift: $14.00 per hour, plus $0.75 shift premium

Applicants can apply to Human Resources: kgawronski@bosalusa.com

*SAVE THE DATE*

The 42nd annual AWS Detroit Section High School Welding Competition will be held on Friday, May 15th 2015 at Washtenaw Community College. Any Michigan high school with a welding program is invited to participate. Each school will be allowed to register up to 6 senior welding students. There are only 60 slots, so first come first served. I will send an email out with the registration form and all necessary info in early March to the schools that have participated in the past. If you wish to participate or volunteer for the competition, please send me an email so that I can add you to the contact list. ashleywebel@gmail.com Thank You and Good Luck!

IPG Photonics opens new Laser Seam welding lab in Novi, MI

IPG Photonics Corporation, the world leader in high-power fiber lasers, is introducing a new device for welding sheet metal and thin stock material called the Laser Seam Stepper (LSS). A new lab has been established to demonstrate this device at the IPG Midwest location in Novi, MI. The 18,000 sq. ft. facility showcases the three versions of this new system. The LSS device incorporates the same established techniques of spot welding on robotic applications with the many advantages of laser welding. There is also a poker version intended to allow one side laser “spot” welding and a hand held model for hard-to-automate low volume use.

Michael Wiener is the Senior Applications Engineer who is heading up the new lab. He has an Engineering degree from Germany and an International Welding Engineering Degree. He worked as a Project Engineer for Fraunhofer USA until 2009 and as a Senior Engineering Welding Specialist at AT23 Systems until joining IPG in 2013. Michael has 8 years’ experience with automotive laser welding applications as well as robot and PLC programming and project management.
Advanced manufacturing processes and systems, patented component products and high quality consumable products to join, form and coat your materials.

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- Cold Spray Coatings
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www.centerline.com

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Ask for Paul Shelbels
Or Call: 440-439-8081
Ask for Steve Ardrossy
Web: www.dengensha.com

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The new standard from ATI.

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Orion Township, MI 48359
248 278.0592
www.ati-ia.com/weld/
The new device is exclusive to IPG Photonics and was designed specifically to enhance the welding of thin stock materials in automotive, aerospace, rail car, agriculture and appliance manufacturing. The device has been proven over spot welding to add strength, reduce the HAZ, reduce weld count and improve surface appearance. It also is able to monitor every weld as a go or no-go acceptance using industry accepted weld monitors.

The device can be seen and demonstrated at the Novi lab which services the entire Midwest. Please email Michael Wiener at mwiener@ipgphotonics.com or call (248) 863-5001 to schedule a visit.

IPG Hosting the Laser Institute of America (LIA) for Laser Safety Officer Training in February

Industrial Laser Safety Officer • Novi, MI
Dates: February 18-19, 2015
Wed: 8:30AM to 4:30PM • Thur: 8:30AM to 4:00PM

Hotel: Make reservations directly with the hotel by phone or online. Use corporate ID# 100202764.
- Holiday Inn Express Wixom
  48953 Alpha Drive
  Wixom, MI 48393
  +1.248.735.2781
- Staybridge Suites
  27000 Providence Parkway
  Novi, MI 48374
  +1.248.399.4000
- Crowne Plaza Detroit- Novi
  27000 Karevich Drive
  Novi, MI 48377
  +1.248.348.5000

Registration:
You may register for this course by going to the Laser Institute of America Website: https://www.lia.org/store/course/IL Советs/215
Fees: $550.00 (LIA Member Price: $500.00)

Included in Registration Fees:
Course manual including a resource CD with useful LSO documentation forms, ANSI Z136.9 Safe Use of Lasers in Manufacturing Environments standard, LIA Laser Safety Guide and a certificate of completion.

Cancellation Policy
You may, at any time prior to 10 business days before your course begins, cancel your registration and receive a refund, less an administrative fee of $99. Within 10 business days of the course, the Laser Institute of America will not issue a refund. However, you can reschedule for a future course at no cost as long as you attend within the next 12-month period. Please be aware that if you cannot attend the course and fail to give proper notification prior to your course date you will forfeit your entire course fee.

For More information contact the LIA 1.800.34.LASER

Laser Institute of America
13501 Ingenuity Dr. Suite 128
Orlando, FL 32826 USA
+1.407.330.1553 • 1.800.34.LASER
www.lia.org

Hotline continued on page 9
What resources are available for someone looking to become a CWI (Certified Welding Inspector)?

To help answer this question I will relate to you some of my own experiences and knowledge of what the Detroit section has to offer for someone looking to obtain their CWI, plus those of other members of the welding community that have attended our meetings.

“It might surprise folks that the AWS-Detroit section has as much experience as it does with the CWI program. While we are a town that does have a much larger concentration of the solid-state welding processes than the rest of the country, we still have a fair amount of industry here that requires the support of the CWI program.

The section supports these industry needs in several ways. We provide hosting and staffing for the AWS-National CWI Preparatory seminars and examination. The seminars are 40 hours long and are conducted the week before the examination dates. These are typically run in May and October. But, I would consult the AWS-National Certification home page for the most current information regarding the exact testing and seminar dates and locations or call 800-443-9353, x273 for Certification; or x455 for Seminars. We also maintain a section library so that prospective candidates have a resource for needed reference materials.

One final aspect of how the section can help a prospective CWI is through mentoring. When you attend a section meeting and interact with other industry professionals, including CWIs, you can’t help but come away from the encounter a bit wiser.

As an example, consider the following bit of advice as it relates to the actual CWI exam that may not come out during the preparatory seminar: The three parts of the CWI exam are run back-to-back-to-back, with just a few minutes for a break between each part of the test. The best advice I received – bring something to eat for between the testing sessions as there is not enough time to leave the area and get something. The taking of the CWI exams can be stressful and mind-numbing but taking a minute to eat a bit and drink some water can go a long ways towards helping your success.”

If you have more questions about this topic, Don can be reached at:
RoMan 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; dmaatz@reautomated.com

Q:
A:

Author note: Don would like to acknowledge the help of fellow AWS-Detroit board member, and current Section CWI-Certification Test Supervisor, Glen Knight. Glen retired from Chrysler Corporation after 32 years of service where he held the position of Weld Training Supervisor.

References:
1) AWS QC1.2007 Standard for AWS Certification of Welding Inspectors
ALMMII Will Cut Ribbon to Open Detroit Innovation Acceleration Center Jan. 15

Mr. John Bohr, GM Manufacturing Engineering, submitted the following article as follow up to the Keynote address from last year’s Sheet Metal Welding Conference.

Center will speed development of new lightweight metal manufacturing processes from laboratories to factories.

DETROIT, Jan. 9, 2015 /PRNewswire/ – ALMMII, the American Lightweight Materials Manufacturing Innovation Institute will cut the ribbon to officially open its new innovation acceleration center in Detroit, Michigan on January 15, 2015. The 100,000 square-foot facility is part of a national network of research institutions and industrial companies geared toward advancing America’s leadership in manufacturing technology. The center’s focus is to accelerate the transfer of new manufacturing technology from the research lab to the production floor for products using lightweight metals – including aluminum, magnesium, titanium, and advanced high-strength steel alloys. An equally important mission of the center is to facilitate the training of the workers who will be using these new processes in factories and maintenance facilities around the country.

ALMMII is funded by the U.S. Naval Research Laboratory, with strong support from industry partners and academic research institutions. It will be led by industry with input from the government. The lead partners in founding ALMMII are the University of Michigan, Ohio State University and EWI, an independent research and development organization based in Columbus, Ohio. ALMMII has established its headquarters in Detroit, Michigan because it is the epicenter of the largest concentration of automotive research and development centers in the world. The location also places the center along I-75, an industrial corridor that connects states in which nearly half of America’s manufacturing workforce is located. ALMMII will directly serve a five-state region, although its work is national in scope.

Reducing the weight of materials used in vehicles is imperative to save energy costs and extend military missions. Research institutions are creating breakthroughs in laboratories that offer great promise. ALMMII is an organization that will connect private companies to those laboratories to do the important work of developing the specific tools and skills to make research breakthroughs practical for production of parts primarily for vehicles, airplanes and other forms of transportation.

The January 15th event will coincide with industry day at the North American International Auto Show in downtown Detroit. It will feature 23 demonstrations and displays from industry and research partners, including a live demo of flash steel-making technology. Partners exhibiting include: American Bureau of Shipping, Alcoa, American Foundry Society, Boeing, Comau, DNV, Eaton, Flash Bainite, GREDE, Johnson Controls, Materion, Metalsa, TARDEC, and Tenneco.

Background: Facts about ALMMII: http://almmii.org/fact-sheet/
ALMMII home page: http://almmii.org/#home
SOURCE American Lightweight Materials Manufacturing Innovation Institute
Happy New Year! Hope you had a wonderful Christmas season and we wish you a prosperous New Year 2015. Every year, I wanted to add something new to my New Year resolutions. I was sitting in a Delta lounge in Atlanta airport, thinking about what I should add to my New Year resolutions, I just could not believe what I saw on the front page of January 8, 2015 Wall Street Journal. It said, “The $140,000-a-year Welder.” Good news to all who work in the welding industry. The story inspired me to write to you that the welding industry is very exciting and you can make big bucks!

High school graduates today face a big challenge. Should they go for a 4 year degree and rack up hefty student loans or go to a technical college that gives them the ability to learn a skill and make money immediately? The Wall Street Journal story was about a person who faced this dilemma when he finished high school. The welding class he took in high school sparked an interest in welding. He chose to pursue the welding career and went to a local college for an associate degree in welding. After finishing his associate degree, he was immediately hired by an Oil and Gas company in Texas with a starting salary of $22.00/Hr. While many students with a four year degree is without a job and hefty loans; many working at jobs that don’t require a degree, making minimum wage, he made the right choice. He now makes about $140,000.00 including overtime.

Like Justin, if you have sparked an interest in welding and you are interested in working with steel, aluminum, stainless steel or other exotic materials, the welding field is right for you. Welding is used in automobile, aerospace, process plants, oil and gas, manufacturing, construction, utilities and many other industries. The opportunities and possibilities are endless. AWS Detroit section has many scholarships available for qualified students pursuing a welding career.

For many years, AWS Detroit Section has been committed to supporting education, fulfilling our mission statement. Our mission is only possible when volunteers, industries, educational organizations and students work together to contribute and build a better welding industry.

The Detroit Section awarded 37 welding scholarships totaling $37,500 to area students for the 2014/2015 school year. If you are enrolled to take welding classes or in a welding program for 2015-2016 academic school year, you may be eligible for a variety of scholarships including AWS Detroit section scholarships, AWS Detroit section named scholarships, District Scholarships or National Scholarships. You can find more information about the scholarship application and eligibility at our website, www.awsdetroit.org. Application deadline is April 1, 2015. I encourage you to stay committed and stay focused on finishing your education quickly. The possibilities are brighter, just like what happened to Justin Friend. Students have started sending their applications already. So don’t delay in sending your application.

You can find more details about different scholarships by visiting the following website.

National and District Scholarships: www.aws.org/w/a/foundation/index.html
Detroit Section Scholarships: www.awsdetroit.org

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Free Educational Seminar on Robotic Aluminum Welding in April

Come learn about Robotic Aluminum Welding with AWS Detroit Welding Educational Series. Nachi Robotic Systems is teaming up with AWS-Detroit to offer a short course on aluminum welding. We will touch on resistance spot welding, standards, and more. Mark your calendars for April 16 and plan to visit Nachi Robotic Systems at 4277 W. 9 Mile Rd; Novi, Michigan. As with other Welding Educational Series events, this is a no-cost event to serve our members, students and educators. Stay tuned to the AWS-Detroit Website for further details.