This year’s AWS Sheet Metal Weld Conference (October 16-18, 2018) is shaping up to be a very enlightening conference and is a “must attend” event for engineers, sales, suppliers, and others dealing with sheet metal welding. The conference this year will again be held at Laurel Manor in Livonia, MI. This premier technical conference is dedicated to bringing experts together to discuss the state of the art of both welding and joining technologies in the automotive, transportation, and light manufacturing industries.

The two-day conference is preceded by a one-day tutorial on October 16th, held at Comau Automation Company and explores the challenges of lightweight materials and non-traditional welding processes. Registration for both the conference and the tutorial can be accessed through the AWS-Detroit website under “SMWC” (www.awsdetroit.org). In addition, the conference events also include a table top vendor display on Wednesday October 17 4:00-7:00 PM at Laurel Manor. This is a free event with food and refreshments, so come and network with others in the sheet metal welding and related industries.

The conference committee is composed of volunteers from the welding industry from Detroit and around the country and intend on making this event informative and well organized. We invite you to register for both the technical conference and tutorial and to advertise this conference to others within your organizations. This event is a great networking opportunity.

If you have any questions, please contact a member of the conference committee, or, call Warren Peterson, Conference Committee Chairman, directly at 248-234-1060.

Thanks, and see you there!
On September 13, AWS members witnessed the awarding of $60,000 to 30 deserving students at the Auburn Hills campus of Oakland Community College. Another 12 students who competed in the AWS-Detroit Section High School Welding Competition in April were recognized for scholarships totaling $5,000. Finally, Raymond Papierniak and Kyle Cejmer were recognized for their achievement in the National SkillsUSA Welding Competitions in the last two years. Papierniak and Cejmer took 1st place in 2018 and 8th place in 2017, respectively. Both students study under Glenn Kay and Alex Pazkowski (former Skills USA National Welding Champions) at Washtenaw Community College. Papierniak and Cejmer will go on to represent the United States in Skills World Competition in Kazan, Russia in 2019.

I would like to extend my gratitude to everyone who helped make the 2018 Scholarship Night a success. Don Maatz and Rod Bereznicki scrutinized dozens of applications to determine these deserving students. Glenn Kay and his High School Welding Competition committee have organized and judged several dozen students from regional schools to give recognition to the Detroit area’s future welding talent. Ever since 1974, AWS-Detroit has lead the nation with its welding scholarships.

After dinner, students and members were counseled by the AWS-District 11 Director, Phillip Temple, on the importance of AWS in their future careers. He also gave great career advice on using our character, interpersonal contacts, and technical skill to be successful in their welding career. Mr. Temple challenged the students, “I and my colleagues won’t be around to lead the AWS forever. Who among you is willing to lead the AWS when we are gone?”

Next month the AWS-Detroit Section will host the Sheet Metal Welding Conference XVIII. The Sheet Metal Welding Conference is the premiere international conference on this subject. This biennial conference will take place on October 17 and 18 at the Laurel Manor in Livonia, Michigan. Please visit www.awsdetriot.org/smwc.html for more details and to register.

If you wish to be personally involved with the AWS-Detroit Section, please don’t hesitate to contact me at (810) 602-9735 or mark.gugel@gm.com.
SHEET METAL WELDING CONFERENCE XVIII
Welding Solutions for Lightweight Vehicle Production
October 17th & 18th, 2018 | Laurel Manor, Livonia, Michigan

The American Welding Society Detroit Section proudly presents the 2018 Sheet Metal Welding Conference, a 3-day event including a welding and joining workshop with demos, a 2 day technical conference and vendor display evening. This event is intended to bring industry experts around the world to interact, present and discuss joining and welding as it pertains to Automotive, Transportation and Light Manufacturing. Please come join us October 16th, 17th, and 18th for this premier event.

Welding and Joining Workshop
October 16th, 2018 | 8AM-5PM
COMAU Innovation Campus
21175 Telegraph Rd., Southfield, MI 48033, USA

A day filled with presentations and demonstrations from the following Companies on the following topics:
- Morning Session Topics: Resistance Welding of Gen3 Steels and Automotive Aluminum
- Afternoon Session Topics: New Joining Process for Automotive Lightweight Materials
- GM, FCA, Comau, AK Steel, ARCONIC, WTC, R&E, ARNOLD, Bollhoff, and ProGenero

*Limited Participation-Please Register Online HERE.

AWS-Detroit Vendor Display Night
October 17th, 2018 | 4PM-7PM  FREE ADMISSION
Laurel Manor
39000 Schoolcraft Rd, Livonia MI, 48150 USA

The AWS Detroit Vendor Display Night is an evening to view and interact with companies from across the manufacturing industry. Approximately 40 exhibits will be on display with industry experts available to answer questions and discuss application specifics.

Sheet Metal Welding Conference
October 17th & 18th, 2018
Laurel Manor
39000 Schoolcraft Rd, Livonia MI, 48150 USA

The Sheet Metal Welding Conference (SMWC) is the premier technical conference dedicated to bringing experts together from around the world to present and discuss the art of welding and joining for the automotive, transportation, and light manufacturing industries.

Please Register HERE.

For questions please contact:
Donnie Crist, AWS Detroit SMWC 2018 - Publicity
RoMan Manufacturing
dcrist@romanmfg.com

In Partnership With:
EWI
Jaakko Heikonen, Chief Executive Officer, Pemamek Ltd., or Wiebe Wiersma, Global Sales Manager, HGG Profiling Equipment BV, both, Pemamek and HGG, will continue to operate as independent entities, with service to Wiersma, Global Sales Manager, HGG Profiling Equipment BV.

strengthening our combined market presence and client network,” describes technology and market leader in welding automation. HGG is a global leader in 3D profiling solutions. The synergy between our technologies is clear. The integration of HGG and PEMA solutions is seamless, both mechanically and through both of our software. With this partnership, both companies are now able to deliver more customer value, while strengthening our combined market presence and client network,” describes Wiebe Wiersma, Global Sales Manager, HGG Profiling Equipment BV.

The HGG and Pemamek shipyard partnership has already delivered customer benefits. A recent customer solution from Pemamek included technologically advanced PEMA-HGG cutting and welding integration, which resulted in the most advanced production automation lines available for MV WERFTEN’s Rostock and Wismar shipyards. “Pemamek is the global technology and market leader in welding automation. HGG is a global leader in 3D profiling equipment solutions. The synergy between our technologies is clear. The integration of HGG and PEMA solutions is seamless, both mechanically and through both of our software. With this partnership, both companies are now able to deliver more customer value, while strengthening our combined market presence and client network,” describes Wiebe Wiersma, Global Sales Manager, HGG Profiling Equipment BV.

Both, Pemamek and HGG, will continue to operate as independent entities, with service to their existing customers and industries remaining unchanged. For more information, contact Jaakko Heikonen, Chief Executive Officer, Pemamek Ltd., jaakko.heikonen@pemamek.com or Wiebe Wiersma, Global Sales Manager, HGG Profiling Equipment BV, ww@hgg.nl

Certifications: Attention Resistance Welding Companies and Experts

The AWS and RWMA are in the final stages of launching the new CRWT (Certified Resistance Welding Technician) certification. They are in need of more people to take the beta test to help them sort out questions and make sure all is good to launch the official certification process by end of 2018. Below is a link to help anyone willing to take the test sign up. This CRWT certification on resistance welding is well overdue for our industry and it will help educate and also allow people working in the resistance welding field add a world recognized credential to their resume showing their ability to operate in the resistance welding field with the highest level of competency. It will also allow companies seeking individuals with RW experience to hire someone with the CRWTCRWT credential knowing they have passed an excellent technically based RW exam and achieved CRWT status.

PLEASE SIGN UP AND TAKE THE BETA TEST. There is no charge for this, the test will be given locally and you will receive free resistance welding publications for volunteering your time. www.aws.org/library/doclib/BETA-CRW/T-20180710-2.pdf Please contact Don DeCorte or Donnie Crist at Roman Mfg. if you have any questions or issues signing up. 1-616-530-8641

New Products: Dengensha Introduces New Compact Feeder

BEDFORD, OH… Dengensha America recently introduced its new Compact Feeder, a magnet type rotary nut feeder. With low noise (16db less when compared with other vibrator style feeders), a small footprint (smaller than an A3 size of paper, 11 by 17 inch), and because it is both lightweight and compact (about 50% lighter than comparable feeders and about 50% smaller than vibrator styles), the Compact Feeder offers manufacturers a significant option in resistance welding setup. For more information about the Compact Feeder, contact Steve Andrassy at Dengensha America Corp/ 7647 First Place Drive, Bedford, Ohio 44146/ Phone: 1-440-439-8081/ Fax: 1-440-439-8217/ Email: sandrassy@dengensha.com / Visit us: www.dengensha.com

New Markets: Pemamek & HGG Partnership Extended to Shipyard Solutions

Pemamek Ltd., a global welding and production automation provider, and HGG Profiling Equipment BV, a market leader in developing and supplying 3D pipe and profile-cutting machines, have made a joint announcement to extend their strategic partnership to shipyard solutions. With the partnership extension, both companies are now able to supply integrated cutting and welding technology, including profile-processing lines, pipe-cutting lines and T-beam manufacturing lines for ship part fabrication. The strategic partnership between HGG and Pemamek to better support both sets of customers was first announced in April of this year. “HGG has unique expertise in developing automated profile cutting solutions, and through our collaboration Pemamek’s shipbuilding customers will be able to benefit from it. Moving forward, we now have even better capability to provide extensive profile shop solutions to increase our shipyard customers’ production,” summarizes Jaakko Heikonen, CEO, Pemamek Ltd.

With advanced integration between HGG’s profile cutting expertise and PEMA welding automation, shipyard customers will be able to increase productivity, while adding more competitiveness and value to ship part production. Integrated easy-to-use software will bring additional advantages to customers as well. Customers will benefit from full control over cutting and welding processes, as well as be able to make the best use out of collected production data.

The HGG and Pemamek shipyard partnership has already delivered customer benefits. A recent customer solution from Pemamek included technologically advanced PEMA-HGG cutting and welding integration, which resulted in the most advanced production automation lines available for MV WERFTEN’s Rostock and Wismar shipyards. “Pemamek is the global technology and market leader in welding automation. HGG is a global leader in 3D profiling equipment solutions. The synergy between our technologies is clear. The integration of HGG and PEMA solutions is seamless, both mechanically and through both of our software. With this partnership, both companies are now able to deliver more customer value, while strengthening our combined market presence and client network,” describes Wiebe Wiersma, Global Sales Manager, HGG Profiling Equipment BV.

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Conferences, Shows, Events:

The Road Show Training Seminars
Note: Classes must be pre-arranged with the Baker’s Gas/Miller event marketing team prior to the event date.

Jackson, MI • Oct. 3rd • 8am - 5pm
Monroe, MI • Oct. 5th & 6th • 8am - 5pm

GMAW – This course is designed for people looking for an understanding of the GMAW processes and necessary equipment. The focus of the program will develop a thorough understanding of variables, including voltage and wire feed speed settings. Hands on welding will be available.

GTAW - This course is designed for people looking for an understanding of the GTAW processes and necessary equipment. The focus of the program will develop a thorough understanding of variables, including amperage and consumables. Hands on welding will be available.

SMAW – This course is designed for people looking for an understanding of the SMAW processes and necessary equipment. The focus of the program will develop a thorough understanding of variables, including amperage and consumables. Hands on welding will be available.

MODERN WELDING TECHNOLOGY GMAW-P
This course is designed for people looking for an understanding of the use of pulsing in the GMAW process. The focus of the program will develop a thorough understanding of variables, when to use pulsing, and how to set up a machine for pulsing. Students will also explore Pro-PulseTM, Accu-Pulse®, Accu-CurveTM, Profile PulseTM and RMDTM. Hands on welding will be available.

MODERN WELDING TECHNOLOGY GTAW-P
This course is designed for people looking for an understanding of the use of pulsing in the GTAW process. The focus of the program will develop a thorough understanding of variables, when to use pulsing, and how to set up a machine for pulsing. Students will also explore Pro-PulseTM, Accu-Pulse®, Accu-CurveTM, Profile PulseTM and RMDTM. Hands on welding will be available.
Coming Events Calendar

Sept 30 – Oct 5, 2018
CWI Seminar
Sponsored by AWS Detroit
Location:  Washtenaw Community College

October 1, 2018
AWS Workforce Grant Application Due Date
Sponsored by AWS National Headquarters
www.AWS.org

October 6, 2018
AWS CWI Exam
Sponsored by AWS Detroit
Location:  Washtenaw Community College

October 8 - 9, 2018
ITU/SAE Workshop: How Communications Will Change Vehicles and Transport
Sponsored by: ITU/SAE International
Location: Detroit, MI

October 9 – 11, 2018
From ADAS to Automated Driving Symposium
Sponsored by SAE International
Location: Detroit, MI

October 18-19, 2018
SMWC XVIII – Sheet Metal Welding Conference
Sponsored by AWS Detroit
Location: Laurel Manor Banquet and Conference Room

October 29, 2018
North American International Cyber Summit
Sponsored by ESD (Engineering Society of Detroit)

November 6 – 8, 2019
FABTECH
Sponsored by: AWS, FMA, SME, PMA, CCAI
Location: Georgia World Congress Center
For a lot of people in the manufacturing industry, an audit is a regular occurrence. It doesn’t even really matter what role you play in your company. Anyone can be subject to an auditor’s questions and for many people it’s a nerve rocking experience. So, how do you handle an audit? It’s really quite simple. You say what you do, and you do what you say. Easy, right? Well, even though that’s essentially true, there is a little more to it than that. Let’s dig a little deeper into what you should be ready for when an audit does happen and how to prepare.

First you need to recognize what kind of audit you are going to be involved in and how you fit in to this audit. If, for example, the audit is being conducted internally by your company’s quality manager and the subject of the audit is the engineering and design department and their document control policy, then unless you’re an engineer or designer, you’re probably off the hook. So, recognizing the source and subject of the audit is important. But how do you know when you are going to be involved and who’s conducting the audit? Generally, your quality manager will know ahead of time that an audit has been scheduled, what type of audit it’s going to be, and which departments will be affected by the audit. Knowing this information will allow you to be well prepared.

Let’s assume that the audit you’ll be involved in is through a domestic government agency. The reason for the audit is that your company is potentially being selected to manufacture a large weldment for this domestic government agency. The weldment will be manufactured to drawings provided by the source and “all welding and workmanship shall be in accordance with the current edition of AWS D1.1.” They are going to want to know if your company has the resources to manage and manufacture their project efficiently, cost effectively, accurately and within the allotted time frame. If you’re a CWI for your company, it’s time to start figuring things out because you will, without a doubt, be the subject of this audit. This is where your training will become extremely important. You are going to need to make sure that you are thorough in maintaining your records, both written and electronic, for everything that you do. If you assist with drawing creation or revision, then you need to understand and be able to demonstrate how those drawing revisions are controlled. The same holds true for personnel and procedure qualification, WPQ’s and PQR/WPS’s. Are you recording and keeping track of your base metal certs (MTR’s) for the test material you use for qualification? If you don’t, why not? Are you sending test coupons out for radiography? Who is your source for radiography and what makes them qualified? Are you performing mechanical testing in-house? What about NDT/NDE, is that performed in-house? What makes you qualified? Is your equipment calibrated? What is the frequency of calibration and how did you determine frequency? Who performs the calibration and what makes them qualified? Are your calibration records NIST traceable? Who makes the final decision and acceptance for performance and procedure qualification? What makes that person qualified to make those decisions? How is acceptance determined?

Too many questions, right? Sounds ridiculous, nobody is going to ask that many questions. You might not even know what some of those acronyms stand for. If that’s what you’re thinking, then you may be in for a huge, not so happy, surprise. You’re probably not ready for the audit, because most of those questions were just scraping the surface for what’s required for PQR/WPS/WPQ’s. You should be prepared to answer and demonstrate your process as needed for any one of those questions without thinking about it. These things need to become part of what you do daily. And again, I just talked about qualification. I assume that as a CWI you also are involved in inspection and reporting. There will likely be a lot of questions regarding that as well. What tools do you use for inspection, how is the accuracy of those tools verified, how are rejections recorded and processed, how are final accepted weldments reported, how long have you been a CWI, what endorsements do you have, how is your certification maintained, etc. You should see by now, questions for any subject can go on for as long as an auditor wants to keep asking questions. How you handle them can literally be the determining factor as to whether you are awarded the work or not. But here’s where what I said in the very beginning is so important. Say what you do and do what you say. If you are thorough in your work every day, it will show during the audit. Remember to just answer the question. There’s no need to go into lengthy detail when answering questions. Auditors love to hear you ramble on about things they didn’t even ask about, because you’re feeding them more subject matter. Pay attention to open ended questions like, “Tell me about your testing procedure for your welders (people).” That is not a question and could lead you down a story telling path. Instead you may want to respond with, “What in particular about testing would you like to know?” Now the auditor will need to ask something like, “Do you personally witness the testing?” and you could simply answer, “Yes.” That will put the burden of the audit where it belongs, on the auditor. It is not...
An Audit? What do I tell them? continued from page 6

your responsibility to help the auditor formulate his questions, it’s your responsibility to provide answers and demonstrate capability in your quality process.

These principles will hold true regardless of the type of audit you’re facing. You should know and understand your corporate quality policy and how it interfaces with your requirements as a CWI and you should be able to articulate that to an auditor when asked. Don’t be afraid to tell the auditor that you don’t know something. Rather than make up an answer or tell them something you think they want to hear, simply tell them that you don’t know but you would defer to your supervisor if a question was to arise. Communicate with your quality manager regularly and address any items within your company policy you don’t understand or that may conflict with your duties as a CWI. Above all else, relax and answer questions briefly and to the point. If you remember these things and your process is robust, you shouldn’t have any major issues.

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 the last AWS CWI Seminar/Exam for this year. The seminar/exam date and location are as follows:

**CWI Seminar**

*September 30 - October 5, 2018*

*Exam October 6, 2018*

Washtenaw Community College

4800 E. Huron River Dr.

Ann Arbor, MI., 48105-4800

Check the AWS-Detroit e-Bulletin often for other helpful information, at [www.awsdetroit.org](http://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](http://www.aws.org/certification).

October Hotline continued from page 4

understanding of the use of pulsing in the GTAW process. The focus of the program will develop a thorough understanding of variables, when to use pulsing, and how to set up a machine for pulsing. Hands on welding will be available.

**WELDING ALUMINUM** - This course is designed for people looking for an understanding of welding aluminum. The focus of the program will develop a thorough understanding of the variables involved when welding aluminum. The focus of the program will develop a thorough understanding of what it takes to weld aluminum and the solutions offered Miller and Maxal. Hands on welding will be available.

**ENGINE DRIVES** - This course is designed for people looking for an understanding of Miller Engine Driven power sources. The focus of the program will develop a thorough understanding of how engine driven technology produces power, and what is available from Miller. Hands on welding will be available.

**PIPEWORX™ WELDING SYSTEM** - This course is designed for people looking for an understanding of the Miller PipeWorx™ Welding System. The focus of the program will develop a thorough understanding of the features and benefits of the Miller PipeWorx™ Welding System, including RMD® and Pro-Pulse®. Hands on welding will be available.

**TUBULAR FILLER METALS** - This course is designed for people looking for an understanding of tubular filler metals. The focus of the program will develop a thorough understanding of both Flux Cored and Metal Cored welding electrodes. Topics covered will include AWS classifications, as well as, benefits of each filler material.

**Note:**

- Classes are approximately one hour in length.
- Hands on weld time will vary by class being taught and class size.
- One hour weld time is recommended.
- Snacks/Beverages will be provided by Baker’s Gas
- T-shirts will be given to participants for booked Seminars

For more information, check out their website! [www.facebook.com/events/235575733827715/](http://www.facebook.com/events/235575733827715/)

Editor’s Notes

**Wow! The Detroit Section started out the season in high gear.** Our first event was the Scholarship night in September followed by the 18th Biennial Sheet Metal Welding Conference this month, and FABtech in Atlanta, GA next month.

Hopefully, you get a chance to come out and visit the AWS Detroit Section at one of these events. If not, we have many more opportunities for you to join us at an educational night, a technical night or at any of the fundraiser and volunteer opportunities that provide our welding scholarships for our future welders.

Check out the coming events calendar or our website and/or Facebook page to find out how you can get involved or just come out and network with others in our industry.

I’d like to offer our students a chance to get into our monthly e-bulletin. If you are a student or a welding instructor at one of the local colleges, and/or high schools, please contact me if you are interested in occasionally sending in pictures and an article for our column so we can feature the future of welding.

Until next month, have a great October and Keep on Welding!

Robin
e-bulletin editor
AWS Detroit Section – Scholarship Night Recap

The Detroit Section continued its Welding Scholarship Program by hosting the annual event Scholarship Night on September 13, 2018 at the Oakland Community College in Auburn Hills, Michigan. The new AWS Detroit Section Chairman, Dr. Gugel hosted the event. In the event, the Section Scholarship Chairman, Mr. Maatz, recapped the 2018-2019 scholarship awarding details. This year the AWS Detroit Section has awarded 32 welding scholarships totaling $60,000. The scholarship recipients will be attending colleges and universities in the state of Michigan and some other neighbor states. The AWS Detroit Director, Mr. Temple, recognized all the scholarship receipts. The Scholarship Night was attended by over 30 attendees, and lasted about 2.5 hours.
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2019-2020 Patron’s Fund Donations

Our goal at the AWS Detroit Section is “to advance the science, technology and application of welding.” We accomplish this by promoting education and Section participation.

It is time again this year to ask you for your generosity in contributing to the Patron’s Fund. We will, as always, contribute 100% of these funds directly towards scholarships for students who are pursuing careers in Welding Engineering and Welding Technology. Each year the American Welding Society Detroit Section sponsors many students with these funds, and because this is such an important part of giving back to the industry that supports us, we hope you can help us by being a proud supporter in this effort. I have included the announcement letter which shows the many 2018-19 scholarship recipients that were helped in part by contributions from our Patrons in past years.

To be a Patron, simply send a check made out to the American Welding Society Detroit Section for a minimum of $100 or visit our website at www.awsdetroit.org/scholarships.html, at the bottom of the scholarship page there is a “Pay Now” button. I encourage you to please consider a contribution of more than the $100.00 minimum, and here’s why.

This year my plea for your support is with more intensity than ever before. The last four years were remarkable years for Patron contributions. Through you, our Patrons, we were able to raise $9000 last year. Over the last four years the Patrons have helped us raise nearly $40,000. This year again my goal is $15,000. That may sound ambitious, but I’m sure that many, if not all of you, have had an opportunity to interview applicants for welding related positions within your company. If so, you’ve probably noticed that although the ambition may be there with these potential new hires, the skill sets may not. That’s where the funding comes in. The cost of education is high, and with your help we can provide students that are seeking careers in welding related positions with financial assistance to improve those skills. This creates a stronger, better educated, workforce and a more efficient and profitable company for you. Additionally, you’ll be recognized in the industry for your contributions. Patrons are made known to the membership in the monthly technical bulletin, to the industry on the AWS website, and are further acknowledged with a listing in the annual Ladies Night Program.

If you are a Patron, we thank you for your support, and ask you to please consider increasing your contribution. Whether a longtime Patron or a first-time Patron, your help will assist us to bring about an educated future workforce.

I thank you in advance for your contribution, and await your rapid response for the 2019/2020 season.

Please make contributions payable to: AMERICAN WELDING SOCIETY DETROIT SECTION

Mail to: Steve Gucciardo
FCA US LLC
CIM$ 481-00-35
800 Chrysler Dr.
Auburn Hills, MI 48326

Warmest regards,
Steve Gucciardo
AWS Detroit Section-Patron’s Committee, Chair
810-623-6508
steve.gucciardo@fcagroup.com

2018/19 Patrons

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Centerline Windsor
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Obara
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