



American Welding Society®  
DETROIT SECTION



## DECEMBER 2023

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

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



### Chairman's Message *John Pippin*

*While we are nearing the end of 2023 it's time to start looking at what 2024 has instore for us...*

One of the larger items for the AWS Detroit Section is the Sheet Metal Welding Conference XX. (SMWC XX)

This is going to be held on October 22-24, 2024. For more information and planning please [Click Here](#). This year's focus is "Expanding beyond the Body Shop to cover the Electric Revolution." You are invited to submit an abstract to participate as a presenter at the SMWC XX.

The AWS Detroit Executive Committee has begun its search for volunteers to serve on the Committee. If you are an AWS member and want to help in the advancement of welding, we could use dedicated individuals. This could be your chance to increase your networking, acquire valuable contacts, and spice up your resume. You might be surprised how welding interacts with most manufacturing companies. If you are interested, please contact [me](#) or [Wesley Doneth](#) to learn more about what is entailed with becoming a committee member. You will enjoy your time with this group of professionals.

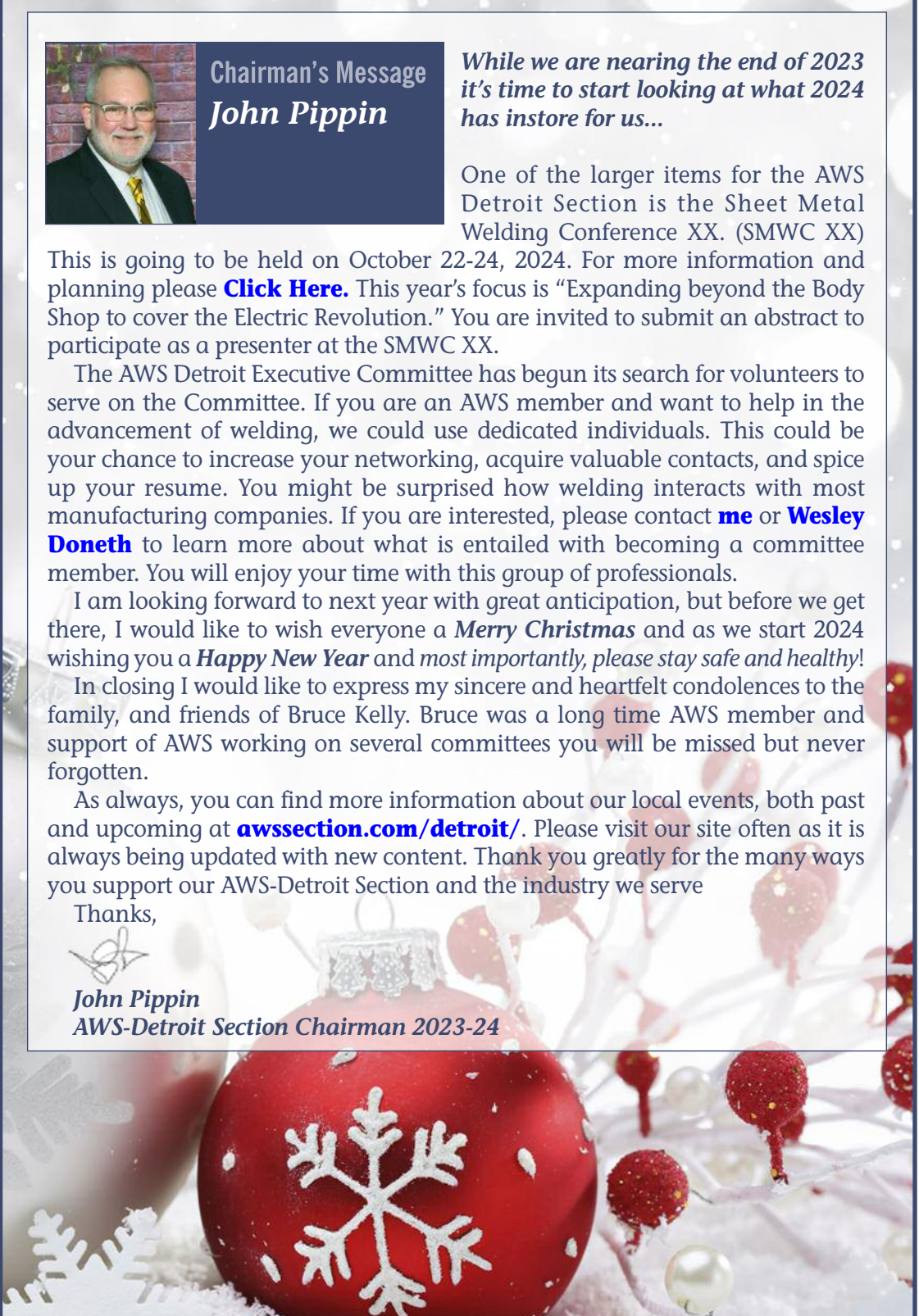
I am looking forward to next year with great anticipation, but before we get there, I would like to wish everyone a *Merry Christmas* and as we start 2024 wishing you a *Happy New Year* and *most importantly, please stay safe and healthy!*

In closing I would like to express my sincere and heartfelt condolences to the family, and friends of Bruce Kelly. Bruce was a long time AWS member and support of AWS working on several committees you will be missed but never forgotten.

As always, you can find more information about our local events, both past and upcoming at [awssection.com/detroit/](http://awssection.com/detroit/). Please visit our site often as it is always being updated with new content. Thank you greatly for the many ways you support our AWS-Detroit Section and the industry we serve

Thanks,

*John Pippin*  
AWS-Detroit Section Chairman 2023-24



## Patron's Fund Donations

Thank you for your support! ONE HUNDRED PERCENT of the Patron's Fund Donations are directed to scholarships for students who are pursuing careers in Welding Engineering and Welding Technology. To become a Patron, contact Steve Gucciardo, AWS Detroit Section-Patron's Committee Chair, 810-623-6508 or email [gucciardos@shapecorp.com](mailto:gucciardos@shapecorp.com)

## Patrons 2023-24

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Stephen Gucciardo  
The Ohio State University Welding Engineering Alumni  
United Technical Inc.  
United Technical Solutions  
Vector NDT  
Welform Electrodes, Inc.  
WSI, Weld Systems Integrators, Inc.

## Coming Events

**Holiday Party**  
Saturday, December 2, 2023  
1 to 4 pm  
Legendary Axe  
37550 Cherry Hill Rd., Westland, MI

**January Technical Meeting**  
TBD

**February Technical Meeting**  
Gestamp

**March Technical Meeting**  
Ram Solutions

**2024 Ladies' Night**  
April 13, 2024

**May Technical Meeting**  
TBD

**CWI Seminar: May 5 - 10, 2024**  
**Exam: May 11, 2024**  
Detroit Metro Airport Marriott



For more information, contact [awsdetroitregistration@awsdetroit.org](mailto:awsdetroitregistration@awsdetroit.org)

Cocktails	6:00 pm - 7:00 pm
Dinner and Program	7:00 pm - 9:30 pm
Afterglow Dancing	9:30 pm - 12:00 am

For overnight reservations call (313) 962-2323  
Or online: [www.atheneumsuites.com/](http://www.atheneumsuites.com/)

# 2024 Ladies Night Scholarship Gala Detroit Section

WHERE: The Antheneum *\*NEW VENUE\**

WHEN: Saturday, April 13th, 2024 *\*SAVE THE DATE\**



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

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

By Donald F. Maatz, Jr.

**Q:** *“Do you know of a strategy one can use in an attempt to reduce resistance spot welding expulsion? We have been fighting this issue for a while, with varying degrees of success, and are looking for some fresh ideas. Our shop utilizes predominantly robot mounted welding guns, but have some fixture tools as well.”*

**A:** “While I do not know this for a fact, it would not surprise me at all if expulsion (also called flash, splash or over-welding, depending on where you hail from) first occurred on the same day Elihu Thomson invented the resistance welding process back in 1877 (Ref. 1). And folks have been looking for ways to reduce or eliminate it ever since.

But with regard to your question, I think a good place to begin a conversation about expulsion is to attempt to define it. From two very good sources we have the following:

Jefferson’s Welding Encyclopedia (Ref. 1) definition of expulsion reads as follows: The forceful ejection of molten metal from a resistance spot, seam, or projection weld usually at a faying surface.

AWS A3.0:2020 (Ref. 2) states the following: The ejection of molten metal during welding, either at the faying surface or the contact point(s) of the electrode face.

Finally, for just a bit more thorough explanation of what is occurring with expulsion, please take a look at Resistance Welding, Fundamentals and Applications (Ref. 3). This excellent book by Hongyan Zhang and Jacek Senkara goes into great detail with regard to what is happening.

The aforementioned definitions are most likely sufficient for our needs; particularly the mental imagery conjured up from the phrase forceful ejection of molten metal. I say this as most of us have been associated with a process that was more than capable of launching red glowing metal up to the ceiling and back to floor. Not good welding practice to be sure. But you could not help but be in awe of the raw power behind what had just occurred. That being said, the feeling of awe can quickly change should you find yourself directly in the path of said raw power – Ouch! But I digress...

Now, despite having a slightly better feel for what expulsion is, none of this really has us any closer to an answer on how to reduce expulsion on the shop floor. To get there we are going to need to come to grips with a few ideas, some of which may not be really popular, or even possibly universally agreed upon. These would include, but are not be limited to:

- What circumstances must occur to create expulsion?
- The process of expulsion reduction/elimination is actually an on-going endeavor.
- It must be a team effort.
- One must have a robust evaluation methodology so the degree of expulsion can be measured.
- Folks must be willing to abandon the idea expulsion is actually ok as it means there is a weld occurring.

But before we talk about how to reduce/eliminate expulsion, it might be a good idea to learn a bit more about where it comes from. And that will be the point where we continue this discussion in our next column.”

#### References:

- 1) *Jefferson’s Welding Encyclopedia, 18th edition*
- 2) *AWS A3.0:2020, Standard Welding Terms and Definitions*
- 3) *Resistance Welding, Fundamentals and Applications (2nd edition), Hongyan Zhang and Jacek Senkara, 2012 (ISBN 978-1-4398-5371-9)*

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

R&E Engineering Services  
70701 Powell Road, Bruce Township, MI 48065  
Office: (586) 228-1900; Direct: (734) 793-2304  
[dmaatz@reautomated.com](mailto:dmaatz@reautomated.com)

Donald F. Maatz, Jr. is with R&E Automated Systems and serves in the capacity of Laboratory Manager. He is past-chairman of the AWS-Detroit Section, serves on the D8 and D8.9 Automotive Welding Committees, is chair of the D8D, and an advisor to the C1 Resistance Welding Committee, is an AWS endorsed CWI and an instructor for the RWMA School. He is a graduate of Ohio State with a BS in Welding Engineering.

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MICHAEL KARAGOULIS (AWS DETROIT) - AWS Detroit just lost a true gentleman and a welding legend. I met Bruce Kelly at GM in 1982, when he recruited me (a freshly graduated metallurgist) to assist with troubleshooting some difficult resistance welding problems. I barely knew what a resistance weld was but his electrical and machine knowledge seemed to pair well with my knowledge of metallurgy. Together we tackled a number of challenging welding problems for GM over the next 20 years. Bruce was much more than a fellow engineer to me. Nineteen years my senior, he became my mentor, and was always available to offer keen insight on systemic production/management problems, or on life in general.

It also seemed like Bruce had a plan for my professional life, and I thrived in it. He recruited me to attend the AWS Sheetmetal Weld Conference in 1986. Then he recruited me to join AWS.

And then he recruited me to run for the AWS Detroit Section Executive Committee. Bruce was always willing to help AWS Detroit with any task, great or small. I caught his spirit of volunteerism and also did a lot of AWS service. In his later years, as faltering health prevented him from

attending as many AWS meetings, he remained electronically engaged with AWS Detroit and did a lot of scanning, archiving, and printing projects for us from his home office. He was an awesome example of humble, lifelong service toward a greater cause – the mission of AWS.

I was broken-hearted to hear of his sudden passing; I will especially miss our monthly “Lansing Weld Mafia” breakfast tradition, which continued for years, where we always considered Bruce to be the Godfather.

On behalf of AWS I offer our deepest condolences to Bruce’s wife JoAnn, his children Len and Amy, and to their spouses and children.



## In Memoriam

### Bruce Gordon Kelly

(April 7, 1938 – November 18, 2023)

Here is what several of Bruce’s welding colleagues from around the country had to say about him.

**Mark Rotary** (AWS Director) – Bruce was one of the biggest supporters and he will be sorely missed.

**Don DeCorte** (RWMA & AWS) – Bruce was a big man with an even bigger heart! He always had time and an answer for you. What a true gentleman and scholar! So friendly and always sharing knowledge and wisdom.

**Dave Bacon** (Update Technology) – Bruce was an awesome guy, and we were lucky to have him with us. He always had my highest regard, I will miss him. I presume Heaven will have no welding problems from this point forward. I hope we all learned everything we could from him, I know that will give him a lot of satisfaction.

**Phillip Temple** (AWS Director) - I am saddened to learn of Bruce's death. The few times I worked with him he was the consummate gentleman and would do whatever he could to help others and especially, AWS. He will be missed! This is just another reminder that we need to cherish each day and the wonderful friendships we have as a welding community. My condolences to his family and close friends!

**Kenneth Martz** (Comau) - I am sad to hear that Bruce has passed away. When I first started interacting with the AWS Detroit section circa 2010, I knew Bruce as a friendly and welcoming person who would be in charge of the name cards, little did I know his involvement in the welding community. I got to know Bruce a little more in 2018 when I was an assistant chair for the SMWC tutorial and then in 2022 we worked together to get the AWS section photos on a AWS server that could be accessible to others. My condolences go out to his close friends and family, he will be missed and his contributions in the welding community will be forever cherished.

**Jim Osborne** (Ford) – Since Bruce & I were

employed by cross-town rivals, we worked together on AWS presentations like the resistance welding schools, Sheet Metal Welding Conferences & the Welding Handbook. Additionally, he transcribed records for the R. E. Olds museum in Lansing. So sad to lose such a gracious talent.

**Jennifer Padron** (AWS Miami – Standards) - It is with a heavy heart that I share the news of the passing of our esteemed committee member, Bruce Kelly. Throughout his impressive tenure, Bruce contributed significantly to the work of multiple AWS technical committees and his dedication and expertise were instrumental in the development and publication of numerous American National Standards in the areas of resistance welding and automotive welding. Bruce was a dedicated and valued member of many AWS Committees including the Resistance Welding (C1), Automotive Resistance Spot Welding (D8D), Resistance Welding for Railroad Application (D15D), and Resistance Welding Equipment (J1). Bruce’s impact extended far beyond his technical contributions. With 30 years of service at General Motors, he was not only a clever thinker and innovator but also a mentor to many welders in our resistance welding community. His leadership was particularly evident during his tenure as the Chairman of the AWS C1 Committee on Resistance Welding and J1A Task Group on Specification for Resistance Welding Controls, where his insights and guidance played a crucial role in advancing the field of resistance welding. The American Welding Society is grateful for Bruce Kelly, not just for his technical prowess, but also for the kindness, mentorship, and camaraderie he brought to our resistance welding community. His contributions have left an indelible mark, and he will be dearly missed. We extend our deepest condolences and sympathies to Bruce’s family, friends, and all who knew him. Our thoughts

and prayers are with them during this challenging time.

**Gary Haskell** (GM Lansing) – A great mentor  
**Tom Jones** (GM Tech Center) – Bruce was one of a kind, and very good man. I remember when I first came to GM, he had no hesitations to answer any questions I had... and went into as much detail as needed. He will be sorely missed! My deepest sympathy to the family.

**Scott Britton** (GM Lansing) - Where do any of us start that knew the real Bruce Kelly! Like you, I spent extensive time with Bruce on Seam Welding of fuel tanks, projection welding, and spot welding. My first real time spent with Bruce was in 27B Hood Welder area. There had been a material change on the “A” car platform hoods to aluminum... Back in those days they had the old Robotron weld controllers with ignitron tubes... Working with Bruce on that truly convinced me of Bruce’s talent. We seemed to develop a good respect for one another during that event that lasted for decades to follow. On a side note, Bruce could really eat a large quantity of pizza compared to the rest us.

**Robert Wilcox** (Ford) - Bruce was a good friend and always a good worker supporting AWS; he will be missed

**Forrest Lissner** (AWS Detroit) - Beth and I met Bruce on our wedding night - we were seated next to him and his wife at Ladies Night in 2018. He championed the digital storage of the AWS Detroit memories for all to enjoy for a lifetime.

**Mike Palko** (Ford) - I’ll miss Bruce’s smiling face behind the registration table of the Sheet Metal Welding Conference. Bruce gave his time and energy to making the conferences successful for as long as I can remember.

See Bruce’s Obituary [CLICK HERE](#).

# December Hotline

## Operations Manual Updates

Please send Mark Gugel any suggestions and updates for the Operations Manual – Mark will present these potential updates at the next Executive Committee meeting.

## Ladies Night

Russ Webster announced that everything is on track for the signature black tie gala scheduled for April 13, 2024. (Reservation info on page 3.)

## Sheet Metal Welding Conference XX (SMWC XX)

October 22nd – 24th 2024, Laurel Manor  
Abstracts due March 1, 2024

Bulk advertising has begun! Andrea Orr is asking for help spreading the word, and is also seeking engaging speakers. Companies can participate in the 'public-welcome' Vendor Night and SMWC sponsors (meals, breaks, swag items, etc.). Reach out for more details!

## Scholarship and National Foundation

Look ... Don Maatz is not messing around. Here's the spiel ... We are preparing for 2024 / 2025 scholarship season, this is no joke. Big money going out this year. Forms are being

sent to the Webmaster, there are new scholarships now due to big contributions, informative documents are being created and sent to the eBulletin editor for publication. (Message from editor: It's in here!)

Don wants you to know this ... The national scholarship application process opens December 1st, [Click Here](#) for the information. **YOU HAVE TO MAKE IT HAPPEN!**

## AWS Detroit Awards Committee

Mike Karagoulis was out of town visiting grandchildren but didn't completely abandon his duties. Mike announced a substantial increase in nominees after the October Executive Committee meeting and thanked all who were nominated. Nominations were recorded as:

- Six National nominees (up two from last month)
- Three District nominees (up from one last month)
- Three section nominees (up zero from last month)

Dr. Karagoulis urged people to keep vigilant, saying "a total of 12 awardees is great, but not a record!"

## High School Welding Competition 2024

Watch for Alex Pazkowski to step up to support the next High School Welding Competition May 10th (Friday) at Washtenaw Community College. Mark Rotary mentioned having an

industry professional (CWI, etc.) help judge the event, stating the new system will be more objective and based on creating a standard for the competition. All of which, by the way, is encouraged by Glenn Kay.

## United Technical Wins National AWS 'Excellence in Welding' Award

On September 13, United Technical Inc. accepted the 2023 Excellence in Welding award at the American Welding Society's WEMCO (Welding Equipment Manufacturers Committee) awards luncheon at FABTECH. The award recognizes individuals and organizations that are instrumental in raising the image of welding and strengthening the industry, having shown exemplary dedication to promoting the image of welding in their communities. One nationwide winner per category is chosen and previous award winners include: Ingalls Shipbuilding, Hobart Institute of Welding Technology, Lincoln Electric Co., and 'Dirty Jobs' host Mike Rowe. For more information on the award [Click Here](#).



*Rob Dines, Owner & CEO; Lori Przybylo, President; Rick Slade, VP Operations; and Brad Mack, Welding Services Director accepted the award.*

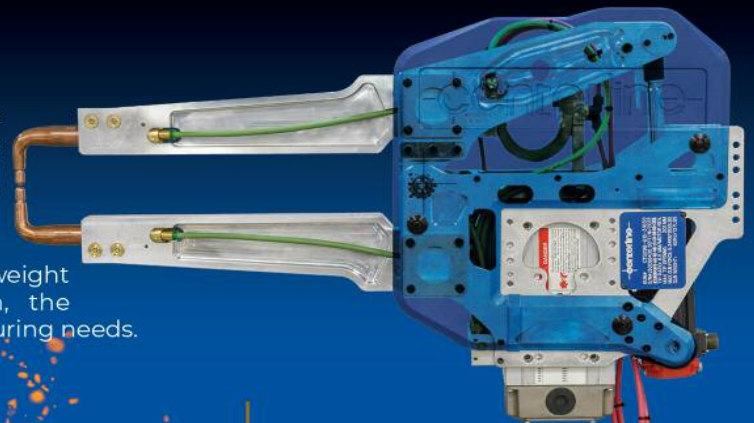
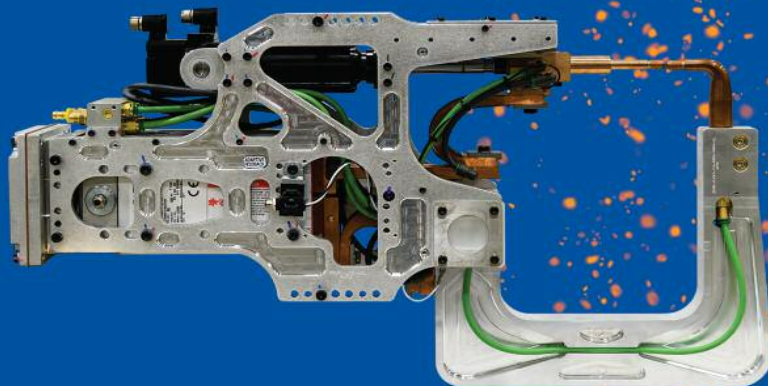
*Rob Dines, Owner & CEO; Lori Przybylo, President; Rick Slade, VP Operations; and Brad Mack, Welding Services Director accepted the award.*

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# SMWC XX

ADVANCES IN AUTOMOTIVE WELDING & JOINING CONFERENCE

October 22-24, 2024 | Detroit, MI

**MORE INFORMATION**

website: [awssection.com/detroit/smw](https://awssection.com/detroit/smw)  
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# Thank You

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## AMERICAN WELDING SOCIETY



**Forrest Hamilton**  
Knoxville, TN  
Ferris State University  
Welding Engineering Technology  
Detroit Section Scholarship  
District 11 - 051-West Michigan

Dear Detroit Section,

The support you have provided me by awarding this scholarship last year as well as this year, my senior year, is greatly appreciated. Over my junior year, I was able to have great success in my schooling at Ferris state due to support from AWS scholarships like this one. This shows that the funds for scholarships are well spent on students. Thank you for working to develop the welding workforce in Detroit and throughout the United States. I hope to attend another section meeting with scholarship recipients this year, as last years was a great time.

Best regards,  
Forrest Hamilton

# Thank You

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## AMERICAN WELDING SOCIETY



**Christian Hutnik**  
Okemos, MI  
Ferris State University  
Welding Engineering Technology  
Detroit Section Scholarship  
District 11 - 101-Central Michigan

Dear Detroit Section Scholarship Comittee,

Thank you for the generous scholarship you have awarded me. This award allows me to devote more of my energy to school while also alleviating the financial burden of student loans afterward. I'd also like to mention that this scholarship serves as a validation of the work I have done in my program and encourages me to continue working hard into my senior year, and for that I am incredibly grateful. Thank you for your generosity.

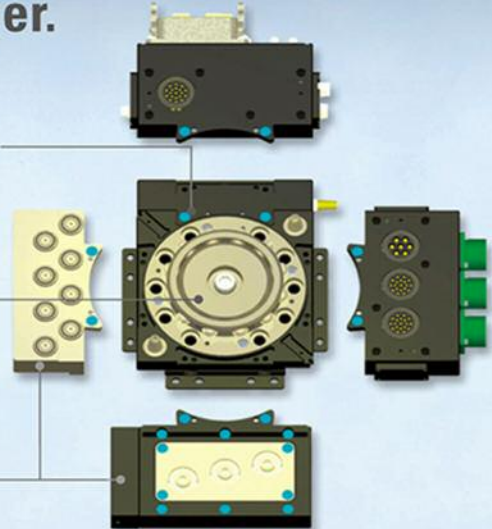
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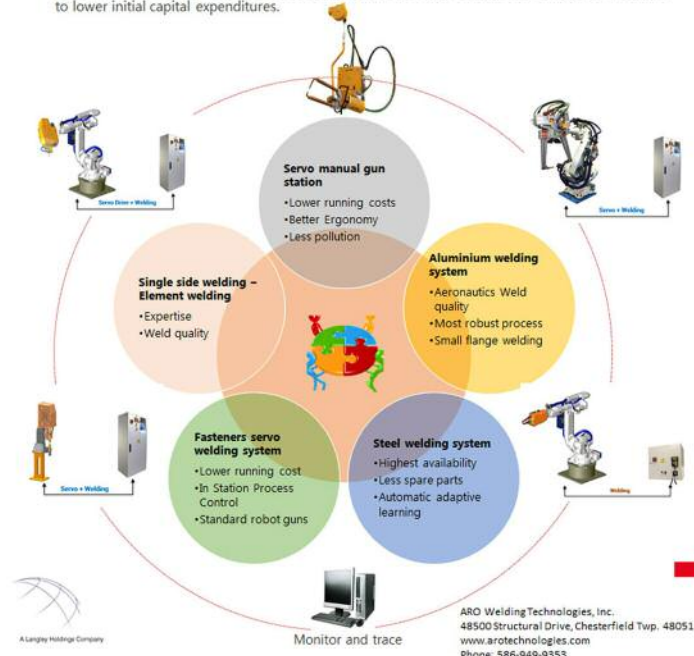


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# Thank You

## AMERICAN WELDING SOCIETY



**Victoria Hall**  
 Millington, MI  
 Ferris State University  
 Welding Engineering Technology  
 Detroit Section Scholarship  
 District 11 - 061-Saginaw Valley

Dear American Welding Society,

Thank you so much for choosing me for the Detroit Section Scholarship. It really means a lot to me that you find me as an adequate recipient. I am enrolled in the Welding Engineering Technology program for the Fall of 2023 at Ferris State University. I am currently the Vice President in the AWS Student Chapter and help out at various community service events. I received my Associate's degree as an honors student, and I continue to remain top-of-my-class. In the future, I'm interested in trying to start up a Jeep Trail Riding Club where all off-road vehicles are welcome. Personally welded and custom built rigs are encouraged! I just think that would be a great way to have students meet others with the same interests. This scholarship means a great deal to me and my family. For me, it gives me a sense of pride in the fact that others are recognizing the hard work I have put into my school work. It also gives me pride to not have to fully depend on my parents to pay for my education. I am able to receive financial help that I need by continuing to do my best and put forth the effort in school. It also means a lot to my parents because they don't have to worry about trying to pay for my education. They are able to put their money towards other pressing needs. So overall, this scholarship creates a healthy financial relationship between my parents and I, as well as gives me a sense of pride in the work that I do.

I am currently interning at John Deere Harvester Works in Illinois. This has been a dream job of mine because I grew up in the country, and I believe that working around tractors is where I feel right at home. Upon completing my Bachelor's degree, I hope to receive a full-time position at John Deere as a Welding Engineer.

Again, thank you for this award. Your generosity is greatly appreciated and will not go unnoticed.

Sincerely,  
 Victoria Hall

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# Reflecting On Days Gone By...

Page 10 ■ troy-somerset GAZETTE ■ May 6, 1996

## Inventor Is Recognized for His Many Years of Service to Welding

### SPOTLIGHT

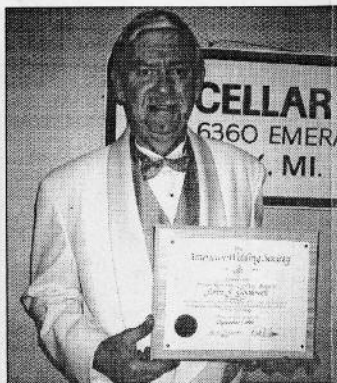
by  
CYNTHIA KMETT

**NAME:** John (Jack) Goodrich.

**OCCUPATION?** I started Cellar Services in 1978, in the basement, as the name implies. I was the first one to go after Merc Cruiser in replacement parts. I understood industrial sales and I developed 20 replacement parts for them. I grew up in the welding industry, spot welding; I've been doing it for 41 years now. The marine products line just seemed a natural extension of what I like to do.

**HOW DO YOU COME UP WITH IDEAS FOR YOUR INVENTIONS?** I'm a pretty good listener. I just ask them, "What's your problem," then I work on it. I started inventing gizmos ages ago, and it took up an increasing amount of time, so I figured I should try making a living at what I like to do. If you solve their problems and save them money, you're a hero - and they call you again. I had worked at Fisher Body for 12 years and Ford for eight years, so I knew a bit about building things.

**WHAT'S THE SECRET OF YOUR SUCCESS?** It's creative thinking applied to low technology products. Other companies pass on them



WHEN IT COMES TO CLEVER INVENTIONS, no one in Troy is more adept at creating new things that Jack Goodrich. For his work over the years, the American Welding Society recently bestowed its annual Meritorious Award of Achievement on Goodrich.

because they're not high tech, but you don't need computers to make them right. In the robotics field we make items we call 'dress out.' There are hoses, for example, running down the arm of that robot; you move it 5,000 or 10,000 times, they fray and wear out. If we can help them eliminate down time with our products, we're heroes.

**YOU WERE JUST GIVEN AN AWARD BY THE AMERICAN WELDING SOCIETY?** Yes, it's for years of volunteer service. I've previously served three elected terms to the Detroit Section Executive Board of Directors and I've held numerous positions with the AWS over many years. The chapter has over 1,000 members.

*\*This news article has been edited due to limited space.*

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# AWS Detroit Section is Now Accepting Applications!



## 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, Welding Engineering Technology or Related Fields with welding content. 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 who either live in, or are 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 'Scholarships' tab. [Click Here.](#)

Applications open December 1, 2023. The deadline for completing the application process for the 2024-25 academic year is April 1, 2024.\*

For 2023/24 the Detroit Section was able to award **33 scholarships** totaling **\$64,000** to students from **7 different schools.**

\*Please reach out directly if you have a paper application to send in ([dmatz@reautomated.com](mailto:dmatz@reautomated.com))



## 2024-2025 SCHOOL YEAR • RULES and APPLICATION INSTRUCTIONS

**Completion of this application automatically considers the student for the "Amos and Marilyn Winsand Scholarship" and the "Robert P and Mardell D Wilcox Vocational and Engineering Scholarships." These are AWS Foundation endowed scholarships.**

- 1) Applicant must be enrolled in a Welding Engineering Program, a Welding Engineering Technology Program, a Post-Secondary Technical Program (Welding Certification targeted program), or a related field of study with a strong welding content.
- 2) Students are eligible to apply for Detroit Section scholarships if they are permanent residents of the state of Michigan or the following Ontario counties: Essex, Chatham-Kent, and Sarnia-Lambton. Students who are temporary residents attending school in the state of Michigan or the following Ontario counties: Essex, Chatham-Kent, and Sarnia-Lambton are eligible for non-named scholarships. Preference will be given to students who are permanent residents of the Detroit Section territory, including Ontario counties: Essex, Chatham-Kent, and Sarnia-Lambton.
- 3) The Detroit Section Scholarship Committee administers the AWS Detroit Section Scholarship program, with the assistance of the AWS Foundation. The Committee also selects the recipient of the Amos and Marilyn Winsand Foundation Endowed scholarship as part of this scholarship application.
- 4) AWS Detroit Section Scholarships are paid in varying amounts based on individual awards. If an applicant is awarded a scholarship, the payments are made directly to their qualifying educational institution. Payments are made through the AWS Foundation.

### Application Instructions

The information requested on the application form is self-explanatory. Please fill out the form completely.

The AWS Foundation inter-active application is available either at [awssection.com/detroit](https://awssection.com/detroit) under the Scholarships tab. Or by going directly to the AWS Foundation scholarship page: [scholarship.aws.org/](https://scholarship.aws.org/)

For more additional information about the scholarship program, please see [aws.org/foundation/page/scholarships](https://aws.org/foundation/page/scholarships)

AWS membership is encouraged of all welding aspirants.

**In addition to the application form, you must enclose or attach the following:**

- **Transcript(s)**  
Official scholastic records or grade transcripts from the high school, college or university you attended during the recent school year.
- **Personal Statement and Work Experience**  
Ambitions, goals, background, and other factors that will help the selection committee understand your commitment to pursuing a welding career.

**Application  
Postmark  
Deadline  
April 1, 2024**