



DECEMBER 2024 **Inside This Issue**

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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.







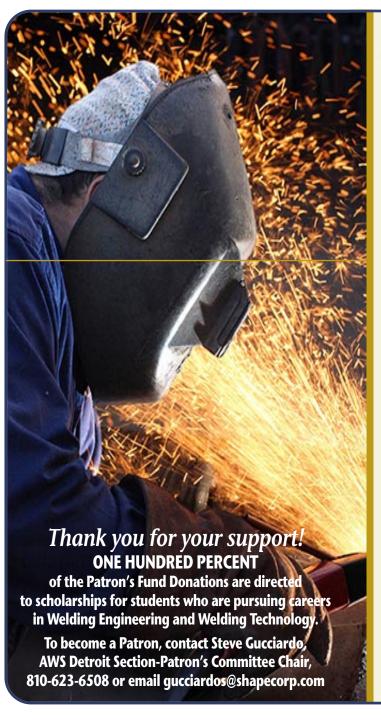
Hello AWS - Detroit Members and Friends.

Here we are in December already. Where has the year gone?! We've had a lot of great AWS events this year for the Detroit Section, but we're not done! Coming up this month, we have the AWS Detroit Christmas party. A great time was had by all at Legendary Axe in Westland last year, so we're excited to return there for this year's party on December 14th. The AWS Detroit Christmas party is a fun, casual event that's perfect for relaxing and spending some time with colleagues in the welding industry. And who wouldn't love to relieve some of the stress of the season with axe throwing? There is still time to get tickets for this holiday event. More information is in this month's e-Bulletin. Hope to see you there!

Our first technical night of the season was held on November 21st at the Hamlin Pub. The topic for the night was weld water quality. The presentation and participation were amazing! I would like to

thank Aro Welding Technologies for hosting and Ronald Johnston from CHEM-AQUA for the great information. This was an interesting subject that highlighted the importance of clean water in manufacturing. Stay tuned for more info on our next technical night coming up in January.

If you have any questions about AWS Detroit, or are interested in joining AWS Detroit for the upcoming 2025 year, feel free to reach out to me at **Russ.webster@gm.com.**



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Parker Sargent
Big Rapids, MI
Ferris State University
Welding Engineering Technology
Detroit Section Scholarship
District 11 - 051-West Michigan

Dear Detroit AWS Section,

I hope this letter finds you well. I am writing to express my heartfelt gratitude for the generous scholarship awarded to me through the American Welding Society. Your support has not only lightened my financial burden but has also inspired me to pursue my educational and career goals with even

greater determination. Receiving this scholarship is a tremendous honor for me, and I want to extend my deepest appreciation to both of you for your commitment to helping students like myself achieve their dreams. Your generosity is making a significant difference in my life, allowing me to focus more on my studies and less on financial concerns. As a recipient of this scholarship, I am not only grateful for the financial assistance but also for the vote of confidence it represents. Your belief in my potential motivates me to work harder and strive for excellence in my academic pursuits and future career in welding. I assure you that your investment in my education will not be taken lightly. I am dedicated to making the most of this opportunity and am committed to giving back to the community in the future, just as you have done for me. Once again, thank you from the bottom of my heart for your generosity and support. Warm Regards, Parker Sargent

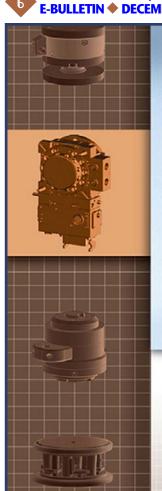


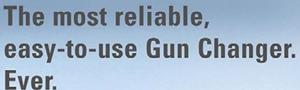
Nolan Dooley
Livonia, MI
Schoolcraft College
Fabrication Technology
Detroit Section Scholarship
District 11 - 011-Detroit

Dear American Welding Society Detroit Section, Thank you for the Detroit Section Scholarship award. This scholarship has significantly improved my ability to pursue education and played a crucial role in shaping my future goals. It enhances my opportunity to study welding at Schoolcraft College, which will facilitate success and help maintain a strong GPA of 3.5. I am deeply grateful for your

support and trust in my abilities. Your kindness and generosity have not gone unnoticed. I am committed to diligently working and making the most of this invaluable opportunity. Sincerely, Nolan Dooley







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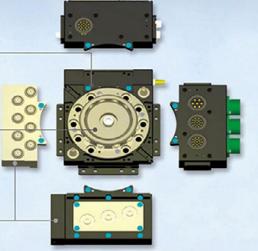
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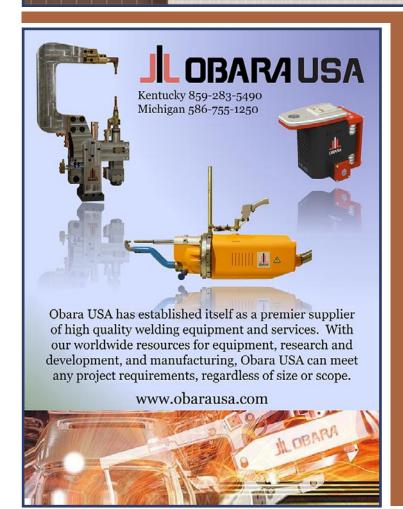
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Ask the Welding Engineer

By Donald F. Maatz, Jr.

"What options exist for evaluating the quality of a weld nut, other than push-off, and how viable are they?"

"Our previous column (ATWE Nov-24) started an overdue look at projection welding (PW). And while the initial question related to the important topic of PW quality, it will take us some time to get there as, from my perspective, we need to establish a few important things about the PW process. Our first stop will be to better define what a solid or forged/coined weld nut is. And as with most things, the history is a bit intriguing.

Near as I can tell, the solid or forged/coined weld nut (or in this case a weld-thru threaded stud) came on the scene in the 1920's. The initial idea came from the desire to find a better means of attaching fenders to Ford Model T's. One early limitation was having enough electrical power to actually make a weld. Then the OEM's had to develop their own nuts and welding parameters for every application - The process was that new. On top of that we did not yet have established weld nut suppliers.

As can be seen, the world that created the solid or forged/coined weld nut was a version of every one for themselves, and despite the passage of time, it is still a bit chaotic. Why would I say that? Just look at a sample of the wide variety of weld nuts available (Figure-1 below). One quick glance is all you need to see a veritable potpourri of designs. So, how many different ways do I need to thread an M8 bolt? It turns out the answer is many. And that is where the issues start to develop.

There was a short list in our previous column that summarized a few reasons why the solid or forged/coined PW world was lacking in formality. Here are two (2) of the most pertinent for this discussion.

- 1. Lack of standardization with regard to required projection size, and geometry.
- 2. Lack of standardization with regard to the needed number of projections for an application.

The first point is self-evident from the photo. The projections themselves vary in both geometry and size, even for the same fastener size. Again, from the photo, we can find round, elongated, various forms of 'eye-brow' shapes, and several half-round designs. And these are just a few examples. As one might imagine, each design has its pros and cons.

But why have we not yet settled on some sort of standard? One could argue this variety is driven by the product design community, and one would be partially correct. However, the lack of continuity from all concerned parties is really to blame. And a big reason for this is there is very little incentive to make things standard.

ASK THE WELDING ENGINEER continued on page 12





Jesse Pequeno

Kalamazoo, MI Wayne State University Welding and Metallurgical Engineering Detroit Section Scholarship District 11 - 051-West Michigan

I, Jesse Lee Pequeño, would like to express my most sincere and profound gratitude for being chosen as a recipient for this scholarship by the AWS. I want to express that with receiving this scholarship my efforts up to this point have become substantiated and validated on a personal level. The process of schooling and striving for a higher purpose and education is grueling; it has seemed in much of my recent past that the fruits of my labor have gone unrealized. Receiving recognition from the AWS has elucidated to me that the path that I am on is true and that I am fully capable of forging a path of scholarship and scientific learning to the highest capacity. I would like to make it known that the AWS and the relevant donors will not regret their decision to award me with this scholarship and that it will be used in full towards cultivating a passion for the scholarly advancement of welding education visibility, Material Science Engineering and towards emboldening the future generations of welding students in the great city of Detroit, Michigan.



Figure-1 – Examples of solid or forged/coined weld nuts (Author photo)





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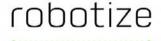
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Amalia Towns

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

Dear Detroit Section,

I want to offer the most genuine thank you for your charitable kindness in awarding me this scholarship. I cannot begin to explain how appreciative I am. Being a woman in a male dominated industry, finding individuals/groups who support me as you do means the world to me. It has not been easy learning new skills that I had never been introduced to before, but despite the struggles I have been able to work though it all because of the people that believe in me. My friends, family, professors, peers, and patrons like you became my foundation during this journey. Even outside of school, I continue to grow my knowledge and skills daily. I still have a whole life of learning ahead of me, but I am still very excited to see what welding will bring for me. I again thank you for your generous contribution to my education.

Sincerely and gratefully, Amalia Towns



K. Erich Laird

Monroe, MI Ferris State University Welding Engineering Technology Detroit Section Scholarship District 11 - 046-Northwest Ohio

To whom it may concern,

I would like to thank you for selecting me for this scholarship. Going into my final year of my bachelor's degree, most financial aid has dried up at this point, and I wasn't sure how I would be able to fund this last step. Your contribution to my education is incredibly generous, and I cannot express my gratitude enough for what you have done for me. Thank you so much for your support in this final step in this phase of my education.

Thanks, K. Erich Laird



Trevor Townson

Clarkston, MI
Ferris State University
Welding Engineering Technology
Detroit Section Scholarship
District 11 - 011-Detroit

To the people of the Detroit Section Scholarship, I would like to graciously thank you for the selection as the recipient for this scholarship. Since I was young, it has been my dream to pursue a career in the engineering field. I had never realized the struggles and financial strain that achieving this would take. Due to your kindness, my financial burden has been alleviated and I am able to follow my dream. The financial situation for my family has drastically changed since the passing of my father in 2021, I do not think I would be where I am today without the kindness and generosity of people like yourselves. So thank you again for supporting my education, it means the world to my family and me. I hope to one day be in a position where I can give back to the AWS and support the futures of the next generation of welding engineers.



Laura Palaske

Wayland, MI Ferris State University Welding Engineering Technology Detroit Section Scholarship District 11 - 051-West Michigan

Dear AWS Detroit Section,

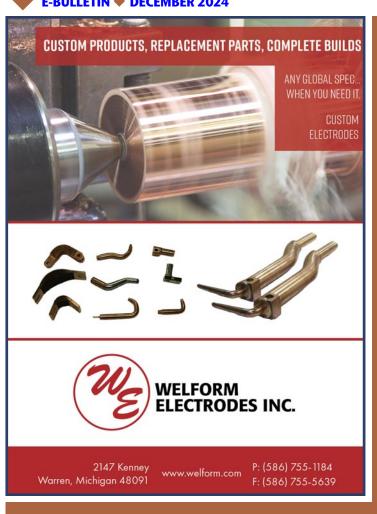
I am honored to have been selected as a recipient of the AWS Detroit Section Scholarship for the 2024-2025 school year. This scholarship will go towards my education expenses at Ferris State University. I am incredibly grateful for your support and want to thank you for your generosity. During the 2023-2024 school year, I completed my associate's degree in Welding Technology at Ferris State and will be continuing on to be a junior in Welding Engineering Technology bachelor's program for the 2024-2025 school year. My education is very important to me, and it is scholarships like yours that make my education possible. Thank you again for your support.



Jessica King

Ypsilanti, MI
Wayne State University
Welding and Metallurgical Engineering
Detroit Section Scholarship
District 11 - 101-Central Michigan

Dear AWS Detroit Section Committee Members, Thank you so much for selecting me as the recipient of the Detroit Section Scholarship. I am eternally grateful for the encouragement and support this scholarship provides, and I will strive to make the most of this opportunity. This investment into supporting higher education will allow me to actively contribute back to the welding community and make a positive impact academically and beyond! With deepest gratitude, Jessica King









Cameron Scharboneau

Monroe, MI Wayne State University Welding and Metallurgical Engineering Detroit Section Scholarship District 11 - 046-Northwest Ohio

I would like to say thank you for selecting me to be the recipient of the AWS Detroit Section Scholarship. This scholarship is incredibly helpful for me to pursue my dreams and a simple thank you does not seem adequate to express my gratitude. I have been a fabrication welder since I started at my family's shop in 2017 right after my son was born. After a few months of working there I realized how much I enjoyed welding and pursued my degree from the Welding Technology program at Monroe County Community College. After completing the program, I was encouraged to look into the Welding and Metallurgical Technology program at Wayne State. I plan to finish this program within the next two years. After I graduate, my plan is to take over my family's business building pressure separators. Again, thank you for your support as I pursue my dreams.

Cameron Scharboneau



Krista Wallace

Livonia, MI Wayne State University Welding Engineering Technology Amos & Marilyn Winsand Scholarship (Detroit Section) District 11 - 011-Detroit

Dear Amos & Marilyn Winsand Scholarship, I am Krista Wallace, a welding engineering student that has received your scholarship for the 2024 fall semester. Writing this, I understand now more than ever how important these kinds of programs are. Before I got that email, I thought I might have to forgo this semester. I am so close to the end of my degree, and this is a boost to get over the finish line.

My progress in my program has not been straight forward. For a lot of special needs students, our paths can be two steps forward and one step back. But I am finally going in the right direction and am getting the support I need to get through this and into the workforce in a way that I didn't think I ever would. I am immensely grateful for your confidence and will do everything in my power to have the best last year I can.

Krista Wallace

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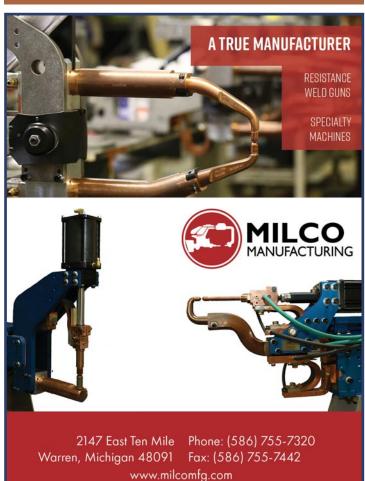
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- Student Memberships (evaluated each year);
- Student Chapter (evaluated each year);
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ASK THE WELDING ENGINEER continued from page 7

The one exception are the full-ring nuts/studs. One caveat to these designs, from a welding aspect, is they require very capable equipment. That being said, if the application has a sealing component to it, this is the only way to go. However, if the feedback as to why the product designer specified the full-ring is to ensure adequate strength then, in my opinion, you are dealing with a situation where folks do not know what they are talking about. I know this sounds a bit harsh, but over 30 years in this industry has left me a bit jaded on this topic, and I do see me changing my thinking anytime soon.

The second point is one you would have thought would have been an easy concept to understand and implement, but has still not managed to resonate with the industry. Specifically, how may projections are required on a fastener? If one starts from the premise that only three (3) points are required define a plane, you begin to wonder what the thinking is behind any design that has more. Of note are the fasteners with four (4) projections. Everyone knows what happens when you have a table or stool with four (4) legs – you often have a situation where it rocks back & forth. It does not take much imagination to see how a 4-projection weld nut might not have equal welding conditions at each projection. And this is where some issues can develop. It is acknowledged there are specific applications where more (or less) than three (3) projections are required. But these are a very small minority of the total number of fasteners used in the industry.

So there in a nutshell is the beginnings of what we have to work with: Weld nuts that are varied in their design and application.

Next, we will look at how the welding community is attempting to make lemonade from these potential lemons. I very much welcome any additional thoughts and ideas on this important topic."

My thanks to Don DeCorte of DTS Technical Services for his help with the history of projection welding.

References:

- 1) Resistance Welding Manual, revised 4th Edition
- 2) AWS C1.1M/C1.1:2019, Recommended Practices for Resistance Welding

If you have more questions about this topic, contact:

DON MAATZ R&E Automated Systems 70701 Powell Road, Bruce Township, MI 48065 (586) 228-1900 – Office dmaatz@reautomated.com

Donald F. Maatz, Jr. is with R&E Automated Systems. 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.







Travis Lindquist

Temperance, MI
Ferris State University
Welding Engineering Technology
Detroit Section Scholarship
District 11 - 046-Northwest Ohio

Dear AWS Detroit Section Scholarship Committee, I cannot thank you enough for selecting me as a recipient for this award, it is a blessing and motivates me to succeed in the upcoming school year. I must express sincere gratitude for everyone who works to make these scholarships a possibility, they truly make a difference in the lives of students. For me, the funds allocated from this scholarship will propel me through the final year of my Welding Engineering Technology degree at Ferris State by alleviating some of the financial burden imposed by tuition. That being said, I intend to focus on my studies and get the most out of this degree in hopes of applying that knowledge in future job opportunities.

Thank you, Travis Lindquist





Gerardo Marcial-Matias

Mulberry, FL
Ferris State University
Welding Engineering Technology
Detroit Section Scholarship
District 05 - 112-Florida West Coast

Dear American Welding Society Donors, It brings me immense joy and pride to have been selected as the recipient of the 2024-2025 Detroit Section Scholarship. I am writing to express my humble gratitude for your continuous generous support towards my educational journey at Ferris State University. Last May I received my associate in applied science in welding technology / Magna Cum Laude. I am now in my final year of the welding engineering technology (B.S.) degree program. While simultaneously pursuing a degree in the business administration program. I am another degree and one step closer to achieving my education goal of being the first in my family to graduate from college. I would like to share this accomplishment as it was greatly made possible by the financial support of scholarships like this. As a first-generation student, I am motivated by the desire to provide a bright future for my family, my community, and society as a whole. All of which is made possible through the generosity of donors like yourself. I am grateful for this recognition; it allows me to allocate my focus and energy to my studies rather than pondering my return to the classroom. I am honored for your continuous investment in my future, it motivates me to stay disciplined and humble so that one day I may help the future generation as you have helped me. I have included my contact information; please feel free to reach out for any further comments or questions.



Matthew McLaughlin

Delaware, ON
North American Trade School - London
Structural Welding
Detroit Section Scholarship
District 11 - 011-Detroit

Thank you to the Detroit Section of the AWS for the scholarship funds.

After losing my job and deciding on a career change, I was very concerned about the cost of entry. Having very little welding experience it was a tough decision to go to school before looking for work. These funds will go a long way in helping to secure a better future for myself and my family.

Thank you, Matthew McLaughlin



Millie Peach

Marengo, IA
Ferris State University
Welding and Fabrication
Engineering Technology
Detroit Section Scholarship
District 16 - 162-Eastern Iowa

Thank You Detroit Section Scholarship Donors, This scholarship will help me to pay for my final year of college. Thanks to your generous donation I will be able to graduate college this coming spring debt free. Finishing my 4 year degree with no debt will help start me in the right direction for the rest of my career. I am hoping to start grad school in fall of 2025. Not having the financial burden of paying off undergrad makes that goal much more attainable. I get no financial help with paying for college other than scholarships and grants so it is very appreciated to be chosen for them.

Thank You Again, Millie Peach



Donovan Stein

Burlington, KY
Ferris State University
Welding Engineering Technology
Detroit Section Scholarship
District 07 - 026-Cincinnati

To the Detroit Section Scholarship, I greatly appreciate the scholarship with my utmost gratitude. I am in the Welding Engineering Technology program at Ferris State University. As I wrap up my final year coming all the way from northern Kentucky, I reflect on the blessings I have received. I have an astounding amount of gratitude from AWS between its offerings and opportunities. This will be my 3rd year on the e-board for the AWS student chapter. The motivation for success is and has been fueled by those before me in the degree and the organization. A few of my internships have been around the Detroit area. I am pleased to know that Detroit has offered knowledge and support into my studies. The metaphorical fire that burns my yearn for knowledge and persevering success is bellowed by your generosity. I thank you deeply for the generosity and motivation that this scholarship brings.

Thank you and have a pleasant day, Donovan Stein

2024 SMWC XX Conference Was Well Attended

The recent SMWC XX conference was a remarkable event, organized by the AWS Detroit section. This three-day technical event brought together experts, engineers, and researchers to discuss the latest advancements in welding and joining technologies, particularly in the automotive, transportation, and light manufacturing sectors. This year's conference was held at Laurel Manor in Livonia, which provided a stunning venue for Vendor Night on the second day of the event.

As attendees entered the vendor hall, they were welcomed by a vibrant atmosphere filled with conversation, laughter, delicious food, and a diverse range of vendors. An impressive 25 companies participated in this year's Vendor Night, showcasing a variety of technical information about industrial machinery, welding machines, fasteners, and more. Participants engaged in discussions about their careers, aspirations, and the seminars. Whether they were newcomers or seasoned professionals, the event fostered connections and encouraged the development of new relationships.

A huge shout-out to our conference chair, Andrea Orr, for making this event possible with the support of other board members.







