



American Welding Society®  
DETROIT SECTION



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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.



Affiliated With

THE ENGINEERING SOCIETY

## Student/Scholarship Night Thursday, Sept. 28, 2023 • 5:30pm

Location: Macomb Community College  
(MCC) South Campus

14500 E. 12 Mile Road, Warren, MI  
John Lewis Student Community Center, K Building

Map: [Use Parking Lots 5 or 7](#)

Please RSVP directly to: [dmaat@reautomated.com](mailto:dmaat@reautomated.com)

Greetings! Our annual Student Night will be held on September 28, **starting at 5:30 pm** at Macomb Community College (MCC), South Campus located at the corner of Hayes and 12 Mile Road, at 14500 E. 12 Mile Road, in Warren, Michigan.

We are in the John Lewis Student Community Center, K Building. MCC recommends we use Parking Lots 5 or 7. Link to campus map [HERE](#).

Those interested will have the opportunity to tour the new Skilled Trades and Advanced Technology Center, T Building. All are welcome to attend.



Chairman's Message  
*John Pippin*

### Welcome Back Detroit Section,

In a big surprise I have been voted back onto the island! All kidding aside I am happy to be back serving as the Chair for the Detroit section one last time. I promise this time you will get to see me in person.

As we restart the year, I would like to welcome the new members.

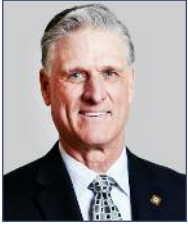
We will start the year off with student night which is our chance to meet the future of welding professionals and the future of AWS. Please check this E-Bulletin for details. Don Maatz, thank you and your committee for all the hours spent on scholarships.

We also have FABTECH in Chicago this month September 11-14.

I have one last thing to cover. The AWS in an effort to promote growth has a program called "Take the Torch" and after hearing a speech from the current AWS President - Dennis Eck I have a goal of strengthen the Detroit Section in what I call, "Pass the Torch." I am trying to involve as many younger members as possible. This you will see reflected in our executive committee this year.

**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); • Technical and Educational Opportunities.

# Obituaries



*Miami, FL, August 24, 2023*

***AWS and the welding community  
mourn the sudden passing of 2023  
AWS President Dennis K. Eck***

Dennis was a distinguished AWS member for over 30 years, working within the AWS Houston Section and taking on increasingly significant roles within the Society. He was the AWS Houston Section Chairman from 1989 – 2021, AWS Director at Large from 2016 – 2018, AWS Vice President 2019 – 2022, and was inducted as the 2023 AWS President earlier this year. Dennis was also a valuable contributor to the AWS Membership Committee since 2002.

His AWS honors and awards include AWS Houston Section Meritorious in 2004, District 18 Meritorious in 2005, and AWS Distinguished Member in 2017. A deeply faith-filled man, he honored the AWS by organizing the annual AWS Prayer Breakfast at FABTECH from 2017-2019 and was its speaker in 2014. He will be posthumously honored as an AWS Life Member for his 35 years of service at this year's FABTECH in Chicago.

Dennis serviced the welding supply industry for 41 years within the Texas/Louisiana/Oklahoma/New Mexico markets. He had a broad background in the gas and welding supply industry with general management, sales and marketing, business development, distribution, and plant operations experience.

## **Bill Qualls**

***It is with deep sadness and a heavy heart that I share the news of the passing of our beloved committee member, Bill Qualls.***

Bill Qualls has been a technical volunteer of AWS since 1989, actively contributing his expertise and unwavering commitment to the advancement of resistance welding. Throughout his tenure, Bill made significant contributions to various committees, including the AWS C1 Committee on Resistance Welding, AWS J1 Committee on Resistance Welding Equipment, AWS D8 Committee on Automotive Welding, the US TAG for ISO TC 44 SC 6, and of course, as the Chairman of the AWS D8D Subcommittee on Automotive Resistance Spot Welding, leaving a lasting impact on the field. His immense knowledge and dedication to the industry have been instrumental in the development and publication of numerous American National Standards related to resistance welding.

We are deeply grateful for Bill's contributions, both professionally and personally, to our committee and the resistance welding community as a whole. His passion, expertise, and warm presence will be remembered fondly by all who had the privilege of working alongside him. Bill's dedication to excellence and his unwavering commitment to the advancement of resistance welding have left an indelible mark on the industry.

*Sincerely, Mario Diaz*

*Program Manager, Standards Development, AWS*



## **Patrons 2023-24**

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## **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)

AWS Detroit Section Presents

# Holiday Party

@ Legendary Axe  
in Westland

Saturday, Dec 2nd, 2023

1pm to 4pm



Food, Drinks, and Dessert

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\*Non-Alcohol Tickets Available\* Plaid Attire Encouraged

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# September Hotline

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## AWS Detroit Section

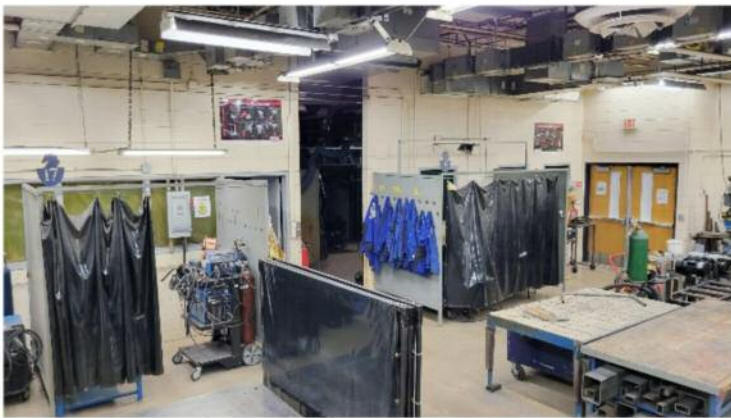
*on the occasion of the*

## 50th Annual AWS Detroit Section High School Welding Competition

Dennis K. Eck  
2023 AWS President

Friday, May 12, 2023

Date





# Ask the Welding Engineer

By Donald F. Maatz, Jr.

**Q:** "Is it recommended to preheat weldments like weld nuts? I've heard some say not to because it burns the projections of the nut. Then I've heard others say we need to because we are welding AHSS and it's stronger than mild steel."

**A:** "The idea of a preheat used in conjunction with the projection welding (PW) process, either on hollow or solid projections, seems to be a subject that ebbs and flows within the industry. From my perspective, I do not think there are any words from me (or anyone else) that will do much to squelch the debate and settle it one way or the other. That being said, I think there are several key points to consider when the idea of utilizing this scheduling element in a PW is deliberated. I also think an important place to start is defining what is meant by the term pre-heat, and what its possible use portends.

Pre-heat is the initial application of current specified in the schedule. It is typically a constant value and a single pulse, although both of these can vary. It is also, by definition (Ref AWS A3.0), separated from the main welding pulse. From my perspective, a pre-heat is intended to alter the condition of the faying surface to be welded. The goal may be to help improve material fit, or aid in breaking thru a coating. Finally, the application of just the pre-heat portion of the schedule should not result in the joining of the parts together, either by melting and subsequent solidification, or the formation of a solid-state bond. With the aforementioned in mind, what happens to the projections during a pre-heat? One way to determine this really requires a bit of a thought experiment.

When considering the projection welding process, the passage of secondary current should only occur once the desired weld force has been achieved. However, once current does start to flow, all material through which it passes (shunts, cables, parts, etc.) is subject to resistive heating based on Joules Law, and that includes the projections themselves. So, what happens exactly? Dependent on the value and duration of the current, the projection geometry and the material they are made from, and the substrate type, gauge and coating, several possibilities come to mind. These include, but are not limited to:

- Nothing discernable happens: If the pre-heat current value or duration are too low or short, the conditions at the welding interface do not change, or at least they do not change much. Perhaps the projection geometry is not altered, or the other conditions at the faying surface (coating, etc.) are not affected. To be fair, this is a rare occurrence since in the vast majority of cases, something is going to happen.

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

R&E Engineering Services

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70701 Powell Road, Bruce Township, MI 48065

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(734) 793-2304 – Direct

[dmaatz@reautomated.com](mailto:dmaatz@reautomated.com)

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

- Fusion of some sort is achieved: If the current value or duration are too high or long, one may have melting and solidification occur, or a solid-state bond is formed. As eluded to earlier, either outcome is not typically the desired consequence one would hope for with the application of just a pre-heat pulse.\*
- The faying surface is altered without fusion occurring: With a more measured application of current and weld time, it is possible (among other things like breaking down the coating) to soften the projections such that the applied weld force will begin to alter their geometry. This alteration will most likely take the form of the contact surface of the projection increasing in size. In others words, the projections start to flatten. And this is where things get just a bit interesting.

*\*The concern associated with creating a bond during the application of a pre-heat (especially melting and solidification) is the resistance of the faying surface is potentially reduced to the point where the subsequent application of the main pulse of the schedule may no longer be able to provide enough energy to achieve the needed fusion. Projection welding is in essence a resistive heating process, and if we obliterate the faying surface by melting and solidification, our resistive component in Joules Law is greatly reduced, if not all but eliminated. This reduction may be sufficient that any further attempt at weld growth may not be possible, regardless of the amount of secondary current applied.*

We will pick-up the discussion in our next column. At that point we will take a deeper dive into what can occur when the projections start to flatten."

References:

- 1) Resistance Welding Manual, revised 4th Edition
- 2) AWS C1.1M/C1.1:2019, Recommended Practices for Resistance Welding
- 3) AWS A3.0M/A3.0:2020, Standard Welding Terms and Definitions



**AWS DETROIT SECTION  
EXECUTIVE COMMITTEE**

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Contact Brian Pearch  
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# Social Media Update

If anyone has anything they would like posted to Facebook and/or LinkedIn please send it to Christian Megna: [christian.a.megna@gmail.com](mailto:christian.a.megna@gmail.com)

**LinkedIn** As of 08/31/2023, during the past 30 days **LinkedIn** page has had:

- 2 posts - **0%** change past 7 days
- 312 post views - **94%** change past 7 days
- 2,698 total members
  - 15 active members - **29%** change past 7 days
  - 46 new members

**f** As of 08/31/2023, during the past 28 days **Facebook** page has had:

- 1 posts in past 28 days
- 15 new page likes - **114.3%** change past 28 days
- 127 page visits - **39.6%** change past 28 days
- Posts reached 281 people
- 82 people engaged with posts **382.4%**
- 7,906 total page likes
- 9,367 page followers - **▲53**

### TOP COUNTRIES BY FACEBOOK MEMBERSHIP:

- United States: 27.5%
- India: 10.7%
- Malaysia: 8.8%
- Egypt: 6.4%
- Indonesia: 6.4%
- Philippines: 4.2%
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- Thailand: 2.7%
- Saudi Arabia: 2.2%
- Columbia: 1.9%

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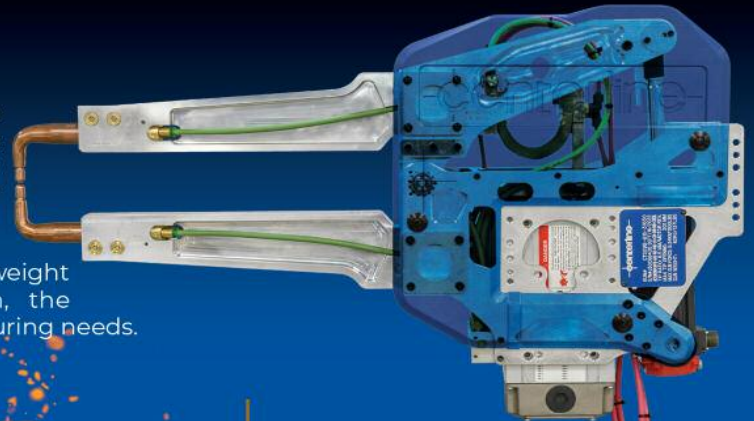
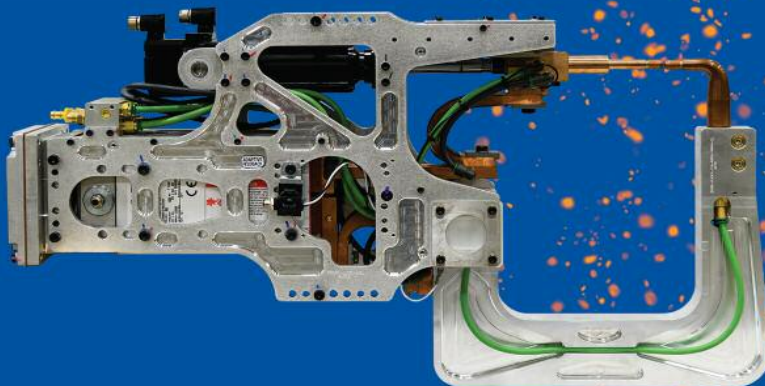
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# September Hotline

## Milco International Acquires Tewi

Milco International, which consists of the following companies: Milco Manufacturing Company (Americas), Welform Electrodes, Inc. (Americas), Welform Precision Machining Company, Ltd. (China) have the following announcement...

Milco Manufacturing is proud to announce the recent acquisition of Tewi, an Italian company supplying resistance welding components to the European market. Tewi, located in Turin, Italy has been in business since 1978 and has a rich history of providing top quality products in a variety of markets. Their dedicated and proud workforce produce equipment for the automotive resistance welding market working very closely with key accounts such as Fiat and Alfa Romeo.

Milco Manufacturing, in business for over 70 years, was looking to expand their global family and Tewi was a perfect match. Welform, a sister company of Milco, produces the same products as Tewi but for North America.

We welcome the opportunity to engage with your team to offer our ever-expanding services to the global automotive market. Please help us in welcoming Tewi to our Team!

## Weld Systems Integrators Inc. (WSI) announces new Southeast Regional Manager

Warrensville Heights, Ohio, July 12, 2023

Effective June 2023, Ed Turner is WSI's Southeast Regional Manager.

Ed brings over 20 years of mechanical and industrial engineering experience and a demonstrated sales history in several disciplines of industrial welding. In addition, Ed exhibits strong entrepreneurship and professional skills in medical device, failure mode and effects analysis (FMEA), and lean manufacturing. Ed holds a BSME in Mechanical Engineering from Texas A&M University and is an active member of the American Society of Mechanical Engineers.

"We're excited to add Ed's strong track record of management, innovation, and operational excellence to the WSI team. Based in the Huntsville, AL area, Ed will be responsible for laser, spot / resistance welding sales, and technical support for the Southeast USA states of AL, TN, GA, FL, MS, AR."

For more information on Ed Turner, [CLICK HERE](#). To learn more about Weld Systems Integrators, [CLICK HERE](#). For immediate assistance, please give us a call at 216-475-5629 or 844-974-9353.



  
  
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# Awards Night and Technical Meeting 2023

John McDonald  
and Cory Vogt >

The AWS Detroit Section hosted a Technical Night with RAM Solutions and Vogt Ultrasonics. In the meeting, we were honored to have President Eck present for the night's events. He started the meeting by talking on the new age of the AWS. Specifically, how the new generation needs to begin taking over responsibilities and leadership roles within the association. At the end of his speech, Eck had all of the younger members (Millennials and Gen Z) stand in the front of the room and talk about what they think needs to be done to modernize and spread the reach of the AWS to the younger generation.

After Eck, John McDonald presented on RSW Inspection processes, highlighting the benefits of ultrasonic inspection. Cory Vogt then went into detail on Vogt ultrasonics and their use for RSW UT inspection.

At the end of the night, the AWS Section presented section awards to its members.



The Awards Recipients >  
< Dennis Eck speaking to the audience  
The younger generation v



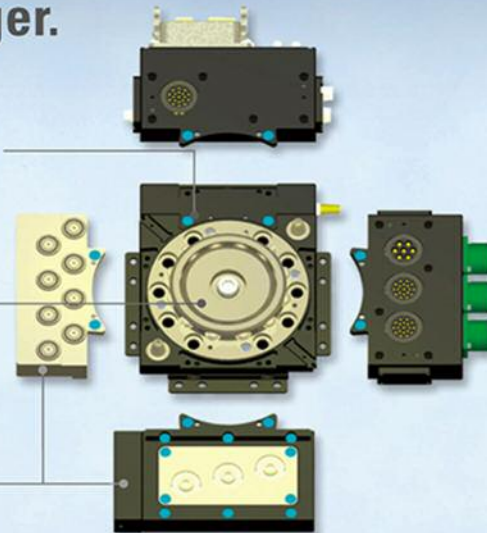
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# Save the Date for SMWC XX: Advances in Automotive Welding & Joining

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## SMWC XX

ADVANCES IN AUTOMOTIVE WELDING & JOINING CONFERENCE

**October 22-24, 2024 | Detroit, MI**

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The AWS Detroit Section is pleased to announce the return of the Sheet Metal Welding Conference in October 2024. This year, the focus will be on expanding beyond the body shop to cover the electric revolution. 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. Topics of interest for presentations include body construction, virtual validation tools, and electrification.

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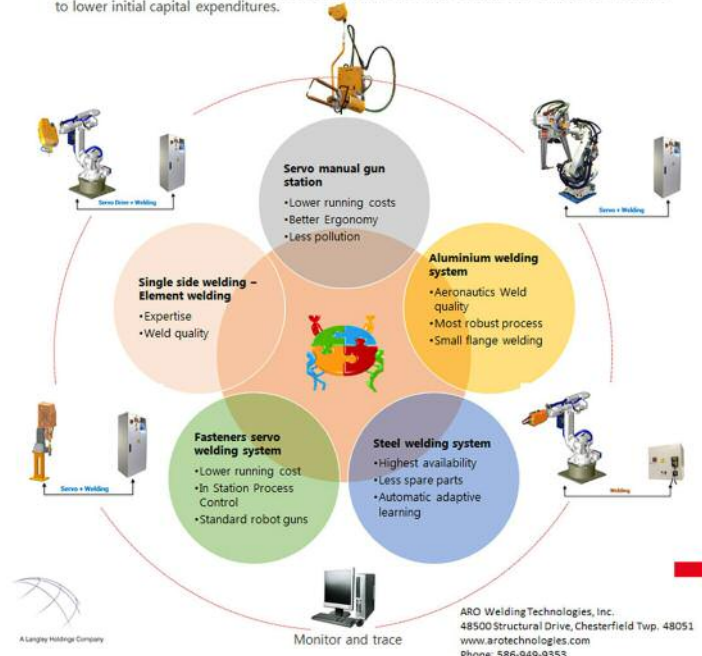


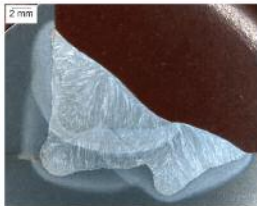
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# September Hotline

## Fraser Public Schools Job Postings

Welding Technician/Co-Teacher to manage the technical skills training of our Ramblers & a CTE Co-Teacher posting to manage the classroom & learning management system. This instructional team will be supported by our veteran Lab Technician assigned to the welding program.

We are tremendously blessed to have built a fabulous space for our learners over the past 20 continuous years of welding education. Our program features a dedicated classroom staffed with a veteran teacher as our Lab Technician, restroom, 5 storage rooms, outside fenced yard, welding shop with 17 booths (SMAW, GMAW/FCAW, & GTAW in each), 5' x 10' Swiftcut CNC Plasma Table, Fanuc Robotic Welding Cell, HAAS Mini Mill, Miller Augmented Reality Trainer, Reality Works VR Trainers, welding testing equipment & much, much more! This team is

supported by 3 Career Navigators & a Work-Based Learning Coordinator to help connect classroom learning with opportunities within our local manufacturing industry.

If you happen to know anyone who is purpose-driven to inspire kids by providing technical training that will lead kids towards success, please encourage them to apply at the link [HERE](#).

## Resistance Welding School will be held in Detroit area on Oct. 24/25th

Go to [www.RWMA.org](http://www.RWMA.org) and then select "Emmett Craig Resistance Welding School" on that page. The school moves around and may not be back in the area for another year or two. The school preps you for the AWS CRWT Certification as well.

## 2 TEACHING POSITIONS AT FRASER PUBLIC SCHOOLS, FRASER, MICHIGAN

### WELDING TECHNICIAN/CO-TEACHER 1.0 FTE

- These courses will be co-taught with a team including an additional CTE Instructor & Lab Technician.

### CTE CO-TEACHER FOR WELDING 1.0 FTE

- These courses will be co-taught with a team including an additional Welding Technician/Co-Teacher & Lab Technician. • Instructor will focus on classroom management, learning management system, & supporting welding instruction across our classroom & lab

#### QUALIFICATIONS:

- Must be purpose driven to lead students toward careers in welding & manufacturing.
- Must have an active teacher certificate:
  - o Must possess at least one of the following: Standard CTE Certificate, Professional CTE Certificate, or be eligible for an Annual CTE Authorization.
  - o Annual CTE Authorizations must meet the following requirements:
- The individual must possess a high school diploma or GED.
- The individual's work experience must meet the recent and relevant requirements specified in the CTE: Recent and Relevant Experience Requirements guidance.
- The individual should hold an industry certification in welding.
- Proven experience in teaching welding/manufacturing is preferred.
- Must be able to communicate effectively with students, staff, and parents.

**REPORTS TO:** CTE Director and Building Principal

**SUPERVISES:** All Students

**JOB GOAL:** To lead all students toward the fulfillment of their potential for intellectual, emotional, physical, and psychological growth and maturation.

#### ASSIGNED RESPONSIBILITIES:

- Plans and prepares for classes assigned and shows written evidence of preparation upon request

of immediate superior.

- Employs a variety of instructional techniques and instructional media, consistent with the needs and capabilities of the individuals or student groups involved, and the physical limitations of the location provided.
- Strives to implement by instruction and action the district's philosophy of education and instructional goals, objectives, and content, as outlined in the appropriate course of study.\*
- Diagnoses student and class educational needs.\*
- Plans instructional goals, objectives, and methods and cooperates with other members of the staff in achieving these aims.\*
- Evaluates student and class progress on a regular basis.\*
- Develops, organizes, and maintains a classroom environment conducive to effective learning within the limits of the resources provided by the district.
- Establishes and maintains standards of classroom behavior, as approved by the Building Principal.
- Takes all necessary and reasonable precautions to protect students, equipment, materials, and facilities.\*
- Maintains accurate, complete, and correct records as required by law, district policy, and administrative regulation.\*
- Assists in upholding and enforcing school rules, administrative regulations, and Board of Education policy.\*
- Makes provision for being available to students and parents for education related purposes during

and outside the instructional day when required or requested to do so.\*

- Works to establish and maintain open lines of communication with students and their parents concerning both the broad academic and behavioral progress of all students.\*
- Provides for their own professional growth through an ongoing program of reading, workshops, seminars, conferences, and/or advanced course work at institutions of high learning.
- Performs such other tasks and assumes such other responsibilities as the Building Principal may assign.

**TERMS OF EMPLOYMENT:** School Year. Regular and reliable attendance is an essential job function.

**SALARY:** In accordance with the negotiated contract.

**EVALUATION:** In accordance with the State of Michigan laws and policies.

**This job description in no way states or implies that these are the only duties to be performed by the employee. He or she will be required to follow any other instructions and to perform any duties requested by his or her management that generally fit into the job expectations.**

\*Essential Functions of the job as per the Americans with Disability Act (ADA)

Revision Date 8/18/23

FRASER PUBLIC SCHOOLS DOES NOT DISCRIMINATE ON THE BASIS OF RACE, COLOR, NATIONAL ORIGIN, SEX, AGE, HEIGHT, WEIGHT, RELIGION, MARITAL STATUS, OR DISABILITY IN ITS PROGRAMS AND ACTIVITIES. THE FOLLOWING PERSON HAS BEEN DESIGNATED TO HANDLE INQUIRIES REGARDING THE NONDISCRIMINATION POLICIES: DIRECTOR OF HUMAN RESOURCES, 33466 GARFIELD, FRASER, MI 48026 (586) 439.7000.



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