You’re Invited

Please join the American Welding Society – Detroit Section for our holiday dinner.

Saturday December 14th
6:00-9:00PM

Ukrainian Cultural Center
26601 Ryan Road, Warren, MI 48091

This event will cost $40/person at the door. A family style dinner will be served with a cash bar. Bring a guest and celebrate the holiday season!

Questions? Please contact:
Eric Lichtfusz | eric.lichtfusz@roush.com | (313)283-5875
Andrea Peer | apeer2@ford.com | (313)410-7636
As the year ends, we find that the economy has flourished, businesses are lucrative, and we see more help wanted signs posted than in the past. The Detroit Section has had a very good year. We awarded several scholarships to students who are pursuing a welding career and the Technical Meetings were very interesting and well attended.

We will be starting our search for volunteers to serve on the Detroit Section Executive Committee. If you are an AWS member and want to help in the advancement of welding by helping students pursue a career in welding, we could use dedicated individuals. You don’t need to know how to weld to be involved. I am a lifetime AWS member and only welded a couple of times, however, I have networked with many people and acquired valuable contacts that advanced my career. You might be surprised how welding interacts with most manufacturing companies. If you are interested, please contact me or Dan Wellman to learn more about what is entailed with becoming a committee member.

D1.1 is our flagship welding standards and it’s being updated in the first quarter of 2020. We’ll periodically be sharing news and information concerning its upcoming distribution. Register to be notified and you could win the first book off the press or a $500 gift card! Go to aws.org on the Standards tab to sign up.

We will not have a technical meeting this month and I look forward to seeing you at the Focus Hope technical meeting in January. God bless you all. Have a Merry Christmas and a Happy New Year!

John McKenzie
Chairman’s Message

Dietrich “Dee” Roth
It is with a heavy heart we announce that Dietrich “Dee” Roth, co-founder of RoMan Manufacturing Inc. passed away Friday, November 15, 2019, he was 86 years old.

Dietrich was born in Darmstadt, Germany on November 3rd, 1933 the year the Nazi party came to power. He spent his formative years in an environment of hate, fear, and ultimately destruction. His family lost most everything, except for their lives. The experience of true hate and evil shaped who he was, a man of deep humility, grace, kindness, faith and conviction. He abhorred hate and prejudice. Following World War II, he received his Electrical Engineering degree in Germany going to work for Dr. Masing & Company. Because of a relationship Dr. Masing & Co. had with Kirchhoff Manufacturing, Dietrich immigrated to Grand Rapids, Michigan in 1959 and went to work for the Kirkhof Manufacturing Company as an electrical engineer. He

Continued on page 7
December Hotline

2019 Member-Get-A-Member (Be The Spark)

**WHAT IT IS:** Be the spark that ignites the people you know to join AWS, and get rewards.

**HOW IT WORKS:** Build up points throughout the year for each AWS Member you recruit: 5 Points per Individual Membership and 1 Point per Student Membership.

**WHAT YOU GET:** The top point-earner will receive a $500 gift card, and all other participants earning over 10 points will get AWS branded merchandise based on points accrued throughout 2019.

Learn more at www.aws.org/membership/page/sparkgrant-connections

AWS FOUNDATION

Light a Spark Grant - Deadline to Apply is December 15th

Miller and the AWS Foundation have partnered to establish the Light a Spark Grant. This grant provides a starter package of equipment and supplies to introduce welding into an existing high school Ag-Ed Program, Career and Technical Education Class, or Practical Skills Course. Up to 10 starter packages valued at more than $12,000 each will be awarded annually! This grant is not intended for schools that have an existing welding program or course.

If you know a local high school that wants to add welding to their curriculum, tell them to go to www.aws.org/sparkgrant to apply!

Monge Adds Southern Engineering Depth To Dengensha

Bedford, Oh… Dengensha America has increased its resistance welding customer support capability for the southern states by adding Shandell Monge as Sales Engineer in Atlanta. Customers can count on Monge in areas that include product sales, installation and technical service support. Monge will add product application engineering depth to the company’s rapidly growing customer base in the south. He has been assigned to work closely with Dengensha’s Japanese service engineer in their recently opened Atlanta office. For more information about Shandell Monge’s new position as Sales Engineer, contact Maiko Robison at Dengensha America/7647 First Place Dr., Bedford, OH 44146/Phone: 1-440-439-8081/Fax: 1-440-439-8217/Email: mrobison@dengensha.com Or visit us: www.dengensha.com

Section Investment Accounts

The AWS Foundation is no longer accepting deposits into Section Investment Accounts (SIA). If you want to know your SIA balance, or want to consider converting it to a scholarship or grant endowment, contact John Douglass at jdouglass@aws.org. SIA transfers to scholarship or grant endowments are matched by the AWS Foundation at 100%, the same as a donation!

JobsinWelding.com

Don’t forget to visit www.jobsinwelding.com if your company is looking to find a qualified candidate or if you are looking to find a new job opportunity. This AWS job board, through relationships with numerous job boards and distributors, offers direct access to over 88% of the welding jobs posted on the internet. Over 1,100 jobs are currently listed - no need to search multiple sites!

This is a friendly reminder to please submit “Hotline” articles for the AWS Detroit Section’s E-Bulletin. If you have any articles that you would like to get into the eBulletin please email them to Cody.Nichols@midwayproducts.com no later than 3p on the 15th of the month, for inclusion in the next publication. Please submit them in Microsoft Word format and feel free to include photos.

As a reminder, the “Hotline” section is devoted to topics that are general interest items for members of the Detroit Section. General interest items can include job openings, jobs wanted, personnel changes, announcements of special meetings, events, educational opportunities, seminars, obituaries and any other items that may interest the members of the Detroit Section.

---

**CWI CORNER**

**Ethics...Based on a CWI’s morals, right?**

Let’s examine this from a few different angles, get some definitions down, then we can discuss what this means to a SCWI, CWI or CAWI.

When you look to Merriam-Webster for the definition of “Ethics,” you’ll discover that ethics is a set of moral principles. A theory or system of moral values. Well I guess that helps; if you know what morals are. Just in case you don’t, Merriam-Webster further explains. According to their definition, morals often describe an individual’s particular values concerning what is right or wrong. Ethics, according to them, tends to suggest aspects of universal fairness and whether or not an action is responsible. O, what I get out of that is ethics are a set of moral principles where each person can decide what is right or wrong. For the record, that’s not what I believe, but that seemed like a fair conclusion someone could draw from those definitions. Now, truth be told, I did cherry pick only a few things from Merriam-Webster’s definitions to come to my conclusion. But I’m sure there are people that believe my conclusion to be accurate. Kind of along the lines of the popular phrase, ‘I reject your reality and substitute my own.’ Dictionary.com tells us in one definition that ethics are the rules of conduct recognized in respect to a particular class of human actions or a particular group, culture, etc. With that said, it seems this topic and discussion could go on for a long time and in many directions. And I’m sure it does. Since we are looking at this from an AWS welding inspector viewpoint, we would be a particular group and therefore we should be looking in a specific place for our answer. As an SCWI, CWI or CAWI, you should look to AWS for the specific answers on your professional ethical conduct.

AWS QC1:2016-AMD1, Specification for AWS Certification of Welding Inspectors is the current source for those answers. The scope of this specification states that it establishes the requirements for certification of AWS welding inspection personnel. It also describes the principles of conduct and practice by which certification may be maintained. In clause 11 the specification specifically addresses the Code of Ethics, Rules of Conduct, and Practice. So, to the question are ethics based on the individual CWI’s morals; no, they’re not. Our professional ethics are established within the standard by which we are governed. Well, now we know there’s a mandate and how it’s established, but why? Let’s answer that first then we can get into how ethics are defined by AWS.

The AWS QC1 specification mandates that welding inspectors maintain integrity and Continued on page 5
Proteus Industries Inc.
Flow Measurement Excellence Since 1978

PRECISE COOLANT CONTROL
AND LEAK DETECTION FOR
ROBOTIC WELDING SYSTEMS

SOLD LOCALLY THROUGH
RAM SOLUTIONS, INC.
Automation and Welding Solutions

Local Sales and Product Support
24/7 Support
Factory Authorized Training

Contact us at Tech@proteusind.com or Sales@ramsolution.com

UNITED TECHNICAL
WELDING TECHNOLOGY

Welding Engineering Technology
- Consulting - Welding engineering, metallurgical
- Process Development
- Welding Laboratory - Multiple welding processors
- Welder Certification Test Services
- Welding Academy and Training Facility
- On-Site Consulting, Program Support - Short & long term projects
- Weld Evaluations - Full metallurgical laboratory, ISO accredited services
- Destruct Services / Vehicle Tear-Down - ISO accredited

Non-Destructive Testing (NDT) - ASNT Certified Inspectors
- ASNT ACCP Level II Certified Inspectors
- Large volume, production capabilities
- Ultrasonic and Ultrasonic Phase Array Services
- Dye Penetrant (PT), Magnetic Particle (MT)
- Helium Leak Testing, Pressure Testing

ISO Accredited Laboratory Testing
- Full Metallurgical Laboratory
- Tensile, Impact (CVN), Fatigue, Hardness
- Scanning Electron Microscope (SEM / EDS)
- Macro Cross-Sectional Evaluations
- Failure Analysis
- Chemical Analysis

United Technical, Inc.
1081 E. North Territorial Road
Whitmore Lake, MI 48189
Office: (248) 667-9185
www.unitedtechnicalinc.com
CWI Corner continued from page 3

high standards in skill and practice while conducting welding inspection in order to safeguard the health and well-being of the public. In doing so, inspectors are to be cognizant of principles, which we’re going to discuss shortly, along with the scope to which they apply. When you really think about it, that’s a heavy burden. In fact, AWS takes this so seriously that any unauthorized practice is subject to the Committee’s review. If you are found to be in violation you could face suspension, reprimand or revocation of your certification. In my mind, even more serious than that is this: When welds break, people die. I have said that many times to engineers, designers, etc., really anyone who seems to take a flippant approach to welding. You know the type, ‘the welds look good to me, let’s ship it.’ Most of the time the statement ‘welds break, people die’ gets their attention. Sounds a little melodramatic, but that’s the mindset welding inspectors should have, because it’s true. Not always, but even if it only happens once, it’s one time too many. As an inspector, you should really consider your ultimate responsibility, which is to safeguard the health and well-being of the public. It’s not to simply stamp off a report and ship the product for the highest profit. Ultimately, public safety is why welding inspectors exist and why they need to perform their duties with a Code of Ethics, so let’s look at clause 11 from AWS QC1.

The following is paraphrased and summarized from the original text. For the full language and intent please refer to the AWS standard which may be downloaded free here: https://www.aws.org/library/doclib/QC1-2016.pdf

The first subclause is **Integrity.** AWS mandates that welding inspectors certified by AWS act with complete integrity in professional matters. Inspectors are to be forthright and candid with their employer, the employer’s customer or regulator, and the Standards Committee on matters pertaining to AWS QC1.

The second subclause is **Responsibility to the Public.** This subclause reinforces the inspector’s responsibility to the public to act to preserve public health and well-being by performing the duties of the inspector in a conscientious and impartial manner. This is to be carried out to the full extent of the inspectors moral and civic responsibility and qualification.

1) **Take on and perform only assignments for which you’re qualified.**
2) **Present credentials when requested by persons authorized to examine them.**
3) **Must not falsely represent your certification status in any form.**
4) **Must be completely objective, thorough and factual in all statements, written or otherwise.**
5) **Sign only for work the inspector has inspected or has knowledge through active supervision.**
6) **The inspector is neither to associate or participate in fraudulent or dishonest activities.**

The third subclause is **Public Statements.**
1) An inspector must identify any interested parties and disclose any financial interest before issuing statements, criticisms or arguments on weld inspection matters related to public policy.
2) An inspector may not publicly express any opinion on welding inspection subjects unless the inspector has full knowledge of all facts in the matter, is competent in the subject technical matter and has made an honest evaluation of the subject.

The fourth subclause is **Conflict of Interest.**
1) An inspector must avoid any situation where there is a conflict of interest with an employer or client and disclose any situation where it may be perceived as such.
2) Unless authorized or approved by all interested parties, an inspector may not accept compensation in any form from more than one party for the same project.
3) An inspector may never ask for or accept gratuities in any form from any party related any project the inspector is involved with.
4) An inspector serving in any capacity as a public official may not inspect, review or approve any project associated with the inspector’s position unless all related parties are aware and approve.

The fifth subclause is **Solicitation of Employment.**
1) With the exception of usual commission licensing fees, an inspector may not bribe or offer pay in any form for employment.
2) An inspector may not exaggerate or falsely claim academic or professional qualifications of themselves or their associates.
3) An inspector may not claim their credentials are suitable beyond the scope of the endorsements.
4) An inspector may not disclose proprietary information in any form from information gained while conducting inspection duties from current or past business contacts without written consent except as necessary to complete inspection duties.

It is also noted under this subclause that even though an inspector may be properly certified, those credentials may not carry the legal authority to provide inspection services to the public.

The sixth subclause is **Unauthorized Practice.** Any violation of the standard of conduct or the Code of Ethics contained in the standard, in part or in whole, as it relates to the AWS inspectors’ duties constitutes unauthorized practice and is subject to sanctions.

The bottom line here is that regardless of your personal moral convictions or your personal ideology on ethics, as an inspector certified by AWS, you will be held to the standard of conduct and ethics established by AWS. Now, I would find it hard to believe that anyone would read any of these and think they are too restrictive or overbearing. I suppose there are some out there that feel these don’t or shouldn’t apply to them. They seem reasonable to me.
and I would question why someone felt that way. There are also some that have been found to be in violation and have faced sanctions by AWS accordingly. Some may have even faced legal ramifications as a result. What could someone believe they could gain when there is so much more to lose? As far as I’m concerned, this all ties back to a person’s integrity. I’ve heard integrity defined as ‘doing the right thing, even when no one is looking.’ If you’re willing to cut corners when you think no one is watching, you don’t have integrity. And, if you don’t have integrity, in what do you place your value?

If this subject and others like it are interesting to you and you’re not already an AWS CWI, why aren’t you? If becoming a CWI is a career path that you would like to pursue, the AWS-Detroit Section is hosting two AWS CWI Seminar/Exams. The seminar/exam dates and location are as follows:

**CWI Seminar** May 3-8, 2020 / **Exam** May 9, 2020  
Detroit Metro Airport Marriott  
Address: 30559 Flynn Dr, Romulus, MI 48174  
Phone: (734) 729-7555

~ and ~

**CWI Seminar** Oct.11-16, 2020 / **Exam** Oct. 17, 2020  
Detroit Metro Airport Marriott  
Address: 30559 Flynn Dr, Romulus, MI 48174  
Phone: (734) 729-7555

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).

*By Eric Lichtfusz*  
[eric.lichtfusz@roush.com](mailto:eric.lichtfusz@roush.com)  
AWS/CWI 09070281

---

CWI Corner *continued from page 5*

Obara USA has established itself as a premier supplier of high quality welding equipment and services. With our worldwide resources for equipment, research and development, and manufacturing, Obara USA can meet any project requirements, regardless of size or scope.

[www.obarausa.com](http://www.obarausa.com)

---

Follow Us: awsdetroit.org

**Social Media Update**  
**AS OF NOVEMBER 7, 2019**

During the past month [LinkedIn](https://www.linkedin.com) page has had:

- 3 new members  
- 3 new posts  
**2,593 total members**

During the past month [Facebook](https://www.facebook.com) has had:

- 11 posts  
- 232 page likes  
- 194 page views  
**8,094 total page likes**

*UPDATED BY ERIN LALINSKY*
EISELE LIQUIDLINE -
INCREASE WATER FLOW AND REDUCE DELTA P
ON WELD-GUN WATER COOLING SYSTEMS

- Standard fittings engineered to deliver 10%+ flow optimization
- Wide-sweep fittings improve flow rates 50%+
- Made from dezincification resistant brass alloy
- Anti-splatter release sleeve
- Swivel designs available
- Threads available in BSPP (G), BSPT (R), Metric & NPT
- Custom sizes and solutions available

When paired with Eisele ProWeld® flame-retardant tubing, you can count on years of leak-free performance.

Contact us today, we will be glad to provide a solution for your application!

Available in metric and inch in a variety of colors.

Eisele Connectors Inc.
99 Monroe Ave NW #200,
Grand Rapids, MI 49503

Michael Jones
T 616-612-0550
michael.jones@eisele-connectors.com

WWW.EISELE-CONNECTORS.COM

SDK ENGINEERING, LLC
SGK ENGINEERING, PSC

WELD PROCESSING SUPPORT
- Joining Consultants
- Long Term Onsite Engineering
  Support Includes
  - RSW/LASER/GMAW (CWI)
  - Alt Joining Processes
    - Self Piercing Rivets
    - FDS
  - Ultrasonic Inspection
    - Tersonics Setup/Training
  - Destruct Services
- MEXICAN AFFILIATE COMPANY
  NISESA GROUP S DE RL DE CV

All Facets of Project Management, Weld Processing, Robot Programming, Equipment Integration, Field Service, & Trouble-shooting.

www.sdkeng.com

GUGEL PHOTOGRAPHY

Product Photography, Business Portraits and Events

Kristi Gugel
www.gugelphotography.com
C: 248.838.8152
E: kristi@gugelphotography.com
FB: @gugelphotography.com
Safe Weld Water Solutions

WBB – Water Saver Block is a complete condensed water control system providing water shut off, water flow control, temperature and flow indication all in one tight package.

Parker provides custom weld water control solutions including fence panels and robot base units.

For more information visit: www.parker.com/weld
or contact us at: implantauto@parker.com

WRA – Water Retract Actuator allows for SAFE weld tip changes by virtually eliminating water spray when removing a tip. The unit can be used in a stand alone application or in conjunction with robotic weld cell.

WRA not in use

ENGINEERING YOUR SUCCESS.

CUSTOM PRODUCTS, REPLACEMENT PARTS, COMPLETE BUILDS

ANY GLOBAL SPEED... WHEN YOU NEED IT.
CUSTOM ELECTRODES

PRODUCE QUALITY. ALWAYS.

WWW.PLASMO-US.COM

44160 Plymouth Oaks Blvd. • Plymouth, MI 48170 • USA

2147 Kenney
Warren, Michigan 48091
www.welform.com P: (586) 755-1184
F: (586) 755-5639
Gone

By...

Days
**Deitrich Roth** continued from page 2

was supposed to learn everything about the Fixture style resistance welding transformer developed at Kirkhof and bring the knowledge back to Dr. Masing & Co. through a technology transfer agreement in place between the two companies. Instead he met Betty Highhouse who became the love of his life and his wife, never returning to Germany. He rose up through the company ranks becoming the Chief Engineer and later the division General Manager. It is at Kirkhof Manufacturing where he met his future business partner, Robert “Bob” Hofman who together in 1980 started RoMan Manufacturing. They were partners in the truest sense and great friends. The trust they had of each other is rarely replicated in the business world. Bob made Dietrich a better engineer and Dietrich made Bob a better sales person. The legacy they built continues in the second and third generations of the families.

Dietrich became a naturalized citizen of the United States in 1967 and the pride of having the opportunity to become an American citizen overwhelmed his emotions to his last day. Former President Gerald R. Ford, who at the time was the U.S. Representative from Michigan’s 3rd Congressional District was instrumental in Dietrich becoming a citizen. The employees at Kirkhof Manufacturing presented him with a flag in 1967, which he still flew on national holidays. Dietrich was a life member of the American Welding Society, the Resistance Welding Manufacturers Alliance, and was inducted into the Ferris State University Welding Hall of Fame for his contributions to the school’s welding engineering program and to the industry. He is a recipient of the Elihu Thomson Resistance Welding Award. His contributions to the science of resistance welding are numerous and he was a significant contributor to the industry codes and standards authored by the RWMA and published by the American Welding Society. Although the focus of RoMan Manufacturing is the design and manufacture of resistance welding transformers and power supplies, Dietrich’s engineering mastery went well beyond as he truly understood the resistance welding process from the “nugget” back to the electric power sub-station.

He is survived by his wife of 58 years, Betty, their three children, Robert (Marcy), Chris (Jeff), Stephanie (Kyle), and five grandchildren. Dietrich will be greatly missed, but one way his spirit lives on is in the company Bob Hofman and he created.

Details on services are below.

https://heritage lifestory.com/ obituaries/dietrich-roth.129482

---

**Coming Events**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 8-13, 2019</td>
<td>CWI 9-Year Recertification Seminar/Exam</td>
<td>Marriott Detroit Metro Airport</td>
</tr>
<tr>
<td>December 14, 2019</td>
<td>AWS Christmas Dinner</td>
<td>TBD</td>
</tr>
<tr>
<td>January 9, 2020</td>
<td>Focus Hope Open House</td>
<td>Presented by AWS Detroit</td>
</tr>
<tr>
<td>January 28-29, 2020</td>
<td>Metal Stamping and Tool &amp; Die Conference</td>
<td>Presented by PMA</td>
</tr>
<tr>
<td>February 13, 2020</td>
<td>Easom Automation Technical Meeting</td>
<td>Presented by AWS Detroit Patrons Night</td>
</tr>
<tr>
<td>March 12, 2020</td>
<td>Motoman Yaskawa, Technical Night</td>
<td>Presented by AWS Old Timers Night</td>
</tr>
</tbody>
</table>

---

**Patrons**

AET Integration, Inc.
ARO Welding Technologies, Inc.
ATI Industrial Automation
AWS Chair Matching Contribution
CAE Tooling Services Centerline, Ltd.
Changer & Dresser Corp.
Dengensha America Corp.
Forrest Lissner
Fronius USA, LLC
FUSION Welding Solutions
JEC Distributors, Inc.
LUVATA
Matuschek Welding Products, Inc.
Models and Tools, Inc
Obara Corp. USA
Ram Solutions, Inc.
RoMan Manufacturing, Inc.
Scott Pronger
Stäubli North America
The Ohio State University Welding Engineering Alumni
United Technical, Inc.
The most reliable, easy-to-use Gun Changer. Ever.

A more reliable fail-safe. A patented “springless” mechanical fail-safe is guaranteed to work, even with loss of air pressure.

A more reliable locking mechanism. 7,000 pounds of locking force guarantees that signals pass flawlessly, even with heavy accelerations and payloads.

A more flexible utility solution. Widest choice of modules (power, fluid/air, signal, and more) with common mounting features for greater flexibility.

With patented advances in the locking mechanism and failsafe, and new flexible module mounting and integrated robot mounting patterns, we’ve created the most reliable, easy-to-use Welding Gun Changers. Ever.

The QC-210 Welding Gun Changer. The new standard from ATI.

Introducing Reversing MFDC and Fast Rise Time MFDC

Today’s Automotive Café standards are challenging the industry to take weight out of vehicles. To meet these new standards the auto industry is using more Aluminum, Exotic Metals and new High Strength Steel Alloys to replace traditional steel parts. With the development of the Reversing MFDC and the Fast Rise Time MFDC, RoMan is able to offer the auto industry a solution to effectively Resistance Weld light weight materials.

For more information on Reversing MFDC and Fast Rise Time MFDC Power Supplies

Please visit our website at: www.romanmfg.com

RoMan MANUFACTURING

The World’s Most Trusted Source for Resistance Welding Transformers and Power Supplies

Your Single Source For Resistance Welding Value & Support

Dengensha America offers you the most complete line of resistance welding product equipment in the world—including single point projection and spot weld machines, weld guns, automatic nut and bolt feeders, weld controls, transformers, consumables, and spare parts. Training and field service add to our single source support.

Simplicity, reliability and ease of use add to our value.

Call: 440-439-8081
Ask for Steve Andressy
Web: dengensha.com

DENGENSHA AMERICA
Global Leader in Resistance Welding