



News

Winter 2007

MESSAGE FROM THE CHAIRMAN

Dear RWMA members:

I want to thank everyone involved in the strong increase that the RWMA has had in membership since our migration to AWS. I also hope everyone that attended the show in Atlanta, experienced a good response as the attendance was of quality users of resistance welding, as well as potential members to the RWMA.

A special thanks needs to go out to our new past president, Larry Moss, for being the driving force for our change over the past few years. Some of you may not know that Larry accepted the task of staying on past his term, to allow for strong continuity in the transition to becoming part of the AWS. I know of no other individual that could have done a better job. Thank you, Larry.

Since the start of the evaluation process in becoming a part of AWS, we, the members of the RWMA, set goals to be accomplished with the move as building membership/revenue and increasing active participation in our activities. I feel that we have met, as well as setting in place structure for further growth, the membership aspect of our goals, and we now must allocate more of our energies toward building active participation in our new structure.

The RWMA, as a culmination of our membership strengths, has a lot to offer the business world with progressing metal joining around the world. The goal is to set up channels that are easy to use and produce the best benefits in putting these strengths in the market. All of our time is valuable in today's business world, and we must see the fruits of the quality time that we allocate to the RWMA. Please join me in completing our 2004 decision to make the RWMA a new and progressive organization. I welcome all comments and insight, as each idea is a catalyst toward a positive future.

Thank you.

Michael S. Simmons

RWMA MEMBERSHIP DUES

During the RWMA 2006 Annual Meeting held recently in Naples, Florida, the members voted unanimously to increase the RWMA annual dues to \$425. This additional \$25 will go directly to the RWMA Scholarship fund. Your renewal invoice will reflect this amount.

RWMA SCHOLARSHIP

Special thanks to Tuffaloy Products, Inc., for their generous contribution to the RWMA Scholarship Fund.

This scholarship was established in 2005 by the Resistance Welder Manufacturers' Association (RWMA) to perpetuate its legacy of support for welding education. The purpose for this scholarship is to provide financial assistance to those individuals who express an interest in the resistance welding process while pursuing a career in welding engineering.

If you would like to make a contribution to the RWMA Scholarship Fund, please make your checks payable to the AWS Foundation, and be sure to indicate that this money is to go directly to the RWMA Scholarship Fund. Checks can be mailed to: American Welding Society - Foundation, 550 NW LeJeune Road, Miami, Florida, 33126.

2007 RWMA SCHOLARSHIP AWARDEE



Congratulations to Erika Kovach, the 2007 awardee of the RWMA Scholarship.

Erika reported that when she was a child growing up she used to like helping her father out in the garage. He taught her some basic knowledge about tools, cars and power equipment. He knew that careers of the future were moving into technology, so he encouraged her and her brother, Keith, to become involved with technology and to pursue a bachelor's degree.

The first time Erika came in contact with welding was when she was a sophomore in high school. She took an Introduction to Technology class her freshman year. Erika said, "For as long as I can remember, technology has fascinated me, so when new opportunities were presented to me, I jumped in and decided to learn about welding. From the experiences I gained in high school, and from my parents, I knew that I wanted to pursue a technological field. At the time I did not know about welding engineering, so instead I pursued electrical engineering at Kettering University. From my co-op at General Motors, I gained knowledge about welding engineering, and what a welding engineer would do. This sparked my interest, but I was still undecided about changing majors.

My brother decided to major in welding engineering. From conversations with my brother about the welding engineering technology program at Ferris State University, I decided too that welding engineering was for me".

Erika is currently a junior in the Welding Engineering Program at Ferris State University with an overall GPA of 3.497.

RWMA "WORK IN PROGRESS"

An e-mail was sent in mid December, to all RWMA members, looking for experts in the field of Resistance Welding who would volunteer to be on a subcommittee for a Certified Resistance Welding Technician Program. This Certification subcommittee will assist with the development of exam questions and exam components, will beta test the exams, and will develop educational materials for any seminars that will be offered in conjunction with or apart from the exams, as well as other things needed to make this Program a success. Thank you to those who have stepped forward for this undertaking. Updated information on this Program will be available in future Newsletters.

RWMA WELDING SCHOOL IN ATLANTA



The RWMA Welding School was held November 1-2, 2006, in the Georgia World Congress Center, in Atlanta, GA.

A special thanks to Bill H. Brafford, Chair of the Welding School Subcommittee, Bruce G. Kelly, Vice-Chair, plus Don Sorenson, Kurt Hofman, Tim Foley, and Bob Matteson, for the all-around success of the two-day resistance welding school, which is sponsored by the American Welding Society and the Resistance Welding Manufacturing Alliance. The RWMA Welding School had a great turnout with 67 attendees.

AWS acknowledges all of the RWMA Welding School Instructors for their contribution and dedicated hard work in developing this successful program. The RWMA Welding School Instructors are leading industry experts.

The overall consensus from the Welding School attendees was positive. They felt that their expectations had been met. Below are some of the comments from the post-Welding School evaluation forms:

- I will recommend that more people from my office attend.
- Both the Resistance Welding Manual Fourth Edition and 3-Ring binder containing all the presentations with pictures, a big plus!
- I really enjoyed the class example on XL with the live demo on the secondary loop.

- Excellent intro/intermediate content/well presented.
- The class was excellent.
- Very useful for someone like me who is new to resistance welding.
- Material was very good.
- The Instructors were very knowledgeable.
- The program remained on track, very busy, and very informative.
- Enjoyed the Tabletop Exhibits; Great exhibits; Keep up the good work.



The RWMA Welding School Evening Reception was held Wednesday, November 1st, 2006, from 5:00 to - 6:30 p.m. There were ten tabletop exhibitors: (Huys Industries; Resistance Welding Machine and Accessory; Miyachi Unitek Corporation; CMW Inc.; The Taylor-Winfield Corporation; Resistance Welding Manufacturing Alliance; Unitrol Electronics, Inc.; CenterLine (Windsor) Limited; Tuffaloy Products, Inc.; and NSRW, Inc. These exhibitors presented the attendees with the opportunity to ask questions on company products on display. Attendees exchanged business cards and took valuable information back with them, as well as enjoyed the exhibits. Complimentary house drinks and hors d' oeuvres, were served.

The next two-day RWMA Welding School is scheduled for November 13-14, 2007, to be held during the 2007 FABTECH International & the AWS Welding Show, in McCormick Place, Chicago, Illinois. These same instructors will provide you with the information on the basics of resistance welding and real-life application of the processes. As an attendee you will have a chance to learn at your own pace, and discuss specific welding concerns with the instructors. Bring your own samples for discussion. If you would like more information on the 2007 RWMA Welding School, either for attendance or to have a tabletop exhibit, contact Gladys Santana at 800-443-9353, ext. 223.

RWMA BOOTH AT FABTECH INTL. & AWS WELDING SHOW



From Left, Patricia Adams (ENTRON Controls, LLC), Mark Gramelspacher (CMW Inc.), Barbara Munderloh (Brush Wellman), Susan Hopkins (RWMA Program Manager)

Thank you to all those individuals who took time out of their busy schedule to volunteer at the RWMA Booth at the 2006 FABTECH International & AWS Welding Show held in Atlanta, Georgia, October 31 - November 2. Volunteers from RWMA member companies Athena Plus, CenterLine, CMW, Miyachi Unitek, RWC, ENTRON Controls, Banner Welder, Tennessee Rand, Unitrol Electronics, and NSRW helped out with their time and expertise at the booth. It was a very successful show.

Also, congratulations to John Inscho, President of Fusion Welding Solutions, for winning the copy of the *Resistance Welding Manual* from the drawing held at the booth. His business card was pulled out of the "fishbowl" at the conclusion of the Show.

RWMA PUBLICATIONS



RWMA publications and bulletins can be purchased through World Engineering Xchange Ltd. (WEX). You can call them directly at 1-888-WELDING or e-mail your orders to orders@awspubs.com. You can also order them through the RWMA website at www.aws.org/rwma.

MEMBER NEWS

TUFFALOY PRODUCTS HIRES NEW MANUFACTURING/FACILITIES MANAGER

As of October 30, 2006, Dennis Baker has joined the Tuffaloy staff as the new Manufacturing/Facilities Manager. With Dennis' past relations with Dunlop as Director of Operations for a Greenville, South Carolina, support operation, he will be an integral part of our future. This is combined with his experience as a Senior Materials Manager for a start-up firm and Organizational Development Specialist for Texas Instruments.

*Michael Simmons
Tuffaloy Products, Inc.*

AS9100 CERTIFICATION

Ansonia Copper & Brass, Inc., became certified to AS9100 for Aerospace products in June 2006

*Jeff Lawlor
Ansonia Copper & Brass, Inc.*

24/7 REPAIR SERVICE EXTENDED TO ALL PRODUCT LINES

In order to better support our growing customer base, and with the mission to provide world-class support for all our customers and product lines, Miyachi Unitek is pleased to announce the extension of its 24/7 repair service and support to cover not only laser welding and marking, but also resistance welding, hot bar bonding, and hermetic sealing. As of November 1, 2006, the following number should be used to contact Miyachi Unitek repair field service: 24/7 Repair Service Phone Number — 1-866-751-SERV (7378)

*Ivonet Gomez
Miyachi Unitek Corporation*

MIYACHI UNITEK RELEASES NEXT GENERATION WELD MONITORS

Miyachi Unitek announces the release of its next generation weld monitors, MM370 & MM380. The machine mounted MM370 builds on the success on the MM326, with increased capability and new features. The hand-held MM380 has been designed to provide quick, precise, and comprehensive measurements of the weld process.

Both monitors feature a 5-inch color display that provides precise graphical displays of waveform time and amplitude, in addition to numeric peak and average values. The MM-370 measures current, voltage, force and displacement and is capable of setting limits and configuring comprehensive machine I/O. The hand held MM-380 utilizes a weld-through sensor, which measures current, voltage and force simultaneously between the electrodes. Waveforms and data can be output through a built-in printer (standard on the MM370 and optional on the MM380), or via a COM port for screen capture and data collection. Both monitors can measure single phase AC, DC, and AC inverter weld controls.

*Ivonet Gomez
Miyachi Unitek Corporation*

HUYS INDUSTRIES, THE NEW NORTH AMERICAN DISTRIBUTOR FOR AICHI SANGYO COMPANY LTD., OF JAPAN

Huys Industries is pleased to announce it has become North American distributor for Aichi Sangyo Company Limited of Japan. Their line of products includes the renowned single-sided spot welding machines, highlighted by Dr. Cho of Hyundai, at the most recent Sheet Metal Welding Conference in Detroit. This product allows for the rapid, inexpensive joining of difficult and complex welds, such as multiple stack-ups to closed hydro-formed boxes, with less complicated guns, and significantly reduced tooling and fixturing costs — with yet higher production rates. Aichi Sangyo also has advanced active control welding technology and unique seam welding technologies. For further information, please contact Nigel Scotchmer at (416) 747 1611 or nscotchmer@huysindustries.com.

*Nigel Scotchmer
Huys Industries, Inc.*

H&H RESISTANCE WELDERS PROMOTION

Congratulations to Casey Cloud who has been promoted to President of H&H Resistance Welders. Casey has been with H&H for eleven years and has designed many of the special application welders we manufacture.

*Diane Hodge
H&H Resistance Welder*

KOOLANT KOOLERS & SCHREIBER ENGINEERING UNDERTAKE NEW MERGER

Koolant Coolers and Schreiber Engineering have merged to form Dimplex Thermal Solutions (DTS), a subsidiary of the Glen Dimplex Group. With the merger, DTS has the ability to manufacture and ship chillers from both the Michigan facility and the California location and includes a service and support network that extends from North America to Europe and parts of Asia. Under the brands of Koolant Coolers and Schreiber Chillers, DTS will continue to provide standard and custom chilling solutions for a variety of market segments, including: industrial, medical, plastics, food processing, pharmaceutical, and semiconductor & electronics.

*Denise Klaren
Dimplex Thermal Solutions (Koolant Coolers and Schreiber Engineering)*

NEW MARKET MANAGER FOR DIMPLEX THERMAL SOLUTIONS, KOOLANT KOOLERS BRANCH

The Koolant Coolers branch of Dimplex Thermal Solutions would like to announce the addition of Danny Thomason into the role of Market Manager. Danny had been serving with the California-based Schreiber Engineering until becoming the new manager of the industrial market in Michigan at the Koolant Coolers facility. Danny brings years of experience with him, and we are pleased to have him become a major part of the DTS team.

*Denise Klaren
Dimplex Thermal Solutions (Koolant Coolers and Schreiber Engineering)*

NEW WELDING MARKET MANAGER AT CMW

CMW Inc. is pleased to announce that Jennifer Sniderman recently accepted the position as CMW Metals Market Manager. Jennifer is grateful for the kindness, support, and generosity shown by the RWMA family during her time as CMW Welding Market Manager.

We are also very pleased to announce that Bill Love accepted the position as CMW Welding Market Manager. Bill has been a CMW Welding Account Manager and is looking forward to his new leadership role in the organization and in the resistance welding industry.

CMW is recruiting for both an Account Manager as well as Inside Sales/Customer Service Specialist position in its Welding Business Unit. Referrals, recommendations, and/or resumes are much appreciated.

*Jennifer Sniderman
CMW Inc.*

CMW APPOINTS DAVID KOGAN VP OF OPERATIONS

Mark Gramelspacher, President and CEO of CMW Inc., is happy to announce that David Kogan joined the firm as Vice President - Operations. Mr. Kogan's responsibilities involve managing all business operations, including manufacturing, supply chain quality, process engineering and human resources.

*Erica Mason
CMW Inc.*

APEX CONTROLS MOVES TO NEW LOCATION

APEX Controls, Inc., is consolidating facilities and moving to a new location in January 2007. Sustained growth over the company's 15-year history has created the need for a new 12,000-sq.-foot facility. This move will allow Apex Controls to consolidate Controls Engineering, Resistance Welding Components, Panel Building and Machine Wiring functions in one building. APEX is committed to its employees and community and will remain in West Michigan in the city of Hudsonville, continuing to effectively serve its local customers. The consolidation and expansion also provides the opportunity for continued growth in the Automation and Welding Industries. APEX Controls will be located at 3566 Highland Drive, PO Box 118, Hudsonville, Michigan 49426. Their phone number is 616-669-5111 and their Fax number is 616-669-8115. Visit their website at www.apexcontrols.cc.

*Matt Post
APEX Controls, Inc.*

DID YOU KNOW?



The 4th International Seminar on Advances in Resistance Welding was held November 14-16, 2006, in Wels, Austria. This three-day conference, held every two years, is dedicated to advances in resistance welding, and has had, to date, a distinctly European flavor. The previous conference, held in Berlin, Germany, in 2004, had only one North American paper, which was from Huys Industries. This year, there were five North American papers; from GM, Honda EGA, Magna International, the University of Waterloo and Huys Industries. There were over 70 participants from over 50 companies and 17 countries in attendance.

This year's presentations concentrated on how to resistance spot weld "unweldable" alloys, such as aluminum to coated steels, as well as how to lengthen electrode life and at the same time improve and track weld quality through the use of computers and vision systems. In addition, the understanding and management of the microstructure of the new and emerging advanced high strength steels (AHSS), during and after welding, was a topic explored in several papers. Many suggest that the Europeans are farther ahead in the use of a wide range of AHSS, as well as their adoption of servo controls, and other innovative solutions to complex welding problems, than we are. Two such interesting topics introduced were deformation resistance welding of aluminum between two sheets of steel and resistance stud welding of dissimilar strength steels. They sound like simple and innovative solutions, but they could be tricky to implement.

Since the 5th International Seminar on Advances in Resistance Welding in 2008 will be held for the first time outside of Europe, in nearby Toronto, Canada, it would be great if we members of the RWMA could put together a technically strong program to show how many advances in resistance welding are occurring in here in North America, as well! A call for papers will be issued shortly. For more information, please contact nscotchmer@huysindustries.com.

2006 ELIHU THOMSON RESISTANCE WELDING AWARD



Congratulations to Sanford L. Lee, the 2006 recipient of the Elihu Thomson Resistance Welding Award. This Award is presented annually to a living individual who has made an outstanding contribution to the technology and application of resistance welding.

Dr. Damian J. Kotecki, AWS President, presented Mr. Lee his Award at the AWS Awards/AWS Foundation Recognition Ceremony and Luncheon on Tuesday, October 31, 2006, at the Georgia World Congress Center, Atlanta.

RWMA 2007 MEMBERSHIP DIRECTORY



The 2007 edition of the RWMA Membership Directory will be available in January. Copies will be sent to all RWMA members. If you desire additional copies of the Directory, please contact Susan Hopkins, RWMA Program Manager, at 800-443-9353, ext. 295, or e-mail her at susan@aws.org. This directory will also be available online at www.aws.org/rwma.

RWMA SPRING MEETING

MARK YOUR CALENDARS! The RWMA Spring Meeting is scheduled for May 16-18, 2007 in York, Pennsylvania. This meeting will include a tour of the Harley-Davidson Plant, which was rated the number one tour by *USA Today*. The hotel has not yet been confirmed. As soon as more details are available, you will be notified, and they will be listed on the RWMA website.

WELCOME TO OUR NEWEST RWMA MEMBERS

Autotool, Inc., is a leading supplier providing one source for robotics, tooling and automation needs. Autotool specializes in design, fabrication and integration of robotic systems for various processes, including resistance welding, ARC-welding, material handling, vision and inspection. Autotool offers the advantage of complete system integration with in-house capabilities, including mechanical design, electrical design, fabrication, assembly, metrology and installation. Visit their website at www.autotoolinc.com.

Cassimus Company, founded in 1937, has provided distribution and support throughout the Western U.S. for many quality RWMA manufacturers, while simultaneously offering a complete consumables inventory, rebuilding, upgrading, and integration, encompassing all classifications of resistance welding. Manufacturers of custom application multi-gun and cascade resistance welding machines, and serving appliance manufacturers throughout the wine and beverage industry. Cassimus specializes in automatic arc weld systems and controls, including turn-key Robotic arc and spot welding cells. Complete parts, service, consumables and consultation available. Visit their website at www.cassimus.com.

Fusion Welding Solutions is a full-service engineering service company that provides engineers at their customers' facilities, as well as supporting resistance, arc, and metallurgical laboratories. Visit their website at www.fusionwelding.com.

SEEDORFF ACME Corporation has manufactured quality production resistance welding machines and equipment in Los Angeles, California, since 1918. Machine types include: rocker arm, press/projection, seam, butt, portable gun, trans-gun, miniature gun, multi-spot, cross wire panel/truss, special application (semi-automatic or full-automatic), and reconditioned-to-new machines. Available in single-phase AC, secondary-rectified DC, and medium-frequency inverter DC. They serve the automotive, aerospace, sheet metal, HVAC, wire, construction, office furniture, appliance, electronics, nuclear, and U.S. Government industries. Visit their website at www.seedorffwelders.com.

Shanghai Mountain Welding Industries Co., Ltd., was founded in 1992, with headquarters based in Shanghai. Boasting a large number of welding experts, The company features varieties of welding equipment designed and developed by experts with academic background in America and Russia that helped the company accelerate its transformation of technology into productivity.

Shanghai Mountain, Ltd., offers turnkey solutions for welding applications: spot, seam, butt, flash, projection welders, portable gun welders, three-phase DC welder, special welder for shock absorber, wheel rims, back bridges, transmission shaft, brake scotch for automobile and flash welder for rails. Visit their website at www.mtwelder.com.

Tec-Option builds patented Modular Resistance Welding Systems and tooling, and provides engineering support services for these products. Visit their website at www.tec-option.com.

2007 CALENDAR OF EVENTS

<p>January 31 - February 1, 2007</p> <p style="text-align: center;">NATM (National Association of Trailer Manufacturers) Disney's Coronado Spring Resort Orlando, Florida</p>	<p style="text-align: center;">March 13 - 15, 2007</p> <p style="text-align: center;">Expo Manufactura Cintermex, Monterrey, Mexico www.expomanufactura.com.mx</p>	<p style="text-align: center;">March 15 - 17, 2007</p> <p style="text-align: center;">ITEA (International Technology Education Association) Annual Conference & Expo San Antonio, Texas</p>	<p style="text-align: center;">March 26 - 29, 2007</p> <p style="text-align: center;">WESTEC Exposition & Conference Los Angeles Convention Center Los Angeles, California www.sme.org</p>
<p style="text-align: center;">April 18 - 21, 2007</p> <p style="text-align: center;">NASCC: The Steel Conference Ernest N. Morial Convention Center New Orleans, Louisiana www.aisc.org</p>	<p style="text-align: center;">May 7 - 10, 2007</p> <p style="text-align: center;">AISTech (Iron and Steel Technology) Conference & Exposition Indianapolis, Indiana</p>	<p style="text-align: center;">May 16 - 18, 2007</p> <p style="text-align: center;">RWMA Spring Meeting York, Pennsylvania</p> <p style="text-align: center;">More information to come www.aws.org/rwma</p>	<p style="text-align: center;">May 22 - 24, 2007</p> <p style="text-align: center;">EASTEC 2007 West Springfield, MA Eastern States Exposition www.sme.org</p>

RWMA MISSION STATEMENT

The mission of the RWMA Committee of AWS is to advance resistance welding technology, broaden its use, and promote its economic benefits.

ANYTHING TO ADD?

If you have news for us, we'd be glad to print it. Send a copy of the information in electronic format to susan@aws.org, and we'll make sure it gets in the next issue.

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