

## MESSAGE FROM THE CHAIRMAN

Dear RWMA members:

I am sure each of you, like me, is looking forward to the upcoming show in Las Vegas, Nevada, this year. It is a change in venue, as well as our business environment, that has shown very little positive direction over the past year. Change presents challenges that require long-term planning to take advantage of future opportunities. RWMA is no different, with the changes in our leadership coming in the Annual meeting, October 23-25, 2008, in Howey-in-the-Hills, Florida. New personnel bring with them a different view on the structure and ideas that will reshape RWMA. As we keep our focus on a single goal and discard those tasks that do not help us in becoming number one, RWMA, along with AWS, will be a world leader.

I look forward to seeing you at the Annual Meeting.

*Michael S. Simmons*

RWMA Chair

## RWMA 2008 ANNUAL MEETING



You won't want to miss out on the RWMA 2008 Annual Meeting. Join us October 23 - 25, 2008, at the beautiful Mission Inn Resort and Club located in Howey-in-the-Hills, Florida, in Lake County, 35 minutes northwest of Orlando and area attractions.

RWMA has consistently brought together unmatched industry presence and experience to its meetings, and this year will be no exception. This meeting will be filled with many opportunities to visit with your fellow industry colleagues, as well as to be part of the workgroups and other committee meetings.

Forge and grow business relationships. Grow your business knowledge through interactive discussions. Network with leaders in the Resistance Welding Industry.

Mission Inn Resort & Club is located in the gentle hills of Lake County, considered the central highlands of the state, and has long been noted for its scenic beauty, relatively mild climate, and as one of the world's major vacation destinations.

This area is a boater's dream with 1,400 lakes. Lake Harris alone is a 13,788-acre fresh water lake, and through a network of locks, canals and lakes, provides boaters with access to the Atlantic Ocean.

RWMA has secured the special group rate of \$155 per night, plus a \$12 per night resort fee. To register for the 2008 Annual Meeting, or to receive more information, contact Susan Hopkins at [susan@aws.org](mailto:susan@aws.org), or log onto [www.aws.org/rwma](http://www.aws.org/rwma).

## RWMA SCHOLARSHIP RAFFLE



Congratulations to Tom Snow, President of T. J. Snow Company, winner of the third RWMA raffle. Tom's prize was a beautiful leather Corvette Racing Jacket. Over \$1500 was raised to help support the RWMA National Scholarship Fund as a result of this raffle.

The original RWMA scholarship was established in 2005 by the Resistance Welder Manufacturers' Association (RWMA) in an effort to continue its legacy of support for welding education. The second scholarship was established in 2007. The purpose of these scholarships is to provide financial assistance to those individuals who express an interest in the resistance welding process, while pursuing a career in welding engineering.

As of June 2008, more than \$7300 has been raised.

## RWMA MACHINE PLATES

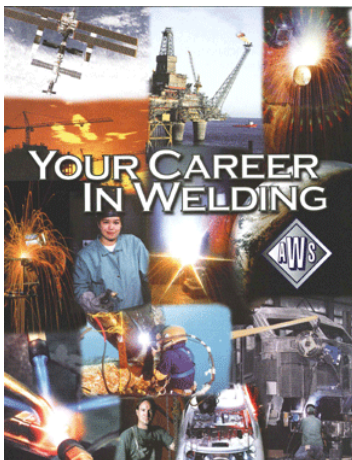


RWMA members may purchase Machine Plates, displaying their association with RWMA. These plates measure 3 ¼" X 2". They are sold in sets of 25, at \$25.00 per set. To request an order form, contact Susan Hopkins at [susan@aws.org](mailto:susan@aws.org), or call 800-443-3953, ext. 295. These are only available to RWMA members for their use on equipment they produce.

## RWMA LOGO

As an RWMA member, we hope you are displaying the RWMA member logo on all your company's promotional material. To request a logo sheet, contact Susan Hopkins at [susan@aws.org](mailto:susan@aws.org).

## AWS CAREER GUIDE



AWS has published a new welding career guide, *Your Career in Welding*, and it is available free to students, teachers, guidance counselors and parents. The AWS welding career guide is being offered on the AWS website at [www.aws.org](http://www.aws.org). As an industry resource and recruitment tool, the guide features general information about welding and AWS, industry success stories, AWS scholarships, student chapter information, and details about a range of welding careers and entryways into the industry.

The various career choices and pathways featured in the guide present information on typical work environments and career demands. Welding careers highlighted are welding engineer, underwater welder, welding salesperson, welding technician, welding educator, and welding machine operator.

To view your free welding career guide, please visit the AWS website at [www.aws.org](http://www.aws.org) and click on the tab marked "careers." Requests for printed copies can also be made by calling 800-443-9353, ext. 248, or via e-mail at [weldingcareers@aws.org](mailto:weldingcareers@aws.org).

## "COMMITTEE WORK IN PROGRESS"

**J1 Committee.** Now that David Beneteau has completed his term as Detroit Section Chair, he is going to focus his efforts on advancing the work plan of the AWS J1 Committee on Resistance Welding Equipment. Revised working drafts for the active AWS J1 projects will be sent to the Task Group members early in September. Virtual meetings will then be used to resolve any issues so that the draft can be moved through the approval process.

The active projects of the AWS J1 Committee include:

- J1A - Specification for Resistance Welding Controls (planned to supersede RWMA Bulletin 5)
- J1B - Guide to Installation and Maintenance of Resistance Welding Machines (planned to supersede RWMA Bulletin 14)
- J1C - Resistance Welding Pocket Handbook (planned to supersede RWMA Quickie Reference)

Anyone interested in participating in any of these Task Group activities should contact J1 Secretary, Annette Alonso by phone (800-443-9353 x299) or e-mail ([aalonso@aws.org](mailto:aalonso@aws.org)).

**C1 Committee.** The next C1 meeting will take place on Friday, September 26, 2008, in Toronto, Canada, in conjunction with the 5th International Seminar on Advances in Resistance Welding (Sept. 24-26, 2008).

For more information on the C1 committee, please contact the C1 Secretary, Annette Alonso, by phone (800-443-9353 x 299), or e-mail [aalonso@aws.org](mailto:aalonso@aws.org).

If you are interested in joining the C1 committee, submit an online technical committee membership application using the following link: [http://www.aws.org/w/a/survey/standard?survey\\_start=techapplication](http://www.aws.org/w/a/survey/standard?survey_start=techapplication).

**CCRW Subcommittee.** The CCRW Subcommittee will be meeting in conjunction with the RWMA Annual Meeting on Thursday, October 23, 2008, in Howey-in-the-Hills, Florida, at the Mission Inn Resort & Club. If you would like to volunteer for this Committee, contact Frank Lopez del Rincon, CCRW Secretary, at [flopez@aws.org](mailto:flopez@aws.org).

## RWMA PUBLICATIONS

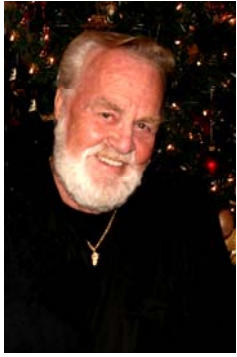


RWMA publications and bulletins can be purchased through World Engineering Xchange Ltd. (WEX). Call 1-888-WELDING, or e-mail your orders to [orders@awspubs.com](mailto:orders@awspubs.com). You can also place orders through the RWMA Web site at [www.aws.org/rwma](http://www.aws.org/rwma).

## RWMA REPRESENTED AT THE AWS DETROIT SHEET METAL WELDING CONFERENCE XIII

RWMA membership packets and directories were distributed during the AWS Detroit Sheet Metal Welding Conference XIII Vendor Display Event in Livonia, Michigan, on May 15th. David Beneteau of CenterLine and Mary Ruth Johnsen of AWS staff shared time at the AWS display table throughout the evening. Holly Stevens of FlexCable distributed packets to potential RWMA members in attendance at the exhibition. The RWMA contributed a *Resistance Welding Manual* and an *AWS Welding Handbook* for the business card drawing. Don Maatz of RoMan Engineering Services was the lucky recipient of the RWMA Manual, and Don Grisez of Dengensha America was the winner of the *Welding Handbook*.

## ROBERT (BOB) WHITE, JANDA COMPANY



RWMA was very saddened to learn of the loss of one of its longtime members, Robert (Bob) White, President of Janda Company, Inc., in Corona, California. Mr. White passed away at his home on June 28, 2008, at the age of 72.

White joined the Merchant Marine at the age of 14. He joined the U.S. Navy at the age of 17, where he served as a chief electrician in the submarine service.

White founded Janda Company in 1960, where he manufactured more than 3,000 custom-designed resistance welding machines for the U.S. government, and the aerospace, building, wire products, and sheet metal industries. He became a leading authority on resistance welding machines and technology.

White also assisted the U.S. government and aerospace industries in research and development of highly specialized resistance welding processes and equipment.

The Resistance Welder Manufacturers Association (RWMA) recently gave him its prestigious Elihu Thomson Award for his lifetime achievements. He was also recently honored by Lockheed Martin with an award for his dedication and significant contributions to a program of great national importance.

Bob White is survived by his wife of 50 years, Janet; daughters, Sheryl Dreiling and Rhonda Burton; a son, Robert Jr.; a sister, Anne Seagraves; a brother, George; eight grandchildren and eight great-grandchildren.

## ALAN (AL) KENNEDY, HUYS INDUSTRIES, LTD.



In another great loss for RWMA, Al Kennedy, Sales Manager for Huys Industries, Ltd., passed away unexpectedly on June 15, 2008, at the age of 59, while vacationing with his family in San Diego, California. Al was Vice President of Huys Industries, in Windsor, Ontario, Canada.

Kennedy was one of the original founders of Huys Industries, and one of the first to recognize the ability of the electric spark deposition process to lengthen electrode life on coated steels with titanium alloy coatings. He worked as a welding engineer for Chrysler for 15 years before investing in and building Huys Industries nearly 20 years ago.

He is survived by his wife of 38 years, Susan; daughters, Kristen, Carol and Colleen; son, Geoffrey; sister, Ina; brothers, James and Donald; and five grandchildren.

## UNIQUE HISTORY OF FEDERAL WELDER AND MACHINE COMPANY

*Story by Larry Moss  
Automation International  
Danville, Illinois*



Automation International, Inc., is a compilation of three former well-known resistance and arc welding companies. Federal Welder and Machine Co., originally from Warren, Ohio, Berkeley-Davis, Inc., Danville, Illinois (home of Automation International), and Swift Ohio, originally of Kenton, Ohio. All three companies have a long history in the resistance welding field, especially "Federal" dating back to the early 1900's. As a history buff, I have always been intrigued about the history of these companies, and was very fortunate to have known and worked with key individuals of all three companies in the last 35 years. I felt I had a good general background of all three companies from archives and early discussions. Notably, Federal Welding and Machine Company, was actually formed by a group of metalworking manufactures to challenge the restrictive patent that Elihu Thomson had on the resistance welding process, and the former British

Federal was originally a UK representative of Federal Welder and Machine Company early on. Federal participated in the war effort in 1942 by building 540 M4A2 Sherman tanks, but the biggest surprise was the day I received a call asking if we still carried parts for the US Trac model 10A Bulldozer built by Federal. We are proud of our archives, and proceeded to tell the caller he was mistaken, and then found that he had done his homework when he emailed me photos. Sure enough, it was the same Federal welder data plate that was used on all of their resistance welders! As the story goes, in 1942, the War department was looking for a very small track bulldozer (3 feet wide, 4-foot blade), that could be either pushed out the door of a C-47, or put in a glider. They found a close design, set up new specifications, and started the "Clark Airborne" CA-1 production with two companies. Thousands of these were built from 1942 through 1944. At the conclusion of the war, Federal purchased the rights to this little dozer and set it up as US Trac. Over 500 were built at Federal in Warren, Ohio, until around 1949 when production was sold to another company and it was renamed Terratrak. Subsequently this company was sold to JI Case and this little dozer became the spring board for JI Case small dozers. John Sant, who started with Federal Welder around 1950, (along with Emmet Craig), recalls Federal got into financial trouble with this venture, sold it off and decided to stick with resistance welders. Both the Clark Airborne and Federal US Trac bull dozers are out there as collectable restorations.



## A MUST READ



Take the time to pick up the July 2008 issue of the *Welding Journal*, and turn to page 32. One of our RWMA members, Kevin Chan, Technical Director at Huys Welding Strategies, wrote a feature article titled, "Save Time and Money with Resistance Welding Simulation Software."

## FABTECH INTERNATIONAL & AWS WELDING SHOW

The FABTECH International & AWS Welding Show will be held October 6 - 8, 2008, in Las Vegas, Nevada, at the Las Vegas Convention Center. The entire Show will cover over 400,000 square feet of exhibit space, and approximately 900 companies will be exhibiting. The Welding portion of the Show alone has over 500 exhibitors and 174,000 square feet.

RWMA will be one of those exhibitors. Come visit the RWMA booth #10251. Besides promoting RWMA, the booth will supply handouts listing each RWMA member company exhibiting at the Show and their booth number, as well as any RWMA member company whose products are being shown by other companies with their booth number. The RWMA Membership Directories will also be available at the booth.

**VOLUNTEERS NEEDED.** RWMA is looking for some of its members to volunteer to help man the booth. Your expertise in providing industry insight and technical assistance to prospective members and interested show attendees is needed. This booth is intended for the promotion of the Committee and the resistance welding process. Won't you help out for a couple of hours? If you are available, contact Susan Hopkins, RWMA Program Manager at [susan@aws.org](mailto:susan@aws.org), or call 800-443-3953, ext. 295.

## RWMA WELDING SCHOOL IN LAS VEGAS



The Emmet A. Craig Resistance Welding School is being held in Las Vegas, Nevada, October 7 and 8, 2008, at the Las Vegas Convention Center.

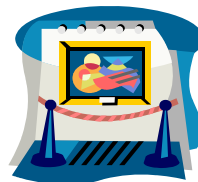
This is the only resistance welding school sponsored by the voice of the industry, the RWMA. Each program session is prepared to offer every participant a thorough knowledge of resistance welding. Actual demonstrations and hands-on participation using a classroom welding machine and other auxiliary equipment aid tremendously in the learning process.

This intensive 2-day course about the basics of resistance welding is offered once a year. The school is designed to give operators, production supervisors, engineers, and others the opportunity to study, better understand, and further their knowledge in the theory, applications, and equipment used in the resistance welding process. This intense learning atmosphere will better prepare the unfamiliar and further educate the experienced.

For more information on this school, contact Natalia Lopez de Quintana at [nlopez@aws.org](mailto:nlopez@aws.org).

## RWMA WELDING SCHOOL TABLETOP EXHIBIT

RWMA members will have the opportunity to exhibit at the Emmet A. Craig Resistance Welding School. This year, the tabletop exhibit will be held during the school's lunch hour both days. This is a perfect opportunity to network with students, welders and industry customers, or potential customers, one-on-one. The opportunity to exhibit is open only to RWMA members.



The fee for a tabletop exhibit during this two-day event is \$350. Space is limited, so reserve yours today! Contact Natalia Lopez de Quintana at [nlopez@aws.org](mailto:nlopez@aws.org), or 800-443-9353, ext. 213.

As an exhibitor at the welding school, you'll have the unique opportunity to talk directly to decision-making professionals. You'll market your products and services to a captive audience of buyers, technicians, engineers, who are seriously looking at Resistance Welding as a business solution. As an exhibitor, your company can tap into this growth potential and meet the market's decision-makers.

## AWS ONLINE FORUMS

Did you know that AWS has online forums? These live, interactive forums on the AWS website at [www.aws.org](http://www.aws.org) are your virtual sounding board to the wide world of welders. It provides a fast and easy way to exchange ideas, post questions, share insights and get tips and advice on everything welding.

There is no limit to what you can learn on the forums. Everything from inspection questions to new jobs to advice on equipment and consumables to local events are posted. It is the one place where welding professionals from near and far can get together for a chat or even a good laugh.

Don't miss out on the action. Join the forums at [http://www.aws.org/cgi-bin/mwf/forum\\_show.pl](http://www.aws.org/cgi-bin/mwf/forum_show.pl).

## MEMBER NEWS

### CMW Appoints New Welding Sales Manager



CMW Inc. announced that it promoted Jeff Schemel to Welding Sales Manager. Mr. Schemel's responsibilities involve managing all sales, service and application engineering functions of its resistance welding business. This includes formulating sales plans and strategies to grow sales and market share for CMW brand product as well as managing CMW's industry-leading network of Authorized Welding Distributors.

Mr. Schemel most recently served as a Major Account Manager in the welding business, developing plans and implementing sales strategies for the new CMW<sup>®</sup> Fin Cap and Elkaloy<sup>®</sup> 20 welding electrodes. He is a native of Rockford, Illinois, and graduated from Illinois Wesleyan University in 1992 with a B.S. in Business Administration.

CMW is very excited about the contributions that will be made by its expanded leadership team. You can reach SchemelJeffrey directly at [jschemel@cmwinc.com](mailto:jschemel@cmwinc.com).

*Submitted by Sharonda Griffin  
CMW Inc.  
Indianapolis, Indiana*

## Dengensha America Corporation Welcomes Two New Sales Representatives

Dengensha America Corporation, welcomes Paul Sheibels as Sales Representative for the Midwest Region. In this capacity Mr. Sheibels' responsibilities include managing sales and service for the region.

Mr. Sheibels most recently served as a Sr. Account Manager for the Henkel Technologies, which is a large global industrial chemical company. Mr. Sheibels spent 18 years with Henkel Technologies in different capacities ranging from Senior Sales/Service Representative to Sales Manager for the Lubricant Division. While at Henkel Technologies Mr. Sheibels earned numerous sales awards for all his hard efforts.

He brings a wealth of knowledge, from making sales calls to running and managing a region. You can contact Mr. Sheibels at [psheibels@dengensha.com](mailto:psheibels@dengensha.com).



Dengensha is also please to welcome Jeff Renaud of Weltex Robotics to its team as the Canadian Sales and Service Representative. Mr. Renaud has 13 years experience in automated welding and manufacturing in Southern Ontario. He brings with him a variety of application experiences, strong customer service and problem solving skills. Mr. Renaud can be contacted at [jeff@weltexrobotics.com](mailto:jeff@weltexrobotics.com).

Dengensha America is very excited about the contributions to be made by the expanded leadership team.

## Three New Dealers for Dengensha's Welders and Feeders

- Process Development Company, Dayton, Ohio
- S. J. Smith Company, Davenport, Iowa
- NSRW, Inc., Pelham, Alabama

## Dengensha America Introduces Three New Products

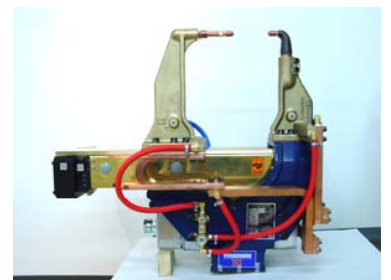
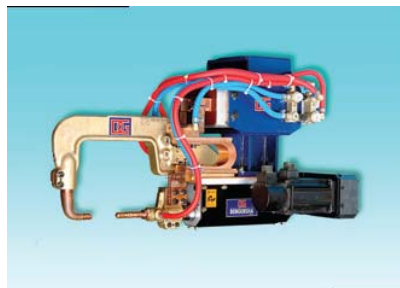
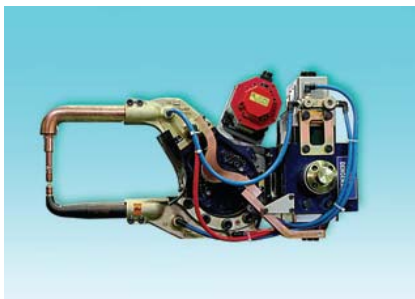
### NDX Series Stationary Spot Welder

- Manual and robotic Spot and Projection welding applications.
- Available in 50, 70 and 100 KVA ratings.



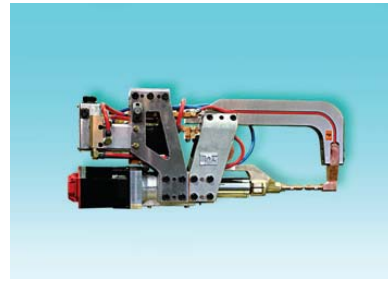
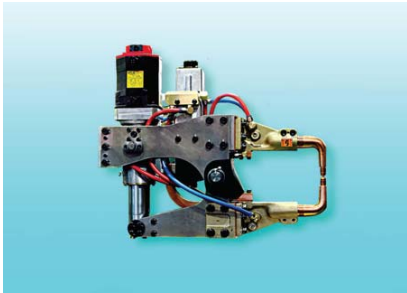
### Servo Guns - MFDC

- Linear Guide S-Type C-Gun
- Reduction Gear Type X-Gun
- Linear Motion Guide - X-Gun



### Lightweight Compact Gun

- Lightweight C-Type Gun (NCG)
- Lightweight X-Type Gun (NXG)
- Lightweight Aluminum Body
- Lightweight MFDC Transformer
- Utilize Smaller Load Capacity Robots



*Submitted by Stephen Andrassy  
Dengensha America Corporation  
Bedford, Ohio*

### ENTRON Controls, LLC., Announces EN1721 Series Single Phase AC Constant Current Controls



The EN1721 offers a weld control complete with Spot, Pulsation or Seam Sequence with programming options of Slope, PreHeat, Quench, Temper, Post Heat, External Schedule Select, Event and Error Outputs, 64 programs, Repeat/Non-repeat, Isolation contactor timer, Single or Dual Gun programming, programming in phase angle of kA or %, measurement log, Dual Gun Stepper with presets and Tip Dress Counter, 24 VDC flexible I/O (14 in 12 out); I/O Sequencer, 4-20 mA or 0-10 V analog inputs and output, pressure sensing and control; Program Select; Retraction and Dual-interval Welding Sequence.

Control adjusts current output every half cycle; no learning necessary for constant current operation; High, Low and Preset Limits; secondary amps are directly displayed; Manual calibration via 2 set points for secondary coil; Pop-up current meter to assist programming; Auto secondary coil test; and results of last weld available immediately.

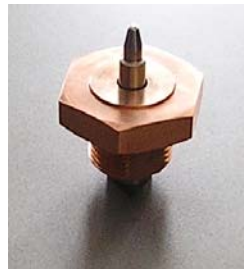
Options available are RPP1 (detachable 4 x 20 LDC Program Pendant with data backup; ENLINK 1721, Communication software for PC interface for remote programming and monitoring of control; Ethernet port; Primary or Secondary Coils; Program Lockout; OMS (Operation Mode Switch) to program Lockout and Weld/No Weld; Pressure Sensors; Proportional Valve; Isolation Contactor; GFI (Ground Fault Isolation) for portable guns (available in "T" style cabinet); Water Flow Switch and 100 or 200 ampere 2 pole, 600 volt circuit breaker.



EN1721 is housed in our "C" cabinet, 20" H x 16" W x 9"D NEMA 4 enclosure with through door circuit breaker handle.

*Submitted by Patricia Adams  
ENTRON Controls, LLC  
Greer, South Carolina*

## Huys Industries Has New Patent Pending Product



Huys Industries is pleased to announce a new patent pending product that can reduce projection welding consumables costs by up to 50% or more. A *replaceable* tungsten or beryllium washer and a *replaceable* insulating sleeve allows for the continued use of a projection welding base for up to ten times that of

a standard welded tungsten head. In addition, standardized part sizing allow for the easy interchange of parts, easy prevention of parts being inserted upside down or missing, as well as allowing for improved cooling with an optional water jacket. With the unique solid zirconium Zirco™ pin, consumable costs are cut even more! Please contact Huys for more information.



*Submitted by Nigel Scotchmer  
Huys Industries, Limited  
Weston, Ontario Canada*

## Huys Welding Strategies Has Enlarged Its Facility

Huys Welding Strategies has recently upgraded and enlarged its facility to include more laboratory space to better explore new advances in resistance welding technology and to test new equipment with AC and DC welding controllers from Harms & Wende GmbH.

*Submitted by Kevin Chan  
Huys Welding Strategies, Ltd.  
Weston, Ontario Canada*

## MG3 Digital Weld Monitor Keeps the Process in Check



The MG3 Color Digital Weld Monitor, includes an interface for the Controller Area Network (CAN) standard, allowing for significantly enhanced communications.

Internationally standardized as ISO 11898-1, the CAN datalink protocol is widely used for automotive applications and has become increasingly popular for industrial control. Compared to serial protocols, such as RS232/442, CAN offers the advantage of very high bandwidth. Integration of CAN into the MG3 enables real-time remote monitoring and process control.

Contact Miyachi Unitek for more information.

*Submitted by Ivonet Gomez  
Miyachi Unitek Corporation  
Monrovia, California*

## RoMan Engineering Services Presenting Papers at upcoming Conference

The Weld Laboratory at RoMan Engineering Services has been a leader in weld development, testing, and material weldability characterization for the past 8 years. In September 2008, the RES Weld Laboratory will present its two most recent papers at the Advances in Resistance Welding Conference being held in Toronto, Ontario. The papers address current issues facing the welding community and are based around classical DoE experimental methodologies. The first paper, titled: "Significance of Conduction Angle on AHSS Weldability and SORPAS Simulations" centers on the potential problems arising from the change of conduction angle in the secondary loop in a resistance welder. It focuses primarily on how that problem manifests itself in weld quality. The second paper, titled: "Significance of Material Property Characteristics on SORPAS Weld Simulations" centers on the problems which confront engineers when attempting to use simulation software which requires an accurate material model. It focuses primarily on the importance that fundamental material properties play in the ability to model a weld.

*Submitted by Don Maatz  
RoMan Engineering Services  
Madison Heights, Michigan*

## Stillwater Technologies Welcomes Its New Engineering/Design Manager



Stillwater Technologies, Inc., is pleased to announce the addition of Tony Newport as Engineering/Design Manager.

Mr. Newport comes to Stillwater with an extensive background in design engineering management. "With more than twenty years of industry experience," says Bill Lukens, President and CEO of Stillwater Technologies, Inc., "we're delighted to have Tony fill this critical role." In his new position, Newport will plan, coordinate and direct the activities of Stillwater's Engineering Department, ensuring customer quality and satisfaction.

Most recently, Tony held the position of Design Engineer and Sales Consultant for Trifecta Tool and Engineering, a company based in Dayton, Ohio, that specializes in custom machining and injection mold design. His background in the plastic container industry also includes stints with Alpha Technical Services, Electra Form Incorporated and PET Molds and Components, which he founded.

Holding an Associates Degree in Tool and Engineering Technology, Tony is a graduate of ITT Technical Institute. He resides in Clark County, Ohio, with his daughter, Jenelle.

*Submitted by Angelina Besecker  
Stillwater Technologies  
Troy, Ohio*

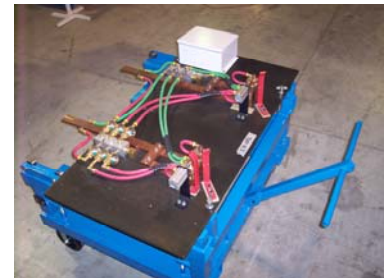
## New Welding Solutions from Tec-Option

Tec-Option is very excited to introduce two new welding solutions.

### Tec-Option's Nut & Stud Welding Equipment "Mini Module" Solution

Features:

- Ideal for less complicated welding applications.
- Faster return on investment than single point welder.
- Reusable Assets for both current and future projects-amortize investment over multiple projects.
- Incorporates Lean Manufacturing Principles.
- Higher productivity.
- Run multiple tools on a single machine.



### Tec-Option's Robotic "Super Module" Solution

Features:

- Ideal for more complex welding applications.
- Faster return on investment than basic robots alone.
- Tooling capable of supporting multiple processes-welding, forming, quality marking, riveting, etc.
- Reusable Assets for both current and future projects-amortize investment over multiple projects.
- Run multiple tools on a single machine.
- Incorporates lean manufacturing principles.



*Submitted by Bryan Domschot  
Tec-Options  
Blissfield, Michigan*

## Used Resistance Welders in Stock at T.J. Snow Company

T. J. Snow Company of Chattanooga, Tennessee, now has a record number of used resistance welders in stock. All machine types are represented — spot, projection, seam, flash, butt and miniature. In addition, there are many special design multi-gun spot welders that can be adapted for other uses. Recent purchases are being loaded on the company's web site now. If you don't see what you need, call Tom Snow, Rene Cooper or Vince Dang.

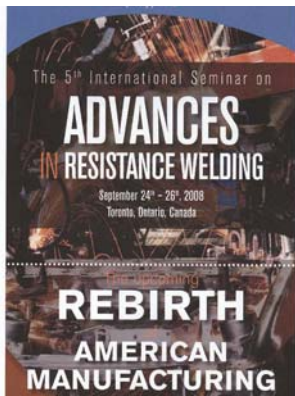
*Submitted by Tom Snow, Jr.  
T.J. Snow Company  
Chattanooga, Tennessee*

## Watteredge Recertified With ISO 9001:2000

Watteredge recently was recertified for the third time with ISO 9001:2000. Also, the company was honored in June, 2008, as one of the leading EDGE Manufacturing Companies in northeast Ohio.

*Submitted by Ed Langhenry, Jr.  
Watteredge, Inc.  
Avon Lake, Ohio*

## 5<sup>TH</sup> INTERNATIONAL ADVANCES IN RESISTANCE WELDING SEMINAR



The time for 5th International Advances in Resistance Welding Seminar approaches! This event will take place on September 24 - 26, 2008, in Toronto, Ontario, Canada. Attendees are coming from as far away as India, South Africa, China, Japan, Korea and Europe. Vendor tables committed include the Auto/Steel Partnership, Allweld Technologies, Braeuer, Dengensha, Flex-cable, Harms & Wende, Huys Industries, Huys Welding Strategies, Obara, RoMan Engineering, and Swantec. Some tables are still available. Contact [sfernandez@huysindustries.com](mailto:sfernandez@huysindustries.com) to reserve yours today!

Student posters are still being accepted; anything from college level to post-doctorate is welcome. There is a \$500 prize for the winning poster. Welding students are encouraged to enter.

Registration forms are available at [www.huysindustries.com](http://www.huysindustries.com).

## DID YOU KNOW?



extra flexibility needed for high mechanical stress applications.

Years ago, most laminated shunts for resistance welding purposes, used .005" half hard copper strip material. This worked well, but because of the high demands for lower overall manufacturing costs, there has been more scrutiny placed on the life expectancy of laminated shunts. Although .005" material has been the workhorse of industry, it is time to consider a change. Since mechanical forces are predominantly the cause of premature failure, it is wise to consider an alternative material. The use of .003" half hard copper strip has been an effective material to consider if your laminated shunts are stressed by mechanical conditions. This material is fine for electrical considerations and will provide the

*Submitted by Ed Langhenry, Jr.  
Watteredge, Inc.  
Avon Lake, Ohio*

## FROM THE FIELD

### Lack of Basic Resistance Welding Knowledge is a Deep Ailment in Our Industry

With the aging population, and the recent down-sizing of our industry in these economic times, we sometimes forget how much knowledge and experience is leaving the industry that is not being replaced. On a recent visit to a stamping plant, engineers and maintenance personnel were struggling with poor weld quality and poor consumable life on a large stud projection carousel welder. To the trained eye, the lack of good water cooling was the culprit, causing rapid wear and erosion of electrodes and poor life and quality. This was ignored by most due to the lack of understanding of the process. Proper RSW theory and training was given to the maintenance and engineering staff, and the problem was fixed with new water channels. Returning a few weeks later, I noticed that electrode life was still not what it ought to be and took a closer look. I noticed that while the cooling was better, the electrode was now wearing more heavily on one side than the other. While fixing one problem, another one had been created by misaligning the heads on reassembly of the tooling. Years of experience on the job is hard to replace; a maintenance manager with 30 years on the job had just retired.

Sometimes, the best engineering and weld schedules are only band-aids if basic knowledge remains unknown or misunderstood.

*Submitted by Nigel Scotchmer  
Huys Industries, Limited  
Weston Ontario Canada*

## RWMA 2009 MEMBERSHIP DIRECTORY



The first stage for updating the RWMA Membership Directory for 2009 will begin this Summer. Be sure to check your company's listing very carefully. If there are any changes or additions, please submit them to Susan Hopkins at [susan@aws.org](mailto:susan@aws.org).

The 2009 Directory will be available by January 2009. Remember, these Directories are a very valuable benefit, as they assist others looking for Resistance Welding companies in their area. These Directories are available at all trade shows where AWS participates.

## WEMCO 2009 ANNUAL MEETING



WEMCO would like to extend a personal invitation for all RWMA members to join them on February 26 - 28, 2009, at its 13<sup>th</sup> Annual Meeting, and spend two days examining the impact of industry globalization, and the economic potential in emerging markets. Each year, the WEMCO

Annual Meeting continues to bring together top-level executives from the major welding equipment manufacturers throughout the United States and Canada. The 2009 Annual Meeting promises to be especially informative and dynamic.

During WEMCO's two-day analysis, issues surrounding rapid growth and expansion, as well as trends of private labeling, will be discussed. With more developing countries integrating with the world economy and an increase in the private label sector, globalization and private labeling has changed business practices in America, and will continue to affect industries in the future.

The legendary Rancho Bernardo Inn Golf Resort and Spa is the ideal location for the 2009 WEMCO Annual Meeting. Beautifully nestled in the hills of north San Diego, California, the resort is conveniently located within 30 minutes of most area attractions. With its warm and intimate setting, attendees can spend their evenings relaxing in the newly renovated spa, or networking with old and new friends. Take the opportunity to join fellow attendees for a game of golf on Thursday and Saturday afternoons. The fee to attend the 2009 WEMCO Annual Meeting is \$720 per attendee, and \$225 for spouses and guests. WEMCO has also secured a group rate with the Rancho Bernardo Inn of \$250 per room, per night, plus applicable taxes.

Register to attend the 2009 WEMCO Annual Meeting today! Registration forms can be submitted via e-mail at [wemco@aws.org](mailto:wemco@aws.org), or via fax at 305-442-7451. For further information about the Annual Meeting, please contact Natalie James-Tapley at 800-443-9353, ext. 444, or via e-mail at [tapley@aws.org](mailto:tapley@aws.org).

## CALENDAR OF EVENTS

<b>IMTS 2008</b> Chicago, IL September 8 - 13, 2008	<b>WELDEXPO Canada 2008</b> Toronto, Ontario Canada September 23-25, 2008	<b>FABTECH INTERNATIONAL &amp; AWS WELDING SHOW</b> Las Vegas, NV October 6-8, 2008
<b>RWMA ANNUAL MEETING</b> Mission Inn Resort & Club Howey-in-the-Hills, FL October 23-25, 2008	<b>ASNT Annual Meeting &amp; Quality Testing Show</b> Charleston, SC November 10-14, 2008	<b>POWER-Gen Int'l</b> Orlando, FL December 2-4, 2008

### 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'll be glad to print it. Send a copy of the information in electronic format to [susan@aws.org](mailto:susan@aws.org), and we'll make sure it gets in the next issue.

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