

MESSAGE FROM THE CHAIRMAN

Dear RWMA members:

The effort and support of the membership of RWMA has been productive and aggressive over the last year. Thank you to all whom have participated. These endeavors not only progress the awareness and use of resistance welding, but is forming solid communication channels between member firms. This last part may be crucial in the trying months ahead.

The reports on the North America economy are not on the bright side for the beginning of 2008, and will affect us all, company and individuals, to varying extents. With each company, within the RWMA, having strong points in the market, each can weather this economic change by aligning themselves with other firms that have synergy in niche markets. This can be accomplished through partnerships, joint ventures, simple marketing and distribution agreements, and produce a wealth of benefits, not to mention reduced cash flow requirements, better monitoring of the customer base for potential bad credit just to name a few.

So, as you can see your RWMA membership can produce unknown benefits beyond the common goal of strengthening the resistance welding market.

I look forward to seeing everyone at the upcoming Spring Meeting in Bowling Green, Kentucky April 30 - May 2, and the continued expansion of the RWMA along with the American Welding Society. If you haven't already registered to attend the Spring meeting, contact Susan Hopkins, RWMA's Program Manager, at susan@aws.org. You can also view the Activity Schedule on-line at www.aws.org/rwma.

Thank you.

Michael S. Simmons

RWMA Chair

RWMA 2008 SPRING MEETING IN BOWLING GREEN, KENTUCKY

You won't want to miss out on the RWMA 2008 Spring Meeting. This year's meeting will be held in Bowling Green, Kentucky, April 30 - May 2, 2008, at the [Holiday Inn University Plaza Hotel](#).

RWMA has consistently brought together unmatched industry presence and experience to its meetings, and this year will be no exception. See first hand what everyone is sure to be talking about and [register to attend the RWMA 2008 Spring Meeting](#). RWMA members may attend this Meeting for \$300. Spouse fee is \$125; and non-RWMA members pay \$500. Contact S. Hopkins, RWMA Program Manager, at susan@aws.org, or 800-443-9353, ext. 295, to register.



While at the meeting the attendees will tour the [Corvette Plant](#). There they will watch the fascinating assembly process of America's favorite sports car, the Chevrolet Corvette, and catch a glimpse of the Cadillac XLR. They will observe robots weld the steel structures, and parts are added to the Trim and Chassis. See the engineering marvel as the Chassis and Body come together in "marriage". Witness the birth of new Corvettes at First Start, and the thrilling drive off the end of the line. You won't want to miss this EXCITING TOUR!

HOTEL ACCOMMODATIONS:



RWMA has secured the special group rate of \$98 per night at the Holiday Inn. Contact S. Hopkins, RWMA Program Manager, at 800-443-9353, ext. 295, or susan@aws.org, to make your hotel reservations.

The Holiday Inn University Plaza Hotel, in Bowling Green, Kentucky, provides warm southern hospitality, comfortable accommodations, and impeccable service. It's conveniently located in the city's Hartland Business District and connected to the Sloan Convention Center. Outstanding attractions surround the hotel, from beautiful caves to unique museums and great shopping. And for a fantastic golf outing, look no further than the adjacent CrossWinds Golf Course.

AIRPORT & TRANSPORTATION:



Nashville, Tennessee, International Airport (BNA) is 68 miles from the Holiday Inn University Plaza Hotel.

Louisville International Airport (SDF) is 113 miles from the Holiday Inn University Plaza Hotel.

RWMA's discounted transportation rates with [BG Shuttle](#), from the Nashville International Airport (BNA), to the Holiday Inn University Plaza Hotel is \$75 round trip, \$48 one way.

Transportation from the Louisville International Airport (SDF) is \$125 one-way, or \$200 round-trip.

Reservations may be made for transportation by e-mailing reservations@bgshuttle.com, or calling 866-234-8705. Mention RWMA to receive these discounted rates.

RWMA SCHOLARSHIP RAFFLE



Congratulations Ed Langhenry Jr. from Watteredge, Inc., winner of the second RWMA raffle held during the FABTECH International & AWS Welding Show in Chicago, Illinois, at the RWMA Booth. Monies raised from these raffles help fund a new RWMA scholarship. This scholarship provides financial assistance to individuals who express an interest in the resistance welding process, while pursuing a career in welding engineering.

Mr. Langhenry won a \$500 gift card. He requested five individual \$100 Home Depot gift cards, in order to give them away during a drawing at Watteredge's company's holiday party.

As of December 31, 2007, more than \$6100 has been raised to help fund the new RWMA scholarship.

"COMMITTEE WORK IN PROGRESS"

J1 Committee. The inaugural meeting of the AWS J1 Committee on Resistance Welding Equipment was held during the AWS Convention in Chicago on Tuesday, November 13, 2007. Despite months of promotion, the meeting attendance was really poor. Nevertheless, the discussion was good and centered on salvaging unique and relevant content from RWMA Bulletin 16. Kendall Ymker agreed to stand for the position of Second Vice Chair and he has subsequently been approved by the Committee. The nomination is subject to the approval of the Technical Activities Committee which is expected on February 28, 2008.

The next meeting for the Committee will be held on May 1, 2008, in conjunction with the RWMA Spring meeting. We are looking to increase participation in the committee and the meeting will be open to all to learn of the current work plan and provide suggestions to the Committee. As always, individuals who are interested in participating on the J1 committee or any of these workgroups can also obtain additional information by contacting the J1 Secretary, Annette Alonso by phone (800-443-9353 x 299) or E-mail (aalonso@aws.org). The committee membership application can also be completed online at the AWS Website http://www.aws.org/w/a/survey/standard?survey_start=techapplication.

C1 Committee. The new officers for the C1 Committee on Resistance Welding (2008-2011 term) are:
Chair- Nigel Scotchmer, Huys Industries Ltd.
1st Vice Chair- Darryl Walker, Centerline (Windsor) Ltd.
2nd Vice Chair- Bill Qualls, Consultant

The next meeting will take place on Tuesday, April 8th, from 2:45 to 4:30 p.m. at Tower Automotive, 27175 Haggerty Road in Novi, Michigan.

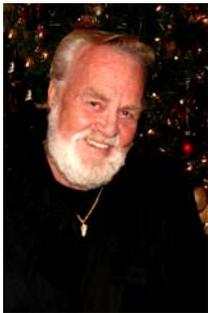
The C1 Committee is currently working on the revisions of the C1 standards: C1.1, Recommended Practices for Resistance Welding, and C1.5, Specification for the Qualification of Resistance Welding Technician.

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).

CCRW Subcommittee. The CCRW Subcommittee Meeting held in San Antonio, Texas, last October, was successful in moving forward with its proposal to include a "body of knowledge" to the C1.5 document "Specification for the qualification of resistance welding technicians," by using the three key components (exam structure, table-1, terms & definitions) submitted by Bill Qualls' Task Group. The revision to C1.5 is essential in defining specific questions in categories and their percentages. The subcommittee also passed a motion that requests all members and instructors of the RWMA class to submit at least (20) multiple-choice questions with references, in order to build a question bank for an exam.

Although the C1.5 document is currently under review by its main committee, the drafting and balloting of the AWS QC-20 document continues to move forward. These and other important issues will be addressed at the CCRW Subcommittee Meeting, scheduled to be held in conjunction with the next RWMA spring meeting in Bowling Green, KY on May 1st, 2008.

ELIHU THOMSON AWARD



Congratulations to Bob White Sr., the 2008 Elihu Thomson Award Recipient. This award is presented annually to a living individual who has made an outstanding contribution to the technology and application of resistance welding as evidenced by any of the following:

1. A technical paper published in the Welding Journal.
2. Innovations in resistance welding equipment.
3. A unique application of resistance welding in a production environment.
4. Other contributions as the Awards Committee shall deem worthy of recognition.

Mr. White established Janda Company in 1960. Since that time, he has designed more than 3,000 Special resistance welding machines for the U.S. Government, aerospace industry, building industry, wire products industry and sheet metal industry. These machines include ammo box lines with quad head seam welding machines, landing matt multi-heads, missile fin, mesh welders, corner mesh, truss machines, floor panels, elevators, wire baskets, shelves, racks, shopping cart lines, cabinets, drawers, office furniture, TV, dishwasher, and oven chassis, slot machines, transformer plate welders, seat frames, brake shoe welders, truck frames, concrete cage welders, solar panel welders, dimple welders, fully automated and complete lines including loading stations, welding stations with weld fixtures, unloaders, and automated stacking stations.

The majority of these specials were a first in the industry, and Mr. White designed every aspect of every machine down to the tiniest details, usually in two to three days, complete automated lines in three to four weeks.

Mr. White has designed the largest and most complete line of standard welding machines, 26 types are available. Many of these standards were a first in the industry.

Throughout the years, Mr. White has assisted the United States Government and Aerospace industries in research and development of highly sophisticated, new resistance welding processes and equipment to meet the toughest Government Military Specification requirements. Mr. White was recently honored with an award from Lockheed Martin for his "dedication and significant contribution to programs of great national importance."

After dedicating almost 50 years of his life to the processes of resistance welding, Mr. White is known throughout the industry as the number one leading authority in the art of resistance welding and is consulted by engineers worldwide (including his competitors) for his knowledge and expertise.

Mr. White will be presented his Award in Las Vegas, Nevada, during the AWS Award Ceremony at the FABTECH International and AWS Welding Show.

RWMA WELDING SCHOOL IN CHICAGO

There were 81 attendees at the Emmet A. Craig Resistance Welding School, held in Chicago, Illinois, at McCormick Place, November 13 - 14, 2007. The school is designed to give operators, production supervisors, engineers, and others the opportunity to further their knowledge in the theory, applications, and equipment used in the resistance welding process. This intense learning atmosphere will better prepare the newcomer, and further educate the experienced.

This is the only resistance welding school sponsored by 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, provide a complete learning experience.

RWMA WELDING SCHOOL TABLETOP EXHIBIT & RECEPTION

Eight RWMA member companies hosted tabletop exhibits at the Emmet A. Craig Resistance Welding School in Chicago, Illinois, on November 13th, at McCormick Place. Participating were: Huys Industries, Flex-cable, Tuffaloy Products, Tec-Option, NSRW, CMW Inc., LORS, and The Taylor-Winfield Company.

These companies' representatives showed their products and services to a receptive audience of buyers, technicians, and engineers, who were seriously looking at Resistance Welding as a business solution.

FABTECH INTL. & AWS WELDING SHOW

Many RWMA member companies exhibited at the FABTECH International & AWS Welding Show in Chicago, Illinois, November 11 - 14, 2007. Brush Wellman, Cadi Company, CenterLine (Windsor), Ltd., CMW Inc., Dengensha America Corp., Dimplex Thermal Solutions, Electron Beam Technologies, Huys Industries, Huys Welding Strategies, Luvata Ohio, Matuschek Welding Products, Miyachi Unitek Corp., NSRW, RoMan Engineering Services, RoMan Manufacturing, Sciaky, Inc., Southern Copper & Supply, Standard Resistance Welder Co., Tennessee Rand, and T. J. Snow, all reported positive experiences exhibiting.

Jim Dally, President of Standard Resistance Welder Company, reported that he received 179 viable leads from his booth at the Show.

William Love, Welding Sales Manager for CMW Inc., also felt that exhibiting at the FABTECH International & AWS Welding Show was extremely beneficial since they received 150 leads.

Mike Cubert, Application Engineer at Sciaky, Inc., reported that the company sponsored a talk on EBFFF (Electron Beam Free Form Fabrication), an additive manufacturing process, at the Innovation Theater during the Show. There was a tremendous amount of interest expressed for this new technology, and the company plans to continue development in this area. Currently, Sciaky is selling Free Form Fabrication as a standard option in its new Electron Beam chambers.

Sciaky is also moving forward with the licensing and distribution of a beam characterization device, also discussed at the Innovation Theater. Mr. Cubert also reported Sciaky received numerous leads at the booth. The booth included a sample part generated with the Free Form Fabrication process.

Each RWMA member company received an RWMA Member easel to display at the booth.

RWMA had a booth at the Show. Thanks to all the members who served in the booth: David Beneteau, CenterLine; Pat Adams, ENTRON Controls; Ed Langhenry, Jr., Watteredge, Inc.; Danny Thomason, Dimplex Thermal Solutions; Mike Simmons, TG Systems; Steve Andrassy, Dengensha America; Garret Herringdon, Southern Copper & Supply; Ron Rhodes, Spotwelding Consultants; Ron Leibovitz, Unitrol Electronics; Mark Gramelspacher, CMW Inc.; Wade Burnette, NSRW Inc.; and Holly Stevens, Flex-cable. Each of these volunteers helped make the booth the success that it was. Three companies joined RWMA after visiting the booth.

If you are interested in exhibiting at the 2008 FABTECH International & AWS Welding Show in Las Vegas, Nevada, October 6-8 at the Las Vegas Convention Center, contact Joe Krall at 800-443-9353, ext. 297.

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. You can also place orders through the RWMA Web site at www.aws.org/rwma.

MEMBER NEWS

NEW VP OF SALES AT CENTERLINE

CenterLine (Windsor) Ltd., Windsor, Ontario, CANADA, has announced that Phil Campbell has joined its team as Vice President of Sales. Campbell comes to CenterLine with more than 20 years of experience in industrial automation sales. In this new position, Campbell will coordinate the sales activities of the CenterLine group of companies which include resistance welding consumables, automation components, turnkey custom machinery, and CenterLine's new and innovative cold spray technology. Campbell can be contacted at 519-734-8464 or Phil.Campbell@cntrline.com.

*Submitted by David Beneteau
CenterLine
Windsor Ontario, CANADA*

NEW OPERATION MANAGER AT CMW INC.

CMW Inc. welcomes Vincent P. Sanders, who joins the company as Operations Manager. Vince brings outstanding academic credentials, coupled with more than 11 years successful experience at O'Neal Steel, Inc. In his most recent position at O'Neal, Vince served as Manager of Process Improvement. In that capacity, he managed training of over 350 employees in 5 different facilities. He also held a number of other key positions in quality management and industrial engineering at O'Neal. In those capacities, Vince worked regularly with state-of-the-art technology and quality systems (ISO and Six Sigma).

*Submitted by William Love
CMW Inc.
Indianapolis, Indiana*

CMW RECEIVES SAFETY AWARD

CMW Inc., Indianapolis, Ind., received a safety award from its insurance carrier, AmCOMP Inc., for operating almost two years without a lost-time accident. The company's safety committee meets monthly to address potential safety hazards and educates employees about best practices. The company's safety program recognizes employees every quarter.

*Submitted by William Love
CMW Inc.
Indianapolis, Indiana*

CMW LAUNCHES NEW RESISTANCE WELDING PRODUCTS CATALOG

CMW Inc. launched its new Resistance Welding Products Catalog at the FABTECH International & AWS Welding Show in Chicago. The new catalog reflects CMW's significantly expanded capabilities to manufacture Asian and European taper products and threaded electrodes. Together with its cold-forming capabilities, these new technologies have greatly enhanced CMW's ability to meet the varied needs of the resistance welding marketplace. Please call us or contact a CMW Authorized Welding Distributor near you to receive a copy.

*Submitted by William Love
CMW Inc.
Indianapolis, Indiana*

DARRAH ELECTRIC COMPANY INTRODUCES NEW LINE

Darrah Electric Company has recently introduced a new line of Continuous-Duty Water-Cooled Power Supplies for the Metal Finishing Industry. Darrah is exclusively using RoMan Manufacturing Inc. Transformer/Rectifiers for this product line. To date, units have been shipped in ratings to 25,000 Amps.

*Submitted by David Darrah
Darrah Electric Company
Cleveland, Ohio*

DARRAH ELECTRIC COMPANY CERTIFIED TO ISO 9001:2000

Darrah Electric Company has implemented a Quality Management System in accordance with ISO 9001:2000. Its Certification was received January 15, 2008. This Quality Management System includes the design and manufacturing of DC power supplies, as well as the distribution of power semiconductor assemblies and franchised product lines.

*Submitted by David Darrah
Darrah Electric Company
Cleveland, Ohio*

FUSION WELDING SOLUTIONS ANNOUNCES THE FORMATION OF AUTOMATION WELDING ALLIANCE

AWA recently hosted a successful Open House at its new facility in Sterling Heights, Michigan. Automation Welding Alliance currently consists of 5 companies that have joined forces to share resources and provide one-stop shopping for our industry's customers. AWA companies are: DC Automation, Fusion Welding Solutions, R&E Engineering, Trompeter Enterprises, and Intec Automated Controls. AWA will use the strengths of each company to provide its customers with timely, quality services at a competitive price. Visit the website website at www.aw-alliance.com.

*Submitted by Connie Frost
Fusion Welding Solutions
Clinton Township, Michigan*

NEW OFFICE FOR HUYS WELDING STRATEGIES, LTD.

Huys Welding Strategies, Ltd., has opened a new office dedicated to engineering and technology in resistance welding right next door to Huys Industries, Ltd., in Toronto, Canada. You can contact them at weldingstrategies@huysindustries.com.

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

THE 5TH INTERNATIONAL SEMINAR ON ADVANCES IN RESISTANCE WELDING

To be held in Toronto, Ontario, Canada, September 24-26, this seminar will bring together American and International resistance welding companies and universities to the only conference in the world solely concerned with resistance welding. It will be the first time this conference is held in North America. The theme highlights the recent rise in U.S. manufactured exports: "The Rebirth of American Manufacturing."

More than 50 American and International authors have contributed abstracts. The seminar will offer the latest in technology and innovations from Europe, Asia and America. The conference will open with a round table discussion among noted experts on the future and role of resistance welding. The conference will cover the areas of new materials, new equipment and new process controls. Papers are being chosen to provide a balanced overview of resistance welding developments, including, for the beginner, with such papers as the history of resistance welding in railcar manufacturing and an overview of the current Chinese automotive market, to an in-depth look at new and emerging trends for the more advanced and technically demanding attendee.

For more information, please contact Wenqi Zhang at wz@swantec.com, or Nigel Scotchmer at nscotchmer@huysindustries.com.

*Submitted by Nigel Scotchmer
Huys Industries, Ltd.
Weston, Ontario, CANADA*

STUDENT POSTER CONTEST

The 5th International Seminar on Advances in Resistance Welding plans to hold a student poster contest during the upcoming conference in September in Toronto to promote the interaction of R&D and industry to further the state of manufacturing in North America. The theme of the conference is "The Rebirth of North American Manufacturing."

If you know of, or are sponsoring any, co-op, college or university, pre- or post-grad students in the area of manufacturing relating to resistance welding in any industrial sector, please invite them to submit a poster to Huys Industries by July 18th, 2008.

Posters will be judged by a panel of industry experts and the winning poster author will receive a cash prize of \$500. The author of each poster submitted will also be granted free admission to the conference for their contribution and effort.

We need to encourage the next generation of resistance welding engineers and technicians by providing them with a rewarding path for a satisfying career, and look forward to your contributions, suggestions and any questions you may have. Call Kevin Chan or Nigel Scotchmer at (416) 747-1611, or e-mail them at kchan@huysindustries.com or nscotchmer@huysindustries.com.

*Submitted by Nigel Scotchmer
Huys Industries, Ltd.
Weston, Ontario, CANADA*

NEW WELD MONITOR RELEASES FROM MIYACHI UNITEK

Miyachi Unitek has developed a new line of full-featured weld monitors to replace legacy units that have been produced for over a decade. The MM-370A is a machine-dedicated weld monitor that measures weld current, tip voltage, resistance, power, force, pressure, weld time, conduction angle, weld count and displacement. Results are displayed as either graphical or alphanumeric data. The MM-370A has 7 programmable alarm relays that trigger if a weld parameter is outside of set limits. Unique to the new product line is a weld-through sensor that measures current and tip force simultaneously. Results can be displayed graphically to assist in achieving the highest possible throughput in a resistance welding process. The MM-370A also features a built-in printer and an RS-232 port to download weld data.

Another addition to the monitor family is the full-featured portable monitor, the MM-380A. This monitor is conveniently sized; battery powered and has the same user interface as the MM-370A. The MM-380A features extensive memory for weld data storage and 127 schedules to customize settings for different welders. Other than displacement, the MM-380A measures the same parameters as the MM-370A.

*Submitted by David Herrin
Miyachi Unitek Corporation
Monrovia, California*

NEW PROMOTIONS AT RoMAN'S WELDING ENGINEERING DIVISION

RES-RoMan's Welding Engineering Division has promoted Mr. Don Maatz to Laboratory Manager and Mr. Eric Young to the ARC Welding Group Manager. While both men have been with RES for a while, both are now committed to further RES's offerings in professional Welding Laboratory offerings and additional ARC Welding Expertise.

Mr. Maatz is a graduate of The Ohio State University Welding Engineering program with prior experience in the U.S. Navy and Ford Motor Co.

Mr. Young holds a degree in Welding Engineering from Ferris State University and has more than 20 years of experience in the Welding field including 18 years with Miller Welding prior to joining RES.

*Submitted by Don Decorte
RoMan Manufacturing, Inc.
Grand Rapids, Michigan*

ISO-9001:2000 QMS and ISO-14001EMS SYSTEMS RENEWAL

RoMan Mfg. recently received its renewal/requalification of both: ISO-9001:2000 QMS and ISO-14001EMS Systems. This is a proud moment for RoMan and shows their continued commitment to both World Class quality and Environmental Policy.

*Submitted by Don Decorte
RoMan Manufacturing, Inc.
Grand Rapids, Michigan*

SCIACKY INTRODUCES EBFFF PROCESS

With the continuing growth of aerospace and military interest in the EBFFF process, Sciacky is experiencing unprecedented growth and business volume. Sciacky's Electron Beam Free Form Fabrication additive manufacturing technique is driving the development of cutting-edge control and power delivery methods for its welding systems. Developments underway include a new closed-loop control method involving the integration of several of their improved subsystems coupled with their high-performance, high-accuracy motion control. Other developments include a new beam characterization device, which allows the welding engineer to gather gun performance and beam density data in order to more consistently develop welding programs that are capable of being adapted from one system to another. This will also allow for greater system diagnostics and is an invaluable troubleshooting tool. For more information visit www.sciacky.com.

*Submitted by Michael Cubert
Sciacky, Inc.
Chicago, Illinois*

T. J. SNOW COMPANY'S NEW "HEAD SHOP"

T. J. Snow Company of Chattanooga, Tennessee, has started a "head shop" specializing in the repair of resistance seam welder heads of all types. Lead mechanic Tim Anderson has been rebuilding heads for a few of the company's customers for several years, and is now ready to accept more business. The Snow Company also has a variety of new and rebuilt seam welder heads in stock.

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

DID YOU KNOW?



PELTIER EFFECT

The Peltier Effect is associated with the welding of dissimilar metals where the conductivity of the one metal relative to the other creates differing thermal characteristics. The Peltier Effect is essentially an inverse thermal-electric effect. This is a concern where weld times of ½ cycle to two cycles are used. Reversing the polarity of the first half cycle of the weld time is usually the accepted method of overcoming this problem. Since the materials involved are usually precious or semi precious metals welded on smaller bench welding machines, the manufacturers of these controls often provide a polarity reverse function to accommodate the first ½ cycle polarity change. Reversing the polarity can move the weld nugget to the work piece interface.

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

FROM THE FIELD

A recent trip showed that there are some out there who didn't get the message!

This company had a multi-head pass-through welder joining stiffeners to a panel. The part was moved by a servomotor and would stop at various points to cascade weld across the part. Each pair of weld guns was operating in series.

One of the series pairs stopped welding, and they had been working for four days trying to find the problem. We worked with them over the phone and found that the control was operating correctly since they could change wire the transformers to different SCRs and the problem continued to stay with one pair of weld guns from one transformer.

Because I was in the neighborhood at the end of that week, I stopped in, and went over everything they had done. Finally, I had them disconnect the two secondary cables from the holders, bolt them together, and fire the welder. Sure enough, the cables jumped, confirming that the transformer was passing current.

They removed the holders, and were surprised to find that the tapers on both electrodes were covered with a thin layer of gray Teflon paste. Further investigation found that the problem started when a third-shift setup person changed the electrodes, and wanted to stop water leaks from a very old set of offset electrode holders. After installing new holders and electrodes, the welder worked perfectly.

The moral of the story: A little Teflon paste can be an expensive thing!

*Submitted by Roger Hirsch
Unitrol Electronics, Inc.
Northbrook, Illinois*

RWMA 2008 MEMBERSHIP DIRECTORY



HOT OFF THE PRESS! The 2008 edition of the RWMA Membership Directory has been printed, and copies are being sent to all RWMA members, as well as being available on the RWMA website. If additional copies are desired, contact Susan Hopkins at susan@aws.org.

These Directories will be available at all booths where AWS exhibits.

WELCOME TO OUR NEWEST RWMA MEMBERS



CAL Manufacturing Company, Inc. is a quality manufacturer of air-cooled, water-cooled, kickless welding cables, induction furnace cables, and laminated shunts. Cal Manufacturing has been serving the resistance welding industry for five decades. With a reputation built on fast delivery and competitive pricing, we know how to help you keep your customers happy. When your customer's line is down, Cal Manufacturing can deliver. Brochures are available upon request. Visit their website at www.calmfginc.com.

ETAL, S.A. de C.V. is a manufacturer of resistance welding consumables; caps, shanks, holders, cables, shunts, electrodes, adapters, copper forge and foundry, machining, cold-heading, sintering, in Mexico City, with twelve sales offices throughout Mexico. Visit their website at www.etal.com.mx.

Kriton Weld Equipments Pvt. Ltd. manufacturers and exports a wide range of resistance welding equipment since 1973 in India. Products include spot, projection, seam, butt welding equipment, including strip welders, along with shears, PLC, notchers, side guides and weld controllers. Outside India, Kriton has exported equipment to nearly 22 countries. Continuous expansions and developments are regular processes at Kriton. They are distributors of "Unitrol" products. Visit their website at www.kritonwelders.com.

Ningbo Powerway Group Co., Ltd., established in 1987, is a national key high-tech enterprise who specializes in manufacturing, researching and developing copper alloy in wire and bar. They are manufacturers of C18150, C18200, and C15000. Visit their website at www.pwalloy.com.

Quality Honeycomb, Inc. manufactures Honeycomb Products (Stainless Steel and High Nickel Alloys) by resistance welding. They are manufacturers of metallic Honeycomb. Their FDIL gauges start at .0012" and travel to .020". Cell sizes start at .032" up to .500". These slitting capabilities allow them to stock a wide variety of materials. Quality Honeycomb also does vacuum brazing. Visit their website at www.honeycombone.com.

National Bronze & Metals, Inc., founded in 1983, and headquartered in Houston, Texas, is the leading manufacturer and master distributor of brass, bronze, and copper alloys, including a substantial range of RWMA Class I, II, III, IV and V alloys in wire, bars and plate. Visit their website at www.nbmmetals.com.

CALENDAR OF EVENTS

<p>National Assn. of Trailer Manufacturers Show Las Vegas, NV February 27- 29, 2008</p>	<p>GAWDA Spring Management Conference I Chicago, IL March 9-11, 2008</p>	<p>CONEXPO CON/AGG Las Vegas, NV March 11 - 15, 2008</p>	<p>RWMA Spring Meeting Bowling Green, KY April 30 - May 2, 2008</p>
<p>WESTEC 2008 Los Angeles, CA March 31 - April 3, 2008</p>	<p>Japan Int'I Welding Show Osaka, Japan April 9 - 12, 2008</p>	<p>GAWDA Spring Management Conference II Miami, FL April 29 - 22, 2008</p>	<p>Beijing-Essen Welding & Cutting Show Beijing, China May 14 - 17, 2008</p>
<p>EASTECH Show West Springfield, MA May 20 - 22, 2008</p>	<p>IMTS 2008 Chicago, IL September 8 - 13, 2008</p>	<p>GAWDA Annual Meeting Nassau Bahamas September 21 - 25, 2008</p>	<p>WELDEXPO Canada 2008 Toronto, Ont. CANADA September 23 - 25, 2008</p>
<p>FABTECH International & AWS Welding Show Las Vegas, NV October 6-8, 2008</p>	<p>ASNT Fall Conference & Quality Testing Show Charleston, SC November 10-14, 2008</p>	<p>Power-Gen International Orlando, FL December 2 - 4, 2008</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'll 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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