



SPRING 2006 RWMA MEETING WAS A SUCCESS

The RWMA Spring meeting, held May 17-19, 2006, in Indianapolis, Indiana, was well received. Thanks to the participation from those companies that attended: Athena Plus, Automation International, Banner Welder, Brush Wellman, Cadi Company, CenterLine (Windsor) Ltd., CMW, Copper & Brass Sales, Dengensha America, ENTRON Controls, Flex-Cable, Huys Industries, Janda Company, NGK Metals, NSRW, Inc., RoMan Engineering Services, RWM, Schreiber Engineering, Sherbrooke Metals, Southern Copper & Supply, Spotwelding Consultants, T. J. Snow Co., TG Systems, Titaloy, Inc., Tuffaloy Products, Unitrol Electronics and Watteredge.

RWMA would like to extend a special thank you to Mark Gramelspacher, of CMW Inc., for arranging and coordinating the speakers from the Law firm of Barnes & Thornburg, that we had during this Spring meeting. Attorneys Stephanie Blackman, Chris Felts, Mike McCrory and Jay Boyd gave a very informative panel presentation on "Fundamentals of Succession Planning", "Growth Through Looking Abroad - Export Sales and More", "Employment Law", and "Secured Transactions (the UCC and how to deal with Credit Risk in a Scary Automobile Manufacturing World)". Thank you to each of them.

Also, thank you to Patrick Grimes, from RW-Technology, who led a well received discussion on the "Exposure to Electromagnetic Fields during Resistance Welding Operations."

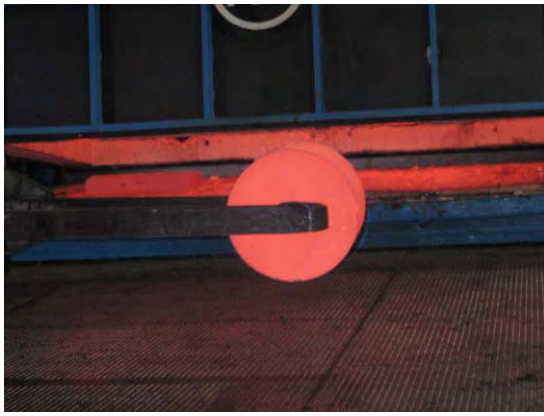
The RWMA group was entertained at the Thursday evening dinner by Morton J. Marcus, Director Emeritus of the Indiana Business Research Center at the Kelley School of Business, Indiana University. He presented the topic, "If Everything Is So Good, Why Do We Feel So Uneasy?"

With close to 50 attendees, the work groups, committee and subcommittee meetings and the opportunity to network with others in the industry, the 2006 Spring meeting was very productive. New ideas and information were flowing throughout the three days.

After the Full Member Meeting and Business Exchange on Friday morning, we headed off to Franklin, Indiana, to tour **Nonferrous Products, Inc.** Their very knowledgeable and friendly staff walked us through their facility where they produce and distribute copper-based and aluminum bronze custom components. A special thank you to Don Brady, President, for hosting the tour, and Mr. Bob Hornett, Director of Sales and Marketing, for organizing it. Hot working metal into plate, disks, tubes and rings with open-die hammers and a 1500-ton press is Nonferrous' principal business.

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



2500 pound red hot as-cast billet ready to be forged on the press.



Individually as-forged weld wheels after forging operation was performed.

EXHIBIT AT THE RWMA WELDING SCHOOL

One of the benefits of being an RWMA member is the opportunity to exhibit at RWMA's Welding School. What better way to network with students, welders and industry customers one-on-one during a social period after the first day's program on November 1st from 5:00 p.m. to 6:30 p.m. at the Georgia World Congress Center, Room C206, Atlanta, Georgia. The price for a standard exhibit is \$300, and the deadline to sign-up is August 1st. To find out more, visit the website at www.aws.org/rwma or contact Gladys Santana at gladys@aws.org.

RWMA TO EXHIBIT AT 2006 SHOW

RWMA will be exhibiting at the FABTECH International and AWS Welding Show on October 31 - November 2. Visitors to the RWMA booth will come away with a better understanding of the industry, and can also have their technical questions answered.

RWMA literature and materials, such as membership packets, membership listings and RWMA literature, will be available at the booth. We will also provide a list of those RWMA members exhibiting and their booth locations. If your company will be exhibiting at the Show, please e-mail Susan Hopkins with your company name and booth number.

We need volunteers to help staff the RWMA booth at the Show. Your expertise in providing industry insight and technical assistance to perspective members and interested show attendees is needed. Please keep in mind that the RWMA booth is intended for the promotion of the Committee and the resistance welding process. **Won't you help out for a couple of hours?** Contact Susan Hopkins at susan@aws.org.

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.

MESSAGE FROM THE CHAIRMAN

I want to thank everyone for a great Spring meeting in Indianapolis. The attendance was outstanding. The programs and speakers hopefully allowed everyone attending to take with them new insights on a broad range of topics. We are pleased with the progress made in the committees and feel strongly that we are moving in the right direction with our strategic plans and mission. The streamlining of the meetings has allowed us to concentrate on those items of priority. We have added new members since our Spring meeting and feel encouraged this will continue. I want to thank those who have volunteered to head up subcommittees to allow us to move forward. We are putting the final plans together for our Fall meeting and I look forward to seeing everyone in Naples, Florida, in October for that event. Have a great summer!

Larry E. Moss

MEMBER NEWS

Stillwater Technologies, Inc.

Stillwater Technologies, Inc., announces the addition of Patrick J. Haren to the position of Quality Manager.

"With more than 20 years of industry experience," said Lukens, President and CEO of Stillwater, "Patrick comes with an extensive background in development and maintenance of quality systems." In his new role, Haren will be interfacing with suppliers and customers to ensure quality plans that meet the goals and requirements of their customers over the long term.

*Larry Jones
Stillwater Technologies, Inc.*

Watteredge, Inc.

Watteredge, Inc. recently completed its acquisition of Cellar Services, which is a supplier of complete robot dress-out packages and a full range of abrasion-resistant sleeves and wraps.

They have also been re-confirmed by NSF for its ISO 9001/2000 accreditation and have been approved as a supplier to General Dynamics for the U.S. Navy's *SeaWolf* submarine project.

*Ed Langhenry, Jr.
Watteredge, Inc.*

Huys Industries

Huys Industries is pleased to announce the Tenth North American User of Sorpas Resistance Welding Software, the only simulation software available in the world that has been adopted by the North American and transplant automotive operations alike. The software allows for the rapid design of weld joints, the optimization of welding parameters, as well as the determination of complete welding lobes with the touch of a button. The latest version even allows for the characterization of the microstructure of the weld nugget and heat-affected zone by charting cooling rates.

*Nigel Scotchmer
Huys Industries*

Dengensha America

Dengensha America has introduced a new flexible cassette, style automatic weld nut feeder. This new feeder incorporates the latest advancements in automatic nut feeding and is a further development of the reliable Dengensha series of automatic weld nut and bolt feeders.

The cassette feeder features a unique ability to feed several sizes of weld nuts (5mm, 6mm, 8mm, and 10mm square nuts) from the same vibratory bowl. The "Quick Change" ability of this system (typically done in less than 5 minutes) allows changing from one size nut to another by simply replacing the "Selection Cassette" and the reliable "Feed Unit/Vinyl Tube Assembly." It's built for high volume weld nut applications that require high feeding rates, but due to its unique flexibility, it also suits the lower-volume production situations faced in job shops.

Dengensha America Corporation has opened a southern sales office. Michael Smith, a Mississippi resident, has been named their sales representative for the southern United States. Mr. Smith has been in sales and sales management for almost 15 years. In addition, he has been directly involved in resistance welding service and maintenance with Nissan Motor Manufacturing located in Canton, Mississippi. He will be based at Dengensha's newly established Jackson, Mississippi, office.

Dengensha has also expanded its representation in Mexico by adding two sales agents there. Dengensha, which has sold its equipment line in Mexico for several years, has now expanded its representation throughout the country by the recent expansion of Mecanica AB. Alvaro Gallegos Nequiz, Director, has added his two brothers to his staff at Mecanica AB: Rogelio Gallegos Nequiz, Manager of Aguascalientes and Central Mexico, and Mario Gallegos Nequiz, Manager of South Mexico area.

*Tom Zambelli
Dengensha America Corporation*

DID YOU KNOW?



A major bicycle manufacturer approached one of our RWMA Member companies, Automation International, a while ago, regarding a problem that arose due to the large sales increase in lightweight, high-end competitive mountain bikes. Where weight is a serious factor in the wheels, aluminum extrusions are coiled for the wheel and the two ends are pinned using a sleeve that slides into both ends to hold the wheel (no welding). The spokes, tube and tire work together to make a solid wheel. Unfortunately in the extremely rough conditions of the mountain bike terrain, problems began to occur. Flexing of the wheel caused the side wall of the rim to twist, exposing the wall of the rim and rubbing against the caliper brakes. In the long run, it was obvious that this type of joint was not going to hold up. The manufacturer did a search for welding solutions, knowing that successful welds were performed using both resistance (seam and flash) and fusion (GTA) welds on steel, but on very thin-walled high-alloy aluminum. GTA welding seemed a solution but was slow. Automation International's approach was to experiment with the (resistance) flash welding process. They had very good success in flash and butt welding aluminum but never on this thin material. Aluminum with its low resistance and need for extremely fast upset, coupled with a high alloy and varying cross section wall, made for a challenge. Subsequent tests and experiments proved that it could be done, wall end to wall end, even eliminating the pin. Excellent strength resulted. Actual weld time is one second. Excess flash material sanded off semiautomatically. Fast forward to today: Millions of rims have been welded using the flash welding member of the *resistance welding* family.

RESISTANCE WELDER MANUFACTURERS' ASSOCIATION SCHOLARSHIP

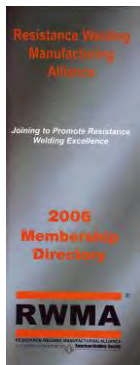


The deadline is just around the corner to apply for the RWMA Scholarship. This scholarship is for a student pursuing a degree in welding engineering with an interest in the resistance welding process.

The student must be a junior in a four-year program in welding engineering or welding engineering technology, with a minimum 3.0 overall grade point average. The student must register and attend a course in resistance welding. The student may be a U.S. or Canadian citizen and attend a university in the U.S. or Canada.

The award is for \$2,500 and the **deadline to apply** is **October 1, 2006**. For more information or an application, please call Vicki Pinsky in the Foundation office at 800-443-9353, x212.

RWMA MEMBERSHIP DIRECTORY



Though the 2006 RWMA Membership Directory was just recently printed, a 2007 edition will be coming out by January 2007. The 2007 edition will offer to RWMA members **only**, the chance to purchase an advertisement to be printed in this Directory. This Directory is distributed to thousands of people in the industry who might be looking for what your company has to offer. It has proven to be a great source of information to many. Contact Susan Hopkins at susan@aws.org for more information on advertising.

Keep an eye out beginning in October for e-mail reminders to make any updates or corrections to your company's description. You should be thinking about any artwork you might need for an ad, too.

If you need any additional copies of the 2006 Membership Directory to pass along to your customers, contact Susan Hopkins at susan@aws.org or phone her at 800-443-9353, ext. 295.

FALL ANNUAL MEETING



You won't want to miss out on the upcoming RWMA Fall Annual Meeting, being held October 5-7, 2006, at the beautiful Naples Grande Resort & Club in Naples, Florida. This year will be fun and exciting, along with the opportunity to share ideas to assist in advancing the resistance welding industry today. You'll have the opportunity to network with other leaders in the Resistance Welding Industry to forge and grow business relationships. While there, grow your business knowledge through interactive discussions. Learn about cutting edge resistance welding technologies.

To find out more about the Annual Meeting, or to register, log onto www.aws.org/rwma or contact Susan Hopkins at 800-443-9353, extension 295, or e-mail susan@aws.org.

RESISTANCE WELDING COMMITTEES

The J1 Committee on Resistance Welding Equipment is a new committee responsible for the preparation of standards related to resistance welding consumables, components, and machinery, including standards previously produced by RWMA (Resistance Welding Manufacturers Alliance, a standing committee of AWS). The standards developed by J1 will relate to the design, construction, calibration, safe operation, and maintenance of resistance welding equipment. The J1 committee is chaired by David Beneteau of CenterLine (Windsor) Ltd.

The C1 Committee on Resistance Welding prepares standards related to resistance welding processes and their applications for various materials, generic weld acceptance criteria for the resistance welding industry, and certification of equipment operators. The committee is currently working on the comprehensive C1.1M/C1.1, *Recommended Practices for Resistance Welding*, and C1.4M/C1.4, *Specification for Resistance Welding of Uncoated Carbon and Low-Alloy Steels*. C1 also developed C1.5:2005, *Specification for the Qualification of Resistance Welding Technician*. The C1 Committee is chaired by Jim Osborne of De-Sta-Co Industries.

The next C1 Committee meeting will take place on Monday, October 30, 2006, from 3:00-6:00 p.m. at the Fabtech International & AWS Welding Show in Atlanta, Georgia.

WELCOME OUR NEWEST RWMA MEMBERS

Spotwelding Consultants, Inc., from Rowlett, Texas. They rebuild resistance welders, build custom resistance welders and are suppliers of controls, transformers and all related resistance welding consumables. Training and consulting in resistance welding is also available through the company. Visit their website at www.spotweldingconsultants.com

Conan Ind. E Com de Productos Eletro-Eletronicos Ltda. is a Brazilian company directed toward projects and manufacture of weld machines for single-phase and three-phase resistance, for inverter of average frequency, electro-electronic commands for the weld process and assistance technique. Visit their website at www.conancontroles.com.br

The Roueche Company, LLC, from Chattanooga, Tennessee. Their expertise includes the design, manufacture and service of standard press and bench style resistance spot welders and projection welders, their new line of standard multi-purpose StreamLine spot welders/projection welders, special multiple-gun spot welders and tooling, dial table welders, robotic arc and spot welders, special robotic tooling, and the complete reconditioning and rebuilding of used welding machines of all models, types, and manufacture. Visit their website at www.trcwelding.com.

PHOTO GALLERY

RWMA Social Event at 2006 Spring Meeting



RWMA Chairman
Mr. & Mrs. Larry Moss,
Automation International, Inc.



Mr. & Mrs. Sanford Lee,
RWC, Inc.



Ms. Holly Stevens, Flex-Cable and
Ms. Patricia Adams, ENTRON Controls



RWMA Vice Chairman, Michael Simmons - TG Systems (left), and
Chairman, Larry Moss - Automation International



Mr. Sanford Lee, RWC, Inc., and
Preston Harris, Tuffaloy Products, Inc.



Mr. David Vassar, Copper & Brass Sales (left), and
Mr. Fred Burton, Southern Copper & Supply



Mr. & Mrs. Jennifer Sniderman, CMW Inc., and
Mr. Thomas J. Snow, T. J. Snow Company

AWS & RWMA 2006 CALENDAR OF EVENTS

<p style="text-align: center;">Aug. 27 - Sept. 2</p> <p style="text-align: center;">International Institute of Welding Annual Assembly Quebec City, PQ, CANADA</p>	<p style="text-align: center;">Sept. 26-28</p> <p style="text-align: center;">WELD EXPO CANADA Mississauga, Toronto, CANADA www.weldexpo.ca</p>	<p style="text-align: center;">Oct. 5 - 7</p> <p style="text-align: center;">RWMA Fall Annual Meeting Naples Grande Resort & Club Naples, Florida www.aws.org/rwma</p>	<p style="text-align: center;">Oct. 14 - 18</p> <p style="text-align: center;">GAWDA Annual Meeting Orlando, Florida www.gawda.org</p>
<p style="text-align: center;">Oct. 31 - Nov. 2</p> <p style="text-align: center;">FABTECH International & the AWS Welding Show Georgia World Congress Center Atlanta, Georgia www.aws.org</p>	<p style="text-align: center;">Nov. 1 - 2</p> <p style="text-align: center;">Emmet A. Craig Resistance Welding School Georgia World Congress Center Atlanta, Georgia www.aws.org/rwma</p>	<p style="text-align: center;">Nov. 24-26</p> <p style="text-align: center;">International Welding Technology Exhibition Chennai, INDIA www.weldindia.com</p>	<p style="text-align: center;">Nov. 28 - 29</p> <p style="text-align: center;">Power Gen International Orlando, Florida www.power-gen.com</p>

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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