

## Rave Reviews for RWMA Annual Meeting!

### *Discussion Forum, Work Groups Off to Strong Start*

Strong attendance, a new interactive program and Duck Key’s tropical setting all combined to create a memorable 2002 RWMA meeting. Seventy-four attendees participated in the October event and gave the meeting rave reviews for the informative sessions, re-invented committees and outstanding networking opportunities.

### New Programs

One of the meeting highlights was the new Discussion Forum held on Thursday and moderated by Sandy Lee (RWC Inc.). In this innovative new format, RWMA members were given the opportunity to discuss issues pertaining to their specific segments of the resistance welding industry. This year’s inaugural event featured a single Forum where everyone got together to discuss key issues. Topics addressed included:

- Business cycle and business changes
- General liability crisis
- Payment terms
- Global competition
- Safety review regulations
- Supply chain management
- Automotive manufacturer labor contracts
- Threat from friction Stir Welding
- Declining cap and electrode use
- Impact of servo guns on the industry
- MFD
- Consignment of supplies
- Suppliers going directly to end-users

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President David Beneteau (center) welcomes new members Nick Rezai (left) and Bill Lucas (right) at the Annual Meeting.

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Also new this year were the Work Group Meetings. Each meeting was held for thirty minutes. Members each attended three of the meetings, where they volunteered to help work on a particular project. For a complete list of projects to be addressed by the work groups, see the “Committee Round Up” on page 7-8. To participate in any of the work groups, contact the Committee Chairs listed in the “Committee Round Up.”

## Continuous Networking

As always, one of the most valuable aspects of the meeting was the opportunity to meet old friends and make new contacts. The meeting breaks and social events provided ample networking opportunities, all in the spectacular south Florida setting.

The meeting kicked off on a high note with the Thursday evening welcome reception. Delegates were on hand to celebrate the opening of RWMA’s 2002 Annual Meeting in the relaxing atmosphere of Southern Florida and the Gulf of Mexico. There was a lot of time spent catching up with friends and colleagues and welcoming the new RWMA members to their first Annual Meeting. The Reception was held on the beautiful Dolphin Deck, just above the Dolphin Pool, where eight Dolphins live year round.

Not to be outdone by the delegates, spouses took advantage of the opportunity to meet other spouses and guests of RWMA. On Friday morning, they enjoyed a continental breakfast with friends, where they also got a chance to learn more about what the Hawk’s Cay Resort and the Florida Keys had to offer during their stay in Florida.

The networking continued on Friday evening as members gathered at the spectacular Atlantic pool deck for happy hour cocktails, followed by a delicious buffet of Caribbean inspired foods. After the sumptuous feast, members mixed and mingled while they enjoyed the spectacular backdrop and the live musical entertainment.

## Perfect Setting

While the business focus of the meeting was intense and valuable, the Hawk's Cay Resort provided a tropical island retreat for the attendees. The hotel offered a perfect combination of luxury, comfort, value and recreation. That, combined with the beautiful Florida sunshine, made Duck Key the perfect place to mix some pleasure with the association and industry business at hand.

## Bigger and Better Next Year

All in all, the 2002 Annual Meeting provided attendees with a perfect mix of education, networking and some fun in the Florida sun. Don’t miss out next year! **Make your plans now to attend the 2003 Annual Meeting, to be held October 23 – 25 in Indian Wells (outside of Palm Springs), California at the Miramonte Resort.** The meeting will build on the success of the new Discussion Forum and Work Group programs and will again feature education on current issues and a chance to visit with RWMA colleagues and friends. We hope to see you there!

See pages 13 and 14 for more photos from the successful Annual Meeting!

## Reflecting Back, Planning Ahead

With the end of another year just around the corner, I find myself reflecting on the memorable events of 2002. I am guessing that my situation is not too unique since I might not have taken the time for this reflection, except perhaps, for the preparation of this newsletter. I can easily get caught-up with activities and neglect to take time to step back and see the big picture. I know how easy it is to lose time for reflection when attention is required to respond to squeaky wheels or for firefighting. It is important to seize or make opportunities to break out of this cycle.

Having given the year some consideration, I see that many of my fond memories from 2002 simply would not have happened without my involvement in the RWMA. During the past year, many of you were kind enough to share time and opinions with me, or to support our efforts to refine and implement the Restructuring Plan. As we hear of companies struggling for their survival, it is inspirational to see so many individuals take time from their busy schedules to participate in the activities of the Association.

With so many "experts" spewing gloom and doom reports about business and the economy, it is wonderful to see that most individuals, families and businesses continue to live their lives as best they can. Most people just adapt as changing attitudes, behaviors and economic pressures threaten them. It is a lot easier to adapt if you have a plan before being confronted with a crisis. The RWMA Members who have supported the Strategic Planning efforts and the implementation of changes must be commended for their efforts. By making changes now, the Association will certainly remain prosperous and relevant in 2003 and for years to come.

Planning is so important to all of us. We have to take time to decide what is important now and in the future. What do we want to keep, and what can we live without? Is there value in the activities that we have become accustomed to? Are we in control of our future, or are we simply getting by, responding to outside influences?

When we know the direction, we have to be sure that everyone has the same clear vision of the future to remind us of what is important as we proceed on our journey. As things change, our plans must change and adapt as well.

As we head into the New Year, it is a good idea to take some time to see where are in the plan-do-check-act cycle. Have we invested enough time in the plan for it to be successful? Have we committed enough time to ensure the plan moves forward? Have we periodically stopped to check the results are what we expect or desire? Are there any lessons-learned that could be used to make adjustments to the plan?

2003 is going to bring us a lot of new opportunities. Let's plan to take advantage of them.

Happy Holidays,

*David Beneteau*



# FALL WELDING SCHOOL

## Outstanding Attendance and High Marks for Fall Welding School!



Attendance and enthusiasm were high at the recent RWMA Welding School, held at the Hilton Northbrook in Northbrook, Illinois. The program attracted an impressive attendance roster of 56 students, 54 of which were non-RWMA members. This upswing in attendance made the fall program the most well attended Welding School in the past two years.

Better yet, attendees raved about the program content and the quality of the instructors. Attendee evaluations confirmed once again that the instructors did a superior job in sharing their technical expertise through lectures and hands-on demonstrations. The instructors were praised for being both knowledgeable and approachable.

In addition to the information packed teaching sessions, attendees were given the opportunity to meet with RWMA members and learn more about the resistance welding industry during the popular tabletop exhibit program. A special thank you to the following member companies who participated in the program:

*CenterLine (Windsor) Ltd.*  
*CMW, Inc.*  
*ENTRON Controls, Inc.*

*Resistance Welding Products*  
*RoMan Manufacturing, Inc.*  
*Stillwater Technologies, Inc.*

*T. J. Snow Company, Inc.*  
*Tuffaloy Products Inc.*  
*Unitrol Electronics, Inc.*

The excellent attendance and positive feedback on the program was a boost for the Welding School, which had suffered from declining numbers last year, due to the uncertain economy and post 9-11 fall out.

After the stunning success of the Fall School, excitement is building for the Spring 2003 Welding School, to be held April 9 – 10 at the Cobo Center in Detroit, Michigan. This will be the first RWMA Welding School held in conjunction with the AWS Show. This will be convenient for attendees and will also increase the profile of the RWMA Welding School throughout the industry. Promotional brochures are available and members are encouraged to continue promoting the school to potential attendees. Please contact Headquarters at 215/564-3484 or [rwma@fernley.com](mailto:rwma@fernley.com) if you would like a supply of brochures to distribute to your customers and colleagues. Major promotion of the school will begin in January.



## RWMA Awards Scholarships to Promising Resistance Welding Students



The RWMA awarded scholarships to Shaun McGrath and Timothy Rash, both students at Ferris State University in Big Rapids, Michigan. RWMA Scholarship Subcommittee Chair Kurt Hofman will present the scholarships in January. In addition to the scholarships to be used toward the resistance welding program at Ferris State University, each student received an RWMA Resistance Welding Manual, Fourth Edition, and a certificate of recognition.



## RWMA Participates in Successful FABTECH International Show

The RWMA recently exhibited at another successful FABTECH International Show. This year's show was held October 29-31 at the I-X Center in Cleveland and attracted over 13,500 attendees. RWMA's booth was very popular among show attendees and RWMA members.

RWMA member volunteers offered attendees the opportunity to view "The Basics of Resistance Welding" video, which was shown continuously throughout the show. Membership directories, welding school brochures, Quickie Reference Manuals and literature order forms were also available. Booth volunteers offered their expertise and assistance in answering a variety of questions from show attendees.

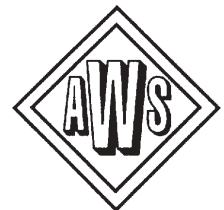
Many thanks to those RWMA members who volunteered their time to help staff the booth during the show. As always, your continued support of RWMA programs is appreciated.

FABTECH reports that this year's new conference schedule was well received with over 250 attendees participating. The new schedule offered 25 two-hour sessions (replacing half day and full day courses) and was designed to give participants more flexibility in their day.

Plans are already underway to make next year's show even better! Make plans now to attend FABTECH International, November 16-19, 2003 at McCormick Place in Chicago, Illinois.

## RWMA To Exhibit at AWS Welding Show 2003

RWMA will be exhibiting at the AWS Welding Show, April 8-10, in Detroit, Michigan. The RWMA booth will contain an abundance of information about RWMA programs, activities and literature. RWMA members will be available to discuss both technical and industry related questions.



Available at the show will be the comprehensive RWMA Resistance Welding video, where viewers can see the resistance welding process in action. This video, as well as RWMA's Emmet A. Craig Resistance Welding School, are two outlets where individuals can experience the basics of the resistance welding process.

# RWMA 2003 CALENDAR OF EVENTS

*If you would like your company's event listed in the RWMA calendar of events, simply send us your information.*

April 8-10

AWS Show - Detroit, Michigan  
Cobo Center

April 9-10

RWMA Spring Welding School - Detroit,  
Michigan  
Cobo Center

April 30 – May 2\*\*

RWMA Spring Meeting - Cleveland, Ohio  
Embassy Suites, Cleveland

**\*\* NOTE NEW DATES.** *Due to conflicts with Passover and Good Friday, the meeting dates have changed. Mark your calendars for April 30 – May 2, 2003.*

September 16-17

RWMA Fall Welding School - Nashville,  
Tennessee  
Embassy Suites, Nashville

October 23-25

RWMA Annual Meeting - Indian Wells,  
California  
Miramonte Resort

November 16-19

FABTECH - Chicago, Illinois  
McCormick Center



To All RWMA Members:

During the Holiday Season, our thoughts turn gratefully to those who have made our progress as your industry association possible.



Thank you and best wishes from your friends at Fernley & Fernley,  
Joshua, Robin and Sue

# RWMA COMMITTEE ROUND UP

*Note: We need you! RWMA Members are encouraged to contact any of the committee chairs (phone numbers and e-mail addresses are listed below) about participating in any of the Work Groups.*

## Education Committee

The Committee elected the following:

Diana Darrah – Committee Chair (P: 216/631-9941; E: [diana\\_darrah@darrahelectric.com](mailto:diana_darrah@darrahelectric.com))

Judy Cuff – Committee Vice-Chair

Kurt Hofman – Scholarship Subcommittee Chair

Wistie Oppenlander – Scholarship Subcommittee Vice-Chair

Jim Dally – Speakers Bureau Subcommittee Chair

Gerry Pruitt – Speakers Bureau Subcommittee Vice-Chair

Barry Schultz – Welding School Subcommittee Chair

Bill Brafford – Welding School Subcommittee Vice-Chair

- After reviewing applicant essays, the committee selected two students from Ferris State University – Shaun McGrath and Timothy Rash - to receive the \$2,500 scholarship awards.
- The committee is exploring options for letting RWMA members that offer classes to handle them as referrals from RWMA. Areas to be addressed include guidelines for presenting the information and how the referral will be handled.
- A Teacher's Guide for vocational schools will be developed in conjunction with a speakers bureau program.

## Technical Activities Committee

The Committee elected the following:

Don Sorenson – Committee Chair (P: 630/682-9600; E: [don.sorenson@entroncontrols.com](mailto:don.sorenson@entroncontrols.com))

Fred Burton – Committee Vice-Chair

Preston Harris – Document Approval Subcommittee Chair

Roger Hirsch – Document Approval Subcommittee Vice-Chair

Ed Langhenry, Jr. – Liaison Subcommittee Chair

Randy Spoth – Liaison Subcommittee Vice-Chair

Ren Scodeller – Technical Inquiry Subcommittee Chair

Bob White, Jr. – Technical Inquiry Subcommittee Vice-Chair

The group is revising the process for document approval. Target completion - January 31.

The following bulletins are under development with work groups:

- Bulletin 1 is under review. Target completion date is January 31.
- Bulletin 16 will address material specifications from the electrode and alloy subcommittee, air-cooled cables, water-cooled cables, laminated shunts and mid-frequency power supply. They will also determine how to issue updates to the bulletin and past purchases. Target completion: Spring Meeting
- Bulletin 14 will omit hydraulics and fix the auto-cad drawings. There is a question on water-cooling calculations and nothing on grounding for trans guns. Target completion: Spring Meeting
- The Quickie Reference Manual will be updated to include the Aluminum Welding Schedules, as well as isometric drawings of a combination seam welder and a flash welder. Target completion: Spring Meeting
- Bulletin 5 is under review with target completion date of January 31.

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# RWMA COMMITTEE ROUND UP

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- The Document Style Manual work group is reviewing other style manuals, including National Fluid and ANSI, for template ideas. Target completion: February 1.
- The Product Designers Guide (Bulletin 2) work group is hoping to bring a current standard to the industry and influence engineers who design how products are put together. They plan to update the bulletin with new pictures and provide overall updates. Target completion: Fall Meeting.

## Membership Committee

The Committee elected the following:

Bob Roth – Membership Chair (P: 616/530-8641; E: rroth@romanmfg.com)  
Larry Moss – Membership Vice-Chair  
Larry Moss - Meeting Planning Subcommittee Chair  
Sandy Lee – Meeting Planning Subcommittee Vice-Chair  
Hank Radcliff – Resource Planning Subcommittee Chair  
Bill Qualls – Resource Planning Subcommittee Vice-Chair



The Membership Committee assigned work groups to carry out the following:

- To rewrite the mission statement.
- To identify the highly qualified prospects, develop a target list and initiate a 12-18 month recruitment campaign.
- The committee is also considering a work group to distill the marketing survey. They will work with the Marketing Committee to identify potential users and producers in the marketplace.
- The committee is still working to determine their role in supporting RWMA tradeshow booths. This will be discussed with Tradeshow Subcommittee Chair Ron Leibovitz.

## Marketing Committee

The Committee elected the following:

Joe Seme – Committee Vice-Chair (P: 330/995-7676; E: joe.seme@semtorq.com)  
Joe Daumeyer – Newsletter Subcommittee Chair  
Wade Burnett – Publicity Subcommittee Chair  
Ed Langhenry, Jr. – Publicity Subcommittee Vice-Chair  
Ron Leibovitz – Tradeshow Subcommittee Chair  
Priyesh Dodhia – Tradeshow Subcommittee Vice-Chair  
Bruce Kelly – Website Subcommittee Chair  
Chris Johnson – Website Subcommittee Vice-Chair

- The Publicity Subcommittee will review the list of publications receiving press releases. They will also oversee publication of a button-lock article.
- A task group will work to identify key users for the purpose of increasing membership.
- The committee will work with the Producers Work Group to identify key producers in a market survey.
- A work group will prepare comparative articles on other joining processes, to spell out the benefits and positive components of resistance welding.
- The Newsletter subcommittee will develop a standard format for the newsletters.
- The Tradeshow subcommittee is exploring ways to reduce costs for exhibiting at Fabtech.

# PATENT NEWS

The following list includes a number of patents recently issued by the U.S. Patent and Trademark Office that may be of interest to the membership of the RWMA. These patents have been identified by a general search of approximately 3,500 patents issued per week by the USPTO. This listing is for general information and is not intended to be an endorsement of the patentability of the claimed invention. Additional information on any of these patents, or a complete list of US patents is available via the USPTO website at: [www.uspto.gov](http://www.uspto.gov).

- US6392185B1 (5/21/2002): ELECTRICAL WELDING CLAMP COMPRISING A MECHANICAL DEVICE FOR INDEXING AND DE-INDEXING
- US6401336B1 (6/11/2002): RESISTANCE WELDING OF SPRAY GUN VALVE ASSEMBLY - Morrow Tech Ind. LLC
- US6414259B2 (7/2/2002): INTER-WELDING ELECTRODE MOVING AMOUNT DETECTING METHOD AND APPARATUS THEREOF - Nissan Motor Co. Ltd
- US6414260B1 (7/2/2002): WELDING ELECTRODE WITH AN ARRANGEMENT FOR INTRODUCING ULTRASOUND IN ORDER TO CHECK WELD JOINTS
- US6414261B1 (7/2/2002): ANALYSIS OF WELD IMAGE TO DETERMINE WELD QUALITY
- US6420671B1 (7/16/2002): WELDING APPARATUS
- USRE37799E (7/23/2002): AUTOMATIC ASSEMBLING SYSTEM OF GALVANIZED STEEL SHEET BY SPOT WELDING
- US6429397B1 (8/6/2002): PROGRAMMABLE POGO WELDING APPARATUS AND METHOD - G.M. Corp.
- US6443352B1 (9/3/2002): ELECTRICAL RESISTANCE BASED OBJECT CONSOLIDATION - Solidica, Inc.
- US6444942B1 (9/3/2002): WELDING CONTROL SYSTEMS - Nadex Co. Ltd.
- US6446833B1 (9/10/2002): AUTOMATIC NUT FEEDING DEVICE
- US6448532B1 (9/10/2002): METHOD FOR RESISTANCE WELDING METAL PARTS
- US 6455801B1 (9/24/2002): METHOD AND DEVICE FOR MANUFACTURING A PROJECTION WELD CONNECTION FOR PLATE MATERIAL - Arplas Projects BV
- US6453752B1 (9/24/2002): FIXTURE FOR TESTING SHEAR STRENGTH IN TAILOR WELDED BLANKS - Ford Global Tech.
- US6455800B1 (9/24/2002): SERVO-PNEUMATIC MODULAR WELD GUN - Festo
- US6455802B2 (9/24/2002): RESISTANCE WELDING POWER SUPPLY APPARATUS - Miyachi Technos Corp
- US6459064B1 (10/1/2002): ASSEMBLING ELECTROCONDUCTIVE PARTS BY ELECTRIC CURRENT HEATING - Magna IHV
- US6459065B2 (10/1/2002): RESISTANCE WELDING POWER SUPPLY APPARATUS - Miyachi Technos Corp
- US6460007B1 (10/1/2002): METHOD AND APPARATUS FOR DETERMINATION OF RESISTANCE SPOT WELDED FLANGE WIDTH - DaimlerChrysler Corp
- US6462297B1 (10/8/2002): SPOT-WELDED INTERCONNECTION AND METHOD OF WELDING ELECTRICAL TABS - Motorola, Inc.
- US6466004B1 (10/15/2002): APPARATUS AND METHOD FOR MEASURING WELD CIRCUIT - Sensotec, Inc.
- US6469272B1 (10/22/2002): WELD GUN WITH INVERTED ROLLER SCREW ACTUATOR - Progressive Tool
- US6479783B2 (11/12/2002): ELECTRIC MOTOR DEVICE FOR POWERING A TOOL CLAMP - ARO
- US6479784B1 (11/12/2002): METHOD FOR QUALITY CONTROL OF SPOT WELDING IN WELDING MACHINES
- US6486629B1 (11/26/2002): METHOD FOR CONTROLLING FORCE APPLICATION WITH SERVO MOTOR AND APPARATUS THEREWITH - Fanuc Ltd.

# WELCOME

Welcome New RWMA Engineering  
Associate Member

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*The opinions expressed in any articles by outside consultants are their own views and not necessarily those of the RWMA.*



## Congratulations to Ray Shook, new AWS Executive Director!

The American Welding Society Board of Directors announces that Ray Shook has assumed the position of Executive Director for the Society. Ray is former Vice President of Sales & Marketing with Stillwater Technologies in Troy, Ohio. As a 30-year veteran of the welding industry, Ray has accumulated extensive experience within the welding sales and marketing arena. He spent more than twenty years with Hobart Brothers Company, in a variety of positions, including Director of the world's largest welding training organization, the Hobart Institute of Welding Technology.

Many RWMA members know Ray as an enthusiastic and dedicated volunteer leader for the association. His expertise and dedication to the industry made him a real asset to the RWMA Board of the Directors and the Marketing Committee, which he chaired. His contributions have been many and he will be missed as a member of RWMA!

## Welding Equipment Manufacturer's Committee

WEMCO is a standing committee of the American Welding Society. WEMCO is dedicated to providing senior management members of manufacturers servicing the welding industry with a forum to:

- Promote plans and programs which benefit their understanding of welding equipment market trends and needs.
- Share solutions to current industry, organizational and business problems/opportunities.
- Promote their products and services worldwide.
- Provide a common voice to the welding industry, government bodies and technical standards organizations worldwide.
- Enhance the image of welding as a career choice and as an industry crucial to building and maintaining the world's economic infrastructure.

WEMCO 2003 Annual Meeting  
January 16-18, 2003  
Hilton La Jolla Torrey Pines Hotel, La Jolla, CA

## WEMCO Manufacturer's Showcase

The American Welding Society and the Welding Equipment Manufacturers Committee are proud to present the WEMCO Manufacturer's Showcase. This web-based showcase is stocked by WEMCO members and presented to the general viewing public. Inside the showcase WEMCO members are able to showcase their newest and most innovative products.

This new capability brings advantages not only to the WEMCO members but also to the welding industry as innovation and invention is brought to the industry's attention with colorful product picture, information product descriptions and easy-access e-mail and URL links.

**For more information on WEMCO, including information on member benefits, list of members and sub-committee updates, visit the website at <http://www.aws.org/wemco/>**

## ENTRON Controls, Inc.



ENTRON Controls, Inc. has purchased British Federal Ltd.'s Electronics Division in the U.K. and formed a new company: BF ENTRON, Ltd. The purchase, completed on August 15, 2002, includes all electronics division assets, properties, manufacturing rights, and technologies of British Federal.

Both BF ENTRON, Ltd., headquartered in Dudley, England, and ENTRON Controls, Inc., headquartered in Carol Stream, Illinois, will continue development and production of their respective resistance welding products on both sides of the Atlantic.

Additionally, BF ENTRON has retained a large portion of British Federal's electronics engineering staff, and expects the workforce in the months ahead to meet the demands of an enthusiastic customer base throughout the U.K. and Europe. John Stanway, former director of electronics at British Federal, has been appointed as managing director of BF ENTRON in the U.K., and will also serve on the board of directors of ENTRON Controls, Inc. Ed Vivian, former director of operations for British Federal NA, has been hired by ENTRON Controls, Inc. as sales and service support for BF ENTRON product.

## Unitek Miyachi International Acquires Selected Assets of Microjoin, Inc.



Unitek Miyachi International, Ltd. (UMI) has announced the acquisition of selected assets of MicroJoin, Inc., a manufacturer of resistance welding, reflow soldering and heat seal bonding equipment and systems, located in Poway, California, including intellectual property, all products, systems, equipment and designs, patent rights, trademarks, brand, company and domain names, from the Palomar Companies in Carlsbad, California. The former MicroJoin will cease operations.

In a coordinated effort, two UMI companies, Unitek Miyachi Corporation (Monrovia, CA) and Unitek EAPRO (Helmond, The Netherlands) will work together to support all MicroJoin customers around the world. Unitek Miyachi Corporation will provide applications solutions, equipment and service to the resistance welding customers, while Unitek EAPRO will provide application solutions, systems and support to the reflow soldering and heat seal bonding customers.

In other news, Miyachi announces the release of its range of benchtop welding systems. The line encompasses a full series of "plug and play" weld heads for medium to large-scale resistance welding applications. The heads feature fast follow-up for improved weld-to-weld consistency reduced material expulsion, and better welds appearance. Each is built on a heavy-duty frame with the finest air and mechanical components to meet the demands of rigorous production environments. For extra precision and more demanding applications, all heads can be equipped with optional features to provide full functional feedback for total weld accountability. Each head can run with AC or DC inverter controls.

Stillwater Technologies, Inc. announces the following new products:



- Tip Changer (pneumatic) – changes both the upper and lower tips automatically in robotic resistance welding applications. The changer reduces costs by eliminating manual tip changes and ensures consistent change of tips. The cycle time on the tip change is less than 25 seconds and a sensing device ensures tip removal and installation.
- Tip Checker – checks the tip electrically to ensure a “full dress” has occurred. Ensures weld face size and results in quality welds. Provides for a continuity check through the robot and able to provide an alert in the case of improper or no dress.

New Tip Dressers:

- Pneumatic “Dual Head” (Model A2400-2) – offers the ability to “dress” two different types of tips with one dresser e.g. dresses the side of one tip and dresses the face and side of the other tip. Light weight and less expensive than purchasing two individual tip dressers.
- Electric “Dual Head” (Model E-4000 and E-4800) – offers the same dressing benefits as the A2400-2. The E-4000 can be supplied with a 115AC or a 230VAC motor. The E-4800 can be supplied with a 230 / 460 V 3 phase motor.
- Electric Tip Dresser (Model E-4800-2 ) “In Line” – can supply a 145C face motor and head assembly or provide the head assembly only to bolt on to a customer’s 145C face motor.
- Electric Tip Dresser (Model E-4800-1) “Right Angle” – single head dresser and is supplied with a 480V 3 phase motor.

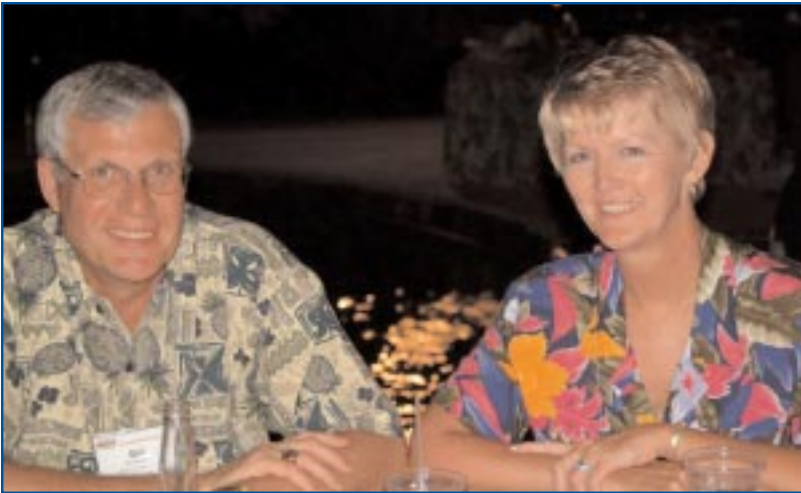
## **Got News? RWMA Wants to Hear it!**

Don’t forget to include RWMA Headquarters on your press list! This information keeps us up to date on important events, staff changes and product information at your company. Your news will be published in the next issue of RWMA News.

Also, RWMA needs articles for the Fabricator, Welding Journal, Tube & Pipe Journal and Practical Welding. We’re looking for you, our members, for support. Your articles keep the resistance welding industry in the news and make others aware of the process and the RWMA. If you would like to submit an article please send it to RWMA headquarters.

Please send any press releases or articles to: RWMA, 1900 Arch Street, Philadelphia, PA 19103 or fax to (215) 564-2175. You can also e-mail your information to [rwma@fernley.com](mailto:rwma@fernley.com).

# RWMA ANNUAL MEETING HIGHLIGHTS



*Chairman Bill Brafford and wife Chris.*



*Guest Richard Alley (AWS)*



*Steve Lewis and wife Sherra  
(T.J. Snow Company)*

**SAVE THE DATE!**  
**RWMA 2003 Meeting**  
**October 23-25, 2003**  
**Miramonte Resort,**  
**Indian Wells, CA**



*Membership Committee Chair Bob Roth (left) and Scholarship Subcommittee Chair Kurt Hofman (right).*

# RWMA ANNUAL MEETING HIGHLIGHTS



*Ray Shook (New AWS Executive Director) and wife Sandy*



*Board Member Priyesh Dodhia and family*



*Past President Hank Radcliff and wife Jennifer*



*First Vice-President Larry Moss and wife Janet*