

American Welding Society

DETROIT SECTION

OCTOBER
2005

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Practical Applications Of The Cold Spray Process

The term Cold Spray has been applied by the ASM Thermal Spray Society to describe a new group of coating processes that are just beginning to find commercial application. These processes use kinetic energy from a jet of supersonic compressed gas to accelerate near-room-temperature particles to ultra-high velocities. The un-melted particles plastically deform upon impact with the substrate to produce consolidated coatings.

In many cases, this can be accomplished without surface preparation—eliminating much of the time and many of the environmental issues. Most importantly, since the substrate and coatings are not melted, they retain many of their original properties. This is leading to many exciting new opportunities where engineered or dissimilar materials are involved.

Wally Birtch, General Manager of CenterLine's – Supersonic Spray Division, and his team have been working for over

a year to commercialize the process. This work involves not only theoretical research but, also equipment and powdered material development.



Wally Birtch

Mr. Birtch will share some of this experience with us and review the various process options. He will also review applications such as: surface restoration, corrosion protection, the placement of brazing filler metals, gas-tight seals, attribute construction, and the application of non-uniform coatings.

Please join us to learn of this cutting-edge thermal spray process.

Free Technical Meeting

7 p.m., Thursday, October 13th

Preceded by Social Hour at 5:30 p.m.,

Dinner at 6 p.m.

Members w/reservations \$16,

Others \$17, Students \$10

To Make Reservations for Dinner:

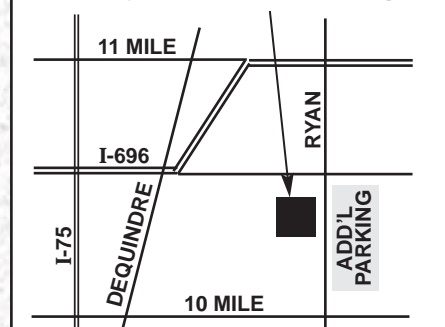
PH: 248-944-6234

e-mail: jrn11@dcx.com

Jim Norman

Meeting Location:

UKRAINIAN CULTURAL CENTER
26601 Ryan Rd., Warren, Michigan



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Don DeCorte

CHAIRMAN'S MESSAGE

Hello Detroit Welding World!

I am still thinking how "wowed" I am from seeing and hearing David Barr's presentation at our September technical meeting.

For those of us coming from the strictly technical world of welding it was quite an eye opener. Not only did David Barr impress us with the beauty of his work, but he also taught a few of us to appreciate the technical nature of his work.

I agree with David Beneteau when he said we will never look at a piece of art quite the same way again. Great job Dave Beneteau our Section technical programs chairman on a great speaker!

I currently find myself in Essen Germany attending the Essen Welding and Cutting show which comes once every four years. There are over 1000 companies exhibiting here from all over the world and once again what an eye opener on just how big our welding industry is.

I first questioned what I would do for an entire week at a welding show. I have one more day to go and my list of companies to see is still long. I truly believe if you are really into welding you could spend two weeks at this show and not see it all!! There are some unique processes and new equipment that I am sure we will soon hear about and see in Detroit.

After seeing this show, I am confident our welding world is still alive and well. I encourage all of you to mark the second Thursday on your calendar and make time for our technical meetings this year. We have a great line up and you don't want to miss it!

Thanks to all for your continued support, and I look forward to seeing you soon.

Respectfully, Don DeCorte

ENDOWMENTS

Endowments at the AWS Foundation are funded by an individual or a corporation to provide perpetual funding of an annual \$2,500 Named Scholarship award for a Bachelor of Science degree in Welding Engineering or Manufacturing Technology. The Detroit Section Members that have provided endowments:

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 Monday, November 14
 6 a.m. - 9 p.m.

Bob Wilcox is organizing a motor coach trip to the Welding Show in Chicago. If you are interested and are among the first 50 people to make a reservation, you can enjoy the company of your welding fiends on the trip to the show. For more information contact Bob Wilcox at: 734-710-4360 (O); 734-649-5895 (M); Rwilcox1@visteon.com. Contribution to defray costs is \$10.00 per person.

AVON LAKE, OH - Watteredge, Inc., The Power Professionals, is pleased to announce the acquisition of Cellar Services, Inc. CSI is a well respected industry name, known for their innovations in robot dress and welding accessories. Engineering, production and warehousing of all Cellar Service components will be relocated to the Watteredge facilities in Avon Lake, Ohio. For engineering support, contact Ben Gontarz at 440-933-6110, ext. 23. Contact Mark Amsden at 440-933-6110, ext. 14 for inside sales. Contact Debbie Plutschuck at 313-318-2212 for Michigan representation.

Thanks To Our Meeting Sponsors

We would like to thank John Sutter and the rest of the gang at Bosch Rexroth Corporation for sponsoring our SEPTEMBER Technical Meeting. The OCTOBER Vendor Display will be provided by CenterLine - Supersonic Spray Division.

Please let our meeting sponsors know that you appreciate their support of our Section activities.

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Display Table Opportunities

The American Welding Society Detroit section will be holding its monthly Technical Meetings on the second Thursday of each month at 5:30 PM. We have opportunities available to sponsor a display table and show your products and services to the individuals that make up all facets of the Welding and Automation industry. The meetings include social hour followed by a free technical meeting and optional dinner for the attendees. The meetings are attended by representatives from the Big Three, Tier 1 and 2 Manufacturers, System Integrators, Component Suppliers, and even University Professors and Students who are involved with Welding and Automation. The cost to sponsor the display table is only \$200.00, a small price to pay to meet your new customers and keep in touch with current customers. The meetings are held at the Ukrainian Cultural Center, 26601 Ryan Rd., Warren, Michigan, unless otherwise noted. Act now, time is running out to schedule! Contact Jim Norman by email, jrn11@dcx.com or at the office, 248-944-6234, to schedule. You may access the AWS Detroit Section web page at <http://aws.kukausa.com/Default.htm>.

October Hotline

SECTION NEWS: Tom Viggiano is our new hot line editor handling the latest section news. If you have information about your company changes or items of general interest to the section, please submit them to Tom for publication in the next bulletin. Information is due to him the first Thursday of each month from September through April. Tom's phone number is: 1-313-883-6969 or Email: tom.viggiano@rscmain.com

METRO WELDING SUPPLY CORP. in conjunction with the **LINCOLN ELECTRIC COMPANY** will be conducting a full scale live demonstration with Lincoln's factory reps and their highly acclaimed MDU (Mobile Demo Unit). There will be other Manufacturers reps on hand to answer your welding, cutting, heating, and fabrication questions. This event is scheduled to take place on October 14, 2005 between the hours of 10 a.m. and 2 p.m. Lunch will be served between 11 a.m. and 1 p.m. For further details call Richard Turner @ 313-834-1660 or by e-mail at rich@metrowelding.com.

ASW SPECIFICATION NEWS - The AWS has just released new specifications. The Specification for Welded Joints in Machinery and Equipment is AWS D14.4/D14.4M:2005. Another new specification is AWS C3.7M/C3.7:2005, Specification for Aluminum Brazing. The specifications are available for release this month.

HOT HOT HOT - *Your Contact Information is needed to develop our electronic and USPS mailing files.*

The Detroit Section is requesting you send us your e-mail address along with your membership number. This will be used to create our data base and make sure we do not have duplicates for future electronic notification of Section News and information. At present, the section only has the required e-mail information for about five percent of our members. If you do not want to be included in our e-mail mailings, please let us know in your e-mail response. Format your mail as follows:

- Last Name, First Name, MI
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Please send your contact information to cscarlson@chartermi.net

Mark Your Calendars



AWS Detroit Section

Holiday Dinner Meeting

Combined Executive Committee & Technical Meeting
~ Spouses Welcome ~

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Thursday, December 8, 2005
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Watch This Bulletin for Additional Information

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Meet Your Executive Committee

Bernhard "Bernie" Bastian serves on the Detroit Section Executive Committee as Parliamentarian and Awards Chairman.

Bernie grew up in the Hudson Valley of New York State. He graduated from Rensselaer Polytechnic Institute with a Bachelors degree in Mechanical Engineering. He then worked for IBM as a development engineer until Harry Truman asked him to join the U.S. military during the Korean Police Action. After graduating from this tour of duty he went back to RPI and obtained a Masters Degree in Metallurgical Engineering. While at RPI he worked with "Doc" Savage and "Ernie" Nippes. While at RPI, he helped to develop the first "Gleeble." After this stint at RPI he went to the Thomas A. Edison Research facility in Orange, NJ as the Chief Metallurgical

Engineer. Several years later, Walter Jominy asked Bernie to join his laboratory at Chrysler Corp. and work on development of a new turbine engine. It was while at Chrysler, that he joined the Detroit Section of the American Welding Society. Bernie left Chrysler and joined the Welding Development Laboratory of Ford Motor Company led by Mr. John Diebold, and helped launch the Mustang, Escort, and Cougar. Bernie joined the AWS Detroit Executive Committee under the aegis of Tom Shearer. He was the Detroit Section Chairman in 1988 - 89. As a past chairman he became active in AWS National administration and served as Director at Large from 1996 to 2003. He received the District Meritorious Award, the Distinguished Member Award, National Meritorious Award and was elected a Fellow of the Society.

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