SECO/WARWICK

METAL Minutes

Volume 67, Issue 1 January/February 2009

Special points of interest:

- CAB Brazing Conference & Seminar for Automotive and HVAC Applications, May 11-13, 2009
- Maintenance Tip— Getting the best life from your Furnace mesh belt

Metal Minutes Reader
Exclusive offer

CAB CONFERENCE & SEMINAR

Single tuition - save $100

Two people from 1 company, save $400

Four people from 1 company, save $800.

Call Beth Ryan with coupon code MMR209
+1-814-332-8437

Offer Expires **03/25/09**

Sign up for the CAB Brazing Conference & Seminar for Automotive and HVAC Applications, May 11-13, 2009, Cleveland, Ohio

The CAB Brazing Conference & Seminar is presented every other year for industry professionals to present the latest improvements in CAB technology and provide basic, practical information for companies new to the CAB process.

When switching from copper to aluminum brazing, our customers have told us that this event saves them both time and money by shortening the learning curve and staying updated on best practices. Bring your toughest questions and problems for our experts to answer.

Background

CAB Brazing is used in both automotive and HVAC manufacturing for brazing radiators, condensers, oil coolers, evaporators, heaters and charge air coolers. NOCOLOK® Brazing was originally developed by Alcan as a non-corrosive flux brazing process for heat exchangers. Today, NOCOLOK is the trademark of Solvay Fluor & Derivate GmbH flux product, but remains the common name for the CAB process.

The Technology

Speakers will discuss the history and progress of the technology along with the latest information on process development in the past year. Technology topics include:

- Switching from Copper to Aluminum? CAB Brazing for HVAC
- Principles of CAB Brazing
- Alloy Selection & Material Properties
- Flux , Issues & new Technology
- New Developments in CAB equipment

The Equipment

The SECO/WARWICK Conference and Seminar is unique in that it covers the equipment choices and best practices for selecting and maintaining a complete manufacturing cell.

Talks will cover :

- CAB Furnace Designs
- Practical Heat Transfer
- Heating Systems
- Temperature Control
- Flux Application
- Thermal Degreasing
- Dry Off Ovens
- Atmosphere Control
- Furnace Maintenance

The Speakers

SECO/WARWICK's CAB Brazing Team has been providing equipment solutions for aluminum brazing since 1984. We strive to keep our seminar portion non-commercial and cover all aspects of the technology from all suppliers. In addition to our staff, we have invited guest speakers to round out the event and provide you with the most up-to-date technology information and best practices.

Guest Speakers

Doug Hawksworth Ph.D. has worked in the field of Aluminum Brazing technology development for the past 21 years. He currently holds the position of Senior Process and Materials Specialist for Sapa Heat Transfer AB, based in Toronto.

Leszek Orman Ph.D. has 24 years of experience with aluminum metallurgy. In 2006, Dr. Orman joined Solvay Fluor at the Technical Service Manager for Nocolok® Flux. In 2008 he established his company, SOLVALO, working independently as a Solvay Technical Consultant.

Registration and Hotel

Registration
$400 tuition per person, or use coupon code on page

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For more information and technical questions, call Mike Jacobs, Sales Applications Engineer

Phone: 814-332-8598
Fax: 814-724-1407
E-mail:
mjacobs@secowarwick.com

www.secowarwick.com

The CAB Team specializes in the design and manufacture of CAB Brazing equipment used in both automotive and HVAC manufacturing for brazing radiators, condensers, oil coolers, evaporators, heaters and charge air coolers. Along with aluminum brazing, the team offers Cupro-Braze® copper-brass brazing technology, a process for heavy duty truck and off-road radiators & charge air coolers.

SECO/WARWICK

180 Mercer St., PO Box 908
Meadville, PA 16335 USA
814-332-8400
USA • Poland • China • India

CAB Brazing Conference & Seminar, May 11-13, 2009 Cleveland, OH

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1 for discounts until March 25. Tuition includes seminar materials, luncheons, one (1) scheduled dinner meeting, and refreshment breaks. Lodging and other meals are not included. We accept cash, credit card or you can choose "Bill Me Later" and we will invoice you on May 14 with net 30 terms.

Register online at www.secowarwick.com/cabseminar.html or call 814-332-8437.

Hotel
Hyatt Regency- Cleveland, OH
http://cleveland.hyatt.com/hyatt/hotels/index.jsp

Call 1-800-233-1234 for reservations. Single room rate is $129 with reservations made by 4/20/09.

Check the website for program and speaker updates.

The CAB Conference & Seminar will be held at the Cleveland Hyatt Regency at the Arcade

Maintenance Tips—
Getting the Best Life from your Furnace Mesh Belt

Rich Riva, Wire-Mesh Products, Inc.

1. Splice the belt as often as feasible in beginning of belt life. It is much easier to do this earlier than later when the belt becomes distorted.

2. Tracking belt - do not "over track", let any tracking adjustments take their course; otherwise, you will just be fighting against yourself.

Tracking adjustments can take 1 to 2 revolutions to bring about an effect

3. Load belt uniformly across width and length

4. Check pulley lagging and drums - they should be level and square. Also, any return rollers should be free to turn and checked for damage.

5. Avoid stopping belt for prolonged periods of time

6. Verify operating conditions - if parameters have changed, investigate possible alternative mesh specifications. Focus should not only be on belt life, but also on energy savings, increase in throughput, etc.

7. Look for wear patterns that have developed on the belt - use these to identify possible trouble spots in the furnace.

8. Monitor belt as much as practical. Consider installing a warning system that alerts an operator to unacceptable belt movement.

Rich Riva is President & CEO of Wire-Mesh Products, Inc.
for more information e-mail
rich@wire-mesh.com

Wire-Mesh Products, Inc.
501 East King Street
York PA 17405
717-848-3620
www.wire-mesh.com