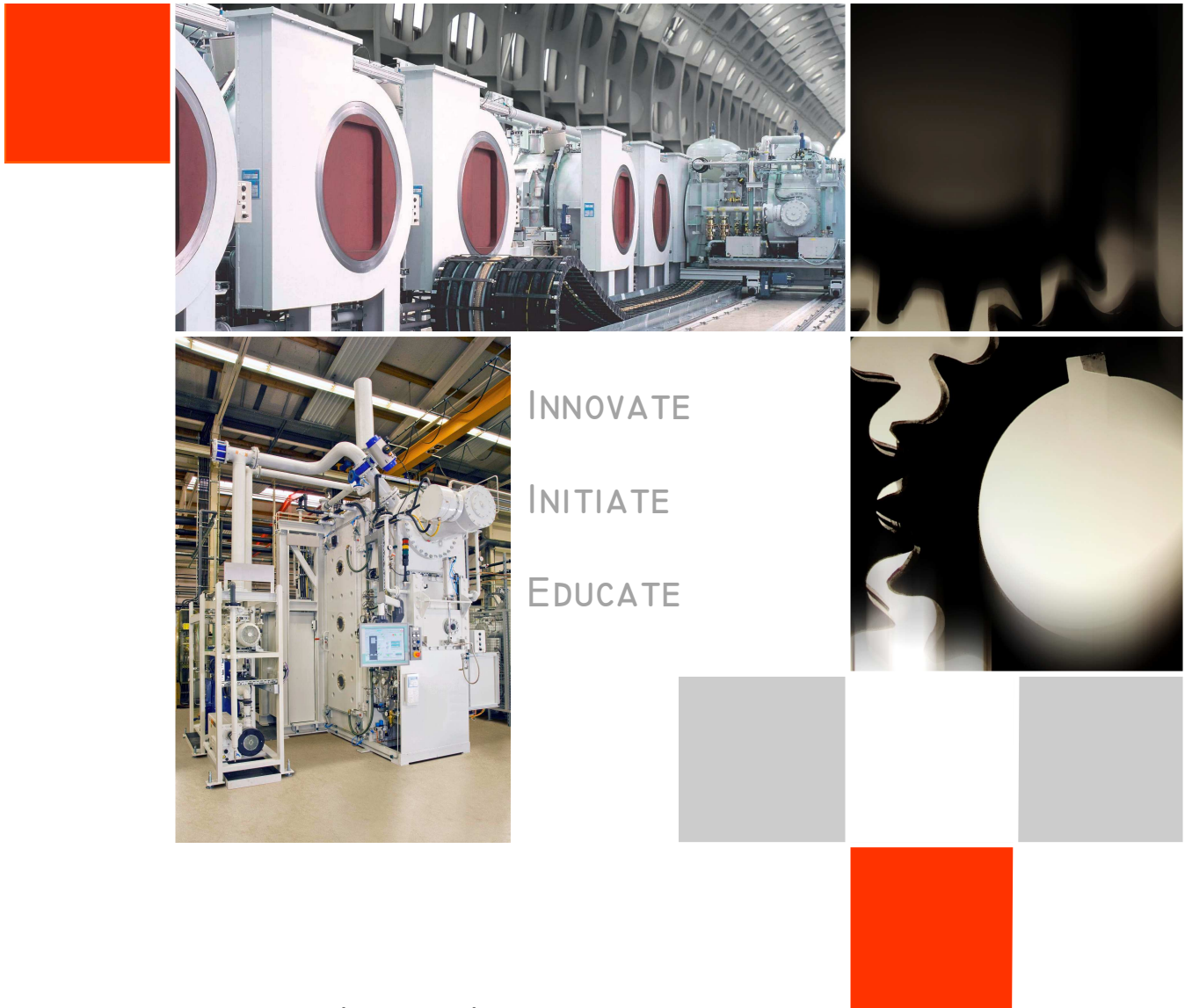


Vacuum Carburizing Symposium



May 22nd & 23rd, 2012

Michigan State University,
Management Education Center
Troy, Michigan

Vacuum Carburizing Symposium

Hosted, organized and presented by ALD-Holcroft; the recognized leader in low pressure vacuum carburizing technologies

only
\$ 295.00
Per Person

Symposium Objective

This two day technical symposium is designed to educate and update you on equipment and metallurgy, as well as technical advancements and techniques for Low Pressure Carburizing and High Pressure Gas Quenching. Bring your questions and receive feedback from leaders in the industry.

Who should attend?

- Vacuum Carburizing experienced users who need more from the process.
- Those considering the change from Atmosphere processing to Vacuum processing.
- Gear and Bearing Design Engineers
- Manufacturing engineers wanting to integrate heat treat into the normal production environment
- Metallurgists concerned with Inter-Granular Oxidation (IGO)
- Users and prospective users of vacuum carburizing equipment

Benefits

- Keep abreast of the key technologies
- Gain insights from outside your specific application for broader understanding
- Network with others involved in the technology

Speaker Profiles

- Industry professionals and senior executives.
- Application Engineers and PhD's
- Metallurgical Scientists
- Experts in Low Pressure Vacuum Carburizing

Technical Program Overview

- Energy Efficiency by LPC Applications
Presented by Dr. Volker Heuer, Director R&D
ALD Vacuum Technologies, Hanau, Germany
- Software Simulation of Vacuum Carburizing
Presented by Dr. Richard D. Sisson, Jr., Dean of
Graduate Studies, George F. Fuller Professor,
Director of Manufacturing & Materials Engineering
Worcester Polytechnic Institute, Worcester, MA
- High Performance Vacuum Carburizing Steels.
Presented by Mr. Patrick Anderson, Principal Met-
allurgical Engineer and Mr. Michael Burnett, Tech-
nologist, The Timken Co., Canton, OH.
- A Comparative Study of Hydrocarbons used in
Low Pressure Vacuum Carburizing.
Presented by Mr. Daniel Herring, President
The Herring Group, Elmhurst, IL
- Vacuum Carburizing in the Aircraft Industry.
Presented by Mr. Robert Peters, President
ALD Thermal Treatment, Port Huron, MI
- High Temperature Vacuum Carburizing
Presented by Dr. Klaus Loeser, Vice President
Technology, ALD Vacuum Technologies, Hanau,
Germany.
- High pressure gas quenching, not just "high pres-
sure". Presented by Mr. Gerhard Welzig,
Manager Mechanical Engineering,
ALD Vacuum Technologies, Hanau, Germany
- LPC in the Commercial Heat Treat Environment
Presented by Mr. Michael Pode, Vice President
ALD Thermal Treatment, Port Huron, MI
- The Future of Fixture Systems, C/C - an
Alternative to Steel
Presented by Mr. Thorsten Scheibel, Senior
Product Manager, America
Schunk Graphite Technology,
Menomonee Falls, WI

The program technical content is evolving as more speakers and topics are being added. Check our website as more details become available.

www.ALD-Holcroft.com

***Round trip, motor coach transportation
will be provided to
ALD Thermal Treatment in Port Huron, MI
for tours, dinner and open bar.***

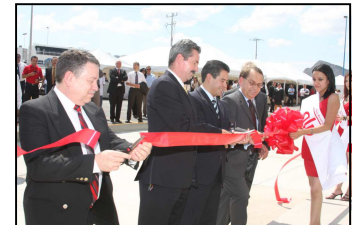
What to expect...

On day #1, plan to arrive at the Management Education Center (MEC) for registration and coffee to make a 9:00 am symposium start time. Yes, coffee and cold drinks are permitted in the auditorium. A mid-morning, light fare break will be provided followed by additional technical sessions. The morning will wrap up with a sit-down luncheon in the facility dining room. Additional technical sessions in the afternoon with a catered break will be followed by a round trip motor coach ride to Port Huron for a factory tour of ALD Thermal Treatment. A four course buffet dinner will be provided with ample time for networking under the big-top at ALD Thermal Treatment. Small informal tours will be assembled while at ALD enabling detailed explanation of the operation, equipment capabilities and processes. After adequate time for tours and dining, we'll return via motor coach to the MEC.

Day #2 will begin as scheduled with coffee and technical exchanges. Again a mid-morning, light fare break will be provided. A second, full luncheon is provided followed by the final technical sessions of the symposium. We plan to conclude by 3:00 pm.

Symposium History

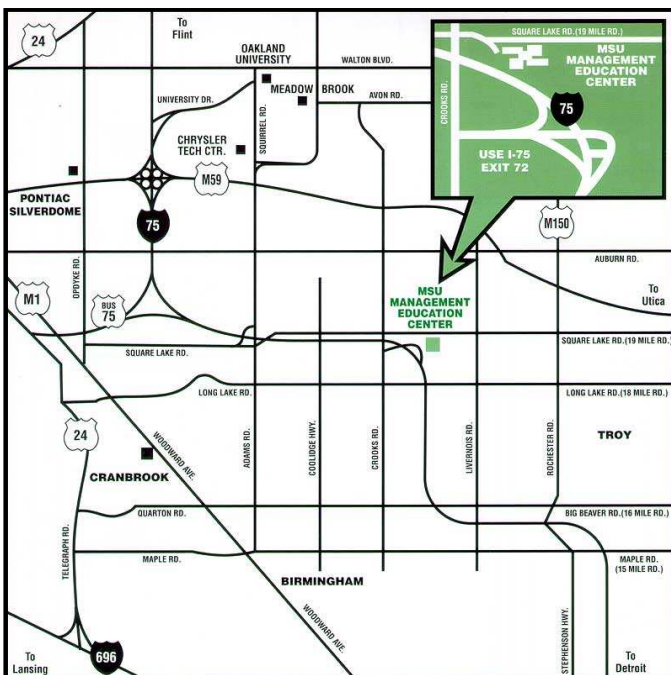
| | |
|-------------------|--------|
| Blythewood, SC | - 2002 |
| Blythewood, SC | - 2003 |
| Queretaro, Mexico | - 2004 |
| Blythewood, SC | - 2005 |
| Port Huron, MI | - 2006 |
| Dearborn, MI | - 2008 |
| Troy, MI | - 2012 |



The Vacuum Carburizing Symposium has a distinguished history of providing the very best in innovation, information and education.

Location: Michigan State University, Management Education Center

MICHIGAN STATE UNIVERSITY



Directions

From I-75 take the Crooks Road exit (exit #72). At the end of the exit ramp turn right and go 1/2 mile north on Crooks Road to the intersection of Square Lake Road. Turn right on to Square Lake Road and head east. Use the first MSU-MEC driveway on the right hand side.

Parking is free & located very close to the building.

Local Accommodations

Embassy Suites, Troy

850 Tower Drive, Troy MI 48098
248-879-7500

Radisson Hotel Detroit-Bloomfield Hills

39475 N. Woodward, Bloomfield Hills, MI
248-644-1400

Best Western Concorde Inn

M-59 & Crooks, Rochester Hills, MI
248-299-1210

Drury Inn, Troy

575 W. Big Beaver Road, Troy, MI
248-528-3330

Additional accommodations and complete facility details are available on the MEC website at www.mectroy.com.

Registration

Registration fees must be paid in advance of the event. The listed fee includes attendance at all sessions, group luncheons, and group evening dinner with round trip transportation to ALD Thermal Treatment in Port Huron Michigan. Your event materials and credentials will be prepared and waiting for you at the registration area. Invited on-site registrants, with credit card payment, will be admitted on a space available basis.

To confirm your registration, send the form below to ALD-Holcroft. You may also telephone ALD-Holcroft between the hours of 9:00 a.m. & 2:00 p.m. EST; please contact **Jill Ciszewski** at (248) 668-4004 or **Michelle Lutz** at (248) 668-4028 for phone registration. Upon receipt of your registration, you will be sent a confirmation letter.

**All registrations must be received by
May 4, 2012**

Watch our web site (www.ALD-Holcroft.com) for additional news and updates regarding the Symposium

Cancellations

Cancellations are subject to a \$100.00 service charge if not received by **May 4, 2012**.

You must obtain a cancellation number to verify cancellation. Participants with confirmed registrations who fail to notify ALD-Holcroft of a cancellation prior to the event are subject.

ALD-Holcroft has the right to amend this program as necessary. In the event of a program cancellation, ALD-Holcroft is not responsible for incidental costs incurred by registrants.



ALD-Holcroft Vacuum Technologies

49630 Pontiac Trail
Wixom MI 48393-2009

Telephone: 248-668-4130
Web: www.ald-holcroft.com

REGISTRATION FORM

Please type or print

Name _____ Title _____

Company _____ Division _____

Company Mailing Address (including street and/or P.O. Box, City, State, Zip Code and Country) _____

(____) _____ (____) _____
Telephone (including area code) Fax E-Mail

Method of Payment: [] Check or Purchase Order Enclosed [] Please Charge Registration to My Credit Card
[] VISA [] MasterCard [] American Express

Credit Card Number

Exp. Date Security Code

Cardholder's Name: _____ Signature: _____

Please check here if you have vegetarian dietary needs.

Email to: LPCSymposium@ALD-Holcroft.com or Fax to: 248-668-5586