GEAR UP FOR
THE WINDS OF CHANGE

Heat Treating Society
Conference and Exposition

Conference
September 14-17, 2009

Exposition
September 15-16, 2009

Education Short Courses
September 13, and 16-17, 2009

Indiana Convention Center
Indianapolis, IN USA

Involved with heat treating? You can’t afford to miss the 25th ASM Heat Treating Society Conference and Exposition, America’s leading heat treat event.

Hear It. Listen to the visionaries and innovators in your field.

Get It. Acquire the latest advances from the leading researchers in heat treating.

Learn It. Hands-on workshops and education courses give you in-depth coverage from advanced technology to global competitiveness.

Face It. The best way to do business and learn is in person. Phone calls and web meetings are no substitute for the power of face-to-face interaction.

Double It. This year, we’re co-located with Gear Expo. Choose from expanded technical programming and feel the synergy when you Get the Power of Two.

Gear up for the heat treating event of the year.

Register Today at www.asminternational.org/heatreat
Dear Industry Colleagues:

**Are you Gearing Up for the Winds of Change?**

Today’s global market requires a proactive versus reactive approach to provide more value at lower cost and to address the challenges of tomorrow.

Heat Treat 2009 is your opportunity to learn about the latest worldwide developments in both traditional and green heat treating-related equipment and processes that are Driving the Winds of Change. Recognized by industry, academia, and government professionals as the premier heat treating event in North America, the ASM Heat Treating Conference and Exposition (HT ’09) features the best in interdisciplinary research, applied industrial practices, emerging technologies and management issues.

During this three-day event that takes place only every 24 months, there will be plenty of networking and learning opportunities. We have built our strongest technical program yet – and here’s how we did it:

- Speakers have 40 minutes for thorough presentation and have planned for interactive questions and answer sessions.
- Oral presentations focus on emerging technologies, current trends, industry challenges and solutions.
- The Richard E. Haimbaugh Symposium (Monday-Wednesday) honors a world-renowned mentor and friend from the induction industry.
- Our two-day exposition opens on Tuesday morning with value-added activities, such as our “Panel discussion” programming – a great way to get practical applications and business answers from the experts.
- The 3rd annual “Meet the Authors” session will take place on the exhibit floor (Tuesday evening) as a forum to view and discuss one-on-one with the authors from our technical program.

The 25th ASM Heat Treating Society Conference and Exposition, will not only provide you with focused and quality-driven technical presentations, but will also offer you the benefit of interacting with colleagues with similar interests.

Join us at this year’s ASM Heat Treating Society Conference and Exposition and learn ways to apply the latest heat treating technology to lean manufacturing strategies.

**HT ’09 is an event not to be missed! See you in Indy!**

Fred R.Specht  
District Sales Manager  
AJAX Tocco  
Magnethermic

D. Scott MacKenzie  
Technical Specialist  
Heat Treating Products  
Houghton International

Dale Weires  
Associate Technical Fellow  
The Boeing Company

Register Today at [www.asminternational.org/heatreat](http://www.asminternational.org/heatreat)
**Technical Program***

**Monday, September 14**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10 a.m. - Noon</td>
<td>Dick Haimbaugh Symposium – Applied Energy</td>
</tr>
<tr>
<td>2 - 3:20 p.m.</td>
<td>Heat Treatment of Gears Used in Wind Power</td>
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<tr>
<td>3:40 - 5 p.m.</td>
<td>Richard Haimbaugh Address</td>
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**Equipment Innovations**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10 a.m. - Noon</td>
<td>Combustion System</td>
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**Processes and Applications**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10 - 11:20 a.m.</td>
<td>Atmosphere Carburizing</td>
</tr>
<tr>
<td>10 a.m. - Noon</td>
<td>Aluminium Heat Treating</td>
</tr>
<tr>
<td>1:20 - 3:20 p.m.</td>
<td>Nitriding Cylindrical Heat Treating</td>
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<tr>
<td>1:20 - 3:20 p.m.</td>
<td>Titanium Heat Treating</td>
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**Quenching and Cooling**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:20 - 3:20 p.m.</td>
<td>Quenching Fundamentals and Gear Manufacturing</td>
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**Vacuum Technology**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10 a.m. - Noon</td>
<td>High Pressure Gas Quenching</td>
</tr>
<tr>
<td>1:20 - 3:20 p.m.</td>
<td>Low Pressure Vacuum Carburizing 1</td>
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</tbody>
</table>

**Tuesday, September 15**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9 - 10:20 a.m.</td>
<td>Atmosphere Technology</td>
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<tr>
<td>10:40 a.m. - Noon</td>
<td>Carburizing 1</td>
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<tbody>
<tr>
<td>9 - 10:20 a.m.</td>
<td>Dick Haimbaugh Symposium – Applied Energy</td>
</tr>
<tr>
<td>10:40 a.m. - Noon</td>
<td>Simulation of Induction Processes 1</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9 - 10:20 a.m.</td>
<td>Equipment Innovations</td>
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<tr>
<td>10:40 a.m. - Noon</td>
<td>Open Topics</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:40 a.m. - Noon</td>
<td>Global Issues</td>
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**Wednesday, September 16**

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9 - 10:20 a.m.</td>
<td>Atmosphere Technology</td>
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<tr>
<td>10:40 a.m. - Noon</td>
<td>Carburizing 2</td>
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<td>Dick Haimbaugh Symposium – Applied Energy</td>
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<tr>
<td>10:40 a.m. - Noon</td>
<td>Simulation of Induction Processes 2</td>
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<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9 - 10:20 a.m.</td>
<td>Emerging Technology</td>
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<tr>
<td>10:40 a.m. - Noon</td>
<td>Surface Hardening</td>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:40 a.m. - Noon</td>
<td>Thermal Processes</td>
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**Processes and Applications**

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<th>Time</th>
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<tr>
<td>9 - 10:20 a.m.</td>
<td>Thermal Process Microstructures</td>
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<tr>
<td>9 - 10:20 a.m.</td>
<td>Vacuum Technology</td>
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<tr>
<td>10:40 a.m. - Noon</td>
<td>Low Pressure Vacuum Carburizing 2</td>
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<tbody>
<tr>
<td>10:40 a.m. - Noon</td>
<td>Special Vacuum Processes</td>
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*Sessions/times are subject to change.

**New this year – Heat Treat ’09 Roundtable Forum**

Join in and be a part of the industry expert’s panel discussion. The exchange focuses on the timely challenges of heat treating:

- Large gears
- Vacuum furnace maintenance
- Quenching

Register Today at [www.asminternational.org/heattreat](http://www.asminternational.org/heattreat)
Technical Program

The Heat Treating Conference and Exposition and Gear Expo 2009 is the world’s ONLY conference and exposition that exclusively combines both the heat treating and gear industries. This year’s theme emphasizes the close association between geared products and the heat treating industry. This is a unique opportunity to learn about the newest trends and technologies within your industry.

HT ’09 provides you with answers to your technical challenges and helps you define the path forward. The technical program offers unique access to learn from and interact with heat treating experts across all industries.

“Gearing Up for the Winds of Change”
Learn how the growing market for large gear manufacturing is influencing the design and selection of heat treating processes and equipment. What tools are the leaders in the heat treating using? Find out at HT ’09.

The Richard Haimbaugh Symposium on Induction Heat Treatment.
Seven technical sessions feature the world’s leading experts on induction heat treating honors one of the leading industry experts, Mr. Richard Haimbaugh, author of Practical Induction Heat Treating. Many of these experts will participate in a round-table discussion that allows you to get direct answers to your questions.

Education Short Courses and Workshops

Pre-conference Courses
Heat Treating for the Non-Heat Treater
Sunday, September 13
8 a.m.-4 p.m.
Scott MacKenzie

Post-conference Courses
Practical Heat Treating
Thursday, September 17
8 a.m.-4 p.m.
David Pye

Workshops
Heat Treatment of Gears: a half-day workshop
Tuesday, September 15
1-5 p.m.
B. Lynn Ferguson
Daniel H. Herring
Scott MacKenzie
Fred Specht
Dale J. Weires

A Review of Surface Treatments for Gears and Tooling: a half-day workshop
Wednesday, September 16
1-6 p.m.
David Pye

Exposition/Sponsorship/Advertising

ASM and the Heat Treating Society is your partner for connecting with highly qualified attendees. HT 2009 is dedicated to delivering the audience you want and the value you need. There is no better opportunity for conducting business with the global heat treating community for you as an exhibitor.

Be part of an exclusive group.
Get noticed. Gain even more exposure with a Virtual Expo Site Sponsorship. Limited inventory. Contact Kelly Thomas, National Account Manager, kelly.thomas@asminternational.org or 440.338.1733 for details.

Take your booth beyond the show floor... with MyHeatTreatExpo.com!

This year, increase your exposure beyond the confines of the exhibitor hall and tap into the global heat treat community.

With myheatreatexpo.com – your virtual heat treat trade show, attendees, innovators and influencers from around the world can visit your booth – anytime, anywhere. They can even visit your booth before and after the exposition is over.

Take advantage of this opportunity to increase exposure and tap into the global world of heat treating.

- Showcase your products and services
- Reach customers and prospects worldwide
- Increase your exposure, before and after the show

Attendees will:
- Browse the expo to find out all that’s happening at the show
- Search the show by product, booth number, and company name
- Plan their visit to the show

Register Today at www.asminternational.org/heattreat
GEAR UP FOR THE EXPO.
Here’s Your Expo Pass.

Heat Treat ’09 Expo

Thousands of heat treating professionals gather at the Heat Treat Expo. It is THE industry event. ASM and the Heat Treating Society deliver the audience, the exhibitors and the show floor activity you’re looking for.

- Make the most of this opportunity to investigate and purchase capital equipment – now’s the time.
- Learn about new upgrades and retrofits – enhance productivity and profitability.
- Evaluate new technologies and processes and see how you can benefit.


**Two days of heat treating excitement.**

**Tuesday, September 15**
10 a.m. - 7 p.m.

Networking Reception
5 - 7 p.m.

**Wednesday, September 16**
10 a.m. - 5 p.m.

Round table forum/panel discussions
right on the show floor
1 - 3 p.m.

**Heat Treating Exhibitors (Exhibitor List as of June 15, 2009)**

- Abbott Furnace Company
- ABP Induction
- Achemetal, Inc.
- Across USA
- AEG Power Solutions
- AFC-Holcroft
- Aichelin Heat Treatment Systems
- Air Products & Chemicals, Inc.
- Airflow Sciences Corporation
- Ajax TOCCO
- Allegheny Alloy, Inc.
- Alpha 1 Induction
- Applytech, Inc.
- Aquous Recovery Resources, Inc.
- Atmosphere Engineering Company
- AvenMat, Inc.
- Beijing Savaemet Technology Co. Ltd
- Bodycote
- Buehler LTD
- Can-Eng Furnaces
- Carbon Composites, Inc.
- CES
- Cleveland Electric Labs
- Contour Hardening Inc.
- Cosel Wire Products
- Corex, Inc.
- Core Furnace Systems Corp.
- Custom Electric Manufacturing Co.
- Datapak, Inc.
- Deformation Control Technology, Inc.
- Dibalqox North America Inc.
- DMP Cryosystems
- DRY COOLERS INC
- ECM USA, Inc.
- EFD Induction
- Elmet Technologies, Inc.
- Eurotherm
- Flame Treating Systems, Inc.
- Finn & Dreifthen Eng. Co.
- Fluorolinc Inc.
- FROHIN North America, Inc.
- Fuji Denitsu Capital Induction
- Furnace Parts LLC
- Geocorp, Inc.
- GH Group
- Graphite Metallizing Corp.
- Harvard Corporation
- Hauk Manufacturing Company
- Heat Treating Services Unlimited, Inc.
- Heat bath/Park Metallurgical Corp.
- Heesent GmbH & Co. KG
- Huettinger Electronic, Inc.
- HydroThrift Corporation
- Idemitsu Lubricants America Corp.
- Inductoheat
- Inductotherm Group
- INEX Inc.
- International Technical Resources, Inc.
- Inter-Power Corporation
- Ipsen, Inc.
- J.L. Becker Co.
- Jackson Transformer Co.
- Jindong Kinter & Sons
- Jackson Transformer Co.
- Johnstone Co., Inc.
- Jensen Industries Inc.
- Johnstone Co., Inc.
- L&L Special Furnace Co., Inc.
- Land Instruments Co.
- LumaSense Technologies
- MCDaniel Advanced Ceramic Technologies
- Metallurgical High Vacuum Corporation
- Microtherm
- North American Cranebo Inc.
- Nutec Bickley, S.A. de C.V.
- O’Brien & Gere
- Oerlikon Leybold Vacuum
- Park Thermal International
- PLANSEE USA
- Process Development & Control, Inc.
- Protection Controls, Inc.
- Pyradia
- Quiet-Fab
- Raydine Corp.
- Raytek Corp.
- Roll Alloys
- Russells Technical Products
- SAE Group
- SBS Corporation
- Schunk Graphite Technology
- SEC/MAVICK
- Sellas
- Solar Manufacturing
- Steeltech Ltd.
- Sun-Tec Corporation
- Surface Combustion Inc.
- Suzhou Advanced Rare Metal
- Tech Induction
- Televac
- Tenax Technologies, Inc.
- The Morgan Group
- Thermo Care
- Thermacon Corporation
- Thermo Transfer Inc.
- Thermo-Cal Software
- Tianxing Testing Instruments
- United Process Controls
- Vac-Aero International Inc.
- Vacuum Processes Inc.
- Wellman Furnaces Inc.
- West Instruments
- Williams Industrial Service
- Wilco, Inc.
- WS Thermal Process Technology, Inc.
- Yokogawa Corporation of America
- Zircar Refractory
- Composites, Inc.