# 2016 BE THERE FN

# Miss FNA 2016... And You Miss Your Competitive Advantage

Get Face-to-Face with Industry Leaders and Buyers!



THE HEAT TREATING INDUSTRY'S PREMIER TRADE SHOW



October 3-5, 2016

### STAY CURRENT WITH CHANGING TRENDS & EMERGING TECHNOLOGIES

- Emerging Technologies
- 2 Networking Events
- Over 35 Technical Sessions
- **✓** Over 160 Top Suppliers to Heat Treating Industry
- ✓ Network With Attendees From 40 States and 8 Countries
- ✓ Maximizing Productivity & Safety





### Dear MTI Members,

It's undeniable: the heat treatment industry is changing. Key elements driving this change include emerging technologies, demographic shifts and consumer buying habits. So how do we adapt to these changes and continue to foster growth?

As we all try to answer this question, it's important to come together as an industry and share our insights, expertise and experiences. MTI's Fall Meeting in conjunction with Furnaces North America (FNA) 2016 is one such opportunity.

On behalf of the Metal Treating Institute (MTI) Board of Trustees, and as the 2016 President of the MTI, I would like to invite you to attend this educational event and take away a new perspective on the changes – and opportunities – facing the heat treatment industry.

MTI, in partnership with *Industrial Heating*, is excited to host FNA 2016, which will take place in Nashville, Tennessee from October 3-5. FNA is considered the industry's largest heat treating conference and exposition, and it provides furnace manufacturers, customers and potential customers an invaluable opportunity to gather together to learn about the latest trends in cutting-edge equipment and technology.

This year, FNA 2016 will feature an opening keynote presentation by former NBA basketball player, Walter Bond, on the *Keys to Peak Performance*. You will also be able to network with more than 160 top suppliers and engage in your choice of 35 technical sessions that cover a range of topics – from the latest technical information on instrumentation and automation to new technology for enhancing energy efficiencies.

Additional key features of FNA 2016 include the ability to:

- Learn about new processes that minimize labor and increase output
- Discover emerging technologies for furnaces and other heating treating equipment
- Implement solutions for resolving everyday maintenance and technical challenges
- Connect with heat treaters from more than 20 countries as they share their new ideas for the industry

As we navigate the changes facing the heat treatment industry, I hope you join us at FNA 2016 to share ideas, discuss the future and learn from the best minds in the industry.

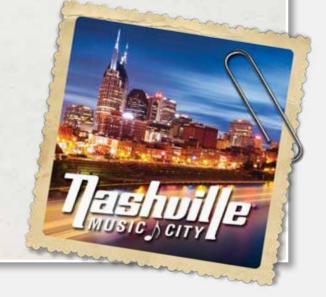
To register for FNA 2016, or to learn more about the event, visit our show website: www.furnacesnorthamerica.com.

I look forward to seeing you in Nashville.



Potrick McKenna

Patrick McKenna 2016 MTI President Ipsen USA





# FNA 2016 Technical Sessions

## >TIMES

# >EDUCATIONAL TRACKS

## >PRESENTERS



# Who Should Attend

✓ Heat Treat Company Owners

✓ Heat Treat Department Managers

✓ Heat Treat Division Directors

✓ Heat Treat Facility Managers

✓ Heat Treat Production Managers

✓ Heat Treat Technical Directors

8:45a - 9:15a

9:30a - 10:00a

10:15a - 10:45a

Fire Safety

Fire Safety

Fire Safety

Combustion Safety

Combustion Safety

✓ Heat Treat Systems Superintendents

✓ Heat Treat Metallurgical Engineers

✓ Heat Treat Operations Coordinators

✓ Heat Treat Maintenance Managers

✓ Heat Treat Quality Control Managers

TUESDAY, OCTOBER 4			
9:15 - 9:45 a.m. Equipment- Maintenance PdMetrics™ Case Studies: Implementing Prediction	tive Maintenance in the Thermal		
<b>10:00 - 10:30 a.m.</b> Equipment-Maintenance Efficient Gas Heating of Industrial Furnaces; Mark	tin Schoenfelder, WS Thermal		
10:45 - 11:15 a.m. Equipment-Maintenance A Case Study: Effective Furnace Atmosphere Circ	culation with New Furnace Technolo-		
9:15 - 9:45 a.m. Induction Induction Induction and Furnace Tempering of Martensitic Heat Treating Excellence	Steels; Richard Sisson, Center for		
10:00 - 10:30 a.m. Induction Induction Process Monitoring; TBA, Interpower I	Induction		
10:45 - 11:15 a.m. Induction Induction Heat Treat - Shortening the Time to PP. Tooling Inc.	PAP; Sandra Midea, P.E., Induction		
9:15 - 9:45 a.m. Emerging Technology Machine Learning and Furnace Performance - A Eurotherm by Schneider Electric	Powerful Future; Peter Sherwin,		
<b>10:00 - 10:30 a.m.</b> Emerging Technology Vacuum Heat Treating of Additive Manufactured Spheres of W. PA	Components; Bob Hill, Solar Atmo-		
<b>10:45 - 11:15 a.m.</b> Emerging Technology Treating Excellence Modeling Surface Engineering Processes in Stee	els; Richard Sisson, Center for Heat		
9:15 - 9:45 a.m. Materials Theory of Graphite, Carbon Fiber, & Ceramic Fiber	er; Jamie Kuriger, Toyo Tanso USA		
10:00 - 10:30 a.m. Materials Hybrid Fixturing; Bill Warwick, Schunk Carbon Te	echnology		
10:45 - 11:15 a.m. Materials Metallurgy and Processing Experiences with High ing Baskets; Marc Glasser/Roger Jones, Rolled A	•		
9:15 - 9:45 a.m. Compliance The Cost of (poor) Quality; Todd Wenzel, Through	hput   Bluestreak		
<b>10:00 - 10:30 a.m.</b> Compliance AMS-2750 Interpretation Challenges; Colin Thoming & Pyrometry, Inc.	nas/Andrew Bassett, Aerospace Test-		
10:45 - 11:15 a.m.   Compliance   Principles of Pyrometry; Jason Schulze, Conrad	Kacsik Instrument Systems		
WEDNESDAY, OCTOBER 5			

	M	VEDNESDAY, OCTOBER 5
8:00 - 8:30 a.m.	Operations	Using, Saving and Managing Energy in a Heat Treat Facility; Michael Stowe, Advanced Energy
8:45 - 9:15 a.m.	Operations	Hydrogen/Nitrogen Recovery System; John McPhearson, Lectrodryer
9:30 - 10:00 a.m.	Operations	Total Plant Scheduling; Becki Kerr, Cornerstone Systems, Inc.
10:15 - 10:45 a.m.	Operations	Zero inventory Hydrogen Eases Compliance; David Wolff, Proton OnSite
8:00 - 8:30 a.m.	Vacuum	Low Pressure Carburizing with Oil and Gas Quenching; Dennis Beauchesne, ECM USA Inc
8:45 - 9:15 a.m.	Vacuum	Modern Vacuum Instrumentation: What to Consider When Upgrading; Steven Christopher, Super Systems Inc
9:30 - 10:00 a.m.	Vacuum	Vacuum Heat Treatment Harden & Temper; Ben Bernard, Surface Combustion
10:15 - 10:45 a.m.	Vacuum	New Developments in Vacuum Furnace Hot Zone Designs; Bill Jones, Solar Manufacturing, Inc.
8:00 - 8:30 a.m.	Processes	High Nitrogen Carbonitriding – Improving Energy Efficiency of Powertrain Components; Michael Winter, United Process Controls
8:45 - 9:15 a.m.	Processes	Controlled Nitriding of Stainless Steels; Jack Kalucki, Nitrex Metal, Inc.
9:30 - 10:00 a.m.	Processes	Recent Developments in Modern Heat Treatment Processes; Thomas Metzger, PVA Industrial Systems GmbH
10:15 - 10:45 a.m.	Processes	How to Control Process and Equipment Variability; Dan Herring, The HERRING GROUP, Inc.
8:00 - 8:30 a.m.	Heat Treating Systems	Rotary Retort Furnaces Mesh with Fasteners; Mark Hemsath, SECO/WARWICK
8:45 - 9:15 a.m.	Heat Treating Systems	Increasing Productivity in Atmospheric Carburizing; Curt Colopy, INEX Incorporated
9:30a - 10:00a	Heat Treating Systems	Modular Batch Austemper Line Improves Utilization and Energy Efficiency and Supports Flexible Manufacturing; Patrick Weymer, JL Becker/Gasbarre Furnaces
10:15a - 10:45a	Heat Treating Systems	Next Generation Industrial Furnace Systems; Joe Saliba, Can-Eng Furnaces International Ltd.
8:00a - 8:30a	Fire Safety	Fire Safety in the Heat Treat - Part 1; Jason Safarz/Jim Roberts, Honeywell/CEC Combustion Safety

Fire Safety in the Heat Treat - Part 2; Jason Safarz/Jim Roberts, Honeywell/CEC

Explosions - Where do They Start?; Jason Safarz/Jim Roberts, Honeywell/CEC

Fire! Who Ya Gonna Call?; Jason Safarz/Jim Roberts, Honeywell/CEC Combustion Safety

# TOP BENEFITS OF ATTENDING FNA 2016

**ARN** the keys to **fire explosion prevention** and safety.

**EAR** solutions to your everyday equipment maintenance problems.

the latest **technical information** on instrumentation & automation.

the latest **emerging technologies** in vacuum, induction and processes.

new solutions in operations and heat treating systems to minimize labor and increase output.

150+ suppliers that can **solve your operation and production needs.** 

the latest compliance issues with AMS 2750 and Pyrometry.

with the **best minds in heat treating** from all over the world.







## **FNA 2016 Educational Tracks:**

- ✓ Equipment/Maintenance
  ✓ Compliance
  ✓ Processes
- Emerging Technologies
- ✓ Induction
- Materials

- ✓ Vacuum

- ✓ Fire Safety ✓ Heat Treat Systems
  - Operations

FNA (2016)

FNA Featured Keynote Speaker: WALTER BOND –

The Keys to Peak Performance

inspiration

"One of the best speakers you will ever see in your life."



# Oct. 3-5, 2016 • Nashville, Tennessee • FumacesNorthAmerica.com

### **FNA 2016 EXHIBITOR LIST**

**COMPANY** (\*signifies MTI Membership)

Abbott Furnace Company

Across USA Inc.

Advanced Corporation for Materials & Equipments

Advanced Energy Industries\*

Aerospace Testing & Pyrometry, Inc.\*

### AFC-Holcroft LLC\* (Title Sponsor)

Ajax TOCCO Magnethermic Corporation

ALD Vacuum Systems, Inc.

Allied Mineral Products, Inc.

Alloy Engineering Co.

**Ambrell Induction Heating Solutions** 

Ashworth Bros., Inc.

ASM International

Atmosphere Engineering Company\*

Avion Manufacturing Co.\*

Bronkhorst USA

BTU International

Busch USA

C. I. Haves, Inc.

Can-Eng Furnaces Int'l Ltd.\*

Carbon Composites Inc.

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Chemtool Incorporated\* Cleveland Electric Laboratories

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Conax Technologies

Conrad-Kacsik Instrument Systems, Inc.\*

Control Concepts Inc.

**Cooley Wire Products** 

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Cress Manufacturing

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**CVD** Equipment Corporation

Danieli Centro Combustion SpA

Daniels Fans DATAPAQ

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DixiTech CNC\*

Dry Coolers, Inc.\*

DuBois Chemicals / Heatbath\*

Duraloy Technologies, Inc.

ECM USA, Inc.\*

Econox

Edwards Vacuum Ltd

Elmet Technologies

EMSCO, Inc.

Epcon Industrial Systems, LP

**Equipment Controls Company** 

Eurotherm by Schneider Electric\*

Furnacare, Inc.

Furnace Control Corp. A Member of United Process Controls

G-M Enterprises\*

Gasbarre Furnace Group\*

Gear Solutions Magazine

Gefran, Inc.

GeoCorp, Inc.

GH Induction Atmospheres

Graphite Machining, Inc.

H. C. Starck, Inc.

Heat Treating Services Unlimited, Inc.\*

Herakles (Safran Group)

Honeywell Industrial & Commercial Thermal\*

Houghton International

Idemitsu Lubricants America Corp.

Induction Tooling, Inc.\*

Industrial Heating Equipment Association

Industrial Heating Magazine\*

INEX Incorporated\*

Innova Techno Products PVT Ltd.

International Thermal Systems LLC

ION-HEAT

IPS Ceramics Ltd.

Ipsen USA\*

### J. L. Becker\* (Title Sponsor)

Jackson Transformer Company

Jensen Industries, Inc.

Johnstone Co., Inc.

L&L Special Furnace Co., Inc.

Lectrodryer

Lindberg/MPH

LTG Incorporated

Marathon Monitors, Inc. A Member of United Process Controls

Material Interface, Inc.

McDanel Advanced Ceramic Technologies

McLaughlin Services LLC\*

Mercer Technologies, Inc.

Metal Treating Institute\*

Metallurgical High Vacuum Corp.\*

Molybdenum & Tungsten International - Moltun International

Morgan Advanced Materials

Nanmac Corp.

Ningbo Firewheel Thermal Insulation & Sealing Co., Ltd

Nitrex Metal. Inc.

Noble Industrial Furnace Co. Inc.

North American Construction Services Inc.

North American Cronite, Inc.\*

**NOXMAT GmbH** 

Oerlikon Leybold Vacuum

Orton Ceramic Foundation

Park Thermal International (1996) Corp.\*

PhoenixTM LLC

PLANSEE USA LLC

Power Parts International

Prayair Inc.

Premier Furnace/BeaverMatic

Procedyne Corp.

Protection Controls, Inc.

Proton OnSite PVA TePla AG

PVT Inc.

Qual-Fab, Inc.

R.D. Technologies

Radyne Corporation\* Raytek Corp.

Rock Valley Oil & Chemical Co.

Rohde GmbH

Rolled Alloys Rubig US, Inc.\*

Sandvik Heating Technology USA

SBS Corporation\*

Schmidt + Clemens GmbH + Co. KG

Schunk Carbon Technology, LLC SECO/WARWICK Corporation\*

Selas Heat Technology

Sentry Insurance\*

SGL Group - The Carbon Company

Siemens Combustion Controls, Inc.

Siemens Industry, Inc.

Signature Vacuum Systems, Inc.

Solar Manufacturing

South Tek Systems

Stand Energy Corporation\*

Struers Inc.

Super Systems, Inc.\*

### Surface Combustion, Inc.\* (Title Sponsor)

T & D Manufacturing Tungsten and Molybdenum

Taylor-Winfield Technologies, Inc.

TE Wire & Cable

Temtek Solutions

Tenova Core

Thermal Care, Inc.

Thermcraft, Inc.

Thermo Transfer, Inc.

Throughput | Bluestreak\*

Toyo Tanso USA

Trillium US, Inc.

Ultra Electronics - Furnace Parts\*

Upton Industries Inc.

Vac-Aero International, Inc.

Vacuum Research Corporation Verder Scientific

W.H.Kay Co.

Warner Power

Waukee Engineering Company, Inc. A Member of United

**Process Controls** 

Williams Industrial Service, Inc.\*

Wirco, Inc.

Wisconsin Oven Corporation

WS Thermal Process Technology Inc.\*

Wuxi Junteng Fanghu Alloy Casting Co., Ltd Yokogawa Corp. of America

ZIRCAR Refractory Composites, Inc.



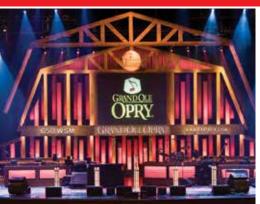








## **HOTEL AND TRAVEL INFORMATION**





### TO BOOK YOUR HOTEL ONLINE VISIT: www.furnacesnorthamerica.com



611 Commerce St. - Nashville, Tennessee Phone Reservations: 1-877-901-6632

FNA Group Rate: \$189 Group Rate Code: FNA/MTI



Hilton Doubletree 314 4th Avenue, North, Nashville, TN

Group Rate: \$219. Group rate code: FNA To reserve a room, call 800-222-8733





(deadline for group rate September 2, 2016)

Experience all that Music City has to offer within one distinctive property, the Renaissance Nashville hotel in downtown Nashville, Tennessee, perfectly positioned in the heart of the business district. A recently renovated luxury hotel in Nashville, TN, the Renaissance is conveniently connected to the Convention Center and provides easy access to many attractions including Bridgestone Arena, LP Field, B.B. King's Blues Club, Country Music Hall of Fame & Museum, Schermerhorn Symphony Center, Historic Second Avenue District and the Johnny Cash Museum.





# MTI Fall Meeting/FNA 2016 Registration Form

NASHVILLE, TN • OCT. 3-5, 2016

## REGISTRATION FORM A separate registration form must be completed for each company employee attending the MTI Fall Meeting



		Registration Type			
FIRST/LAST NAME:		O Employee/Member	O Spouse/Guest	O Child	
FIRST/LAST NAME:		O Employee/Member	O Spouse/Guest	<ul><li>Child</li><li>Child</li><li>Child</li></ul>	
FIRST/LAST NAME:		O Employee/Member			
FIRST/LAST NAME:		O Employee/Member			
FIRST/LAST NAME:		O Employee/Member O Spouse/Guest			
MEMBER POSITION					
MEMBER COMPANY					
MEMBER ADDRESS					
CITY	STATE	COUNTRY/ZIP (	COUNTRY/ZIP CODE		
PHONE	FAX E-MAIL				
			d for meeting annour	ncements	
A. PRIMARY FUNCTION  O CEO/President/General Manager  O Guest  Maintenance  Manager/Supervisor  Marketing/Sales  Metallurgist/Supervisor  Purchasing  Quality Control/Assurance  Technician/Operator	<ul> <li>20-49</li></ul>	CKALL THAT APPLY)  OHardening  High Spee  Laser Hear  Low Temp  Marquencl  Nitriding	d Steel tTreating Carbonitriding		
B. PURCHASING AUTHORITY O Approve Recommend	<ul><li>Carburizing</li><li>Composites</li><li>Cryogenic Treating</li></ul>	<ul><li>Sintering</li><li>Straighten</li><li>Tool Steel</li></ul>	ing		
O Specify  C. TYPE OF ORGANIZATION  O Consulting O Education O Government O Heat Treating Captive O Heat Treating Commercial O Supplier To Industry O Testing Facility/R&D	F. PRIMARY INDUSTRY SERVED ( O Aerospace O Agricultural O Automotive O Basic Steel (Mill) O Forgings O Foundries O Home Appliances O Material Handling Equipm	<ul><li>Military</li><li>Mining Eq</li><li>Petroleum</li><li>Production</li><li>Railroad</li><li>Stampings</li><li>Steel Ware</li></ul>	/Utilities n Machinery		

Registration includes entry into the FNA Conference with 35 Technical Sessions, FNA Expo, 3 Networking Receptions and the MTI Dinner Gala (does not include beverages during MTI Dinner Gala.)			
Member/Employee:	\$324 Qty:	Total:	
Spouse/Guest:	\$175 Qty:	Total:	
Children* (3-12)	\$75 Qty:	Total:	
Grand Total to Be Processed: \$			

METHOD OF PAYMENT NOTE: THIS CHARGE WILL BE PROCESSED SECURELY BY PAYPAL						
O AMEX	OVISA	O MASTERCARD	O DISCOVER	O COMP.	ANY CHECK	
CARD#_			EXPIRATIO	N	_ SECURITY_	
NAME ON	CARD					
BILLING CI	TY			BILLING S	TATE	
SIGNATUR	E					