

Heat Treat 2019 Bigger and Better Than Ever

As the way things are manufactured continues to evolve, manufacturing trade shows are keeping pace with that evolution.

A perfect example of that can be found at this year's biennial Heat Treat 2019 (Oct. 15–Oct. 17, COBO Center, Detroit) — the 30,000-member ASM Heat Treating Society's (*asminternational.org*) signature event. The ASM's mission statement is summed up in just two words, i.e. — “Everything Material” — and the group is “dedicated to serving the materials science and engineering profession.” Through their network of 30,000 members worldwide, ASM “provides authoritative information and knowledge on materials and processes — from the structural to the nanoscale.”

These shows are no stranger to the Motor City; the city has a long history of hosting the event. And as technology advances, the city is keeping pace. How so?

As the ASM explains:

Technology. From automotive, to aviation, and defense, Detroit is changing the way the world moves. Their unmatched automotive research, design and advanced manufacturing resources make this region the leader in next-generation mobility and technology development.

Automobile capital of the word. Detroit is second-largest source of architectural and engineering job opportunities in the U.S., with the domestic auto industry primarily headquartered in Metro Detroit.

Global. Why do 1,300 firms from 38 countries call the Detroit region home? Detroit is the perfect location when you're looking to access U.S. and Canadian markets. The city is home to one of the world's most valuable border crossings and Detroit Metro Airport schedules non-stop flights to more than 160 destinations.

Sustainability. Michigan's business climate is stronger than ever. Nearly two-thirds of Michigan businesses surveyed describe the state as having a positive

business climate and would promote Michigan as a place to work, start and conduct business.

From automotive, to aviation, and defense, Detroit is changing.

With this year's 30-year anniversary show, the heat treating industry is co-exhibiting with what used to be AGMA's Gear Expo and is now that association's much more manufacturing-inclusive Motion + Power Technology Expo. The show is now a one-stop-shopping trifecta — heat treat, gear and motion technology — guaranteed to cast a wider net for attendees and dress a wider stage for exhibitors. And in practical terms, it is logistics-friendly — attendees now may need attend only one show for their needs — not three — saving time *and* money.

What hasn't changed is that, as with past shows, this year's event will be both technical conference and exhibition.

Heat Treat 2019 will feature:

- Three days of one-on-one networking opportunities with approximately 200 heat treat exhibitors/companies. That group includes the industry's top companies and biggest names in the heat treating industry.
- Latest industry research is provided by more than 125 technical sessions and technical papers, and presenting special symposiums on induction heat treating.
- The This is Heat Treat free college student program. (Given the complexity of heat treating, which easily rivals that of gear manufacture, there is little wonder that solid young talent is needed — yet lacking. The show is a perfect venue for programs like This is Heat Treat and other youth-oriented presentations intended to help address that need.)

Indeed, in co-locating with the newly expanded Motion + Power Technology Expo, HT 2019 attendees will now have access to an additional network of 4,000 attendees and 250 exhibiting companies. What's more, joint initiatives with Motion + Power Technology Expo 2019 include educational programming,

networking events and more.

Heat Treat 2019 will also host post-doctoral researchers, lecturers and professors for a competition-based award and recognition program, dedicated to encouraging increased participation of academic institutions in the ASM Heat Treating Society (HTS), and to provide attractive offers and opportunities in the worldwide materials and thermal processing communities. The winner will receive \$2,500 that can be used to support research activity at the academic researcher's institution. The award can also be used for travel expenses (researcher or student), conference fees, scholarship money, or laboratory equipment.

Presentation/technical paper topics include:

- Additive Manufacturing / 3-D Processing
- Applied Technology / Processes and Applications
- Atmosphere Technology and Surface Engineering
- Automotive Lightweighting
- Induction Heat Treating
- Internet of Things
- Low Temperature Surface Hardening of Stainless Steel
- Materials Durability / Mechanical Testing
- Microstructural Development / Characterization
- Powder Metallurgy
- Quenching and Cooling
- Residual Stress
- Thermal Mechanical Processing
- Thermal Processing of Non-Metals (ceramics, composites, polymers)
- Vacuum Processes and Technology
- Welding / Joining

And there's more — much more.

Of particular interest: Inductoheat Plant Tour Monday, October 14

Ford Rouge Factory Tour Monday, October 14

Women in Engineering Networking Breakfast:

"Don't Stop – Five Lessons I Have Learned, So You Don't Have To"

Thursday, October 17

The speaker for the event is Stacey M. DelVecchio, F. SWE, Additive Manufacturing Product Manager Innovation & Technology Development Division Caterpillar, and an advisor with the Society of Manufacturing's additive manufacturing community.

Some Education Courses

Details:

Tuesday, October 15: General Heat Treating

Wednesday, October 16: Introduction to Gear and Bearing Materials

Thursday, October 17: Basics of Non-Destructive Evaluation for Gears and Bearings

Thursday, October 17: Materials Selection and Heat Treatment of Gears Presented by ASM Heat Treating Society and AGMA

Of special interest to young attendees: Current college students studying materials science and engineering are entitled to completely free conference registration for the 29th ASM Heat Treating Society Conference and Exposition

Thursday, October 17 (am – 5pm): This Is Heat Treat

The This Is Heat Treat program includes a special student reception and opportunities to connect directly with companies that students might want to work for by spending one-on-one time with them in their booths. Students need only register as a student and bring their Student ID with them to the show.

More Student Activities, Awards and Competitions

ASM Heat Treating Society Emerging Professionals Reception in the Expo Hall
Tuesday, October 15

Young Professionals Reception (joint with Motion+ Power Technology Expo)
Tuesday, October 15
Cost: \$15

This special networking event, for young professionals age 35 and under,

will feature drinks, hors d'oeuvres and the opportunity to network with peers in the industry.

One-on-One Demos in Exhibitor Booths

Students can acquire relevant knowledge and insight directly from the major players in the heat treat world by signing up to shadow with them in their booth. See workshops, live demos, and learn about the companies first-hand from the people that work there. Beginners

can choose from the list of exhibiting companies that they'd like to learn more about and receive a date and time to meet with them on the floor.

Fluxtrol Student Research Competition

October 15th & 16th

Heat Treat 2019 will offer the young innovative scientists/professionals competition-based award and recognition program, seeking to encourage participation of young scientists in ASM



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HTS, and to provide attractive offers and opportunities in the worldwide thermal processing community.

Comprehensive Technical Programming

Learn the latest research and development in your field on such topics as advancements in heat treating, advanced processes, quenching and cooling, processes and applications, vacuum process and technology. Visit and network with more than 200 companies from the heat treating industry. Attendees

will once again have access to over 300 additional companies at Motion+ Power Technology Expo (formerly Gear Expo).

Special Keynote Presentations

Also available are important updates from an exciting line-up of well-known industry experts, including:

Dr. George Krauss, Professor Emeritus, Colorado School of Mines

Jack Harris, Chairman, IMS International

Prof. Marco Taisch, Vice President, World Manufacturing Foundation,

Politecnico di Milano

VIP Guided Industry Tour

Attendees can sign up for the 2nd VIP Guided Industry Tour at Heat Treat 2019. This tour is limited to the first 150 attendees. You'll have exclusive access to 10 companies showcasing their industry products and services. Pre-registration and prequalification are required to receive your ticket. Tours will be on Tuesday, October 15 from 3:30 p.m.–4:30 p.m.

SOLUTIONS CENTER

The Solutions Center in the Exhibit Hall provides opportunities to meet the product experts, get answers to your questions and discover the latest in heat treating innovations. Presentations will be 15–20 minutes in length and will be held all day Tuesday — Thursday.

“BASICS OF HEAT TREATING” / EDUCATION COURSES

Improve your knowledge by taking an ASM Education short course. Taught by industry experts, these interactive learning experiences will help you stay up-to-date and competitive. This year's courses will include Metallography Insights; General Heat Treating; Intro to Gear and Bearing Materials; Basics of Non-Destructive Evaluation for Gears and Bearings; as well as a special joint course offered with AGMA — Materials Selection and Heat Treatment of Gears.

“THIS IS HEAT TREAT” FREE STUDENT PROGRAM

If you have an intern or know a current college student studying materials science and engineering, let them know about the “THIS IS HEAT TREAT” program, where registration for Heat Treat 2019 is free. This special student registration includes access to the full technical program, a student/young professional networking reception, as well as the opportunity to meet major players in the heat treating world. ⚙️

For complete details visit

www.asminternational.org/web/heat-treat-2019/

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