



surface
technologies

Aalberts University

MAY 21 & 22, 2024

CANTON, OH

A two-day educational event
intended for design engineers
and purchasing agents

Aalberts
University

This is an invitation-
only, non-
commercial event

Aalberts will provide
continental
breakfast, a catered
lunch and dinner

Attendees are
responsible for their
own transportation
and lodging

Space is limited
Please contact
Cynthia Crowley
today at
734-744-9937 or

cynthia.crowley@aalberts-st.us

Metallurgy, metal casting and heat treatment are complex and technical subjects. The goal of this event is to provide education and inspiration in the areas of casting production and heat treatment of iron, steel, and aluminum components.

Aalberts surface technologies is a global leader in metallurgical technology and training. The world-class instructors at this seminar will help you to meet your design goals. The agenda is as follows:

Night Before
6:00 PM Winking Lizard 5710 Fulton Dr. Canton 44719 330-497-1133
Day 1 - Holiday Inn - Mulberry Room
8:00 AM Introduction - Steve Metz - Logistics, history, participant introductions
9:00 AM Overview of Heat Treatment - Steve Metz
BREAK
11:15 AM Steel and Iron Production - Jeremy Lipshaw
LUNCH
1:00 PM Travel to Metals Processing Facility - TBD
1:30 PM Tour Metals Processing Facility - TBD
3:45 PM Introduction to Design - Jeremy Lipshaw
6:00 PM Dinner - Burntwood Tavern 4320 Everhard Rd. NW Canton 44718 234-209-9746
Day 2 - Holiday Inn - Mulberry Room
8:00 AM Tour Aalberts surface technologies Canton heat treat facility
9:00 AM Austempering 101 including cast iron and steel - Kathy Hayrynen
BREAK
10:45 AM Marquenching - Kathy Hayrynen
11:15 AM Case Studies
LUNCH
1:00 PM Surface Treatments including nitriding and FNC
2:00 PM Heat Treatment of Aluminum

All education costs and materials will be covered by Aalberts surface technologies. In addition, Aalberts will provide a light breakfast and box lunches both days, as well as dinner the night before class and on the first night. Attendees are responsible for their own transportation and lodging.

Session Location:

Holiday Inn - 4520 Everhard Rd NW - Canton, OH 44718 (The Holiday Inn has offered us a \$129 nightly room rate - [Click here for the link.](#))

Aalberts surface technologies location:

1381 Raff Ave SW - Canton, OH 44710 - 330-478-0314

Area Lodging:

Fairfield Inn & Suites - 5285 Broadmoor Cir NW - Canton, OH 44709 - 330-493-7373
Courtyard Marriott - 4375 Metro Cir NW - North Canton, OH 44720 - 330-494-6494
Home2Suites - 5244 Broadmoor Cir NW - Canton, OH 44709 - 330-491-9714

Restaurants:

Winking Lizard | 5710 Fulton Dr. | Canton 44719 | 330-497-1133
Burntwood Tavern | 4320 Everhard Rd. NW | Canton 44718 | 234-209-9746

Note: Attendees are responsible for their own transportation to and from Aalberts surface technologies. Carpooling is encouraged.

INSTRUCTOR BIOGRAPHIES

Kathy L. Hayrynen, PhD, FASM - Kathy has a BS, MS and PhD in Metallurgical Engineering from Michigan Technological University. Her graduate work focused on production of ductile iron and ADI. Following a post-doctoral research position on Ausformed/Austempered Ductile, Kathy joined Aalberts surface technologies (Applied Process) companies in 1995. She is currently the Vice President of Research & Development. Kathy is well known in the Austempering world having authored and co-authored many papers on ADI and frequently speaks on said topics. She is a past Chair of the AFS Cast Iron Division, a former President of the Foundry Educational Foundation and a member of the External Advisory Board for the Department of Materials Science & Engineering at Michigan Tech. Kathy has received several industry/academic honors including: an AFS Award of Scientific Merit, an AFS Ray H. Witt Management Award, the Women in Metalcasting Award of Excellence, 5 best paper awards from the AFS Cast Iron Division, the Ductile Iron Society Annual Award, ASM Fellow, ASM Education Foundation George Roberts Award and induction into the MSE Academy at Michigan Tech. More recently, she received an AFS John H. Whiting Gold Medal for her exemplary work in cast iron research and standards, chairing the AFS Technical Council, leadership in streamlining the AFS Cast Iron Division, as well as for advocacy and mentorship of students and women in metalcasting.

Steve Metz - Steve holds a BS and MS degree in Materials Engineering and an MBA from the University of Wisconsin- Milwaukee. He has worked in the metals manufacturing industry for his entire 30+ year career. He was with Kohler Company for 14 years where he gained significant experience in quality systems, pattern and tooling design, process engineering, gating/risering design (using traditional and computer modeling methods) and operations management. He then worked for Castalloy (a division of Wheelabrator) as Director of Engineering for a jobbing foundry specializing in alloy white iron, stainless steel, alloy steel and Manganese steel production. Steve joined Aalberts surface technologies (Applied Process) in 2011 after having been a customer of, or a supplier to Applied Process for 19 years. Steve truly enjoys all aspects of the Aalberts surface technologies value proposition, be it excellence in operations management, assisting customers in developing unique solutions to opportunities or problems as well as direct sales and educating customers through personal visits and presentations.

Jeremy Lipshaw - Jeremy received a Bachelor's in Materials Science and Engineering in 2017 and a Master's in Mechanical Engineering in 2018, both from the University of Michigan. In addition to his studies, Jeremy worked at, and eventually managed Joyworks Studio, a prototype foundry specializing in castings education and ductile iron research. After graduation, he joined Aalberts surface technologies (Applied Process) as a Product Development Engineer where he assists with cycle development, designs lightweight and sustainable casting conversions, characterizes novel heat treatments, and improves internal modeling capabilities. Jeremy also serves as the Vice Chair of the Ductile Iron Society Research Committee.



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Please return to
Cynthia Crowley at

cynthia.crowley@aalberts-st.us

(734) 744-9937

Name:

Title:

Company:

Address:

Phone #:

Email:

(Aalberts surface technologies will not distribute this information to third parties.)

Attendance, please check all that apply:

Evening Before Class: Dinner (Optional) Yes No

Day One: Class & Lunch Yes No

Day One: Dinner Yes No

Day Two: Class & Lunch Yes No

Aalberts surface technologies is a Defense Contractor and must know the citizenship status of all visitors. Please check the box which accurately describes your status (required):

United States Citizen Green Card Holder Visa

List type if applicable:

Please report any dietary restrictions, including food allergies. We will do our best to accommodate you.

We reserve the right to publish photos on our website and social media sites.