



surface
technologies

Aalberts University

SEPT. 24 & 25, 2024

OSHKOSH, WI

A two-day educational event intended for design engineers, purchasing agents and other professionals who could benefit from this expertise.

Aalberts
University

This is an invitation-only, non-commercial event

Aalberts will provide 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 operational goals. The agenda is as follows:

Night Before
6:00 PM Dinner at Fletch's Local Tap House
Day 1
8:00 AM Introduction - Steve Metz - Logistics, history, participant introductions
9:00 AM Overview of Heat Treatment - Steve Metz
BREAK
10:45 AM Ferrous Heat Treatment - Jeremy Lipshaw
LUNCH
1:00 PM Marquenching - Kathy Hayrynen
2:00 PM Travel to Aalberts Plant
2:30 PM Tour of Aalberts Plant
6:00 PM Dinner at Chester V's
Day 2
8:00 AM Austempering 101 including cast iron and steel - Kathy Hayrynen
BREAK
11:00 AM Introduction to Design - Jeremy Lipshaw
LUNCH
1:00 PM Surface Treatments including nitriding and FNC - Steve Metz
2:00 PM Heat Treatment of Aluminum - Jeremiah Ferguson

All education costs and materials will be covered by Aalberts surface technologies. In addition, Aalberts will provide a light breakfast, 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:

Oshkosh Marriott Waterfront Hotel & Convention Center | 1 North Main Street | Oshkosh, WI 54901
The hotel is offering us a reduced rate of \$109.99, please call them at 920-230-1900 and tell them you are with the Aalberts surface technologies group rate for Sept. 23 & 24th.

Aalberts Surface Technologies Location:

4000 State Hwy. 91 | Oshkosh, WI 54904 | 920-235-2001

Area Lodging:

Oshkosh Marriott Waterfront Hotel & Convention Center | 920-230-3200
TownePlace Suites | 1365 N. Westfield St. | Oshkosh, WI 54902 | 920-891-8500

Restaurants:

Monday - Fletch's Local Tap House | 566 N. Main St. | Oshkosh, WI 54901 | 920-385-1571
Tuesday - Chester V's | 2505 Oregon St. | Oshkosh, WI 54902 | 920-385-1772

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 AFS Research Board as well as 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 AFS Women in Metalcasting Award of Excellence, 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, leadership in streamlining the AFS Cast Iron Division committee structure, as well as for advocacy and mentorship of students and women in metal casting. Kathy is a passionate advocate of STEM education and spends her spare time organizing an annual ASM Teachers' Materials Camp that enables high school and middle school teachers to offer materials-based education to their students.

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/rising 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 Chair of the Ductile Iron Society Research Committee.

Jeremiah Ferguson - The newest addition to the Aalberts HTU instructor's team, Jeremiah earned a Bachelor's in Metallurgical and Materials Engineering from the Colorado School of Mines in 2018. Immediately after graduation, he joined Aalberts surface technologies (Atmosphere Annealing) as a Metallurgical Engineer in the Canton facility. With responsibilities in process development and quality control for steel heat treatment, he quickly moved on to the Quality Manager role for the Wadsworth facility. He specializes in heat treating aluminum alloys for applications in aerospace and defense industries and recently accepted a promotion as Technical Services Manager - Ferrous & Aluminum. He will continue to apply his metallurgical knowledge as a go-to resource for aluminum and ferrous business inquiries. Jeremiah is noticeably passionate about his work and is excited to share his technical expertise.



Aalberts University

Please return to
Cynthia Crowley at

cynthia.crowley@aalberts-st.us

(734) 744-9937

Name:

Title:

Company:

Address:

Phone #:

Email:

Are you facing an obstacle you would like to discuss during the session? If yes, please explain:

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.