

CURRENT MEMBERS

CHTE brings together furnace and heat treat equipment manufacturers, commercial heat treat shops, OEMs, professional and technical institutions, and heat treat tool and supply providers so that we can provide global solutions to industry problems.



ALSTOM POWER



CATERPILLAR



JOHN DEERE



TIMKEN

ABOUT WPI

The results-oriented collaborative of CHTE is supported by the strength of one of the best technological universities in New England. Worcester Polytechnic Institute is one of the nation's earliest technological universities. Our renowned faculty lead students and industry partners in a number of cutting-edge research areas, resulting in breakthroughs and innovations in such fields as materials processing, biotechnology, fuel cells, information security, and nanotechnology.

WPI's education is distinguished by combining rigorous theory with practical experience, preparing members, faculty, and students to be innovative thinkers who can solve problems in the real world.



wpi.edu/+chte



CENTER FOR
HEAT TREATING
EXCELLENCE

WORCESTER POLYTECHNIC INSTITUTE



CHTE DELIVERS RESULTS

At the Center for Heat Treating Excellence (CHTE) our focus is on results. We work together with industry members to improve heat treat and thermal processing methods globally.

The center is an alliance between the industrial sector and university researchers that addresses short- and long-term industry needs. Membership in CHTE is unique because members have a voice in selecting quality research projects that help them solve today's business challenges.

Members benefit from...

- leading-edge research in thermal processing, induction tempering, gas quenching, alloy life extension, additive manufacturing, and more.
- networking globally with the best minds in the industry.
- technical expertise and troubleshooting.



THE BENEFITS OF MEMBERSHIP

As a CHTE member, your company...

- submits and votes annually on research projects.
- networks with global industry leaders.
- has royalty-free IP rights to pre-competitive research.
- may opt to sponsor company-proprietary research that remains exclusive.
- has access to findings from large-scale projects funded by the U.S. government or foundation grants.
- can recruit top students from various engineering disciplines.
- has access to all (past and current) CHTE technical reports.
- has access to all CHTE related research projects with no overhead.
- has access to any software that has been developed by CHTE.
- has access to characterization facilities (SEM and XRD).
- can work with sister centers – Advanced Casting Research Center (ACRC) and Center for Resource Recovery & Recycling (CR3) – broadening your understanding of what is going on in related fields from leading experts.
- may consult with WPI faculty, which helps members get timely solutions to factory floor problems without additional cost.
- can sponsor student projects (senior thesis) and industrial internships.

What Members Say

"Being a member of CHTE has made it easy to tap into a pipeline of invaluable knowledge and a far-reaching network of excellent people with countless years of heat treating experience."

Alexander Brune, Sikorsky Aircraft

"We've continued our membership with this outstanding organization, because it's a good way to network and learn what is going on in the industry. The academic backgrounds of members and faculty are impressive and the synergy of talent is unsurpassed."

William J. Bernard, Jr., Surface® Combustion

"We joined because of the dynamic resources available. No other consortium provides hands-on assistance with the challenges the heat treating industry is facing."

Steve Ferdon, Cummins Inc.

"We value being able to interact with other companies and organizations in non-competitive discussions. CHTE members are involved in strategic direction, have early access to new ideas, and, by working with students and fellow members on common issues, benefit from fresh ideas and innovative solutions."

Ian Donaldson, GKN Sinter Metals

"We applied information from a CHTE gas carburizing optimization project into our process, which resulted in improved efficiencies. And we hired the CHTE intern who worked on the project."

Michael Pershing, Caterpillar