ASM HTS Prime Contributor Award

In 2017, ASM's Heat Treating Society R&D Committee established a new recognition for the best papers in the heat treat industry each year. To be considered for the ASM HTS Prime Contributor recognition, papers must appear in either the HTPro newsletter or be published in ASM's Heat Treat conference proceedings. All manuscripts from industrial companies (not universities or national labs) are automatically considered on an annual basis. Papers are judged on several criteria, including production readiness, breadth of potential applications, and writing clarity, among other factors. The aim of the honor is twofold – to recognize outstanding industry-focused manuscripts and to encourage submissions to both HTPro and the Heat Treat conference, which takes place every other year.

2026

Jason Meyer, Stefan Habean, and Eddy Lee *for their paper presentation entitled* "Heat Treatment Process Exploration with HTP Sim."

Dr. Bora Özkan and Dr.-Ing. Martin Hellwig *for their paper presentation entitled* "Hybrid Furnace Technology for Intelligent Energy Use"

2025

Tom Hart and Maciej Korecki *for their paper presentation entitled* "4D HPGQ: An Alternative to Press Quenching for Distortion-free Heat Treatment."

Joe Brindley, Benoit Daniel, Kieran Massey, Victor Bellido-Gonzalez, Dermot Monaghan, and Thomas Wingens *for their presentation entitled* "True gas sensing in vacuum and atmosphere, where RGAs fail to go."

2024

Liesl Ammerlaan and Allen Fuller, PE, *for their presentation entitled* "Relationship Between Deep Case Carburizing and Residual Stress in Rolling Contact Service."

Jason Meyer, Charlie Li, and Justin Sims *for their presentation entitled* "Materials Model Development for AA6061 Aluminum."

2023

Edward Rolinski, Alexandria Springer, and Mikel Woods *for their paper entitled* "Practical Aspects of Plasma Nitriding Kinetics for 17-4PH Stainless Steel. "

Sean Muyskens *for his paper entitled* "Simulation and Modeling to Validate SMC Impeder

Performance."

2022

Kyozo Arimoto *for his paper entitled* "A Brief Review on Validation for Heat Treatment Simulation" published in *Heat Treat 2021: Proceedings from the 31st Heat Treating Society Conference.*

Thomas Wingens *for his paper entitled* "Retained Austenite Benefits or Avoidance Requires Dependable Determination" published in *Heat Treat 2021: Proceedings from the 31st Heat Treating Society Conference.*

2021

Liang He, Thomas Philips, Donald J. Bowe, Guido Plicht, and Mark K. Weise *for their paper entitled* "Understanding and Optimizing Nitrogen-Hydrogen Furnace Atmospheres for Annealing. "

Steve Offley *for his paper entitled* "Thru-Process Temperature Profiling and Surveying "

2020

Magnus Ahlfors *for his paper entitled* "High Pressure Heat Treatment of AM Parts – Combining HIP and Heat Treatment. "

James Jan and D. Scott MacKenzie, FASM *for their paper entitled* "On the Development of Parametrical Water Quenching Heat Transfer Model Using Quenchometer and Its Validation for All Boiling Regimes."

2019

Dr. Volker Heuer and Gunther Schmitt *for their paper entitled* "Digital Quality Control of Thermochemical Processes - Industry 4.0."

Jim McAllister *for his paper entitled* "New C/C Info and Performance in Oil Quenching."

2018

James Jan and Madhusudhan Nannapuraju *for their paper entitled* "CFD Investigation of Quench Media and Orientation Effects on Structural Stress Induced in the Intense Quenching Processes for Aluminum Cylinder Heads."

Gary Doyon, Valery Rudnev, FASM, Collin Russell, and John Maher *for their paper entitled* "Revolution—Not Evolution—Necessary to Advance Induction Heat Treating. "