

ASM Heat Treating Society (HTS) awards were presented at the HTS General Membership Meeting on Tuesday, September 14 during the ASM Heat Treating Society Conference and Exposition in St. Louis, MO.

SCHMIDT RECEIVES 2021 GEORGE BODEEN HEAT TREATING ACHIEVEMENT AWARD



Dr. Frederick E. Schmidt Jr., P.E., FASM, Director Materials

Technology, Advanced Applied Service, Engineering Systems Incorporated, St. Charles, IL, is the recipient of the 2021 George H. Bodeen Heat Treating Achievement Award. The George H. Bodeen Heat Treating Achievement Award was established by the ASM Heat Treating Society in 1996 to recognize distinguished and significant contributions to the field of heat treating through leadership, management, or engineering development of substantial commercial impact. Schmidt is recognized **“for Seminal thermal processing innovations for 40 years, developing and successfully implementing costs effective Technology. The establishment of novel heat treatment uses of commercial equipment, for military/ordnance, and strategic industrial processes.”**

President, CEO of Advanced APPLIED Services, Inc., Principal Professional Engineer. Dr. Schmidt’s career has had three distinct “Roles”: DuPont as leader of Corporate Experimental Station Heat Treating, alloy development, for internal and external proprietary Triboalloy *, Corrosion/Wear and tool steels, stainless alloy inventions like 26/1 SS. Second, as a 15 yrs. internal consultant to REMINGTON ARMS, and 8 years as Chief Engineer 7 factory locations (i.e. Lake City Army Ammunition Arsenal), 54 heat treaters, line supervision and products liability Design Responsibility. Third, Corporate forensic and product development for Fortune 500 global business units. In this role Dr. Schmidt was retained to provide management with thermal processing; development of reactor optimization; process design and continuous improvement strategies. He is the Chair of The Technical Advisor Committee AFTE (Association of Firearm & Tool- mark Examiners) pro bono city, state, and federal crime laboratory support (25 yrs.). In addition, Dr. Schmidt is often called upon to lead proprietary teams in the context of Thermal Processing invention i.e. catalysis resulting in patent art.

The final phase of Dr. Schmidt’s career is dedicated to “paying forward/giving back” to the ASM membership. He has fostered “Teamwork ...Werks”, in leading the ASM Board of Trustees to implement a 3 year plan: THE RENEWAL.

SUNDARESH RECEIVES 2021 ASM/HTS SURFACE COMBUSTION EMERGING LEADER AWARD



The ASM HTS/Surface Combustion Emerging Leader Award was established in 2013 to recognize an outstanding early to mid-career heat treating professional whose accomplishments exhibit exceptional achievements in the heat treating industry. The award, endowed by Surface Combustion, includes a check for \$4000. The winning young professional will best exemplify the ethics, education, ingenuity and future leadership of our industry. **Mr. Shlok Sundaresh**, Engineering Manager – North America, Techniques Surface USA, Dublin, OH is recognized **“for outstanding leadership and technical expertise in heat treatment, especially in development and application of nitriding/nitrocarburizing technologies across diverse market segments such as automotive, industrial machinery and oil & gas.”**

Shlok Sundaresh holds a B. Tech degree in Metallurgy and Materials Science from College of Engineering Pune, India and a M.S. degree in Industrial and Systems Engineering with specialization in manufacturing from The Ohio State University, USA. Shlok recently completed the LEAD Executive Program focused on Corporate Innovation from Stanford University Graduate School of Business. Shlok worked as the Engineering Manager for Techniques Surfaces USA (HEF Group - North America) utilizing his background and experience in surface treatments, plating's and thin-film coatings prior to joining Tosoh SMD as the Global Commercial Manager – Technical Products addressing materials and thin-film coating challenges for semiconductor applications.

In 2019, Shlok was included in Heat Treat Today's '40 Under 40 – Class of 2019' for his experience and contributions in the heat treatment industry especially in the field of surface treatments and coatings. In 2021, he was the youngest to be listed by The Monty as one of the most influential people in the heat treatment industry. Shlok is now the first Indian to be awarded the prestigious 'ASM HTS Surface Combustion Emerging Leader – 2021'.

SOUSA WINS 2021 HTS/BODYCOTE BEST PAPER IN HEAT TREATING AWARD



The winner of the 2021 ASM HTS/Bodycote Best Paper in Heat Treating Award is entitled, **“Phase Fraction Quantification in Austempered Steels by Nanomechanical Mapping: AISI 5160 as a Case Study”** by **Bryer Sousa**, Ph. D. student at the Worcester Polytechnic Institute.

The ASM Heat Treating Society established the Best Paper in Heat Treating Award in 1997 to recognize a paper that represents advancement in heat treating technology, promotes heat treating in a substantial way, or represents a clear advancement in managing the business of heat treating. The award includes a plaque and \$2500 cash prize endowed by Bodycote Thermal Process-North America.