Coating Technologies of Thermal Spray
Combining Thermal Spray Coatings with Heat Treating to Achieve Dense Metallurgically Bonded Coatings for Wear & Corrosion Resistance

Bill Lenling, CTO (TST Engineered Coatings)

Date: Tuesday | November 12, 2019
Time: 5:30 - Social | 6:00 - Dinner | 7:00 - Presentation
Location: Klemmer’s Banquet Center
10401 W. Oklahoma Ave., Milwaukee WI 53227
Cost: $30 Members | $35 Nonmembers | $15 Retirees and Life Members
Free to Students, Members between jobs, Gold sustaining member reps and Meeting sponsor (2 attendees)
RSVP by: Friday | November 8
Register online at asm-milwaukee.org or contact Carol Deming

Technical Chair: Dr. John Perepezko, UW-Milwaukee
Technical Chair: perepezk@engr.wisc.edu

Metallurgically bonded thermal spray coatings are an important class of protective coatings used in many industries such as oil and gas, agriculture equipment, and defense. A properly engineered coating and heat-treatment process will create coatings with superior adhesion, very low porosity, excellent wear resistance, and the ability to withstand plastic deformation without chipping. Known for many years in the thermal spray industry as “spray and fuse technology,” the know-how has been used with varying degrees of success. This presentation will show how this technology can vary, but with robust engineered processes, coatings with unique high-quality structures can be produced repeatedly. A variety of coating types will be discussed along with their properties. An overview of the technologies of thermal spray will be discussed along with the wide variety of applications where it is used.

Bill Lenling, the Chief Technology Officer for TST Engineered Coatings in Sun Prairie, Wisconsin, co-founded the company in 1992. Throughout his career, Bill has identified ripe opportunities to apply standard, or more often modified thermal spray techniques to provide surface engineering solutions for a number of non-traditional applications. He has several patents and has published many technical publications. Bill’s work has resulted in the successful development of coating solutions for several industries. Bill is a Fellow of ASM, and his business development and technical achievements collectively were recognized through his selection of the 2018 class of ASM Thermal Spray Society Hall of Fame inductees.