



American Welding Society
Alberta Section



Edmonton
Chapter

Dinner Meeting

The Use of Thermal Spray Coatings in the Oil & Gas Industry

William Lenling, M Sc.

Thermal Spray Technologies, Inc.
Wisconsin USA

Venue

Faculty Club – Saskatchewan Room
University of Alberta
11435 Saskatchewan Drive

Date

Thursday, March 27th, 2014

Schedule

Registration 6:00 PM
Dinner 6:30 PM
Program 7:30 PM

Abstract

Components used in the oil & gas industries can encounter severe conditions of wear, mechanical forces, and corrosion. Thermal spray coatings are extensively used by this industry to provide added performance for many components.

This talk will describe the processes of thermal spray and the differences between them. Metallographic cross sections of some coatings will be shown and described, along with descriptions of good and bad attributes of the different coating types. Coatings produced by HVOF, (high velocity oxy-fuel), plasma, electric arc spray, and flame sprayed and fused coatings that are metallurgically bonded will be presented. Industrial applications in where coatings are used today will be shown with an emphasis on oil & gas applications. Some advance coatings under development for potential oil & gas applications will also be discussed along with examples of how coatings can be tested and qualified in the lab before being placed in the field.

Biography



William is a co-founder (1992), materials engineer and President of Thermal Spray Technologies, Inc., in Sun Prairie, Wisconsin, which engineers and manufactures industrial coatings and coated components. His work has resulted in many unique applications, including dielectric, high temperature, corrosion, and wear resistant specialty components. Recently much of his work has concentrated on developing new coating materials for the oil & gas industry. In late 2010 Mr. Lenling also became President of Lineage Alloys of Baytown, TX, which manufactures carbide powders used by the thermal spray industry. He has published several technical papers and has a variety of patents.

William has a B.S. and M.S. in Metallurgical Engineering from the University of Wisconsin –Madison, (1985 and 1986). He has been very active in the ASM Thermal Spray Society (TSS), he is an ASM Fellow, and is a current trustee of the ASM Board.

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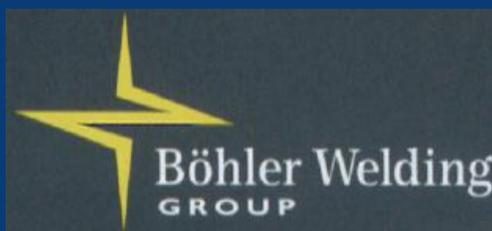
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