



**Edmonton
Chapter**

The Materials
Information Society

An Introduction to Thermal Spray Technology

Dr. Christopher C. Berndt

Monday, November 4th, 2013

**SEMINAR LOCATION:
Alberta Innovates - Technology
Futures**

(Formally: Alberta Research Council)

**250 Karl Clark Road
Edmonton, Alberta**

COURSE CONTENT AND BROAD OBJECTIVE

The objective of this one-day seminar is to introduce thermal spray (TS) processing technology and processes for protecting and enhancing surfaces for industrial applications. The principal attribute of this novel technique lies in its capability of producing tailor-made properties of coatings by optimizing the nature of the substrate, the material to be deposited, and the process design parameters for diverse applications. An interactive session based on real-life case studies will illustrate the potential of TS processes and thermal spray coatings (TSCs) and focus on the problems and future challenges of the TS technology.

COURSE OUTLINE

1. Introduction to Thermal Spray
 - (i) A historical perspective
 - (ii) TS process variants
 - (iii) Company and literature resources
 - (iv) Physical models that help understanding the processes
2. Applications for Thermal Spray
 - (i) Specific applications for various industrial sectors
 - (ii) Designing components and structures for TS application
 - (iii) Costing considerations
 - (iv) Comparison with other coating and overlay techniques

WHO SHOULD ATTEND?

Managers, product development and design engineers, product marketers, scientists, lecturers and students who want to understand TSCs for protecting and enhancing product surfaces for diverse applications.

PREREQUISITES

No prerequisites are required; however, some prior knowledge of materials science is advantageous.

ADDITIONAL INFORMATION

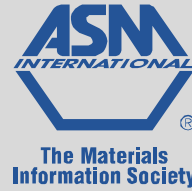
The seminar includes breakfast, lunch, snacks and coffee.

Register now by sending this form to Connie Williams at Alberta Innovates Technology Futures.

Email: Connie.Williams@albertainnovates.ca

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Attendee name(s)	1. 2. 3. 4.
Company name	
Address	
Phone	
Fax	
E-mail	
Are you a member of a professional society?	ASM SME NACE ASME AWS CWS
If so, membership #	
Payment method	Cash Cheque PayPal*

*Payment via PayPal will be accepted with a small processing fee. Please contact Connie Williams for more information.

Do you agree to distribute your contact details to other attendees? YES NO

SEMINAR	EARLY-BIRD PRICING	AFTER OCT. 25, 2013
Professional Society Members	\$295	\$345
Non-Members	\$345	\$395
Students	\$100	\$150

Make cheques payable to **ASM International - Edmonton Chapter.**

NOTE: GST is included in the prices above. Receipts will be issued at the event.

Mail payment to:

ASM Edmonton Chapter
 c/o Ravi Sundaramoorthy
 Black Cat Blades Ltd.
 5604 – 59 Street, Edmonton, Alberta T6B 3C3