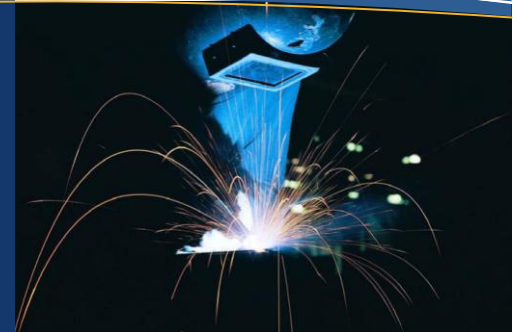




American Welding Society Alberta Section



Seminar Announcement October 21, 2011



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Repair and Maintenance Welding for Energy Industries

Proactive maintenance strategies to ensure the operational reliability of infrastructure and equipment are significant concerns for the energy sector. The implications of structural, pressure equipment or pipeline failures can be significant, including the costs of equipment replacement, emergency labor, loss-of-production, and potential negative consequences to the public and environment. Hence, it is critical that the energy industry continuously identifies and implements advanced technologies and novel approaches for the repair and maintenance welding of capital infrastructure.

In partnership with the Alberta Metal Fab Innovation [AMFI] Program, the AWS Alberta Section is hosting a one-day educational seminar that will showcase the considerations for repair and maintenance welding for Alberta's energy industries. The event will be of value for anyone involved in welding, including: energy operators, oil/gas/oilsands producers, shop foremen, superintendents, quality control personnel, professional engineers, welding inspectors, welders, and students of metals-related disciplines.

WHEN: Friday, October 21, 2011 @ 7:30 am

WHERE: Alberta Innovates – Technology Futures, 250 Karl Clark Road, Edmonton, AB

SCHEDULE:	7:30 am	Breakfast & Registration
	8:30 am	Morning Presentations
	11:30 am	Buffet Lunch
	12:30 pm	Keynote Speaker (Matt Boring, Edison Welding Institute)
	1:30 pm	Afternoon Presentations
	4:00 pm	Seminar Adjournment

COST:

Before/on October 14:	\$250	for AWS, CWA, ASM, NACE, SME, EATS and AMFI Members
	\$300	for Non-Members
	\$55	for Student Members
After October 14:	\$300	for AWS, CWA, ASM, NACE, SME, EATS and AMFI Members
	\$350	for Non-Members or Walk-Ups
	\$55	for Student Members

Register Early! Limited Space!

Please visit our website <http://awssection.org/alberta>



The Alberta Metal Fab Innovation Program

Keynote Speaker

Comparison of CSA, API and ASME Code Requirements for the Qualification of In-Service Welding Procedures

**Matt Boring, PE,
Senior Engineer, Edison Welding Institute**

In-service repair “hot-tap” welding is necessary to negate the costs and production losses associated with maintenance shut downs. The two primary concerns during in-service welding are burn-through and hydrogen cracking. One of the methods used to reduce the risk of hydrogen cracking is the “temper bead” welding technique, which is a special bead placement technique that affects the metallurgical properties of the heat affected zone and previously deposited weld metal. Thoroughly understanding the associated welding procedure variables and knowing how the various Codes of construction govern in-service welding procedure development is critical to ensuring weld quality, productivity and safety.

This presentation will compare the different in-service welding Codes that are commonly employed in North America, including API 1104 Appendix B, ASME PCC-2 and CSA Z662. The proper preparation of welding procedures and the qualification of welders in accordance with governing codes and standards is a critical component of any project. There are many factors to consider, such as addressing all the procedural variables, ensuring the procedure is properly qualified for the construction Code, and fully qualifying the welders for the appropriate procedures. The importance of conformance to the applicable Codes and Standards during in-service repair welding will be highlighted. Finally, appropriate inspection and non-destructive testing all contribute to establishing a practical, safe and effective in-service repair procedure.



Speaker Biography

Matt Boring graduated with B.S. and M.S. degrees in Welding Engineering from The Ohio State University. He has worked at the Edison Welding Institute (EWI) for 15 years. His technical expertise in the areas of pipeline welding and in-service pipeline repair welding (hot-tap welding). Matt has been involved in numerous research projects centering on mainline pipeline construction and in-service welding. Matt has authored or co-authored numerous technical articles as well as several technical reports and presentations. Matt also instructs an in-service welding training course several times a year in Houston, TX. In addition to his research responsibilities, Matt is the co-chair of the API 1104 Appendix B committee on In-Service Welding as well as a member of the ASME Post-Construction Sub-Committee on Repair and Testing. Matt is a Registered Professional Engineer in the State of Ohio, and a member of the American Society of Mechanical Engineers (ASME) and the American Welding Society (AWS).

Morning Presentations - Speakers & Abstracts

Unlocking the Prize: Metal Fabrication Procurement for Development and Operation of Alberta's Oil Sands

Tom Mansfield, Alberta Finance and Enterprise

Alberta's expanding oil sands industry provides excellent opportunities for the province's Metal Fabrication and Machinery Manufacturing (MFMM) companies to supply services and products. With opportunities abound, several challenges threaten the competitiveness of Alberta's MFMM sector. The Alberta Oil Sands Supply Chain Opportunity Analysis explores the competitiveness factors and growing industry trends related to procurement decisions made when oil sands buyers award contracts to MFMM suppliers during the development, construction and operation of mining, in-situ and upgrader projects.

Tom Mansfield is Director of Metal Fabrication in the Industry Development Branch of Alberta Finance and Enterprise. Tom has been involved in metal fabrication supply chains for over 15 years. Prior to joining the Government of Alberta, Tom ran a successful branch of an Alberta-based network of steel service centres, supplying structural steel and specialty metals to a wide variety of manufacturing and fabrication companies across Western Canada.

Considerations for In-Service Hot Tap Repair Welding for Energy Industries

Jared Sayers, Red Flame Industries

Red Flame Industries is an innovative industrial service company providing plant and pipeline services, engineering and certification, and data management solutions to a wide range of industries around the world. The presentation will review the design, testing and implementation process for the execution of in-service hot tap welding, including welder training. Factors that affect in-service welding, the buttering technique as well as inspection requirements, will be discussed.

Jared Sayers is the President and Quality Control Manager of Red Flame Industries (RFI), and has over 20 years of experience in the petroleum industry, and it all began fighting oil well fires left in Kuwait after the 1991 Gulf War. That experience inspired Sayers to form RFI as he realized the far-reaching impact hot tapping could have on several industries and the world. Today, Sayers continues to lead through innovation, turning his main focus to weld procedure development in the extended reach hot tapping area. RFI's success is rooted in Jared's commitment to quality through innovative technology, a strong service orientation, and business experience.

Afternoon Presentations - Speakers & Abstracts

Weld Qualification and Repair Welding in Compliance with the Pressure Equipment Directive (PED)

Kimberley Meszaros, Master Flo Valve

The Pressure Equipment Directive (PED) is intended to harmonise the fabrication standards for pressure equipment throughout the European Union. As an international supplier of choke valves and related products, Master Flo Valve Inc is often required to comply with the requirements of PED. This means, in practice, that a notified body, recognized by the EU, must approve all welding activities, including repair. An overview of the welding requirements for PED and practical examples will be presented.

Kimberley Meszaros is the Senior Materials Engineer at the head office of Master Flo Valve Incorporated in Edmonton, Alberta. Kim is a BSc (Materials Engineering) and MSc (Materials Engineering- Welded Composite Coatings for Oil Sands) graduate of the University of Alberta. Kim works in the Research and Development Group at MFV. This group designs and qualifies welding procedures for both surface and subsea applications as well as controls the materials standards at MFV. Kim is a registered professional engineer in the province of Alberta.

Welding of "Aged" Metals

Jim Mitchell, Suncor Energy

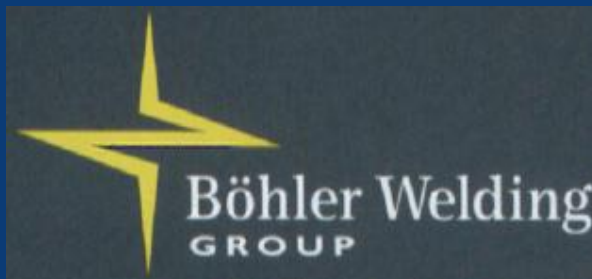
The effect of various services (environment and time) on equipment used in the process and refining industries will be described. In each case, the weld repair or modification of this equipment must be carried out to accommodate these effects on the base material. Welding considerations that address both high and low temperature conditions will be presented.

Jim Mitchell is a materials, corrosion, and welding specialist within Suncor's Technical Standards Department. He has over 25 years experience in oil sands operations and maintenance, and about 10 years as a consultant to the upstream sector of the oil-patch. Jim is a member of APEGGA, holds a Master of Applied Science degree, and a certificate as an International Welding Engineer. He has also been a member of the AWS for 22 years.

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The logo for VICTOR features the word "VICTOR" in a bold, green, sans-serif font.The logo for THERMAL DYNAMICS features the words "THERMAL DYNAMICS" in a blue, sans-serif font, with a small starburst graphic below the word "DYNAMICS".The logo for Tweco features the word "Tweco" in a yellow, cursive font.The logo for Arcair features the word "Arcair" in a red, cursive font.The logo for TurboTorch EXTREME features the words "TurboTorch" in a blue, sans-serif font, with "EXTREME" in a yellow, sans-serif font below it, and a red starburst graphic to the left.The logo for STOODY features the word "STOODY" in a bold, orange, sans-serif font.The logo for THERMAL ARC features the words "THERMAL ARC" in a bold, black, sans-serif font, with a red starburst graphic below the word "ARC".

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Repair and Maintenance Welding for Energy Industries

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