



Doug J. Hamre

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OUR NEXT MEETING DAY March 11, 2025

Presentation Topic: Hand-Held Laser Welding

Presented By: Doug J. Hamre, Apollo-Clad

Hand-held laser welding is an emerging welding technology that uses focused light for welding rather than an electric arc. This high intensity, focused laser light is ideal for joining thin-walled components that are prone to distortion as the heat input of the process is inherently very low. The low heat input of the process allows an inexperienced welder to manufacture complex components that may or may not be possible to weld using conventional arc-based welding. A variety of real-world applications will be discussed, along with some of the unique safety concerns that need to be addressed when using laser welding technology.



Dr. Doug J. Hamre is currently the Research and Development Manager at Apollo-Clad Laser Cladding (A Division of Apollo Machine & Welding Ltd.). Originally from Edmonton, Doug attended the Colorado School of Mines in Golden, Colorado where he received a B.Sc. in 2001 and a Ph.D. in 2005 both in the field of Metallurgical and Materials Engineering. Doug returned to Canada in 2011 to join Apollo-Clad after working in the investment casting industry making Titanium and Superalloy investment castings for aerospace and power generation applications. After several years of laser cladding and high power CNC laser welding, Doug has recently found a passion for the emerging technology of hand held laser welding. In addition to being a Professional Engineer in the province of Alberta, Doug leads the Apollo R&D team that is currently made up of six engineers, two technologists and two lab technicians.

Times and Location: Dinner Meeting will be held at the University of Alberta Main Campus in the Engineering Teaching & Learning Complex (ETLC) - East Solarium, 9120 116 St NW, Edmonton, AB T6G 2V4 ([Map](#)). Recommended Parking Windsor Car Park (paid) ([Map](#))

Reception at 5:30 PM
Dinner at 6 PM
Presentations at 6:30 PM.

The cost is \$30.00 Members, \$35.00 Non-Members, \$10.00 Student Members. All members of ASM, ASME, AWS, CWBA, AMPP (NACE), and SME will be charged as members.

Please Register at the Following Link: [Eventbrite Link](#)

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