

APRIL 25, 2017

# STUDENT CAREER NIGHT/SEMINAR

## 1 Laser Beam Welding of Hot Press Forming Steel in automotive applications

TOPIC

### Hadi Razmpoosh

PhD Student Mechanical and Mechatronics Engineering The University of Waterloo (UW)

**Hadi** will be discussing the application of tailor welded blanks (Laser beam welded) of ultra-high strength steel in automotive anti-crash components.

## 2 Investigation of Rotational GMAW (SpinArc™) for Narrow-Gap Welding

TOPIC

### Tyler Rudniki & Caleb Devries

Students at Conestoga College, Mfg. Eng. Technology-Welding & Robotics Program

**Tyler & Caleb** will be talking about "The current study examines SpinArc™ Welding technology. First, Gas Metal Arc Welding (GMAW) process with SpinArc™ Welding technology is used to produce a  $\frac{3}{4}$ " thick square groove butt joint weld. This procedure will be compared with a prequalified CSA-W59 Submerged Arc Welding (SAW) procedure of the same material thickness. In addition, a design of engineering experiment will be used to reveal the effects of various SpinArc™ parameters on the resultant weld geometry."

## 3 A Comparison of Shear Strength and Tensile Strength in High Strength Brazed Joints using High Temperature Braze Alloy".

TOPIC

### Sean Morton

Student at Northern College

**Sean** will be talking about the changes of mechanical properties in high strength brazed joints using high temperature braze alloy.

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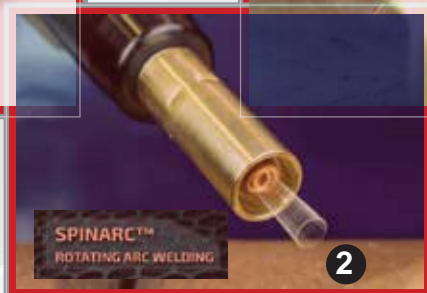


ANTI-CRASH COMPONENTS

3



2

SPINARC™  
ROTATING ARC WELDING

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