

**DAY 1: Wednesday, June 15, 2022**

7:30-8:15	Breakfast and Opening Remarks : Max Ceron- CWB Association   Room: Sutherland 3-5					
8:15-8:50	The Mechanics of GMAW Arc : Adrian Gerlich- University of Waterloo   Room: Sutherland 3-5					
	Room: Sutherland 1			Room: Sutherland 2		
	Presenter	Affiliation	Presentation Title	Presenter	Affiliation	Presentation Title
9:00-9:30	Ken Mui	Lincoln Electric Company	Filler Metal Certification Testing Compared to Production Welds	Mitchell Grams	Apollo-Clad Laser Cladding	Effect of Relative Dimensions for Weld Pool and Powder Cloud on Laser Cladding Catchment Efficiency
9:40-10:10	Mahyar Asadi	Novarc Technologies	An Industrial Journey from Welding Vision to Smart Eyes	Stefano Sacco	University of Alberta	Similarity Analysis of Temperature and Fluid Flow in the GTAW Arc
10:20-10:50	Jim Galloway	Conestoga College	Wire Arc Additive Manufacturing – Structural Steel Alloys	Vicente Sánchez	University of Alberta	Energy Balance in Gas Metal Arc Welding
11:00-12:00	Fabtech Keynote: Doug Gilmore					
12:00-12:50	Lunch Room: Sutherland 3-5					
	Room: Sutherland 1			Room: Sutherland 2		
12:50-1:20	LeRoy Douglas	Xiris	Weld Cameras as an Enabling Technology in Welding Automation	Abdelbaset Midawi	University of Waterloo	Evaluation of AHSS Thin Sheet Gas Metal Arc Welds Utilizing DIC Technique
1:30-2:00	Rick Krecmer	RoboVent	When to Use a Fume Gun (And When Not To)	Jihui Yan	University of Waterloo	Efficient buildup of Inconel 718 on additive components with thin-wall geometries using electrospark deposition
2:00-3:00	Fabtech Keynote: Cybersecurity					
	Room: Sutherland 1			Room: Sutherland 2		
3:10-3:40	Eduardo Rocha	University of Alberta	Determining Systematic Error in Voltage Predictions vs. Voltage Settings for GMAW Welding Procedures in the Lincoln Procedure Handbook	Shiyuan Song	University of Waterloo	Influence of Electrode Force on Liquid Metal Embrittlement Cracking During Resistance Spot Welding of Third Generation Advanced High Strength Steels

**DAY 2: Thursday, June 16, 2022**

8:00-9:00	Breakfast Room: Sutherland 3-5					
	Room: Sutherland 1			Room: Sutherland 2		
9:00-9:30	Alysha Yinger	RoboVent	Resistance Welding Safety: Fume Collection Best Practices	Patricio F. Mendez	CCWJ University of Alberta	Recent Developments in Welding Research at the CCWJ
9:40-10:10	Chris Pilcher	IPG Photonics	Fiber Laser Welding Advancements in the Automotive Industry	Goetz Dapp	University of Alberta	High Speed Videography of Welding: Fundamentals and Techniques
10:20-10:50	Mohsen Mohammadjoo	Nova Chemicals	Weld Integrity of High Strength Steel Pipelines: Challenges and Design Opportunities	Carter Trautmann	University of Alberta	Use of Low Transition Temperature Steel Alloys In Welded Overlays for High Wear Applications
11:00-12:00	CWB Keynote: Sam Barrett, Vice President- Preconstruction   Walters Group: Building Exceptional Project Experiences.					
12:00-12:50	Lunch Room: Sutherland 3-5					
	Room: Sutherland 1			Room: Sutherland 2		
12:50-1:20	Taylor Dittrich	Lincoln Electric Company	Advancements in GMAW Technology for Zinc-Coated Steels	Emanuel Santos	University of Waterloo	Wire Arc Additive Manufacturing using Advanced Pulsed Waveform Gas Metal Arc Welding
1:30-2:00	Daniel Ramirez	University of Alberta	Zero Programming Repair with Laser Cladding	Nazmul Huda	University of Waterloo	Friction welding of 304-stainless steel and zirconium alloy tubes
2:00-3:00	Automotive Panel- Changing the Gear Ratio: Women in the Automotive Industry					
	Nikki Noble- Lambton College   Taylor Dittrich- Lincoln Electric   Stephanie Hoffman- Underground Metalworks   Leanne Jeffries - Assured Performance					
3:10-3:40	Jim Galloway	Conestoga College	The AC Component of Direct Current Arc Welding Machines			
3:40-4:00	Max Ceron : Closing Remarks   Room: Sutherland 3-5					