

**SCHEDULE OVERVIEW**

**DAY 1: WEDNESDAY, JUNE 12, 2024**

<b>7:30-8:15</b> <b>BREAKFAST &amp; EVENT OPENING: Max Ceron- CWB Association   Room: Sutherland 3-5</b>						
<b>8:15-8:45</b> <b>Patricio Mendez- University of Alberta, Voltage and Heat Input in Arc Welding   Room: Sutherland 3-5</b>						
<b>Room: Sutherland 1</b>			<b>Room: Sutherland 2</b>			
<b>9:00-9:30</b>	Nairn Barnes	IRIS NDT	The Importance of Taking Field Repair Seriously: Vibrating Screen Cloth Failure Analysis	Jason Wooley	Scansonic	Highly Productive Laser Welding of Battery Trays, Fuel Cells, Hair Pins, Cap-Can and Battery Contacts
<b>9:30-10:00</b>	Kevin Bagheri	University of Ottawa	Welding Automation in Fabrication of Navy Combat Ship Gas Turbine Exhaust System	Nathaniel Roberts	ESAB	Digital Solutions for the Shop Floor
<b>10:00-10:30</b>	Hellen Christodoulou	Corbec	Welding Steel Before and After Galvanizing (Best Practices & Recommendations)	Scott Fong	Cooperheat	Considerations for the successful execution of High-Temperature Local Heat Treatment
<b>BREAK   10:30-10:45</b>						
<b>10:45-11:15</b>	George Gritziotis	Ontario Tripartite Labour Resource Council	Organized Construction Sector Strategic Workforce Planning System (Skilled Trade Demand/Supply Forecasting Program)	Will Healey	Universal Robots	Elevate Your Technology Strategy & Upgrade Your Workforce in Fabrication with Cobots
<b>11:15-11:45</b>	Mark Fernandes	CWB Group	CSA Structural Design and Welding Requirements	Zahra Khodamoradi	University of British Columbia	GMAW of Inconel 686 on Stainless Steel: Welding Parameter Effects on Residual Stress and Distortion
<b>11:45-1:00</b> <b>LUNCH   Room: Sutherland 3-5, FABTECH Viewing</b>						
<b>Room: Sutherland 1</b>			<b>Room: Sutherland 2</b>			
<b>1:00-1:30</b>	Joyce Lam	PCL Industrial Management Inc.	The Hydrogen Economy vs. Standards & Regulations - A Practical Perspective	Tetsuya Oyamada	University of Waterloo	Laser Microwelding of NiTi and PtIr Alloy Wires
<b>1:30-2:00</b>	Jay Flowers	Scansonic	How can Process Monitoring and Quality Assurance for Laser Joining be Improved?	Hassan Saghafifar	Seaspan	Introduction to Seaspan Welding Centre of Excellence
<b>2:00-2:30</b>	Ashiqur Khan	CWB Group	Laser Beam Welding Procedure Qualification	Kaiping Zhang	University of Waterloo	On the Control of Intermetallic Formation in NiTi-Stainless Steel Welding
<b>BREAK   2:30- 2:45</b>						
<b>2:45-3:15</b>	Ebrahim Harati	University West	Efficient welding of high strength steels in regard with static and fatigue strength	Daniele Calista	University of Alberta	A Novel Approach to Solving the ERW Weld Zone
<b>3:15-3:45</b>	André Boulianne	CWB Group	CWB Electrodes Certification - Extent of Qualification	Ryan Boyd Cedrik Rochon	Walter Automation	A Roadmap to Implementing Robotic or Automated Material Removal in Metalworking Operations

**DAY 2: THURSDAY, JUNE 13, 2024**

<b>8:00-9:00</b> <b>BREAKFAST   Room: Sutherland 3-5</b>						
<b>8:20-8:50</b> <b>Adrian Gerlich, University of Waterloo- Recent Developments in Welding of Transportation and Energy Materials   Room: Sutherland 3-5</b>						
<b>Room: Sutherland 1</b>			<b>Room: Sutherland 2</b>			
<b>9:00-10:00</b> <b>Sam Barrett, Walters Group- It's a Small World: Building Relationships and Exceptional Project Experiences   FABTECH Mainstage</b>						
<b>10:00-10:30</b>	Ernst Miklos	Linde	New Approaches to Control GMAW Welding Fumes: Research Results, Regulatory Foresight, Business Sustainability.	J. Eduardo Alvarez Rocha	University of Alberta	Deep Learning to Characterize the Morphology of the Arc and Metal Transfer in GMAW
<b>10:30-11:00</b>	Haitao Wang	Linde	Welding Productivity Improvements - Starsolver™ Program	Nitheesh Kumar Ramasamy	University of Alberta	Determination of Bead Dimensions and Catchment Efficiency in Laser Cladding
<b>BREAK and FABTECH Viewing   11:00-11:30</b>						
<b>11:30-12:30</b> <b>LUNCH   Room: Sutherland 3-5</b>						
<b>11:45-12:15</b> <b>Jim Brown, Ontario Power Generation- The Business of Welding: Navigating Trends and Challenges   Room: Sutherland 3-5</b>						
<b>12:30-1:30</b> <b>Women's Panel- How Associations and Employers Can Empower Women to Create New Workplace Cultures   FABTECH Mainstage</b>						
<b>Room: Sutherland 1</b>			<b>Room: Sutherland 2</b>			
<b>1:30-2:00</b>	Mahyar Asadi	Novarc Technologies	Vision-Based Adaptive Welding Solutions for the Top Three Challenges in Welding Fabrication	Sofia Salazar Torres	University of Alberta	Mathematical Model of Friction Stir Welding: Scaling Analysis of Heat Transfer and Plastic Deformation Phenomena
<b>2:00-2:30</b>	Carly Myers	Sheridan College	Incorporating VR Technology Into Training Future Welders	Hasan Habib	University of Waterloo	Integrating 3G Advanced High Strength Steel into Automotive Production - Development of High-Quality Joints with High Stacking Ratio
<b>2:30-3:00</b>	Tam Nguyen	Conestoga College	Unlocking Wire Arc Additive Manufacturing (WAAM)'s Potentials at Conestoga College	Shima Akbarian	University of Waterloo	Revolutionary intermetallic compounds formation during Laser Braze Welding of Zinc-coated Automotive Steels
<b>3:00-3:30</b>	Duncan Beaumont	Translas North America	Revolutionizing Welding Excellence: Automated Technologies and Intelligent Fume Extraction Systems	Shadab Sarmast	University of Waterloo	Advancements in Gas Metal Arc Brazing Technology for High-Strength Steel to Aluminum Joints for Automotive Applications
<b>3:30-4:00</b>	Paul Cheng	Fuse Ring	Joining Nuclear Fuel Rod to End Cap w/ no Flaw Repeatable	Jihui Yan	University of Waterloo	Fabrication of High Entropy Alloy Coating Using Electrospark Powder Deposition
<b>4:00-4:30</b> <b>Max Ceron, CWB Association- Closing Remarks   Room: Sutherland 3-5</b>						