Productivity and Workforce Development

TORONTO Ontario

CANWELD24
EXPO & CONFERENCE 2024
METAL FABRICATING - WELDING - FINISHING

cwbgroup | cwbassociation

SCHEDULE OVERVIEW

DAY 1: WEDNESDAY, JUNE 12, 2024

7:30-8:15	BREAKFAST & EVENT OPENING: Max Ceron- CWB Association | Room: Sutherland 3-5					
8:15-8:45	Patricio Mendez- University of Alberta, Voltage and Heat Input in Arc Welding | Room: Sutherland 3-5					
	Room: Sutherland 1			Room: Sutherland 2		
9:00-9:30	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
9:30-10:00	Kevin Bagheri	University of Ottawa	Welding Automation in Fabrication of Navy Combat Ship Gas Turbine Exhaust System	James Sharp	ESAB	Digital Solutions for the Shop Floor
10:00-10:30	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
	BREAK | 10:30-10:45					
10:45-11:15	George Gritziotis	Ontario Tripartite Labour Resource Council	Organized Construction Sector Strategic Workforce Planning System (Skilled Trade Demand/Supply Forecasting Program)	André Boulianne	CWB Group	CWB Electrodes Certification – Extent of Qualification
11:15-11:45	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
11:45-1:00	LUNCH | Room: Sutherland 3-5, FABTECH Viewing					
	Room: Sutherland 1			Room: Sutherland 2		
1:00-1:30	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
1:30-2:00	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
2:00-2:30	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
	BREAK | 2:30- 2:45					
2:45-3:15	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
3:15-3:45	Will Healey	Universal Robots	Elevate Your Technology Strategy & Upgrade Your Workforce in Fabrication with Cobots	Ryan Boyd Cedrik Rochon	Walter Automation	A Roadmap to Implementing Robotic or Automated Material Removal in Metalworking Operations

DAY 2: THURSDAY, JUNE 13, 2024

8:00-9:00	BREAKFAST | Room: Sutherland 3-5					
8:20-8:50	Adrian Gerlich, University of Waterloo- Recent Developments in Welding of Transportation and Energy Materials | Room: Sutherland 3-5					
	Room: Sutherland 1			Room: Sutherland 2		
9:00-10:00	Sam Barrett, Walters Group- It's a Small World: Building Relationships and Exceptional Project Experiences | FABTECH Mainstage					
10:00-10:30	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
10:30-11:00	Haitao Wang	Linde	Welding Productivity Improvements - Starsolver™ Program	Nitheesh Kumar Ramasamy	University of Alberta	Determination of Bead Dimensions and Catch-ment Efficiency in Laser Cladding
	BREAK and FABTECH Viewing | 11:00-11:30					
11:30-12:30	LUNCH | Room: Sutherland 3-5					
11:45-12:15	Jim Brown, Ontario Power Generation- The Business of Welding: Navigating Trends and Challenges | Room: Sutherland 3-5					
12:30-1:30	Women's Panel- How Associations and Employers Can Empower Women to Create New Workplace Cultures | FABTECH Mainstage					
	Room: Sutherland 1			Room: Sutherland 2		
1:30-2:00	Mahyar Asadi	Novarc Technologies	Vision-Based Adaptive Welding Solutions for the Top Three Challenges in Welding Fabrication	Sofía Salazar Torres	University of Alberta	Mathematical Model of Friction Stir Welding: Scaling Analysis of Heat Transfer and Plastic Deformation Phenomena
2:00-2:30	Craig Brazil	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
2:30-3:00	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
3:00-3:30	Duncan Beaumont	Translas North America	Revolutionizing Welding Excellence: Automated Tech-nologies and Intelligent Fume Extraction Systems	Shadab Sarmast	University of Waterloo	Advancements in Gas Metal Arc Brazing Technolo-gy for High-Strength Steel to Aluminum Joints for Automotive Applications
3:30-4:00	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
4:00-4:30	Max Ceron, CWB Association- Closing Remarks | Room: Sutherland 3-5					