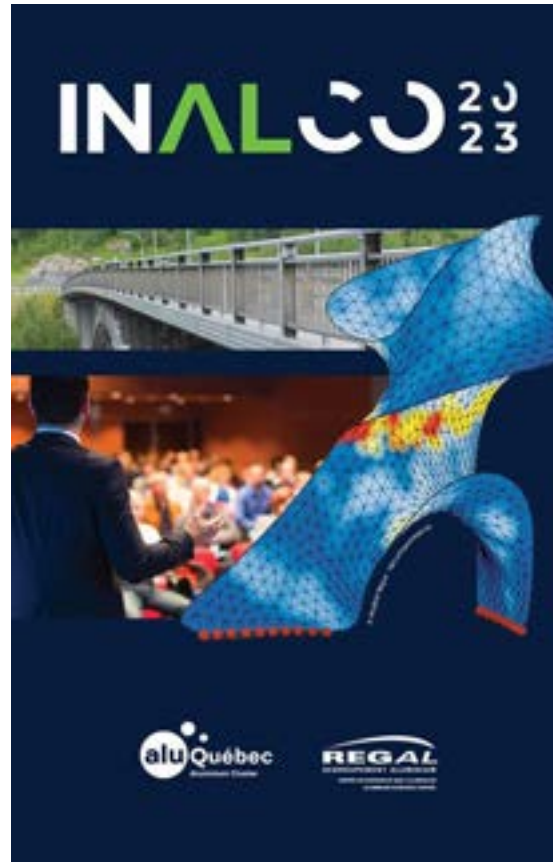


PROGRAM AND PAPERS



11 - 13 October 2023

Green transportation and infrastructure

Québec City

Centre des congrès de Québec
1000 Bd René-Lévesque E,
Québec, QC
G1R 5T8

INALCO 2023: SCHEDULE AT A GLANCE

Keynotes Technical sessions: Design and metal forming Technical sessions: Welding and joining Technical sessions: Surface treatment Technical sessions: Alloys Technical sessions: Environmental impact

	Session time	ROOM RIO TINTO	ROOM ALOUETTE	ROOM WSP
	08:30	Conference opening		
DAY 1: Wednesday Oct. 11 th	08:45	Host sponsor presentation		
	09:00	Keynote 1: Tao Wang The Future of Responsible Aluminium: Connecting the entire value chain.		
	09:40	Break		
	09:50	Design and metal forming-1	Welding and joining-1	Alloys-1
	10:50	Coffee break		
	11:10	Design and metal forming-2	Welding and joining-2	Surface treatment-1
	12:10	Lunch		
	13:15	REGAL Students Posters Session		
	14:30	Keynote 2: Philippe Gosselin & Félix Lapointe New aluminium-scandium alloy for high-performance alpine skis		
	15:10	Break		
	15:20	Design and metal forming-3	Welding and joining-3	Environmental impact-1
	16:20	Break		
	16:30	Design and metal forming-4	Welding and joining-4	Environmental impact-2
	17:30	Welcome cocktail		
DAY 2: Thursday Oct. 12 th	08:30	Design and metal forming-5	Welding and joining-5	Alloys 2
	09:30	Coffee break		
	09:40	Keynote 3: Benoit Cusson 10 Modern Applications and Construction Details for Aluminium Bridges		
	10:20	Keynote 4: Geir Ringen Aluminium long span suspension bridges - ambitions, opportunities and challenges		
	11:00	Break		
	11:10	Design and metal forming-6	Welding and joining-6	Alloys 3
	12:15	Lunch: Panel Aluminium in bridges : International perspectives		
	13:50	REGAL Poster competition finalists' presentations		
	14:50	Keynote 5: Honorable Rosa Galvez Aluminium in circular economy		
	15:30	Break		
	15:40	Design and metal forming-7	Surface treatment-2	Alloys 4
	17:15		Posters competition awards ceremony	
	18:00	Gala dinner - Painchaud Productions Show		
DAY 3: Friday Oct. 13 th	08:30	Keynote 6: Vincent Christ ELYSIS a Key Player in the Aluminum Decarbonization		
	09:10	Keynote 7: Laurent Chappuis Aluminium Auto Body Sheet in North America after the 2015-Ford F-150		
	09:50	Coffee break		
	10:10	Design and metal forming-8	Welding and joining-7	
	11:30	End of conference		

Organizing Commitee

Houshang Alamdari	Université Laval, Aluminium Research Centre - REGAL
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Nicolas Boissonnade	Université Laval, Aluminium Research Centre - REGAL
Mario Fafard	AluQuébec and Aluminium Research Centre - REGAL
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Lyne St-Georges	Université du Québec à Chicoutimi, REGAL
Scott Walbridge	University of Waterloo

INALCO 2023: Day 1, Wednesday Oct. 11th AM

STAR TIME		TITLE	SPEAKER
DAY 1: AM	08:30	Conference opening - Houshang Alamdari & François Racine Room Rio Tinto	
	08:45	Host sponsor presentation Room Rio Tinto	
	09:00	Keynote The Future of Responsible Aluminium: Connecting the Entire Value Chain Chair: Danielle Coudé (Room Rio Tinto) https://tinyurl.com/278bnzec	Tao Wang
	09:40-09:50	Break	
	09:50-10:50	Technical session : Design and metal forming-1 Chair: Yves Archambault Room Rio Tinto	
	09:50	D1-1 Texture and Mechanical Properties of Extruded AA6063 Aluminum Alloy https://www.mdpi.com/2673-4591/43/1/25	Clément Pot
	10:10	D1-2 Effect of unidirectional and cross-rolling on the texture evolution of a hot extruded AA6082 https://www.mdpi.com/2673-4591/43/1/28	Majid Yazdani
	10:30	D1-3 Direct Resistance Heating of Aluminum Sheets for Rapid Superplastic Forming https://www.mdpi.com/2673-4591/43/1/40	Valentin Maynard
	09:50-10:50	Technical session: Welding and joining-1 Chair: Lyne St-Georges Room Alouette	
	09:50	W1-1 Metal fused filament fabrication of aluminum alloy AlSi10Mg https://www.mdpi.com/2673-4591/43/1/37	Emilio Galindo
	10:10	W1-2 Additive Manufacturing in Construction – Implementing Powder-Bed Fusion of Metals using a Laser (PBF-LB/M) and Shape Optimization into the Construction Design Process https://www.mdpi.com/2673-4591/43/1/10	Johannes Diller
	10:30	W1-3 Wire arc additive manufacturing of aluminium alloys https://www.mdpi.com/2673-4591/43/1/16	Julie Lévesque
	09:50-10:50	Technical session: Alloys-1 Chair: Mousa Javidani Room WSP	
	09:50	Al-1 Effects of Ni Content and Alloying Elements on Electrical Conductivity, Mechanical Properties, and Hot Tearing Susceptibility of Al-Ni based Alloys https://www.mdpi.com/2673-4591/43/1/3	Farnaz Yavari
	10:10	Al-2 A Short Review on Superplasticity of Aluminum Alloys https://www.mdpi.com/2673-4591/43/1/43	Eric Kojo Kweitsu
	10:30	Al-3 Networking	
	10:50-11:10	Coffee break	

INALCO 2023: Day 1, Wednesday Oct. 11th AM

STAR TIME		TITLE		SPEAKER
DAY 1: AM	11:10-12:10 Technical session : Design and metal forming-2 Chair: Mehdi Khlifate Room Rio Tinto			
	11:10	D2-1	Modelling induction heating of aluminium sheets for hot stamping https://www.mdpi.com/2673-4591/43/1/26	Alexandre Gariépy
	11:30	D2-2	Selection and Characterization of a Flexible Seal to Allow Sheet Flow during Superplastic Forming https://www.mdpi.com/2673-4591/43/1/20	Ahmed Gnenna
	11:50	D2-3	Friction models for a better prediction of machining performance of Aluminum Alloys parts https://tinyurl.com/278bnzec	Sandrine Anicette Tcheuhebou Tina
	11:10-12:10 Technical session: Welding and joining-2 Chair: François Nadeau Room Alouette			
	11:10	W2-1	Test of slip-critical connection system with embedded nuts for aluminium bridge application https://www.mdpi.com/2673-4591/43/1/42	Benoit Cusson
	11:30	W2-2	Evaluation of Small-Scale Thin Wall AISi7Mg Alloys LPBF Coupons under Extreme Low Cycle Fa- tigue Regime https://www.mdpi.com/2673-4591/43/1/41	Muralidharan Kumar
	11:50	W2-3	Experimental and Theoretical Research on Welded Aluminium K-Joints https://www.mdpi.com/2673-4591/43/1/18	Šemso Kalač
	11:10-12:10 Technical session: Surface treatment-1 Chair: Sofiene Amira Room WSP			
	11:10	SI-1	Why surface treatment must be an integral part of manufacturing? - An overview https://tinyurl.com/278bnzec	Saleema Noormo- hammed
	11:30	SI-2	Antimicrobial Aluminum Surfaces for Curbing Healthcare Associated Infections - a Short Review https://www.mdpi.com/2673-4591/43/1/49	Dilip Sarkar
	11:50	SI-3	Polymer–Aluminum Lightweight Multi-Material Joints Bonded with Mixed Adhesive https://www.mdpi.com/2673-4591/43/1/29	Mani Mohan Tiwari
12:10-13:15		Lunch		Meal area

INALCO 2023: Day 1, Wednesday Oct. 11th PM

START TIME		TITLE	SPEAKER
13:15-14:25		REGAL Students Posters Session Posters area https://tinyurl.com/278bnzec	
14:30 Keynote		Chair: Yves Archambault (Room Rio Tinto) New aluminium-scandium alloy for high-performance alpine skis https://tinyurl.com/278bnzec	Philippe Gosselin & Félix Lapointe
15:10-15:20		Break	
15:20-16:20		Technical session: Design and metal forming-3 Chair: Benoit Cusson	
15:20	D3-1	Structural folding for architectural applications https://www.mdpi.com/2673-4591/43/1/27	Andrei Nejur
15:40	D3-2	Experimental investigation on the mechanical characteristics of a novel hybrid densified wood filled aluminum tube dowel for timber connections https://www.mdpi.com/2673-4591/43/1/44	Marc Oudjene
16:00	D3-3	Torsional Strength of Aluminum Shapes - Circular and Rectangular Solids https://www.mdpi.com/2673-4591/43/1/4	Ronald Ziemian
15:20-16:20		Technical session: Welding and joining-3 Chair: Petrino Buzatu Room Alouette	
15:20	W3-1	Surface roughness studies on F357 aluminum alloy fabricated using laser powder bed fusion process https://www.mdpi.com/2673-4591/43/1/8	Jaskaranpal Singh Dhillon
15:40	W3-2	Accelerated Optimization of Laser Cutting Parameters using a machine learning approach https://tinyurl.com/278bnzec	Volkher Onuseit
16:00	W3-3	Static Mechanical Property Criterion Determined under Different Extent of Hot Crack Index of High-Strength Aluminium Autogenous Laser Welds https://www.mdpi.com/2673-4591/43/1/11	François Nadeau
15:20-16:20		Technical session: Environmental impact-1 Chair: Alban Pilard Room WSP	
15:20	E1-1	Opportunities for adding recycled content to primary aluminium products https://www.mdpi.com/2673-4591/43/1/32	Agathe Tshipama
15:40	E1-2	Ecodesign and life cycle analysis of a refrigerated van https://tinyurl.com/278bnzec	Rodrick Lévesque
16:00	E1-3	Life Cycle Cost Assessment of an Existing All-aluminum Bridge: Comparison of two deck options https://www.mdpi.com/2673-4591/43/1/38	Thomas Fortin
16:20-16:30		Break	

DAY 1: PM

INALCO 2023: Day 1, Wednesday Oct. 11th PM

START TIME		TITLE	SPEAKER	
DAY 1: PM	16:30	17:30	Technical session : Design and metal forming-4 Chair: Guillaume d'Amours Room Rio Tinto	
	16:30	D4-1	Optimal Extrusion Shape for Fabricating Aluminium Bridge Deck Using Assembly-Based Friction Stir Welding with Bobbin Tool https://www.mdpi.com/2673-4591/43/1/36	Amar Djedid
	16:50	D4-2	Evaluation of the Equivalent Moving Force Model for Lightweight Aluminum Footbridges in Simulating the Bridge Response under a Single-Pedestrian Walking Load https://www.mdpi.com/2673-4591/43/1/22	Elyar Ghaffarian Dallali
	17:10	D4-3	An optimization-based case-study of aluminum pedestrian bridge decks https://www.mdpi.com/2673-4591/43/1/51	Emelie Falkenberg & Markus Fredriksson
	16:30	17:30	Technical session: Welding and joining-4 Chair: Saleema Noormohammed Room Alouette	
	16:30	W4-1	Weldability and Mechanical Properties of Fe/Al Dissimilar Joints made by Resistance Spot Weld Bonding https://www.mdpi.com/2673-4591/43/1/47	Shoma Sakurai
	16:50	W4-2	Experimental investigation of the effect of different static mechanical properties and inclined welding on the fatigue strength of welded aluminum details https://www.mdpi.com/2673-4591/43/1/48	Christina Radlbeck
	17:10	W4-3	Friction stir welding parameters development of AA6061-T6 extruded alloy using a bobbin tool https://www.mdpi.com/2673-4591/43/1/50	Kenza M.S Tinguery
	16:30-17:30	Technical session: Environmental impact-2 Chair: Hüseyin Ersoy Room WSP		
	16:30	E2-1	Life Cycle Assessment along aluminium value chain : review of several environmental studies from bauxite mining to aluminium recycling, by AluQuébec and Groupe AGÉCO https://tinyurl.com/278bnzec	Alban Pilard
	16:50	E2-2	Aluminum fuel: the costs of a novel way to move and store clean energy in a decarbonized world https://tinyurl.com/278bnzec	Pascal Boudreau
	17:10	E2-3	Dynamic Monitoring of Aluminum Companies' Carbon Footprint https://tinyurl.com/278bnzec	Florent Bouguin
	17:30-19:30	Welcome cocktail		Poster area

INALCO 2023: Day 2, Thursday Oct. 12th AM

DAY 2: AM

START TIME		TITLE		SPEAKER
08:30		Conference opening		
08:30-09:30		Technical session : Design and metal forming-5 Chair: Sébastien Langlois Room Rio Tinto		
08:30	D5-1	Assessment of the Fatigue Strength of Friction Stir Welded Joints in Aluminium Bridge Decks With Numerical Analysis https://tinyurl.com/278bnzec	Mahmoud Trimech	
08:50	D5-2	Seismic design of aluminium structures in the second generation of Eurocode 8 https://www.mdpi.com/2673-4591/43/1/12	Raffaele Landolfo	
09:10	D5-3	The Second Generation Eurocode 9 https://www.mdpi.com/2673-4591/43/1/21	Alberto Mandara	
08:30-09:30		Technical session: Welding and joining-5 Chair: Dilip Sarkar Room Alouette		
08:30	W5-1	Influence of Environmental Conditions on the Mechanical Performance of Al 5052-H36 Adhesively Bonded Joints https://tinyurl.com/278bnzec	Marzieh Nodeh	
08:50	W5-2	Advances in Additive Friction Extrusion Deposition https://tinyurl.com/278bnzec	Max Hoßfeld	
09:10	W5-3	Dissimilar Joining of High Strength Steel and Aluminum Alloy using Resistance Spot Welding with Die and Punch Shaped Electrodes https://www.mdpi.com/2673-4591/43/1/45	Muneyoshi Iyota	
08:30-09:30		Technical session: Alloys-2 Chair: Alain Chapdeleine Room WSP		
08:30	A2-1	Effect of Annealing Temperature on the Microstructure, Mechanical Properties, and Electrical Conductivity of 4xxx Series Al-based Alloy https://www.mdpi.com/2673-4591/43/1/14	Mohammad K.-Pireyousefan	
08:50	A2-2	Thermal analysis for aluminum casting technology transfer https://tinyurl.com/278bnzec	Yohan Tremblay	
09:10	A2-3	Modeling Precipitation Effects on Mechanical Characteristics of Al-Cu Alloy https://tinyurl.com/278bnzec	Seyed Sajjad Jamali	
09:30-09:40		Coffee break		
09:40 Keynote		Chair: Nicolas Boissonnade Room Rio Tinto Modern Applications and Construction Details for Aluminium Bridge https://www.mdpi.com/2673-4591/43/1/13		
10:20 Keynote		Aluminium long span suspension bridges - ambitions, opportunities and challenges https://tinyurl.com/278bnzec		
11:00-11:10		Break		

INALCO 2023: Day 2, Thursday Oct. 12th AM

DAY 2: AM	START TIME		TITLE	SPEAKER
	11:10-12:10		Technical session : Design and metal forming-6 Chair: Julie Lévesque Room Rio Tinto	
	11:10	D6-1	Aluminum Beams with Composite Thermal Barriers: Recent Developments in Analysis https://www.mdpi.com/2673-4591/43/1/33 https://www.mdpi.com/2673-4591/43/1/34	James LaBelle
	11:30	D6-2	Industry 4.0: Correlation Analysis Applied to the Hot Stamping of AA7075 B-Pillars Pre-Assembled Using Friction Stir Welding https://www.mdpi.com/2673-4591/43/1/15	Mohamad Idriss
	11:50	D6-3	Preparation of High-Quality 6xxx Aluminium Eco Alloys Cast in Billets https://www.mdpi.com/2673-4591/43/1/23	Sonia Boczkal
	11:10-12:10		Technical session: Welding and joining-6 Chair: Lyès Hacini Room Alouette	
	11:10	W6-1	Numerical Prediction of the Fatigue Life of Complex Riveted Structures https://www.mdpi.com/2673-4591/43/1/6	Francis Corriveau
	11:30	W6-2	Mechanical Properties of Resistance Spot Welded Joints of Aluminum Castings and Wrought Alloys https://tinyurl.com/278bnzec	Takeshi Matsu- kage
	11:50	W6-3	Fatigue Testing and Analysis of Flare Bevel Groove-Welded Aluminum Joints for Pedestrian Bridge Applications https://www.mdpi.com/2673-4591/43/1/46	Scott Walbridge
	11:10-12:10		Technical session: Alloys-3 Chair: Marc-Olivier Gagné Room WSP	
	11:10	A3-1	Effects of An Oscillating Load on Superplastic Deformation and Microstructure of AA5083 Sheet Specimens https://tinyurl.com/278bnzec	Leo Kiawi
	11:30	A3-2	Tensile Properties of the Subsurface and Center Regions of AA6111 Direct-Chill-Cast Ingot in Semi-solid State and Their Hot Tearing Susceptibility https://www.mdpi.com/2673-4591/43/1/9	Mohamed Qassem
	11:50	A3-3	Microstructure evolution in a 6082 alloy under pulsed magnet field melt treatment https://www.mdpi.com/2673-4591/43/1/30	Yonglin Ma
12:15-13:30		Lunch: Panel Aluminium in bridges : International perspectives Chair: Benoit Cusson (Meal area)		

INALCO 2023: Day 2, Thursday Oct. 12th PM

START TIME		TITLE		SPEAKER
DAY 2: PM	13:50-14:50	REGAL Poster competition finalists' presentations Chair: Nicolas Boissonnade Room Rio Tinto		
	14:50 Keynote	Aluminium in a circular economy Chair: Yves Archambault Room Rio Tinto https://tinyurl.com/278bnzec		Honorable Rosa Galvez
	15:30-15:40	Break		
	15:40-17:00	Technical session : Design and metal forming-7 Chair: Ronald Ziemian Room Rio Tinto		
	15:40	D7-1	Experimental Investigation of I-shaped Aluminium Beams. CANCELLED	Alessandro Pisapia
	16:00	D7-2	Tests on Aluminum Sections with Simple and Complex Geometries https://www.mdpi.com/2673-4591/43/1/24	Prachi Verma
	16:20	D7-3	Design and optimization of aluminium member's sections for building efficient 120-160kV power transmission towers https://www.mdpi.com/2673-4591/43/1/5	Sanaz Chehrazad
	16:40	D7-4	Behaviour and design of I-shaped aluminium sections https://www.mdpi.com/2673-4591/43/1/35	Sahar Dahboul
	15:40-17:00	Technical session: Alloys-4 Chair: Abdallah Elsayed Room WSP		
	15:40	A4-1	Comparative microstructural study of cold sprayed coatings using pure aluminum and aluminum alloys powders https://www.mdpi.com/2673-4591/43/1/7	Mohamed Rachik
	16:00	A4-2	Modelling of process-microstructure-properties relationships in aluminum components with advanced microstructural characterization and machine learning https://tinyurl.com/278bnzec	Marc-Olivier Gagné
	16:20	A4-3	Solidification Processing of Al-Ce Alloys for High-Temperature Applications https://www.mdpi.com/2673-4591/43/1/17	Shimaa El-Hadad
	16:40	A4-4	Alulibs - Effortless Automated Molten Metal Sampling https://tinyurl.com/278bnzec	François Audet

INALCO 2023: Day 2, Thursday Oct. 12th PM

START TIME		TITLE	SPEAKER
DAY 2: PM	15:40-17:00	Technical session: Surface treatment-2 Chair: Hanan Farhat Room Alouette	
	15:40	S2-1	Atmospheric Plasma processes as potential alternative to the conventional anodization of aluminum alloys https://tinyurl.com/278bnzec
	16:00	S2-1	
	16:20	S2-2	Nanostructured superhydrophobic thin films against corrosion of aluminum alloys https://tinyurl.com/278bnzec
	16:40	S2-3	Ecofriendly surface treatment methods in manufacturing https://tinyurl.com/278bnzec
	17:15-17:45	REGAL student poster competition awards ceremony Room Alouette	
	18:00-21:00	Gala dinner	Meal area
		Painchaud Productions Show	

INALCO 2023: Day 3, Friday Oct. 13th AM

DAY 3: AM

START TIME		TITLE	SPEAKER
08:30		Conference opening	
		Chair: François Racine Room Rio Tinto	
08:30	Keynote	ELYSIS a Key Player in the Aluminum Decarbonization https://tinyurl.com/278bnzec	Vincent Christ
09:10	Keynote	Aluminum Auto Body Sheet in North America after the 2015 Ford F-150 https://tinyurl.com/278bnzec	Laurent Chappuis
09:50-10:10		Coffee break	
10:10-11:30		Technical session : Design and metal forming-8 Chair: Pampa Dey Room Rio Tinto	
10:10	D8-1	O.I.C.-based design of aluminum circular hollow sections under compression or pure bending https://www.mdpi.com/2673-4591/43/1/31	Liya Li
10:30	D8-2	Experimental and Analytical study of SHS Aluminium Members under Uniform Compression https://www.mdpi.com/2673-4591/43/1/39	Alessandro Pisapia
10:50	D8-3	Experimental characterization of the resistance of tubular aluminium sections https://www.mdpi.com/2673-4591/43/1/19	Sahar Dahboul
11:10	D8-4	Revolutionizing 6G and Aerospace with Aluminum-Based Rockoon Enabled High Altitude Platform Systems: The VERTEX Journey https://tinyurl.com/278bnzec	Abdo Shabah
10:10-11:30		Technical session: Welding and joining-7 Chair: Ahmed Maslouhi Room Alouette	
10:10	W7-1	Applications of Friction Stir Welding to improve the thermal management and to reduce the cost of liquid cold plates https://tinyurl.com/278bnzec	Antoine Pras
10:30	W7-2	Notch Stress Approach to Assess the Fatigue Strength of Friction Stir Welded Joints in Aluminium Bridge Decks https://tinyurl.com/278bnzec	Mahmoud Trimech
10:50	W7-3	Application of Friction Stir Welding (FSW) for the Assembly of Modular Aluminum Towers https://tinyurl.com/278bnzec	Philippe Grandmont
11:10	W7-4	Statistical Investigation of porosity recognition of overlap aluminum laser welding CANCELLED	Ahmad Aminzadeh
11:30		End of Conference	

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