

Tuesday, August 20				
Session Time	Room	Presentation Type	Presentation Title	Presenters/Authors
7:30-8:00	Atrium	Registration for workshop registrants and brief announcements from the conference chair		Brandon Searle
8:00-8:30	Atrium	Breakfast (Sponsored by Kilmer Group)		
8:30-12:30	203	Workshop 1 (ticketed event)	CSA standards and guidelines for modular construction with CSA Group	CSA Group
12:00-12:30	Atrium / Chancellor's Room	Lunch (Sponsored by EllisDon)		
12:30-17:00	204	Workshop 2 (ticketed event)	Designing for Manufacture and Assembly with SEMA	SEMA Software
15:30-17:00	Head Hall	Technical Tour (ticketed event)	Technical tour of the new Engineering Commons, a brand new addition to Head Hall	UNB Capital Planning and Operations (CP&O)
17:00-18:30	BREAK			
18:30-23:30	Long Hall, Richard J. CURRIE CENTER	Welcome Reception (Sponsored by SEMA Software) Entertainment by Anthony Gray		Pierre Battah Zhen Lei Joshua Leon SEMA Software

Wednesday, August 21					
Session Time	Room	Session Title	Presentation Type	Presentation Title	Presenters/Authors
7:00-8:00	Atrium / Chancellor's Room	Registration and breakfast (Sponsored by Kilmer Group)			
8:00-8:15	J Harper Kent Auditorium	Welcome & Opening Remarks			Pierre Battah Dr. Paul Mazerolle
8:15-9:15	J Harper Kent Auditorium	Plenary Session 1	Keynote Presentation	Keynote Address from Dr. Helena Lidelöw, Chief Technical Officer, Volumetric Building Companies	Dr. Helena Lidelöw, Chief Technical Officer, Volumetric Building Companies
9:15-9:30	Atrium	Coffee break (Sponsored by Pomerleau)			
9:30- 10:30	203	Stream 1 : Offsite Methods and Processes, focusing on innovative offsite manufacturing techniques, including prefabrication, panelized construction, modular construction, and industrialized construction, with the potential to revolutionize the industry.	Academic Paper (virtual)	Barriers to Offsite Construction Adoption In Jordan: An Exploratory Factor Analysis (20 mins)	Hasan Badran, Mahmood Alam, Mohammed Alaqad and Rubina Islam
			Academic Paper	Application of Off-site Principles for Small-scale Gold Mining Optimization in the Built Environment (20 mins)	Deinsam Ogan, Tochukwu Moses and Komali Yenneti.
			Academic Paper	Structural performance of light-weight precast concrete wall panels (20 mins)	Nathan McNeill and Alan Lloyd.
	204	Stream 2: Advanced Technologies in Construction, focusing on innovative	Academic Paper	An Energy-Efficient Variable Frequency Suction System for Floor-Filing Robots Using a Fuzzy Logic Controller (20 mins)	Jinhua Chen, Siwei Chang, Zemin Lyu, Tong Hu and Wanyou Yang.

9:30-10:30	204	applications of emerging technologies such as IoT, AI, 3D printing, robotics, reality capture, and AR/VR, showcasing their potential to transform the construction domain.	Academic Paper	Development of an Intuitive Mixed Reality Human Robot Interaction Interface for Construction Applications (20 mins)	Damith Tennakoon, Mojgan Jadidi and Seyedreza Razavialavi.
			Academic Paper	Robotic cell design and simulation system for cross-laminated timber panel post-construction operations (20 mins)	Jessica Janeth Cisneros González, Afia Rasool, Ying Hei Chui and Rafiq Ahmad.
	208	Stream 3: People and Management in Construction, focusing on human factors, collaboration, communication, education, training, leadership, procurement, performance modeling, innovation benchmarking, EDI, sustainability, and regulatory frameworks	Academic Paper	The Role of Human Dimension to Safe Working Condition in the Construction Industry (20 mins)	Ayodele Alejo, Clinton Aigbavboa, Douglas Aghimien
			Academic Paper	Offsite Manufacturing for Housing in Emerging Economies: An Evaluation of Current Implementation Levels (20 mins)	Nenpin Dimka, Louis Gyoh, Emmanuel Daniel and Job Momoh
			Academic Paper	A Framework to Evaluate Regional Construction Hubs Establishment (20 mins)	Sahar Soltani, Duncan Maxwell and Lisa Giusti Gestri.
	Aitken Room	Industry case studies	Case studies	Bird Construction - Building the Future: Revolutionizing Construction through Digital Transformation (60 mins)	Mohamed Adel
10:30-11:00	Atrium	Coffee Break (Sponsored by Pomerleau)			
11:00-12:00	203	Stream 1 : Offsite Methods and Processes	Academic Paper	Smart Technologies for Modular Construction: A Review of Current Applications (20 mins)	Sibgat Mehedi, Jin Ouk Choi and Amrit Shahi.
			Academic Paper	Double-Sided STS-CLT Connection for A Modularized Building System (20 mins)	Linchao Shen, Meng Gong, Alan Lloyd and Mohammad Mohammad.
	204		<i>Academic Paper (virtual)</i>	<i>BIM-Driven Offsite Construction: Pathways to Efficiency and Sustainability (20 mins)</i>	<i>Derrick Mirindi and Frederic Mirindi</i>

11:00-12:00	204	Stream 2: Advanced Technologies in Construction	Academic Paper	GIS Based Solutions for Management of Public Building and Infrastructure Assets: A Review of State of the Art and Emerging Technologies (20 mins)	Pavel Popov, M. Hamed Mozaffari, Seyedreza Razavialavi and Farzad Jalaei
			Academic Paper	Analyzing Deformations in As-Found Buildings for Accommodation in Panelized Retrofit (20 mins)	Kristine Prochnau, Simone Fallica, Stephen Fai, Michael Jemtrud and Jessica Mendoza
	208	Stream 3: People and Management in Construction	<i>Academic Paper (virtual)</i>	<i>Building Offsite Resilience using Capability-Driven Stage Gates</i>	<i>Volkan Ezcan, Jack Goulding</i>
			Academic Paper	Developing the "Industrial Commons" for Off-Site Construction (20 mins)	Gaurav Rampal
			Academic Paper	Technology Application in Enhancing Safe Working Condition in the Construction Industry (20 mins)	Ayodele Alejo, Clinton Aigbavboa, Douglas Aghimien
	Aitken Room	Industry case studies	Panel Discussion	How can the private and public sector better leverage offsite construction (60 mins)	Panel discussion moderated by Brandon Searle with Tom Hardiman (Modular Building Institute) and Jon Higgins (Stack Modular)
12:00-12:30	Atrium / Chancellor's Room	Lunch (Sponsored by EllisDon)			
12:30-14:00	J Harper Kent Auditorium	Plenary Session 2	Panel Discussion	The Role of Government in Accelerating Off-site Construction	Moderated by Dr. Jeff Rankin with presentations from Sabrina Fiorellino, CEO of Fero International Stephen Wightman, Director - UK MMC at AtkinsRealis Scott Fischer, CEO of OffsiteNZ
14:00-14:15	Atrium	Coffee Break (Sponsored by Pomerleau)			
14:15-15:15	203	Stream 1 : Offsite Methods and Processes	Academic Paper	Quantifying "Softer" Benefits from Modularization in Capital Projects: Literature Review (20 mins)	Amrit Shahi, Jin Ouk Choi, Sibgat Mehedi
			Academic Paper	Analysis and Mitigation Strategies of Installation Delays in Precast Concrete Columns: A Case Study in a Korean Logistics Facility (20 mins)	Eunbeen Jeong, Junyoung Jang, Seulbi Lee and Tae Wan Kim.
	204	Stream 2: Advanced	Academic Paper	Enhancing Built Environment Management: A Vision-Based Approach Unified with Fiducial Markers and Omnidirectional Camera Pose Estimation (20 mins)	Gelare Taherian and Ehsan Rezazadeh Azar

14:15-15:15	204	Stream 2: Advanced Technologies in Construction	Academic Paper	A Review of Scan-to-BIM Technologies in Assisting Project Coordination and Management (20 mins)	Hannah Coldwell, Xinzhi Qiu, Jeff Rankin, Meng Gong and Zhen Lei.
			Academic Paper	<i>Integration of Artificial Intelligence and Smart Technologies in Offsite Construction: A Comprehensive Review (20 mins)</i>	<i>Derrick Mirindi, Tonya Sanders Thach and Oluwakemi Oshineye.</i>
	208	Stream 3: People and Management in Construction	Academic Paper	Awareness of Health and Safety Practices Among Construction Workers: A Case Study of Undo State, Nigeria (20 mins)	Oluwaseun Olu-Martins, Cliton Ohis Aigbavboa and Opeoluwa Akinradewo.
			Academic Paper	Appraising Time Performance of Higher Education Institutions Building Projects to Achieving Sustainable Development Goal 4 (20 mins)	Ayobami Idowu, Clinton Aigbavboa, Ebekozi Andrew, Peter Adekunle and Fortune Aigbe.
	Atrium	STUDENT POSTER COMPETITION			
		1. <i>Deinsam D. Ogan- APPLICATION OF OFF-SITE PRINCIPLES FOR SMALL-SCALE GOLD MINING OPTIMIZATION IN THE BUILT ENVIRONMENT (virtual)</i> 2. <i>Derrick Mirindi and Frederic Mirindi - BIM-Driven Offsite Construction: Pathways to Efficiency and Sustainability (virtual)</i> 3. Hannah Coldwell - The Impact of Using Building Information Modeling (BIM) and Digital Technologies for Project Delay Management 4. Christtestimony Oluwafemi Jesumoroti, Abdullateef Olanrewaju and Koor Soo Chen- Maintenance Management 5. Jessica Janeth Cisneros Gonzalez - ROBOTIC CELL DESIGN AND SIMULATION SYSTEM FOR CROSS-LAMINATED TIMBER PANEL POST-CONSTRUCTION OPERATIONS 6. Stephen Elms - Immersive Training Solutions: The Potential Role of XR for Safety and Skill Development in Offsite Construction 7. Eunbeen Jeong - Precast Concrete Components Installation time 8. Eberhiri Benjamin Olomu - Performance Measurement of Modular Construction (PMMC): Application of Balanced Scorecard (BSC)			
15:15-15:30	Atrium	Coffee Break (Sponsored by Pomerleau)			
15:30-16:30	203	Stream 1 : Offsite Methods and Processes	Academic Paper	Integrated Framework and Impact Assessment of Design for Manufacture And Assembly (DFMA) in Modular Home Manufacturing Facilities: A Case Study (20 mins)	Nicole Odo, Sadaf Montazeri, Zhen Lei, Katherine DeWinter and Amir H. Shokouhy.
			Academic Paper	Economic Factors influencing the adoption of Modularity Methodology in the Built Environment (20 mins)	Peter Adekunle, Clinton Aigbavboa, Osamudiamen Otasowie and Ayobami Idowu.

15:30-16:30	204	Stream 2: Advanced Technologies in Construction	Academic Paper (virtual)	Explainable Artificial Intelligence- in Generative Design for Modular Construction	Sanaz Zarghami, Hanieh Kouchaki, Longzhi Yang, Pablo Martinez
			Academic Paper	Enhancing Efficiency in Light-Gauge Steel (LGS) Prefabrication: A Strategic Workflow Optimization (20 mins)	Sadaf Montazeri, Nicole Odo and Zhen Lei.
			Academic Paper	Review of Natural Language Processing NLP and Generative AI Applications in the Era of Construction 4.0 (20 mins)	M. Hamed Mozaffari, Pavel Popov, Seyedreza Razavialavi and Farzad Jalaei.
	Aitken Room	Industry case studies	Case studies	PACE Building Technologies Inc- Optimal Offsite Building Systems for Medium and High Density Buildings (30 mins)	Garry Rutledge
			Case studies	3i Precast Concrete Ltd.- 3i Precast an innovative climate resilient and affordable solution for residential construction (30 mins)	Mohamed Al-Hussein
16:30-18:00	BREAK				
18:00-18:30	Student Union Building (SUB) Ballroom	Awards Banquet Reception			
18:30-23:30	Student Union Building (SUB) Ballroom	Awards Banquet - announcing the best paper by students and best paper by researchers as well as the top 3 winners for the student poster competition Entertainment by Shanachie Dance Company and Dram & A Draw			

Thursday, August 22					
Session Time	Room	Session Title	Presentation Type	Presentation Title	Presenters/Authors
7:00-8:00	Atrium / Chancellor's Room	Registration for one-day pass and breakfast			
8:00-8:15	J Harper Kent Auditorium	Opening Remarks by Pierre Battah			
8:15-9:45	J Harper Kent Auditorium	Plenary Session 3	Panel Discussion	Automation and Planning in Offsite Construction: Challenges and Future Potential	Moderated by Dr. Ala Suliman with presentations from Mohamad Kassem- Professor, Digital Construction Management and the Lead of the Digital Construction Research theme, School of Engineering, Newcastle University. Dr. Mohamed Al-Hussein- Professor, Department of Civil and Environmental Engineering, University of Alberta Dr. Zhen Lei, OSCO Chair in Off-site Construction and Associate Professor, Department of Civil Engineering, University of New Brunswick
9:45-10:00	Atrium	Coffee Break (Sponsored by Pomerleau)			
10:00-11:00	203	Stream 1 : Offsite Methods and Processes	Academic Paper	Structural Performance Assessment of PACE Modular Precast Slab Structure Systems (20 mins)	Trevor Hrynyk, Mi Zhou, Garry Rutledge, Dejan Dikic
			Academic Paper	Self aligning structural connection for precast concrete walls (20 mins)	Kate Cunningham, Alan Lloyd, Samira Rizaee
	204	Stream 2: Advanced Technologies in Construction	Academic Paper	Integrating Design and Fabrication for Sustainable Housing: Insights from the Kopps Prototype (20 mins)	Saeid Metvaei, Kamyab Aghajamali, Songyue Wang, Zhen Lei and Qian Chen

10:00-11:00	204	Industry case studies	Case studies	Meta Bytes North America Inc- Integrated Software for Managing and Monitoring Manufacturing Processes, Machinery, and Robots (30 mins)	Oskar Lundgren
	208	Industry case studies	Case studies	UNB Off-site Construction Research Centre - Preliminary UHPC Façade Prototyping (60 mins)	Julia Holgate
	Aitken Room	Industry case studies	Case studies	WZMH Architects / Sparkbird- Speedstac Revolution: Future of Modular Building (60 mins)	Zenon Radewych
11:00-11:30		Coffee Break (Sponsored by Pomerleau)			
11:30-12:30	203	Stream 1: Offsite Methods and Processes	Academic Paper	A Comparative Analysis of Design for Manufacturing and Assembly (DfMA) Implementation Challenges in On-site construction (OnSC) and Off-site Construction (OSC) (20 mins)	Sadaf Montazeri, Sara Rankohi, Ivanka Iordanova and Amirhossein Mehdipoor.
			Academic Paper	Benefits of Integrating Advanced Composite Materials into Modular Construction for enhanced Structural Performance (20 mins)	Peter Adekunle, Clinton Aigbavboa, Osamudiamen Otasowie, Opeoluwa Akinradewo and Nwabisa Pheza.
	204	Industry case studies	Case studies	720 Modular, Nine Yards Architects and Kent Homes- Collaborative Contracts for Successful Modular Delivery (60 mins)	Shallyn Hendry, Craig Mitchell, Jeremy Maxwell
	208	Industry case studies	<i>Case studies (virtual)</i>	<i>Housing at High Speed/The Modular Solution - What it Will Take to Build 6 Million Homes in 7 years. (60 mins)</i>	<i>Steven Haylestrom</i>
12:30-13:00	Atrium / Chancellor's Room	Lunch (Sponsored by EllisDon)			

13:00-14:30	J Harper Kent Auditorium	Plenary Session 4	Panel Discussion	Revolutionizing construction: The future of digital technologies in the built environment	Moderated by Kaitlyn Gillis with presentations from Dr. Gursans Guven Isin- Assistant Professor, Department of Civil Engineering, University of Manitoba Dr. Mojgan Jadidi- Associate Professor, Civil Engineering, York University Dr. Qian Chen -Assistant Professor, Construction Integration and Digitalization (CID) Lab, University of British Columbia
14:30-15:00	Atrium	Coffee Break (Sponsored by Pomerleau)			
15:00-16:30	J Harper Kent Auditorium	AI in the AEC Industry sponsored by the McKenna Institute (90 mins)			Moderated by Aaloak Jaswal with presentations from Joshua Waite, Director of Partnership, McKenna Institute Mark Cichy, Principal and the Director of Design Technology, HOK Hammad Chaudry, Vice President, Innovation and Construction Technology, EllisDon
16:30-17:00		Closing Remarks			Pierre Battah Brandon Searle
17:00-19:15	BREAK				
19:15-22:30	Pick up at Hilton	Brewery Tour (ticketed event)			