

University of Toronto
Engineering Research Conference

UTERC₂₀₂₆

“Erasing Boundaries”



@uterc_grad



uterc_2026@gmail.com



<https://gradstudies.engineering.utoronto.ca/events-calendar/uterc-2026/>

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WELCOME MESSAGE

The University of Toronto Engineering Research Conference (UTERC) is returning this summer for its 6th annual edition! This year's theme celebrates the momentum of transformative ideas and forward-thinking solutions that are shaping our world. Erasing Boundaries invites participants to explore how emerging technologies, interdisciplinary collaboration, and bold creativity are dissolving the traditional lines between fields, disciplines, and ways of thinking. Whether you are pushing boundaries in research or reimagining real-world applications, this theme encourages all students to harness the power of innovation to make a meaningful impact.

As a leading research faculty, the Faculty of Applied Science & Engineering is pushing the limits and pioneering initiatives in this increasingly digital world. UTERC embodies this spirit by providing a platform for students to showcase their research, share bold ideas, and contribute to shaping the future of engineering and technology.

Sincerely,
The UTERC 2026 Team

ABOUT UTERC

The University of Toronto Engineering Research Conference (UTERC) is back for its 6th annual edition on Friday, August 21st, 2026, showcasing the groundbreaking work of graduate students across the Faculty of Applied Science & Engineering. Through engaging presentations and a poster competition, UTERC not only highlights cutting-edge research and projects in areas like AI, sustainability, biomedical engineering, and more—it also sparks cross-disciplinary dialogue, inspires future innovations, and strengthens the global impact of U of T's research community.

Our goal is to showcase the groundbreaking research and projects of graduate students within the Faculty of Applied Science & Engineering, while fostering interdisciplinary collaboration, knowledge exchange, and community building.



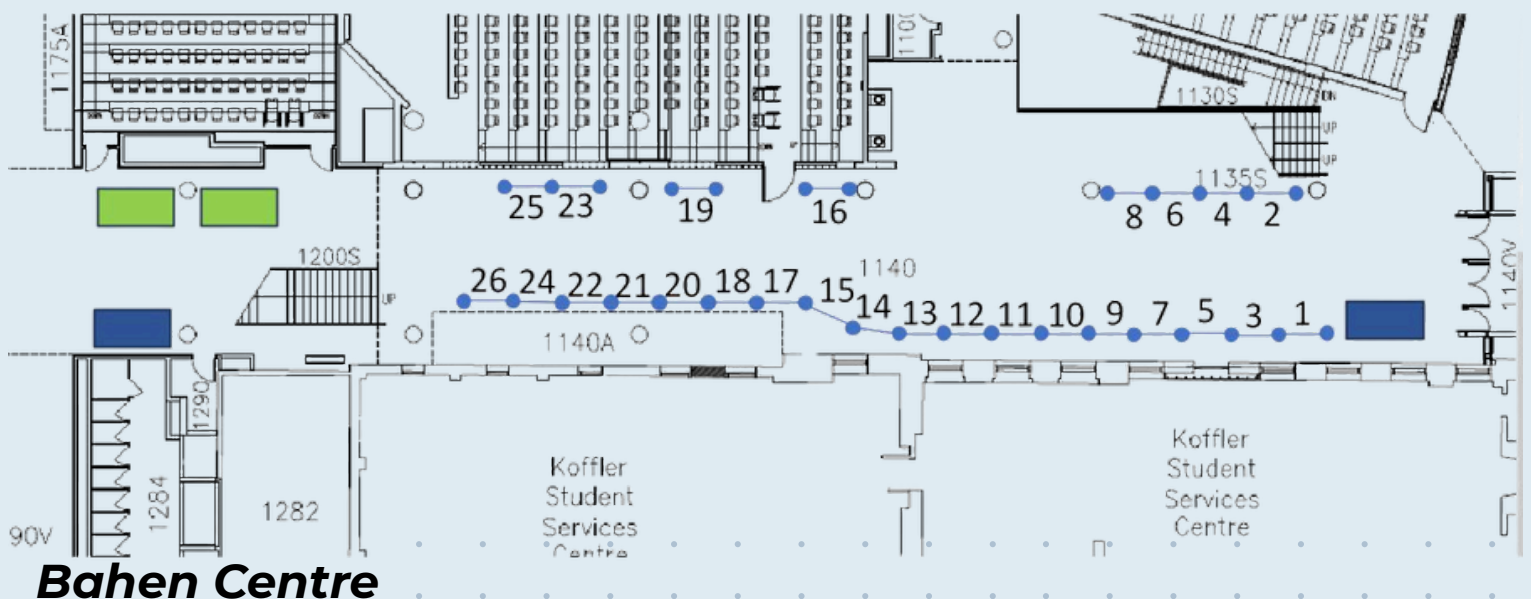
PROGRAM AT A GLANCE

TIME	SESSION	LOCATION
9:00 – 9:30 A.M.	Registration	SF1101
9:30 – 10:00 A.M.	Opening Ceremony	SF1101
10:00 – 10:30 A.M.	Morning Coffee & Poster Set-Up	Bahen Atrium
10:30 A.M. – 12:00 P.M.	Morning Podium & Poster Presentation Sessions	Bahen Tutorial Rooms & Bahen Atrium
12:00 – 1:00 P.M.	Lunch & Alumni Panel	BA2185
1:00 – 3:00 P.M.	Evening Podium & Poster Presentation Sessions	Bahen Tutorial Rooms & Bahen Atrium
3:00 – 4:00 P.M.	Engineering Leadership Workshop & Publication Workshop	SF1101 Online Passcode: 751407
4:00 – 5:00 P.M.	Closing Ceremony	SF1101
5:00 – 7:00 P.M.	Evening Networking	Bahen Atrium

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PODIUM PRESENTATION SCHEDULE & POSTER LAYOUT

TIME	TRACK	LOCATION
Morning Session 10:30 A.M. – 12:00 P.M.	Health and Biomedical Engineering	BA1285
	Intelligent Systems and Data	BA2155
	Sustainable Solutions and Engineering Education	BA2165
	Advanced Manufacturing and Robotics	BA2139
Evening Session 1:00 – 3:00 P.M.	Health and Biomedical Engineering	BA2185 & BA2139
	Intelligent Systems and Data	BA2155
	Sustainable Solutions and Engineering Education	BA2155 & BA2165



Bahen Centre

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ABOUT OUR KEYNOTE SPEAKERS



Dr. Cindy Rottmann

Cindy Rottmann is an Assistant Professor of Engineering Education at the Institute for Studies in Transdisciplinary Engineering Education and Practice (ISTEP), University of Toronto. Her research examines engineering ethics, equity, leadership, and policy in professional practice. She currently serves as the Director of the Collaborative Specialization in Engineering Education and chair of the Developing Engineering Education Research SIG of the Canadian

Engineering Education Association. Over the past few years, she has taught courses on engineering leadership, social justice, the power of story, educational policy and program evaluation. As Director of the UofT Collaborative Specialization in Engineering Education, she also facilitates the engineering education graduate seminar.

Karen Wonders

Karen Wonders is an engineer turned executive coach who spent two decades leading teams, managing departments, and optimizing technical systems as a director in the technology industry. Today she coaches technical professionals at pivotal points in their careers, helping them grow their influence and presence, find clarity on what comes next, and step into leadership with or without the title. She is also an experienced keynote speaker on how people connect and lead through the way they show up. Karen's path runs through the

University of Toronto: she earned her degree in Engineering Science, Manufacturing option (OTI + PEY), then returned for an Executive MBA and her executive coaching certification, both from the Rotman School of Management. Follow her biweekly Leadership Spark newsletter on LinkedIn to keep the conversation going.



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PRE-CONFERENCE WORKSHOP HOSTS

Navigating Paper Submission, Peer Review & Publication Ethics Workshop



Dr. Joao Soares

João B. P. Soares is a Professor of Chemical and Materials Engineering at the University of Alberta and Editor-in-Chief of The Canadian Journal of Chemical Engineering. His research focuses primarily on polymer reaction engineering, particularly the synthesis, characterization, and mathematical modelling of polyolefins and polymers for environmental remediation. Alongside his research and teaching activities, he has a longstanding interest in scientific publishing, peer review, editorial decision-making, and publication ethics. In recent years, he has written and spoken extensively about responsible human judgement in peer review and the opportunities and challenges created by the increasing use of artificial intelligence in scientific publishing.



Dr. Jinyang Liang

Jinyang Liang is a Professor at the Institut National de la Recherche Scientifique (INRS)–Université du Québec. He holds the Canada Research Chair in Ultrafast Computational Imaging (Tier II) and INRS Co-Chair in Nano-Biophotonics, directs the Laboratory of Applied Computational Imaging (LACI), and works on ultrafast imaging, coded-aperture imaging, optical physics, and biophotonics.

WORKSHOP HOSTS

Real-World Applications of Research and Leadership Beyond Academia



Dr. Xiaodong Liang

Xiaodong Liang is a Professor of Electrical and Computer Engineering at the University of Saskatchewan and a Tier II Canada Research Chair in Technology Solutions for Energy Security in Remote, Northern and Indigenous Communities. Her research focuses on sustainable and resilient energy systems, including renewable energy integration, energy storage, power system protection, and technologies that improve energy reliability in challenging environments. Working closely with industry, utilities, governments, and community partners, she develops practical solutions to support the transition to cleaner and more secure energy systems. In recognition of her contributions to power system engineering and energy technologies, she was named an IEEE Fellow, one of the highest distinctions in the engineering profession,



Dr. Emily Moore

Emily Moore is Director of Troost ILead at the University of Toronto and a Professor in the Faculty of Applied Science & Engineering. Following more than 20 years in industry, including leadership roles at Xerox and Hatch, her work focuses on developing leadership capacity in engineers and advancing inclusive, innovative cultures. Throughout her career, she has led multidisciplinary teams in technology development, product innovation, and major engineering projects, and spearheaded diversity and inclusion initiatives. Emily holds a Bachelor of Engineering Chemistry from Queen's University and a doctorate in Physical Chemistry from Oxford University as a Rhodes Scholar.

ALUMNI PANELIST



Yash Shah, MEng
Data Scientist, Wrango



Nan Ge, PhD
CEO & Co-Founder, Cardinal Volta



Maciej Hryiewicki, PhD
Canada AI & Data Lead for Utilities,
Accenture



David Dunwoody, PhD
Operational Requirements Manager,
Department of National Defense



Randy Sinukoff, BAsC
Senior Associate, Stantec Consulting Ltd.

PODIUM PRESENTATIONS

HEALTH AND BIOMEDICAL ENGINEERING

Name	Time Slot	Abstract Title
Morning Session 10:30 A.M. - 12:00 P.M. in BA2185		

Kimbery Seaman	10:30 - 10:45 A.M.	<i>Mechanical cues regulate disseminated prostate cancer cells in the bone marrow perivascular niche</i>
Rojin Anbarafshan	10:45 - 11:00 A.M.	<i>Onset and nature of flow instabilities and induced sound in cerebral venous diseases</i>
Mehdi Sadeghi	11:00 - 11:15 A.M.	<i>Liquidlike Protein-Repellent Coatings for a Safer Healthcare Environment</i>
Ali Hedayatnia	11:15 - 11:30 A.M.	<i>Overcoming the diffusion barrier in thick engineered heart tissue</i>
Hannah Smyth-Liu	11:30 - 11:45 A.M.	<i>Investigating the Effect of Inflammation on the Propagation of Load-Induced Cartilage Streaming Potentials in Equine Joints</i>

PODIUM PRESENTATIONS



HEALTH AND BIOMEDICAL ENGINEERING

Name	Time Slot	Abstract Title
Evening Session 1:00 - 3:00 P.M. in BA2185		

Ferdinand Reke Avikpe	1:10 -1:25 P.M.	A two-scale reaction-diffusion model for predicting necrotic core formation in hPSC-derived cardiomyocyte aggregates
Hamna Rizwan	1:25 - 1:40 P.M.	Evaluation of Functional Properties of Common Bean Protein Isolates for Food Applications
Alexander Vicol	1:40 - 1:55 P.M.	State-of-Float: From Balling to Future Space Travel
Coulter Montague	1:55 - 2:10 P.M.	Overexpression of intracellular calcium cycling proteins does not enhance calcium handling or contractile function in human pluripotent stem cell-derived cardiomyocytes
Aryan Singh	2:10 - 2:25 P.M.	Activating Oligodendrocyte Precursor Cells with Electrical Stimulation to Promote Neural Repair Following White Matter Injury
Fatemeh Bagheri	2:25 - 2:40 P.M. 2:40 - 2:55 P.M.	Self-Supervised Audio Representation Learning for Pediatric Asthma Detection in Emergency Care Using Digital Stethoscope Recordings An NLP-Enhanced Machine Learning Approach for Predicting Disposition Decisions in Mental Health Emergency Department Visits Using Electronic Health Records
Tosin Akintunde	2:55 - 3:10 P.M.	Towards Equitable Healthcare Systems: Envisioning the Future of Maternal Care for Black Women and Birthing Persons

PODIUM PRESENTATIONS



HEALTH AND BIOMEDICAL ENGINEERING

Name	Time Slot	Abstract Title
Evening Session 1:00 - 3:00 P.M. in BA2139		

Sharini Sam Chee	1:10 -1:25 P.M.	Miniaturized Fluorescence Anisotropy Immunoassay onto an Islet-on-a-chip to Measure Glucagon Secretion from Individual Islets
Athena Natalia Hughes	1:25 - 1:40 P.M.	Silicon Heterojunction Photodetectors for Near-Infrared Absorption and Non-Invasive Glucose Monitoring
Kabir Gupta	1:40 - 1:55 P.M.	Validation of a lumped parameter model for predicting cerebral venous network hemodynamics
Susana Su	1:55 - 2:10 P.M.	Critical Care Predicted Occupancy Model (CCPOD) – A Tool to Inform Decision-Making to Avoid Critical Care Bed Alerts
Farzan Mazaheri	2:10 - 2:25 P.M.	Thickness-Dependent Frequency-Domain Characterization of Low Q-Factor Fiber-Based Fabry-Perot Interferometers for Applications in Coronary Artery Imaging Catheters
Christopher Knight	2:25 - 2:40 P.M.	Brain-Mimetic Stimulation for Seizure Suppression in a Neuroglial Epilepsy Model
Ana-Maria Oproescu	2:40 - 2:55 P.M.	Using synchrotron small angle x-ray scattering to relate mRNA lipid nanoparticle structural dynamics to in vivo performance
Iris Huic	2:55 - 3:10 P.M.	Understanding the use of information objects in collaborative design processes for mass personalised products (case study: custom abutment design)

PODIUM PRESENTATIONS



ADVANCED MANUFACTURING & ROBOTICS

Name

Time Slot

Abstract Title

Morning Session 10:30 A.M. - 12:00 P.M. in BA2139

Hshmat Sahak

10:30 - 10:45 A.M.

Adaptive Graph-based Indoor Mobile Robot Navigation with Temporary Obstacles using Obstacle Survival Models

Qimeng Yang

10:45 - 11:00 A.M.

Erosion Resistance and Large-Scale De-Icing Capability of Quasicrystalline – Tungsten Carbide Composite Coatings Deposited via High Velocity Oxy Fuel Thermal Spray.

Paola Driza

11:00 - 11:15 A.M.

Optimizing Olfactory Mixtures

Victor Deng

11:15 - 11:30 A.M.

Experimentally and Numerically Elucidate Tar Composition and Formation Mechanisms from Microwave-Heated Methane Pyrolysis

Niher Ranjan
Sarker

11:30 - 11:45 A.M.

Leveraging a 3D-Printed Reactor to Fabricate Freestanding Reverse Osmosis Membranes for Direct Measurement of Intrinsic Polyamide Transport Properties

Naeimeh
Najafizadeh Sari

11:45 A.M. - 12:00 P.M.

Distributed Wireless Sensor Network Coordination for Simultaneous Multi-Target Tracking with Proactive Handover

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PODIUM PRESENTATIONS

INTELLIGENT SYSTEMS AND DATA

Name	Time Slot	Abstract Title
Morning Session 10:30 A.M. - 12:00 P.M. in BA2155		
Mohamed Mahrous	10:30 - 10:45 A.M.	Atomistic Modeling of Near-Equilibrium Electrochemical Interface Dynamics in Batteries Using State-Space model
Santure Chen	10:45 - 11:00 A.M.	Conceptual Genealogy of "Out of the Loop" in Human Factor Engineering
Kalana Abeywardena	11:00 - 11:15 A.M.	Thermodynamic Analysis of Message-Passing Decoders
Iman Jebellat	11:15 - 11:30 A.M.	AI-Driven Energy Consultant: A Neuro-Symbolic Agentic Framework for Automated Decarbonization Strategy
Ehijie Collins Agbadu	11:30 - 11:45 A.M.	AI-Enabled Microencapsulation in Food Engineering: Advancing Intelligent Design and Process Optimization for Sustainable Food Systems
Zihe Zhou	11:45 A.M. - 12:00 P.M.	Highway Algorithm: Scalable Overlapping Community Detection on Network Backbones

PODIUM PRESENTATIONS

INTELLIGENT SYSTEMS AND DATA

Name

Time Slot

Abstract Title

EVENING SESSION 1:00 - 3:00 P.M. in BA2155

Khodr Jaber

1:10 -1:25 P.M.

A Dynamically Adaptive GPU-Native Octree Structure for Sparse Spatial Computation

Chou Shen

1:25 - 1:40 P.M.

Bridging the Sim-to-Real Gap with Adaptive Meta-Reinforcement Learning for HVAC Control

Uyen Hua

1:40 - 1:55 P.M.

MolProse: When Molecules Tell a Story

David Chen

1:55 - 2:10 P.M.

Using chatbots to reduce strength of belief in misinformation: Automating deep canvassing

SUSTAINABLE SOLUTIONS & ENGINEERING EDUCATION

Name

Time Slot

Abstract Title

EVENING SESSION 1:00 P.M. - 3:00 P.M. in BA2155

Zayneb Hussain

2:10 - 2:25 P.M.

Turning CO₂ into Fuel: Linking Conditioning Protocols to Catalyst Durability in CO₂ Electrolyzers

Olga Mistic

2:25 - 2:40 P.M.

Achieving High In Situ Acid and Base Concentration from Sodium Sulphate Electrolysis

Alexander Vicol

2:40 - 2:55 P.M.

Maryam Kiani

2:55 - 3:10 P.M.

Advanced MOF, 2D, SAC, and HEA Nanomaterials for High-Performance Electrocatalysis in Fuel-Cell Energy Conversion

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SUSTAINABLE SOLUTIONS & ENGINEERING EDUCATION

Name	Time Slot	Abstract Title
Morning Session 10:30 A.M. - 12:00 P.M. in BA2165		

Arash Fassadi Chimeh	10:30 - 10:45 A.M.	Giving Electric Vehicle (EV) Batteries a Second Life
Keanna Yu	10:45 - 11:00 A.M.	Development of Solid-Carrier Based Membranes Platform Technologies for Selective Cation-Cation Separations
Jiaze Wu	11:00 - 11:15 A.M.	Facile Template-Assisted Synthesis of Ultra-Stable Perovskite Nanocrystals in Mesoporous Silica Nanoreactors for Water-Resistant Optoelectronics and X-Ray Radioluminescence
David Nsa	11:15 - 11:30 A.M.	Freezing Saline Droplets in Cold Air: A Path to Fossil-Free Mine Heating
Arianna Economou	11:30 - 11:45 A.M.	Elucidating the Impact of Cathode Humidification on Membrane Water Uptake in AEM Water Electrolyzers using Neutron Imaging
Miguel Roberto Tsai	11:45 A.M. - 12:00 P.M.	Developing a Biophysical Method to Measure Expansin Activity using a Quartz Crystal Microbalance with Dissipation (QCM-D)



PODIUM PRESENTATIONS



SUSTAINABLE SOLUTIONS & ENGINEERING EDUCATION

Name

Time Slot

Abstract Title

Evening Session 1:00 - 3:00 P.M. in BA2165

Valentine Jr
Ckurshumov

1:10 -1:25 P.M.

Elemental Sulfur Recovery as a Value Product from
Bio-Processed Sulfidic Mine Tailings

Badr Abbas

1:25 - 1:40 P.M.

Mathematical Modeling of a Continuous
Bioleaching Reactor System of Sulfidic Mine Waste
for Nickel and Sulfur Recovery

Marianna
Stathogianni

1:40 - 1:55 P.M.

Minimizing Nickel Losses during Iron Removal from
Bioleaching of Sulfidic Mine Wastes

Sima Zeinali
Danalou

1:55 - 2:10 P.M.

Increased Support Layer Hydraulic Resistance
Partially Explains Permeability Loss in High-
Pressure Reverse Osmosis

Shashwat A.
Parikh

2:10 - 2:25 P.M.

A Novel Microwave-Driven Iron Redox
Thermochemical Heat Battery for High-
Temperature Industrial Energy Storage

Haoyang Li

2:25 - 2:40 P.M.

Microwave-Heated Fluidized Beds: A Numerical
Investigation of Microwave Absorption,
Hydrodynamics, and Heat Transfer

Niher Ranjan

2:40 - 2:55 P.M.

Engineering Thin-Film Composite Membranes for
High-Pressure Brine Desalination by Enhanced
Reverse Osmosis

Nabeegh Khan

2:55 - 3:10 P.M.

A Pathway for Disciplinary Exploration? TrackOne
Students' Experience in the Faculty Survey Data

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MORNING POSTER PRESENTATIONS

Name	Location	Abstract Title
Sadra Seifi	1	Reducing Wind-Induced Bias in Snowfall Measurements Through Modified Gauge Design: A Numerical Approach
Sarah Toukan	2	Through the Barrier: Understanding Transport Through Tissue-Like Barriers
Howard Ho	3	Using Forum and Assessment Analytics to Target Student Support Needs
Nazanin Alizadeh Youvalari	4	Bridging Signed and Spoken Language: A Deep Learning Approach to American Sign Language Recognition and Translation
Zijun Liu	5	The Water and Heat Balance of the Hudson Bay Complex
Amirhossein Nazeri	6	Enabling Safe and Efficient Non-Isolated EV Fast Charging
James Zhu	7	Genetic Algorithm Search for Error-Reducing Quasi-Cyclic LDPC Codes
Christine Seoyoung Kwon	8	Development of a Multimodal Biomarker to Identify Myofascial Trigger Points Using High-Density Surface EMG, B-Mode Ultrasound, and Sensory Measures
Bethany Chan	9	Engineering Saccharomyces cerevisiae for Glycolic Acid Production from Ethylene Glycol
Taylor Goldblatt	10	Organ-on-a-chips for the study of tumour-vessel interactions using tunable in vitro microvasculature networks
Huanang Wang	11	Kinetic Modelling of pH-Responsive Iron Release from Chitosan-Based Microencapsulated Particles
Narasimha Kalimipalli	12	Reimagining Radiotherapy QA with Generative Imaging Models
HaoYu Zhang	13	Ultra-broadband Absorber Metasurface Enhancing CO2 Reformation under Ambient Conditions through Photochemical – Photothermal synergy
Shysta Sehgal	14	BRIDGE: Bayesian Relations Integrating dMRI and Grouped Evoked-potentials

MORNING POSTER PRESENTATIONS

Name	Location	Abstract Title
Anny Fong	15	<i>Emotion Recognition Ability in Undergraduate Engineering Students: Perspectives and Performance</i>
Zahra Amiri	16	<i>Scientific Challenges and Validation Requirements for Deep Learning-Based Downscaling of Air Quality Mapping</i>
Nooshin Salehabadi	17	<i>Predictive Maintenance and Reliability Enhancement of Medical Equipment: An Integrated Machine Learning and Weibull Distribution Approach.</i>
Kenny Ponto	18	<i>Reading Between the Glances: Translating False Alarm Data into Driver-Centered DMS Design</i>
Nicholas Fok	19	<i>Streamlining Intraoperative Multidisciplinary Teamwork Assessments: Part 1 of a Mixed Methods Study</i>
Afarin Komam	20	<i>Novel Storage Medium for Extended Preservation of Osteochondral Allografts in Canada: Translation to Human Tissue</i>
Paneet Gill	21	<i>Designing Resilient Healthcare Supply Chains: A Human Factors and Systems Perspective</i>
Niayesh Namdar	22	<i>Life Cycle Assessment of Conventional and Cultivated Meat Production Systems</i>
Huilin Liu	23	<i>Development of a Portable Fluorescence-Based Method for Estimating Folic Acid in Fortified Salt</i>
Joao Pedro Bazzo	24	<i>What happens when ride-hailing goes electric? Assessing the operational impacts of full fleet electrification on drivers</i>
Fariba Vaez	25	<i>NaCl Residue Accumulation on Non-wetting Micropillar Surfaces</i>

EVENING POSTER PRESENTATIONS

Name	Location	Abstract Title
HaoYu Zhang	1	Breaking the Efficiency–Stability Trade-off in Photoelectrochemical Water Splitting through Plasmonic Nanoisland Interface Engineering
Karen Shen	2	Engineering Vascularized Cardiac Tissues Using Bayesian Optimization
Juan Doratt-Mendoza	3	Dilutable Lecithin-Linker Self-Microemulsifying Delivery Systems Enable Tunable Lysozyme Catalytic Efficiency
Cecil Chikezie	4	Characterizing physical layout safety threats and their outcomes in operating rooms (ORs) across four hospitals: Analysis using OR Black Box recordings
Paige McFarlane	5	Implementing Digital Microfluidics in a self-driving lab for sub-microlitre liquid handling
Anthony Di Liddo	6	Thermal Characterization, Modelling, and Design Optimization of Lithium-Ion Pouch-Cell Modules for Fire-Safe Battery Energy Storage Systems
Alexander Vicol	7	“Swiminalization” and (K)No(t)-Swimming: A Humorous Interactive Game for Liminalizing and Decriminalizing Swimming
Siddhartha Challa	8	Hybrid De-icing for Carbon Fiber Composite Airfoils Using Resistive Heating and a Quasicrystalline Coating
Mazen Baioumy	9	A Survey on Retrieval-Augmented Generation: Architectures, Evaluation, Applications, and Open Challenges
Sagnik Som	10	Monitoring and Understanding Rest Activity Rhythms in Long Term Care Residents
Angel Udeagulu	11	Fabrication of Amphiphobic Concrete with Good Oil-resistance and Anti-corrosion Properties for the Marine Environment
Amanda Li Teunissen	12	When Information Moves Faster Than Attention: Modeling Misinformation Susceptibility on Social Media
Santure Chen	13	Developing Automatic Braking Solutions for Wheelchair- and Walker-Related Inpatient Falls
Benjamin Keizer	14	Erasing a Boundary Inside the Evidence: Cross-Study Incomparability of Retinal Nerve Fibre Layer Reflectance Quantities in Glaucoma

EVENING POSTER PRESENTATIONS

Name	Location	Abstract Title
Amine Mazouzi	15	<i>Fabrication of Thin, Transparent PVDF Films with Enhanced Piezoelectric Performance for Flexible Sensor Applications</i>
Alexander Vicol	16	<i>Chirplet Sensing for Triphibious Domain Crossing</i>
Lauren Toy	17	<i>A Closed-Loop Feedback Enhancement in Vertebral Detection for Automated Assessment of Spinal Instability and Fracture Risk</i>
Victor Mitea	18	<i>EEG-Based Theta-Beta Network Biomarker for Early Detection of Alzheimer's Disease</i>
NAdeem Ur Rehman	19	
Victoria Ivey	20	<i>Comparative genomics of iron and sulfur-oxidizing bacteria isolated from pyrrhotite tailings from Sudbury, Ontario, Canada and applications to a nickel bioleaching pilot</i>
Kadence Chow	21	<i>Synthesis and Characterization of Mineralized Collagen Fibrils: Towards Hard Tissue Repair and Regeneration</i>
Maryam Dehghani	22	<i>Advancing machine learning for accessible sign language to spoken language translation.</i>
Chun Yin Au	23	<i>A non-PFAS liquid repellent coating with engineered degradation pathway without harmful byproduct</i>
Hani Abdullah Ahmed Allabani	24	<i>Breaking Barriers with Artificial Intelligence: Democratizing Climate Change Analysis for Sustainable and Resilient Communities</i> ★ <i>(Recommended)AI-Driven Climate Change Analysis: Bridging Science, Communities, and Policy for Sustainable ActionErasing Boundaries Through AI: Transforming Climate Data into Actionable Solutions for Communities</i>
Anant Teotia	25	<i>StreamDyCoke: Causal Compression for Video Models</i>

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Dr. Shengbo Zhang
Abstracts



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ORGANIZING COMMITTEE

Co-Chairs



Zayneb Hussain



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Logistics



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Hasibul Hasan

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CONTACT INFORMATION



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