

FYIC 2025

Presented by OSPE

DELEGATE PACKAGE



"A Present for the Future"

Hosted at
Queen's University
with ESSCO



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LAND ACKNOWLEDGEMENT

Queen's University is situated on traditional Anishinaabe and Haudenosaunee territory. We are grateful to be able to live, learn, and host this conference on these lands. This acknowledgment is a reminder of our collective responsibility to reflect on the histories, contributions, and resilience of Indigenous peoples, and to continue learning how we can actively contribute to reconciliation in meaningful ways.

CONFERENCE OVERVIEW AND INTRODUCTION



FYIC 2025

MEET THE FYIC 2025 CO-CHAIRS

Dear Delegates,

On behalf of our organizing team, we are excited to welcome you to FYIC 2025! This year's conference, themed "A Present for the Future," will bring together over one hundred first-year engineering students from across Ontario for a weekend of growth, connection, and inspiration.

Flaminia Testa & Jaden Belliveau



she/her & he/him

This year's program has been thoughtfully designed to provide an engaging balance of learning, collaboration, and celebration. You can look forward to hearing from industry experts and academic leaders, participating in an exciting case competition, and joining in discussions that highlight creativity, sustainability, and innovation. Alongside this, you will experience the supportive, vibrant spirit of Queen's Engineering—a spirit that we cannot wait to share with you.

FYIC is more than just a conference; it is an opportunity to meet peers from across the province, gain valuable leadership and professional skills, and immerse yourself in a community dedicated to shaping the future of engineering. Knowing firsthand how tough it is to be an engineering student, we aim to help ease that transition into whatever path you choose to take.

We are thrilled to welcome you to Queen's campus and to be part of the beginning of your engineering journey. Together, let's make FYIC 2025 an unforgettable experience that sparks lasting friendships, inspires bold ideas, and equips you with skills that will benefit you throughout your career.

We can't wait to meet you this November!

Warm regards,

Jaden Belliveau and Flaminia Testa

CONFERENCE OVERVIEW

A conference hosted by engineering students, for engineering students.

Presented by the Ontario Society of Professional Engineers (OSPE), the First Year Integration Conference (FYIC) gives first-year engineering students from across Ontario the opportunity to connect with peers from around the province and participate in sessions designed to develop leadership skills, break down first-year barriers, and advance their career exploration. Attended by over 130 first-year and upper-year students from 18 universities across Ontario, this conference serves to inspire students and build connections to last their whole careers.

Hosted with the Engineering Student Societies' Council of Ontario (ESSCO), FYIC 2025 will take place at Queen's University, a world-renowned institution and a leader in engineering research and innovation.



[Click here to check out our website!](#)

FYIC 2025 THEME

This year, our theme is
'A Present for the Future'.

We aim to inspire the next generation of bright minds to design sustainable solutions that will benefit generations to come.

With additional emphasis on personal development, delegates will learn skills that will help them grow into the engineers they want to be.



FYIC 2025

QUEEN'S UNIVERSITY

FYIC 2025 is proudly hosted by Smith Engineering at Queen's University, where we are reimagining engineering education. Located in historic Kingston, Queen's is one of Canada's most distinguished institutions, recognized globally for academic excellence, impactful research, and community engagement.



Smith Engineering is cultivating a new generation of engineers—leaders with deep technical expertise and a strong sense of societal, environmental, and ethical responsibility. Through interdisciplinary collaboration, hands-on learning, and a vibrant research culture, we are preparing problem-solvers for the challenges of tomorrow..



Ranked among the top 10 universities worldwide in the 2022 Times Higher Education Impact Rankings, Queen's is committed to sustainability, equity, and global collaboration. As delegates, you'll experience the energy and excellence that define Queen's and Smith Engineering—a place where tradition meets innovation and the future of engineering is being built today.



THE ORGANIZING COMMITTEE



Flaminia Testa
(she/her)

Co-Chair



Jaden Belliveau
(he/him)

Logistics Director



Bronwyn Faulkner
(she/her)

Logistics Coordinator



Elizabeth Cox
(she/her)

Logistics Coordinator



Sachin Khandelwal
(he/him)

Communications Director



Grace Franklin
(she/her)

Webmaster



Johnnie Tse
(he/him)

Communications Coordinator



Lauren Colaiacovo
(she/her)

Communications Coordinator



Sydney Sharpe
(she/her)

Relationships Director



Abbie Houlding
(she/her)

Relationships Coordinator



Abby Rath
(she/her)

Sponsorships Director



Noah Del Rizzo
(he/him)

Sponsorships Coordinator



Luke Page
(he/him)

Finance Director



Grace Smerchinski
(she/her)

EDII Director



Kalena McCloskey
(she/her)

THE ESSCO TEAM

President



Omar Sayyed
(he/him)

VP Services



Hannah Smyth-Liu
(she/her)

Provincial Councillor



Monica Paul
(she/her)

VP Finance



Akib Shamsuddin
(he/him)

VP Advocacy



Zach Scott
(he/him)

VP Communications



Jacob Bish
(he/him)

Board Chair



Arujan Raveendran
(he/him)

Ontario Ambassador



Rayyan Faisal
(he/him)

SPONSORS



FYIC 2025

A NOTE TO OUR SPONSORS

Dear Sponsors,

On behalf of the First Year Integration Conference 2025 team, I want to sincerely thank you for your generous support. Your sponsorship was essential in making this year's conference possible, and truly made a profound impact on countless first year students.

The First Year Integration Conference is designed to help first-year engineering students adjust to university life by building connections, gaining valuable insights, and developing the skills they need to succeed. Thanks to your contribution, we were able to create a welcoming and engaging environment where delegates could meet other motivated and like minded engineering students, explore opportunities beyond the classroom and truly get a grasp of what engineering in Ontario has to offer.

Your support has not only enriched the experience of this year's participants but will also leave a lasting impact on their future careers. By investing in first-year students, you are helping to inspire the next generation of engineers regardless of discipline, fostering a brighter, more innovative future for Ontario and beyond.

We are deeply grateful for your belief in the potential of these young minds and for your commitment to their growth and success. Together, we are building a stronger, more dynamic engineering community, one that paves the way for a brighter, more prosperous tomorrow.

With sincere gratitude,

Noah Del Rizzo

Sponsorship Director



HOW TO CHANGE
THE WORLD



FYIC 2025

FYIC 2025 PRESENTED BY OSPE

OSPE is the only organization committed to supporting the entire engineering community – from students throughout the entire lifespan of an engineering career.

Their Goal: To create the most robust operating environment for engineers, of all disciplines, and to ensure the long-term health and safety of the profession, our communities, and the economy.



ONTARIO SOCIETY OF
PROFESSIONAL ENGINEERS

EST. 2000 | CELEBRATING 25 YEARS



About Talent4Energy

Attracting and retaining young professionals is vital to Canada's energy future—driving economic growth, enabling major projects, and expanding the global supply of low-carbon energy. Talent4Energy, funded by the Government of Alberta, bridges energy employers with diverse talent, offering industry insights, career pathways, and skill requirements. It also equips employers with practical tools to attract, retain, and advance inclusive talent pipelines across the sector.

CONFERENCE EVENTS



FYIC 2025

CONFERENCE STREAMS

FYIC 2025 workshops will be separated into two streams. This year's conference theme is
"A Present for the Future"

Streams will be categorized as Present and Future, feel free to attend whatever workshop best fits your interest. Workshop availability will be subject to room capacity.



PRESENT

The Present stream will include workshops relating to your experience in university and over the next few years. You can expect workshops that feature:

- University clubs and design teams
- Student government representatives
- Students who have completed a year of internship
- Professors with valuable insight on how to achieve academic success



FUTURE

The Future stream will feature workshops that relate to your next steps after university. You can expect to see:

- Industry professionals
- Professional development workshops
- Companies who work in sustainability and innovation
- Professors who can comment on what the future of engineering may look like

SCHEDULE

Friday		Saturday			Sunday		
Time	All Streams	Present	Future	VPX Stream	Present	Future	VPX Stream
8:00		Walk/Shuttle to Campus			Walk/Shuttle to Campus		
9:00		Breakfast Ellis Hall - 321			Networking Breakfast Biosciences Complex - Atrium		
10:00		SASS: <i>Uncrunching the numbers</i>	Relectric	Sessions	Walk to Jeffrey Hall		
11:00		4 th & 5 th Year Panel	Baker Lab	Roundtable	Case Competition Jeffrey Hall - 155, 156, 225, 234		
12:00		2 nd & 3 rd Year Panel	DDQIC		Plenary Kingston Hall - 204		
13:00		Lunch Ellis Hall - 321			Walk to Biosciences Complex		
14:00	Arrival and Hotel Check In Holiday Inn	Resume & Cover Letter	YCR	Roundtable	Closing Ceremonies Biosciences Complex - Atrium		
15:00		Talent4Energy			Lunch Biosciences Complex - Atrium		
16:00		Walk/Shuttle to Hotel					
17:00	Travel to Campus	Downtime Prepare for banquet Holiday Inn					
18:00	Dinner Ellis Hall - 321	Shuttle From Hotel to Campus					
19:00	Opening Ceremonies Ellis Hall - Auditorium	Dinner/Banquet Wallace Hall - JDUC					
20:00		Shuttle From Campus to Hotel					
21:00	Social Campus & Downtown						
22:00							

This schedule will be subject to change before and throughout the conference. For the most updated version, please refer to [this link](#) instead

* Note: Sessions in all streams on Saturday will take place in Ellis Hall - Rooms 321, 324, and 226, respectively.

ENGINEERING CANADA'S ENERGY FUTURE

With Talent4Energy

The energy sector is evolving rapidly—and it needs your ideas, skills, and passion to build a cleaner, more affordable, and innovative energy ecosystem. This interactive workshop is designed to help engineering students explore exciting career paths in energy and understand what employers are really looking for.

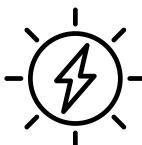
WORKSHOP HIGHLIGHTS



- **Mapping Canada's Energy Ecosystem**
 - Understand the key technologies, and transitions shaping our energy landscape.



- **Energy & Sustainability: Where They Intersect**
 - Explore the challenges and opportunities at the crossroads of energy demand and security, climate goals, and innovation.



- **Future-Fit Skills for Engineers**
 - Discover the attributes and capabilities that will set you apart in tomorrow's energy workforce.

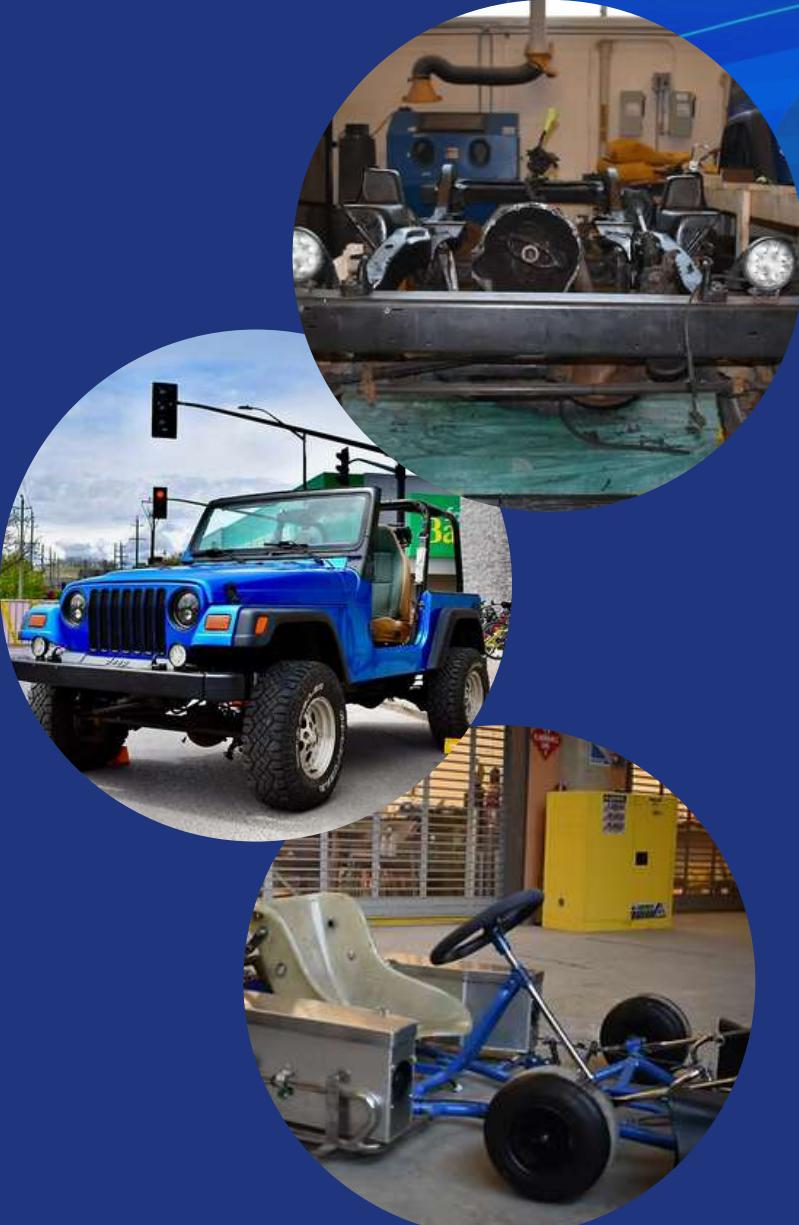


- **What Young Professionals Want**
 - Dive into research insights and share your own perspectives: how do your career aspirations align—or clash—with industry perceptions?

RELECTRIC

Sustainable transportation, EV conversions, and innovative electric transportation solutions

are on the rise; increasing government legislation and sustainable companies push for more green transportation each year. Engineers hold a pivotal role in both creating and advocating for sustainable transportation practices throughout Canada. This interactive workshop is designed to discuss transformative innovations in EV transportation, highlight the roles engineers play in shaping the automotive industry, and intersects the importance of both functional design and sustainability.



Electric

2ND & 3RD YEAR LEADERSHIP PANEL



Matteo Ruzdijic is a second-year Mechatronics and Robotics Engineering student and currently serves as the Assembly Lead on Queen's Relectric. He is actively working on the design and build of a high-torque robotic arm and has completed a wide range of projects during his time at Queen's.

Stella Sherman, a third year engineering physics student, is the Director of Communications for the Engineering Society, overseeing media and marketing services.



Paolo De Lucia is a 2nd year in Electrical Engineering. He was Chief FREC for Engineering Orientation Week 2025 and is currently a Sales Manager for Campus Equipment Outfitters, helping lead large-scale student initiatives on campus.

Stephie Lietch is a 3rd year in Mechanical Engineering with a specialization in Biomechanics. She is the Director of First Year with the Queen's Engineering Society, which means she plans events, writes newsletters, create involvement opportunities and connects first year students with EngSoc!



4TH & 5TH YEAR EXPERIENCE PANEL



Lindsay Stroz is in her final year of Mechanical Engineering and is the Director of Operations for the Queen's Racing Formula SAE Team. She just completed a 12-month internship at General Motors and has experience as a Race Engineer for various race teams across Canada.



Abby King is in her fifth-year of Biomechanical Engineering with a Certificate in Business. She has been a conference Director and Manager at the Queen's Engineering pub and interned with an HVAC mechanical engineering consulting firm in Calgary. She also spent a semester studying abroad in Sweden.



Ilse Kloosterman is in her fifth year of Geological Engineering. She spent her internship year working for Barr Engineering and the Ontario Geological Survey, and is the Rover Captain for Queen's Space Engineering Team.



Simon Yung is a 5th Year Biomechanical Engineering student. Returning from his 16-month internship at TC Energy in Calgary. Simon has experience in a Biomechanical Research Lab, and with some biotech design teams. He's been involved with the CFES, ESSCO and his Engineering Society within the external portfolio.

BUILDING CANADA'S FUTURE: ENERGY OPPORTUNITY AND THE WORLD YOU'LL INHERIT



Join Lynn Exner (Chief Operating Officer, Canada Action) and Mackenzie Pudwell,

a recent business graduate, for an engaging, hands-on workshop that challenges you to think big about the kind of Canada you want to build.

Through interactive discussion and real-world examples, you'll explore:

- **What kind of Canada you want for your future – and how you can help shape it**
- **Why energy and natural resources are central to security, opportunity, and innovation**
- **How global shifts, from tariffs to AI technology, will influence your career**

A highlight of the session is the “Build It or Block It” project challenge, where you’ll examine real examples of Canadian major projects – the kinds of initiatives governments are now prioritizing across the country. As future engineers, the decision to build or block will follow you throughout your career, shaping the communities you live in and the nation you help create.

Plus there’s YCR merch to give away – so come ready to learn and you may get to leave with some head home with some new gear!

This isn’t a panel – it’s an interactive, student-to-student workshop built on collaboration, curiosity, and critical thinking.

You’ll leave inspired to see yourself not as a bystander, but as part of the next generation of builders shaping Canada’s future.

RESUME AND COVER LETTER FUNDAMENTALS



This workshop will help students learn how to effectively present their experiences and skills through tailored resumes and cover letters. Participants will gain practical insights into what employers look for in early-career candidates and how to stand out when applying for varied opportunities.



Ahamed Ashiq Abdul Rahiman

A circular icon with a dark blue border. Inside, the word "Resume" is written in a large, black, sans-serif font. Below it, there are three horizontal lines of text: "Experience" and "Technical" in a smaller, black, sans-serif font, and "Rotated last great d" in a very small, black, sans-serif font at the bottom.

UNCRUNCHING THE NUMBERS: PRACTICAL STRATEGIES FOR STICKY PROBLEMS

Whether the topic is chemical, physical, computational, or purely mathematical, quantitative problem solving is core to any engineering discipline. In this workshop with Queen's Student Academic Success Services, we'll go beyond just knowing how to plug numbers into a formula to explore ways to work through and around challenging problems. We'll try out strategies for summarizing core concepts, figuring out problem solving decisions, and getting unstuck when we inevitably hit a wall.



Queen's
UNIVERSITY

STUDENT AFFAIRS
Student Academic
Success Services

BAKER LAB WORKSHOP

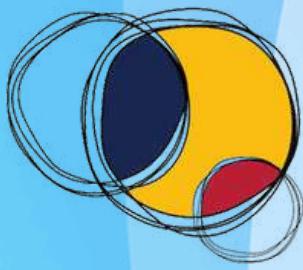
Explore electrochemical process design in this hands-on workshop brought to you by the Baker Lab. Discover the role that electrolytes play in battery systems and learn how researchers at Queen's are leveraging electrochemistry to reimagine the chemical industry.



DJ Campbell



Amanda Pacholczak



DUNIN-DESHPANDE INNOVATION CENTRE at Queen's University

“How might we realize the advantages of plastics while minimizing their environmental impact: Human-centred approaches for engineering sustainable use of plastics for the future”.

Dr. Jim McLellan



Professor of Chemical Engineering and Academic Director, Dunin-Deshpande Innovation Centre at Queen's University

Plastics do many jobs for us, and offer many superior characteristics (e.g., superior strength to weight ratio, barrier impermeability to keep moisture in/out and maintain sterility, process ability, ...) however they increasingly pose environmental challenges, both from GHGs in manufacturing plastics, and in the increasing dispersion of plastic waste (including micro- and nano-plastics) in the global environment and in our bodies. In this workshop, we will use human-centred design tools from Systems Thinking and Design Thinking to see how we might design value chains to mitigate the impact of plastics, leading to more sustainable use in the future.

DDQIC is founded on the principle that everyone has the potential for creative problem-solving. Their mission is to catalyze this potential, developing entrepreneurial mindsets and fostering a culture of innovation across Queen's University, the Kingston community, and globally. We build changemakers by encouraging and supporting their entrepreneurial initiatives through startup incubators, workshops, programs, courses, and pitch competitions.

[Click Here to learn more about the DDQIC!](#)

THE BANQUET



Enjoy a nice dinner with your fellow delegates in a fun night of music, dancing, and keynote speeches!

Buses will shuttle from the hotel to the venue.

Dress Code:
Semi-Formal Attire



CASE COMPETITION



The FYIC 2025 Case Competition will feature an engineering design challenge in which delegates will work in teams to analyze a problem and propose a sustainable solution to industry experts.

The case competition is your chance to work with a team, solve a practical problem, and show off your design, leadership, and problem-solving skills!

Teams and case problem will be revealed at the conference, prizes will be awarded to the members of the winning team.

NETWORKING BREAKFAST

Enjoy your breakfast with some of the speakers and conference partners you met on Saturday in a more casual setting, allowing you to connect with upper years and professionals 1-on-1.



ACCOMODATIONS



FYIC 2025

HOLIDAY INN KINGSTON-WATERFRONT

2 Princess Street Kingston, Ontario K7L 1A2

Front desk : +1 (613) 549-8400

Amenities

- Laundry and daily housekeeping
- On-site parking (\$30/night) and pet-friendly (\$60)
- On-site restaurant, Fitness center (6 am – 12 am), and Pool (8 am – 10 pm)
- Smoke-free hotel

Check in 2:00 PM Friday, November 7

- A member of the FYIC 2025 Executive Team will greet delegates at the hotel for conference check in and will be happy to answer any questions and concerns at the time of check-in.
- Please note one credit card from each room will be required by the front desk to have on file.
- *If arriving before 2:00 PM or after 6:00 PM, please reach out to the FYIC Executive Team (807-630-7454)*

Check out 11:00 AM Sunday, November 9 (latest)

- A locked room will be available on-campus for delegates to store their bags during the Sunday conference events.

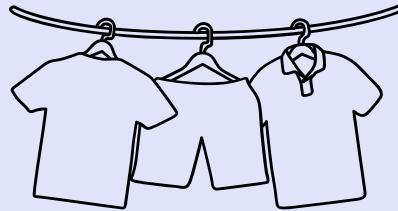
Rooming assignments will be 4 delegates per room, unless otherwise requested. Rooming preferences and accessibility requests in your registration will be accommodated to the fullest extent possible.



PACKING

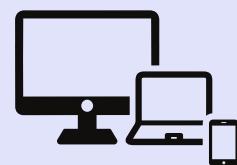
Conference Attire

- **Friday**
 - Travel: comfortable clothing
 - Friday Social: casual
- **Saturday**
 - Sessions: business casual
 - Banquet: semi-formal (e.g. suits, blazers, dresses, skirts, dress pants)
- **Sunday**
 - Case Competition: business casual



Electronics:

- Cell Phone - Be sure to have Discord and email notifications on to receive conference updates throughout the weekend!
- Laptop/Tablet - needed for case competition
- Chargers, etc.



Miscellaneous:

- Government Issued ID (required for hotel check-in)
- Credit Card (required for hotel check-in)
- Medication and Toiletries
- Reusable Water Bottle
- Extra Snacks (optional)
- Patches to trade
- School merch (coveralls, jackets)
- School mascot



And leave some extra space in your bag for FYIC merch!

Ask your Head Delegate if there's anything else you should bring!

TRANSPORTATION



FYIC 2025

TO KINGSTON

When planning transportation to Kingston, some common options include:

- Mega Bus
- FlixBus
- Via Rail

Kingston is located on the Ontario-Quebec route for ViaRail. Cities that have train stations are shown in the figure below.



When you arrive in Kingston, both the Megabus and Via Rail stations have bus routes that can take you to your hotel

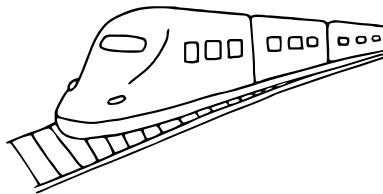
WITHIN KINGSTON

Transportation will be provided throughout the conference via shuttles on Saturday and Sunday

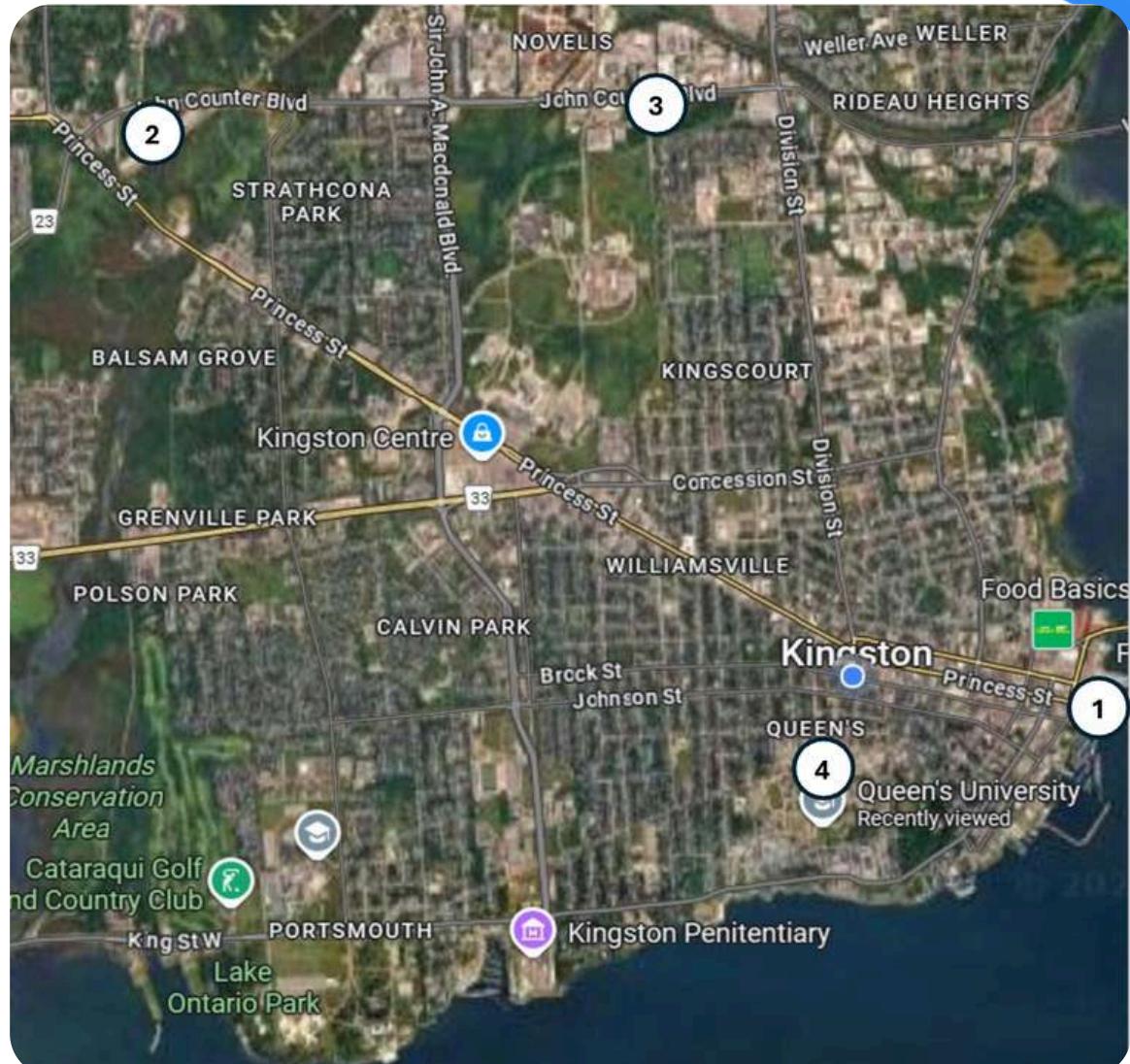
Delegates are responsible for arranging travel to and from the hotel and on Friday evening to campus. Feel free to coordinate travel from train or bus stations with other delegates through the appropriate FYIC Discord channel.

Available methods of transportation in Kingston include city buses and taxi/uber/lyft. For day-of city bus routes and times, we advise downloading Google Maps in advance.

- Amey's Taxi 613-546-1111
- Uber/Lyft app
- City bus fare is \$3.50 for 90 minutes of transit - ask for a transfer slip if taking more than one bus within 90 minutes



WITHIN KINGSTON



Common Locations

1. Holiday Inn
2. Via Rail Station
3. MegaBus Station
4. Queen's University

AT QUEEN'S

Where we will be!

1. Ellis Hall
2. Jeffrey Hall
3. Kingston Hall
4. BioSciences Complex
5. John Deutsch University Centre (JDUC)

Check out our
interactive map!



[Campus Map | Queen's University](#)

Visit our interactive map.

queensu.ca



WASHROOM GUIDE

Gender Inclusive Washrooms



- ***Ellis Hall***
 - 039, 137, 433, 436
- ***Jeffrey Hall***
 - 121, 324, 425, 522
- ***Kingston Hall***
 - None – closest to Jeffrey
- ***BioSci (BioSciences Complex)***
 - 0591, 0594, 1389, 2288, 2289, 3288, 3289, 3490
- ***JDUC (John Deutsch University Centre)***
 - 120, 215, 334B, 428, 430L, A102, A103, A104, A202, A203, A204, A302, A303, A304

BLUE LIGHT EMERGENCY PHONES



When the red button is pushed, the phone is connected directly to the Emergency Report Centre (ERC), where the exact location of the phone is indicated, and two-way audio communication is established. The phones are intended to be used in any situation where you feel threatened or anxious, if you witness an accident or a crime, or if you wish to be escorted.

Make yourself familiar with the location of the blue lights along the routes you typically walk. If you begin to feel uneasy, concerned, or afraid, don't hesitate to use them.

WATER BOTTLE FILL STATIONS

AUTOMATED EXTERNAL DEFIBRILLATORS (AEDS)



PRAYER AND MEDITATION SPACES



FOOD AVAILABLE FOR PURCHASE



\ Indicates must be booked in advance.

INCIDENT RESPONSE COMMITTEE

What is the IRC?

The Incident Response Committee (IRC) is in place to ensure a safe and respectful environment at the FYIC 2025 conference.

If you experience or witness an incident that causes concern and cannot be easily resolved, you are encouraged to submit a confidential Incident Report Form. You may choose whether or not you are comfortable being contacted. All identifying details will remain private. The IRC's role is to listen, respond, and support delegates when issues arise.

IRC Chair Contact

Monica Paul

Provincial Councilor, ESSCO

irc@essco.ca

Submitting an Incident Report

A link to the Incident Report Form will be provided shortly before the conference. We strongly recommend submitting all concerns through the form, rather than using the IRC Chair email.

THANK YOU!

From the FYIC 2025 Organizing Committee, thank you for giving us the opportunity to make an impact on your engineering journey.

We cannot wait to welcome you to Queen's campus this November; we hope this conference will remain a highlight of your academic career and you are able to get the most out of your weekend.

We look forward to meeting you all soon!

Sincerely,

FYIC 2025 Organizing Committee

*Make sure to
follow us for more
updates!*

CONTACTS



Website: <https://fyic2025.com>



Instagram: @fyic2025



fyic@essco.ca



Discord coming soon!

Emergencies

- Life-threatening emergency response: 911
- Campus security emergency response: 613-533-6111
- Campus security non-emergencies: 613-533-6080
- Non-life-threatening mental health distress: Addictions and Mental Health KFL&A (Kingston, Frontenac, Lennox & Addington) Crisis Line - 613-544-4229 (Canadian plans) or 1-866-616-6005
- Blue light system (Page 36)
- IRC (Page 39)



FYIC 2025