

PRE-DELEGATE PACKAGE

ONTARIO ENGINEERING COMPETITION



QUEEN'S UNIVERSITY

JANUARY 26TH-28TH, 2024

WELCOME TO OEC 2024



Through your dedication and creativity, you have earned a spot at the **2024 Ontario Engineering Competition**, proudly hosted by **Queen's University** in Kingston, Ontario. The Organizing Committee is thrilled to invite you to our esteemed city and university for this honorable and significant occasion. As you engage in a weekend filled with rigorous competition and professional networking, our team will be dedicated to making your stay both comfortable and memorable. We **encourage** you to **carefully review** the details in this package, as they are essential for your preparation for OEC 2024 and will contribute to the smooth running of the event.

LAND ACKNOWLEDGEMENT

To begin, let us acknowledge that Queen's is situated on traditional Anishinaabe (Ah- nish-in-ah-bay) and Haudenosaunee (Ho-den-o-show-nee) territory. We are grateful to be able to live, learn and play on these lands.

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ABOUT OEC



The Ontario Engineering Competition (OEC) is a prestigious annual **3-day** event, bringing together over **300** of Ontario's **brightest and most talented** engineering students. In January of 2024, this esteemed gathering, now in its 45th year, will be hosted by Queen's University. The event is continuing the legacy that began in 1980.

At OEC, students from sixteen universities across Ontario, spanning various disciplines and academic years, unite to tackle unique and complex engineering challenges. These competitions, now encompassing **9 different categories**, provide a platform for participants to showcase their ingenuity, technical prowess, and problem-solving abilities. Students present their innovative solutions to a panel of judges, comprising industry professionals who engage deeply with all facets of the competition, including banquets, networking sessions, and the presentations themselves.

To qualify for OEC 2024, each team must have secured a **first-place** position in their home institution's qualifying competitions. The **winners** of OEC 2024 will earn the opportunity to advance to the national **Canadian Engineering Competition** (CEC), hosted by the University of Calgary in March 2024.

NOTE FROM THE CO-CHAIRS



On behalf of the entire executive team, we would like to extend our congratulations for making it to the 45th Annual Ontario Engineering Competition (OEC), hosted at Queen's University from January 26th-28th, 2024.

This annual province-wide event brings together the highest-ranked students from 16 different universities across Ontario. This competition will allow you to take what you learned in the classroom and apply it to industry-relevant competition categories.

Our team has been working diligently towards making OEC 2024 a success, thinking of new and creative ways to improve your competition experience. We are looking forward to meeting you all at OEC 2024! This package provides a general overview of what this year's competition will look like. If you have any questions, please feel free to reach out to either of us.



Hayley Galsworthy



Renner Siebens

ABOUT KINGSTON

Located where the St. Lawrence River meets Lake Ontario, Kingston is a city rich in history and modern charm. Known as the "Limestone City" for its beautiful 19th-century limestone architecture, Kingston is not only a UNESCO World Heritage Destination but also a vibrant hub of culture and education.

Home to Queen's University, this picturesque city offers a unique blend of old-world charm and contemporary conveniences. As you explore the historic downtown, you'll discover a lively arts scene, eclectic dining experiences, and plenty of winter activities. Kingston's welcoming atmosphere and scenic beauty make it the perfect backdrop for innovation and collaboration during the Ontario Engineering Competition.

We hope you enjoy your stay in this gem of Eastern Ontario!



THEME

BRIDGING TRADITION WITH INNOVATION

Innovation meets tradition in the dynamic world of engineering. Every breakthrough is a result of a relentless cycle of designing, testing, and refining. However, our solutions often come with unintended consequences for the environment, society, and our cultural heritage. Facing these challenges, engineers are called to blend cutting-edge ideas with time-honored traditions. This theme encourages engineers to re-examine and reinvent existing designs, considering their broader impacts. The goal is not just to find a single perfect solution, but to continuously improve, balancing innovative technology with sustainable and socially responsible practices. It's about building a future where progress and tradition coexist, driving us towards smarter, more sensitive engineering.

PARTICIPATING SCHOOLS



UNIVERSITY OF
TORONTO



UNIVERSITY OF
WATERLOO



LaurentianUniversity
Université **Laurentienne**

OntarioTech
UNIVERSITY

Western
UNIVERSITY • CANADA



University
of Windsor



uOttawa



Lakehead
UNIVERSITY



CONESTOGA
Connect Life and Learning

McMaster
University



**Toronto
Metropolitan
University**



UNIVERSITY of GUELPH

Carleton
University



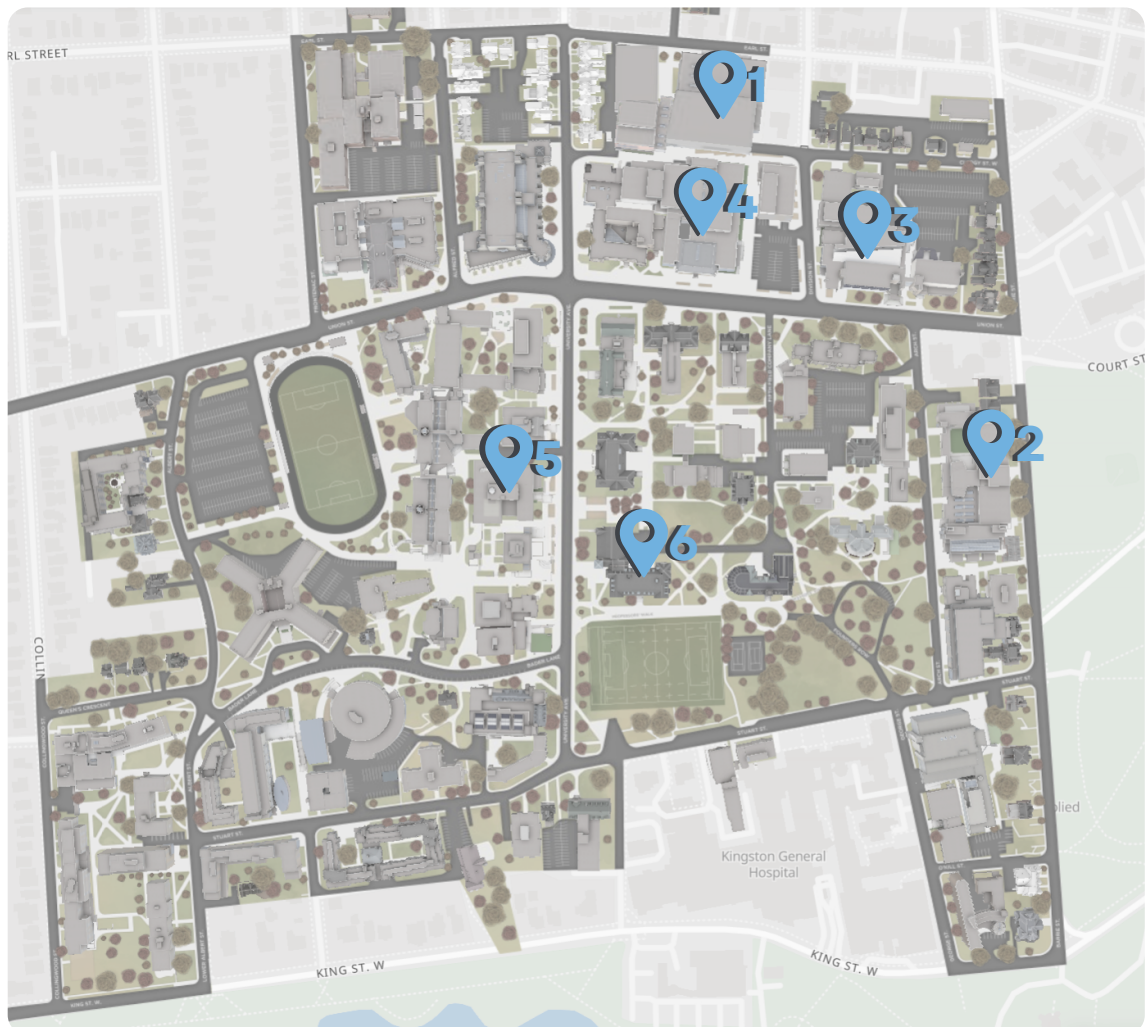
Queen's University

YORK
UNIVERSITY



VENUES & LOCATIONS

- 1 Athletics and Recreation Centre (ARC) - 284 Earl St, Kingston
- 2 Biosciences Complex - 116 Barrie St, Kingston
- 3 Beamish-Munro Hall (BMH) - 45 Union St, Kingston
- 4 Mitchell Hall - 69 Union St, Kinston
- 5 Ellis Hall - 58 University Ave, Kingston
- 6 Kingston Hall - 103 Stuart St, Kingston

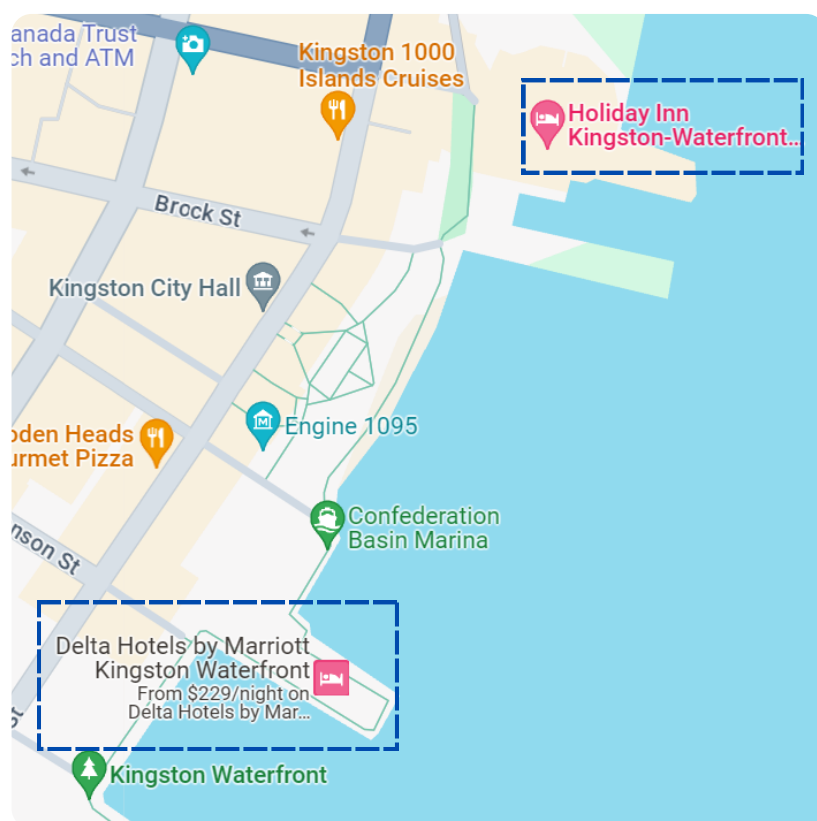


ACCOMODATIONS



Competitors will be staying at the Holiday Inn (2 Princess St) and Delta Hotel (1 Johnson St).

Rooms will be available nights of Friday January 26th and Saturday January 27th.



DINING



Friday, January 26th

Appetizer style dinner

Saturday, January 27th

Breakfast, lunch, dinner, and snacks with coffee and tea throughout the day

Sunday, January 28th

Breakfast and lunch provided

TRANSPORTATION



These services are available during your stay, and may help on arrival:

Amey's Taxi - (613) 546-1111

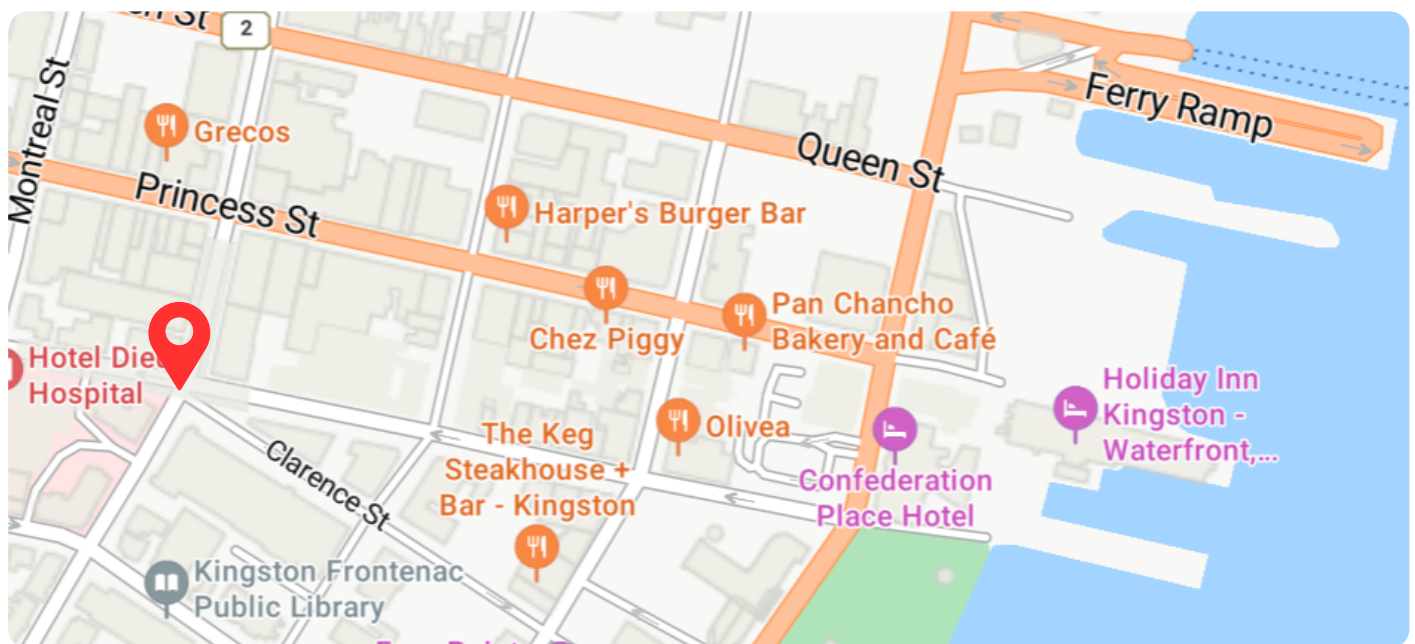
- Wheelchair accessible upon request

Kingston Transit - **schedule** and **fares**

- Transfer point located in downtown Kingston
- Please note that Kingston Transit does **NOT** accept PRESTO cards



Each hotel is a 10-20 minute walk from each of the competition buildings.



SCHEDULE

ALL TIMES ARE TENTATIVE AND SUBJECT TO CHANGE

Friday

Saturday

Sunday

06:30 am
07:00 am
07:30 am
08:00 am
08:30 am
09:00 am
09:30 am
10:00 am
10:30 am
11:00 am
11:30 am
12:00 pm
12:30 pm
01:00 pm
01:30 pm
02:00 pm
02:30 pm
03:00 pm
03:30 pm
04:00 pm
04:30 pm
05:00 pm
05:30 pm
06:00 pm
06:30 pm
07:00 pm
07:30 pm
08:00 pm

Hotel Arrival & Check In

Opening Ceremonies

Dinner + Social Event

Breakfast

Comp. Briefing

Design Phase

Break

Design Phase

Lunch

EngSoc Professional Development Workshop

Transport and Banquet Arrival

Evening Banquet

Social Event

Breakfast

Judging + Career Fair

Baggage Hold Last Call

Lunch + Final Awards Banquet

Baggage Pickup Last Call

Departure

COMPETITIONS



JUNIOR DESIGN

First and second-year students design creative solutions to real-world engineering problems, presenting practical solutions within time and resource constraints.



Greyson Martyn
Junior Design Lead



James Lees
Junior Design Lead



Skylar Knibbs
Debate Lead

DEBATE

Students develop and present arguments for or against an impromptu resolution, engaging in multiple rounds of logic and rhetoric-based debate.



COMMUNICATIONS

Competitors explain the social, economic, technological, and environmental impacts of complex engineering topics in understandable terms.



Julia Dyck
Communications
Lead



Clara Iida
Re-Engineering Lead



Aidan Kelly
Re-Engineering Lead

RE-ENGINEERING

Engineering students redesign existing solutions to improve performance, utilizing diverse skillsets.



SENIOR DESIGN

Participants use multidisciplinary knowledge to design technical solutions to advanced engineering problems, presenting functional solutions under resource constraints.



Carter Moore
Senior Design Lead



Jamie Glerum
Senior Design Lead



Lauren Luyks
Senior Design Lead



Ethan Varkul
Innovation Lead

INNOVATIVE DESIGN

Students develop and present arguments for or against an impromptu resolution, engaging in multiple rounds of logic and rhetoric-based debate.



PROGRAMMING

Teams code software solutions for complex computational challenges, focusing on execution time, correctness, and overall performance.



Mihir Gandhi
Programming Lead



Sere Otubu
Programming Lead



Ahmed Elsaheed
Consulting Lead



Teema Mackay
Consulting Lead

CONSULTING

Competitors develop and present detailed solutions to multidimensional engineering challenges, demonstrating understanding of various impacts.



BIO-ENGINEERING

Students are tasked with using core engineering principles to develop solutions to bio-engineering problems based on provided narratives with complications.



Nimaat Salami
Bio-Engineering Lead



Noel Pettit
Bio-Engineering Lead

ONTARIO ENGINEERING COMPETITION EXECUTIVE TEAM 2024



GRAPHICS



Kayla MacKenzie
VP Graphic Design



Sophie Goodman
VP Graphic Design



Sabrina Button
VP Technical



Keven Li
Webmaster



Mikayla Perrin
VP Competitions



Charlotte Murat
VP Competitions

TECHNICAL

COMPETITIONS

LOGISTICS



Lobsang Wangkhang
VP Logistics



Ali Bekheet
VP Logistics



Kaito Hara-Lee
Logistics
Coordinator



Cora Neave
Logistics
Coordinator



Valeriya Ilinch
Logistics
Coordinator



Bronwyn Faulkner
Logistics
Coordinator

SPONSORSHIP

COMMUNICATIONS



Stephanie Gilmour
VP Sponsorship



Maya Fijalkowski
Sponsorship
Coordinator



Camille Miller
Sponsorship
Coordinator



Oliver Morrow
VP Communications



Cameron Isfeld
Communications
Coordinator



Heer Chhugani
Communications
Coordinator

MARKETING

FINANCE



Maahum Khan
Marketing
Coordinator



Alice Stapleton
Marketing
Coordinator



Jaiden Relouw
Marketing
Coordinator



Andrea Dovale-Puig
Marketing
Coordinator



Emilie Robidas-Stephan
VP Finance

NEXT STEPS

Registration for OEC 2024 is now open!

By scanning the QR code below, you will gain access to the registration form. Please fill it out before the deadline of **December 25th, 2023**.

The official Delegate Package, containing a detailed itinerary and updates on events, socials, and more, will be sent out in early **January**.

Stay tuned for more information, including the competition rulebook, which will **soon** be available under the Competitors tab at <https://oec-cio.ca>.



CONTACT US!

For any further questions, please contact us at the email address

oec.communications@engsoc.queensu.ca

or visit our website

<https://oec-cio.ca>

for competition information. The delegate package will be released closer to the competition date.



@oec.cio

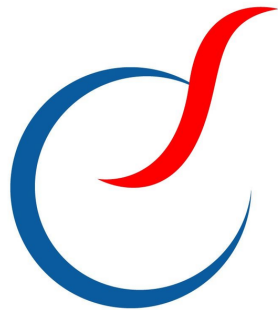


@oec2024

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THANK YOU TO ALL OF OUR SPONSORS!

HATCH



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SOCIETY OF
PROFESSIONAL
ENGINEERS



ONTARIO **POWER**
GENERATION



PEPSICO



SMITH
ENGINEERING
Queen's University



Alberici



KINROSS



THANK YOU!

We are so excited to welcome you to Queen's and host OEC 2024! We hope the competition is an opportunity for you to learn, play, and grow. We are truly grateful for your interest and participation in OEC, and we hope you gain new skills, knowledge, and interests throughout the event that you can apply to your studies, and career.

