

Projected Technical Program

Version Jan 20, 2024

We take this opportunity to thank and welcome everyone to Thriving Through Change 2024 (and Brightening Tomorrow Together 2024). We hope that you will have a wonderful time in the Southernmost city of Canada. (You may also wish to capitalize the opportunity to visit The Henry Ford Museum and Greenfield Village that are 20 km from the University of Windsor).

Sincerely,
TTC2024 Committee (& BTT2024 Committee)

Website

Please refer to <https://ttc2024.ca/> and/or <https://btt2024.ca/> for updates and details. The banquet will be on Thursday June 20. Please advise us of any dietary restriction, special needs, etc. by emailing to TELab@uwindsor.ca

Notes:

This in person only conference is for paid delegates only. If you have not registered, please do so at <https://www.uwindsor.ca/engineering/research/495/turbulence-and-energy-lab-annual-conference> Remember to save the receipt as you checkout.

TTC2024 is running parallel to BTT2024. Only one registration is needed to attend both conferences. If the number of presentations is small, TTC2024 presentations will be scheduled in series with BTT2024 presentations. If required, the presentations will run in parallel to fit all presentations within the two days. Selected papers for TTC2024 may be published in our of the active book volumes that Turbulence & Energy Laboratory is working on; see <http://www.turbulenceandenergylab.org/books.html> on previously completed books.

Please limit your presentation to 15 minutes, leaving 3 minutes for discussion, and 2 minutes for changeover. In case of a no-show, the next presentation(s) will be advanced accordingly.

Notation

- * presenting author
- † corresponding author

Paper/presentation Status

- ✂ presentation / abstract only
- 📄 presentation + full-length paper
- 🕒 reviews conveyed, waiting for revision
- 😊 paper accepted to be published via University of Windsor Leddy Library
- ✓ paper accepted for the Springer Nature Proceeding
- ➔ pending visa approval and/or registration confirmation; please update us

Thursday, June 20, 2024	
08:15–08:45	Centre of Engineering Innovation (CEI) Atrium Breakfast Registration Package Pickup
08:45–09:00	Welcome and Opening Remarks (Room 1101 CEI) Rupp Carriveau VP Research – Shanthi Johnson, Dean of Engineering – Bill Van Heyst
09:00–09:40	Plenary Lecture #1 (Room 1101 CEI) Learn to Smile as the End of the World is Not Imminent, Hopefully – Graham T. Reader
	Responsible Engineering, Room 1101. Co-Chairs: Rupp Carriveau & Gary Rankin
09:40–10:00	A review of green engineering in Canada Emma Smith*, Paul G. O'Brien† Department of Mechanical Engineering, York University, Canada
10:00–10:20	
10:20–10:40	Coffee Break
	Thriving Horticulture, Room 1101. Co-Chairs: Fadi Al-Daoud & Vassel-Be-Hagh
10:40–11:00	Comparative assessment of winter night sky brightness in southwestern Ontario Thomas Graham, William Lubitz*†, School of Environmental Sciences, School of Engineering, University of Guelph, Canada
11:00–11:20	
11:20–11:40	
11:40–12:00	
12:00–13:00	Lunch & Poster Presentation

Thursday, June 20, 2024	
	Thriving Through Change, Room 1101. Co-Chairs: Paul O'Brien & Jacqueline Stagner
13:00–13:20	
13:20–13:40	
13:40–14:00	
14:00–14:20	
14:20–14:40	
14:40–15:00	<u>Coffee Break</u>
	Engineering Systems & Analyses, Room 1101. Co-Chairs: David Lubitz & Quade Digweed
15:00–15:20	
15:20–15:40	
15:40–16:00	
16:00–16:20	
16:20–16:40	
16:45	Bus leaves CEI, University of Windsor (@ 4:50 pm) for Banquet
18:00–20:00	Banquet at Wedding in the Woods
20:00	Bus returns from banquet (~8:00 pm) to CEI, & then, hotels, as needed

Friday, June 21, 2024	
08:15–08:45	Centre of Engineering Innovation (CEI) Atrium Breakfast Registration Package Pickup
08:45–09:00	Gift Draw (Room 1101 CEI) Rupp Carriveau
09:00–09:40	Plenary Lecture #2 (Room 1101 CEI) Lessons from Greenland Sharks– Nigel Hussey
	Clean Water & Air, Room 1101. Co-Chairs: Rupp Carriveau & Niharendu Biswas
09:40–10:00	
10:00–10:20	
10:20–10:40	Coffee Break
	Green Energy, Room 1101. Co-Chairs: Paul Henshaw & Narayan Kar
10:20–10:40	
10:40–11:00	
11:00–11:20	
11:20–11:40	
11:40–12:00	
12:00–13:00	Lunch & Posters

Friday, June 21, 2024	
	Wind & Solar, Room 1101. Co-Chairs: Grace Oyeyi &
13:00–13:40	Plenary Lecture #3 (Room 1101 CEI) Tomorrow Health – TBC
13:40–14:00	
14:00–14:20	
14:20–14:40	
14:40–15:00	<u>Coffee Break</u>
	Renewable Energy & Society, Room 1101. Co-Chairs: Paul G. O'Brien & Rajeev Ruparathna
15:00–15:20	
15:20–15:40	
15:40–16:00	
16:00–16:20	
16:20–16:40	Awards Committee Meet Committee: Paul O'Brien (Chair), David Lubitz, Grace Oyeyi, Jacqueline Stagner, Ahmad Vassel-Be-Hagh
16:40–17:00	<u>Awards' Presentation in Atrium</u>
	Thank you for your contribution. We look forward to seeing you next year.

‡The awards are:

- BTT2024 Best Student Presenter
- BTT2024 Exceptional Student Presenter
- BTT2024 Outstanding Student Presenter
- TTC2024 Best Thriving Through Change Poster

Encyclopedic Engineering without Borders 2025, June 19-20, 2025. Information will become available at www.eewb2025.ca (TBC).

Nurturing Humanity Sustainably 2025, June 19-20, 2025. Information will become available at www.nhs2025.ca (TBC).

Forging Forward Tenably and Pragmatically 2026