

# Projected Technical Program

Version July 3, 2023

We take this opportunity to thank and welcome everyone to Brightening Tomorrow Together 2024 and Thriving Through Change 2024. We hope that you will have a wonderful time in the Southernmost city of Canada.

Sincerely,  
BTT2024 Committee  
TTC2024 Committee

## Website

Please refer to <https://btt2024.ca/> and/or <https://ttc2024.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](mailto:TELab@uwindsor.ca)

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## 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 BTT2024 may be published via University of Windsor Leddy Library; see <https://scholar.uwindsor.ca/wtel/2022/>. The authors will retain 100% of the copyright, allowing them to further their manuscripts and disseminate them as standard journal papers subsequently.

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.

Selected papers for BTT2024 will be considered for a Refereed Conference Proceeding, a Reviewed Volume with Springer Nature (TBC).

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## 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

| <b>Thursday, June 20, 2024</b> |  |
|--------------------------------|--|
| 08:15–08:45                    | <b>Centre of Engineering Innovation (CEI) Atrium</b><br><a href="#">Breakfast</a><br>Registration Package Pickup   |
| 08:45–09:00                    | <b>Welcome and Opening Remarks (Room 1101 CEI)</b><br>Rupp Carriveau<br>VP Research – Shanthi Johnson, Dean of Engineering – Bill Van Heyst  |
| 09:00–09:40                    | <b>Plenary Lecture #1 (Room 1101 CEI)</b><br>Learn to Smile as the End of the World is Not Imminent, Hopefully – Graham T. Reader  |
|                                | <b>Carbon &amp; Transportation, Room 1101. Co-Chairs: Rupp Carriveau &amp; Gary Rankin</b>   |
| 09:40–10:00                    | A review of the status of carbon capture and storage in Canada<br>Niknaz Atash Dehghan*, Tanay Sahu, Kulbir Kaur Ghuman, Thomas Cooper, Paul G. O'Brien†<br>Department of Mechanical Engineering, York University, Canada<br>Institut National de la Recherche, Centre Énergie, Quebec, Canada |
| 10:00–10:20                    |  |
| 10:20–10:40                    | <a href="#">Coffee Break</a>   |
|                                | <b>Light and Heat, Room 1101. Co-Chairs: Fadi Al-Daoud &amp; Vassel-Be-Hagh</b>  |
| 10:40–11:00                    | Comparative assessment of winter night sky brightness in southwestern Ontario<br>Heather Henry, Thomas Graham, Syeda Tasnim, Alex Nauta, William Lubitz*†,<br>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                    | <a href="#">Lunch &amp; Poster Presentation</a>  |

| <b>Thursday, June 20, 2024</b> |   |
|--------------------------------|---|
|                                | <b>Thriving Through Change, Room 1101. Co-Chairs: Paul O'Brien &amp; Jacqueline Stagner</b>           |
| 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>   |
|                                | <b>Engineering Systems &amp; Analyses, Room 1101.<br/>Co-Chairs: David Lubitz &amp; Quade Digweed</b> |
| 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 (@ 4:45 pm) for Banquet   |
| 18:00–20:00                    | Banquet at View Pointe Winery   |
| 20:00                          | Bus returns from banquet (~8:00 pm) to CEI, & then, hotels, as needed                                 |

| <b>Friday, June 21, 2024</b> |  |
|------------------------------|--|
| 08:15–08:45                  | <b>Centre of Engineering Innovation (CEI) Atrium</b><br><a href="#">Breakfast</a><br>Registration Package Pickup |
| 08:45–09:00                  | <b>Gift Draw (Room 1101 CEI)</b><br>Rupp Carriveau   |
| 09:00–09:40                  | <b>Plenary Lecture #2 (Room 1101 CEI)</b><br>Lessons from Greenland Sharks– Nigel Hussey                         |
|                              | <b>Land, Sea, and Air, Room 1101. Co-Chairs: Rupp Carriveau &amp; Niharendu Biswas</b>                           |
| 09:40–10:00                  |  |
| 10:00–10:20                  |  |
| 10:20–10:40                  | <a href="#">Coffee Break</a>   |
|                              | <b>Greenhouse and Energy, Room 1101. Co-Chairs: Paul Henshaw &amp; Narayan Kar</b>                               |
| 10:20–10:40                  |  |
| 10:40–11:00                  |  |
| 11:00–11:20                  |  |
| 11:20–11:40                  |  |
| 11:40–12:00                  |  |
| 12:00–13:00                  | <a href="#">Lunch &amp; Posters</a>  |

| <b>Friday, June 21, 2024</b> |  |
|------------------------------|--|
|                              | <b>Wind, Soil, Solar, &amp; Wave, Room 1101. Co-Chairs: Lindsay Miller-Branovacki &amp;</b>  |
| 13:00–13:40                  | <b>Plenary Lecture #3 (Room 1101 CEI)</b><br>Tomorrow Health – TBC   |
| 13:40–14:00                  |  |
| 14:00–14:20                  |  |
| 14:20–14:40                  |  |
| 14:40–15:00                  | <u><a href="#">Coffee Break</a></u>  |
|                              | <b>Renewable Energy &amp; Society, Room 1101. Co-Chairs: Paul G. O'Brien &amp; Rajeev Ruparathna</b>   |
| 15:00–15:20                  |  |
| 15:20–15:40                  |  |
| 15:40–16:00                  |  |
| 16:00–16:20                  |  |
| 16:20–16:40                  | <b>Awards Committee Meet</b><br><b>Committee: Paul O'Brien (Chair), David Lubitz, Lindsay Miller-Branovacki, Jacqueline Stagner, Ahmad Vasel-Be-Hagh</b> |
| 16:40–17:00                  | <u><a href="#">Awards' Presentation in Atrium</a></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](http://www.eewb2025.ca) (TBC).

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