

Student Design Competition



2021 WEAO Student Design Competition Winners - University of Windsor

About the Student Design Competition

The Student Design Competition (SDC) is an annual challenge that provides an opportunity for student teams to apply their knowledge to a current real-world problem.

Since 2014, the Water Environment Association of Ontario (WEAO) has collaborated with the Ontario Ministry of the Environment, Conservation and Parks to use the SDC to promote emerging topics within the water industry such as resource recovery and sustainable infrastructure. The competition is supported by a municipality that provides a current and relevant problem.

The winner of the WEAO SDC will receive financial support from WEAO to compete at the Water Environment Federation's (WEF) annual SDC at the WEF Technical Exhibition and Conference (WEFTEC) in New Orleans, Louisiana in October 2022. With over 25,000 attendees, this is the world's largest water quality event.

Student teams representing WEAO have consistently had strong showings at the international WEFTEC competition. In 2020, a team from the University of Guelph placed first at the WEAO SDC and continued on to place first at the WEFTEC'20 SDC with their Innovative Stormwater Management design in the City of Richmond Hill.

The 2022 Project Scope

The topic of the 2021-22 WEAO SDC is hosted in partnership with the City of Barrie, with a focus on innovative stormwater management. Innovative stormwater management tools and techniques take a holistic approach in siting, designing, and implementing best management practices to reduce the local and downstream negative impacts to water quality and quantity.

The SDC is open to all full-time university and college students in Ontario. Professors and students who are interested in learning more about the SDC should contact yp@weaocommittee.org with questions or to be put on our mailing list.

Registration for the 2021-22 SDC closes on October 1st, 2021 at 11:59 p.m.

To view the Scope of the 2022 project, click [here](#)

To view the Competition Guidelines, click [here](#)

To complete the fillable PDF entry form, click [here](#)

Previous SDC Projects:

- [2020 Innovative Stormwater Management - City of Richmond Hill](#)
- [2019 Optimization of Energy and Nutrient Recovery from Wastewater - Chatham-Kent PUC](#)
- [2018 Innovative, Cost-Effective Solutions to Reducing Phosphorous Loadings - City of London](#)
- [2017 Innovative Stormwater Management - City of Toronto](#)
- [2016 Resource Recovery at the York-Durham Duffin Creek Water Pollution Control Plant - The Regional Municipality of Durham](#)
- [2015 Nutrient Recovery and Process Improvements at the Ashbridges Bay Wastewater Treatment Plant - City of Toronto](#)
- [2014 Upgrade of the Colony Trail Storm Water Management Pond and Expansion of Storm Water Management in the East Holland Subwatershed - Lake Simcoe Conservation Authority](#)
- [2013 Expansion of Newcastle Water Pollution Control Plant - The Regional Municipality of Durham](#)
- [2012 Expansion of Port Dover Water Pollution Control Plant - Norfolk County](#)
- [2011 Expansion of the Acton Wastewater Treatment Plant - The Regional Municipality of Halton](#)

Thank you to all of our partners who have offered their time and resources to host the WEAO Student Design Competition:



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