

Student Design Competition



2023 WEAO Student Design Competition

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 2024. 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 2024 Project Scope

The topic of the 2023-24 WEAO SDC is hosted in partnership with the Town of Milton, to retrofit Highpoint Pond to meet current industry standards and best practices for stormwater management. Phase I proposals will provide recommendations to convert Highpoint Pond into an offline facility providing quality and quantity control designed to current standards, complete



with a low flow bypass to allow for fish passage, as well as consideration for thermal mitigation. Phase II proposals will provide recommendations on incorporation of Low Impact Development (LID) measures in the Highpoint Pond drainage area and sediment management/disposal for excavated material from Highpoint Pond.

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 can contact yp@weaocommittee.org for more information and to be added to our mailing list.

Registration for the **2023/24 SDC closes on October 1, 2023 at 11:59 p.m.**

2024 Project Scope:

https://s3.amazonaws.com/xcdshared/weao/WEAO_SDC_Scope_2024_-_Milton_-_FINAL.pdf

Guidelines:

https://s3.amazonaws.com/xcdshared/weao/WEAO_SDC_2024_Guidelines_-_Final.pdf

Application Form:

https://s3.amazonaws.com/xcdshared/weao/WEAO_SDC_2024_Application_Form.pdf

Previous SDC Projects:

[2022](#)

[2020](#)

[2019](#)

[2018](#)

[2017](#)

[2016](#)

[2015](#)

[2014](#)

[2013](#)

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