



Waterloo-Wellington Science and Engineering Fair 2022 Annual Report



The 2022 edition of the Waterloo-Wellington Science and Engineering Fair was a virtual event, as was the Canada-Wide Science Fair. These events didn't have the dazzle of astonishing science fair displays, but the accomplishments of the young researchers still shone brightly. Six of our entries in the CWSF received awards: 2 Bronze

Medals, 1 Silver Medal and 3 Gold Medals. Five spectacular projects received Platinum Awards for either Discovery or Innovation. Congratulations to Jasmine Schneider for winning one of them, an outstanding achievement!

Other events that your community's youth participated in were the European Union Contest for Young Scientists (virtual) and the Regeneron International Science and Engineering Fair (hybrid).

Hardit Singh and one other youth represented Canada at the EUCYS and won Second Prize! Hardit and Cindy Cheng were two of the 10-member Team Canada for the 2022 Regeneron ISEF. The team earned 9 awards. Hardit received two of them, a Third Award in Biomedical Engineering and an additional special award.

Plans and expectations for 2023 are to return to a more usual format, both locally (April 11 at Bingemans) and at the Canada-Wide Science Fair in Edmonton. Thank goodness.

**Visit us on the web at
wwsef.ca**



Youth Science Canada
Sciences jeunesse Canada

WWSEF is affiliated with Youth Science Canada

Canada-Wide Science Fair (Virtual)



Nuha Akhand, Senior & Marilyn Turetska, Senior.
Inhibition of Cancer Cells Through Algae Derived EPA

EXCELLENCE AWARD - BRONZE MEDAL and Certificate
University of Ottawa entrance scholarship of \$1000
Western University entrance scholarship of \$1000

Abigail Chan, Junior

Regulating Digital Eye Strain Using Similarity Index

EXCELLENCE AWARD - GOLD MEDAL and Certificate
Western University entrance scholarship of \$4000



Ashish Chettimada. Junior

Bacteriophages: Curing One Infection With Another

EXCELLENCE AWARD - SILVER MEDAL and Certificate
Western University entrance scholarship of \$2000

Hudson Jantzi, Intermediate

Using Robotics to Naturally Trim the Dandelion Cycle - A Novel Approach to Eliminating Chemicals on Lawns

EXCELLENCE AWARD - GOLD MEDAL and Certificate
Western University entrance scholarship of \$4000



Jasmine Schneider, Intermediate

**Phosphate Removal from Groundwater Using Mussel Shell Biochar
CHALLENGE AWARD -Environmental & Climate Change**

**EXCELLENCE AWARD - GOLD MEDAL and Certificate
Western University entrance scholarship of \$4000**

**GRAND AWARD, PLATINUM DISCOVERY
CRYSTAL AWARD and Certificate**



Derek Sheen, Intermediate

A Novel Approach to Detecting Melanoma Using Deep Learning

**SPECIAL AWARD - Actuarial Foundation of Canada - Intermediate
\$750 cash and Certificate**

**EXCELLENCE AWARD - BRONZE MEDAL and Certificate
Western University entrance scholarship of \$1000**

International Fairs



Cindy Cheng

**A Novel Bioinspired Skin Substitute for Accelerated Wound
Healing**

Team Canada

Regeneron International Science & Engineering Fair

Hardit Singh

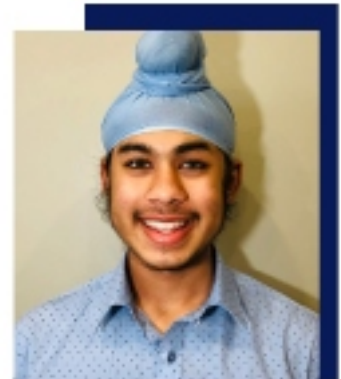
**Specular: A Comprehensive Teleophthamology Platform for
People-Centred Eyecare**

2021 European Union Contest for Young Scientists: 2nd prize (€5000)

Team Canada

Regeneron International Science & Engineering Fair

3rd Award Biomedical Engineering (\$1000); Special Award

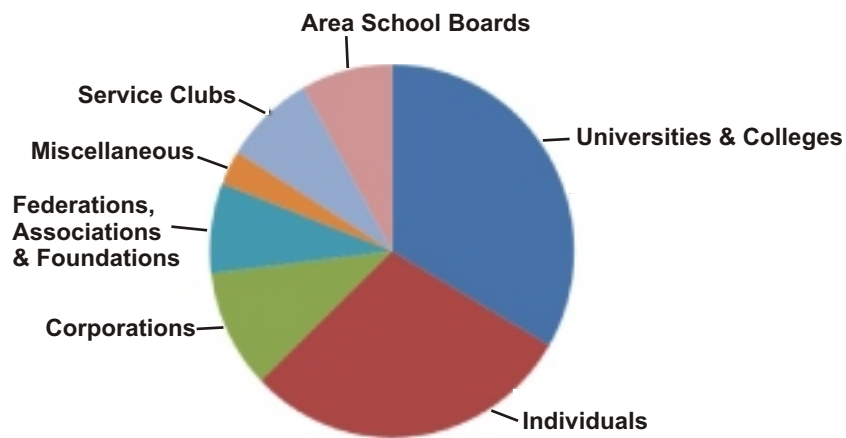


2022

Financials

These graphs reflect the distribution of expenses for our virtual fairs. In-person fairs will take us back to our former expense profile, which will show an increase, especially in science fair day costs.

Revenue



Expenses

