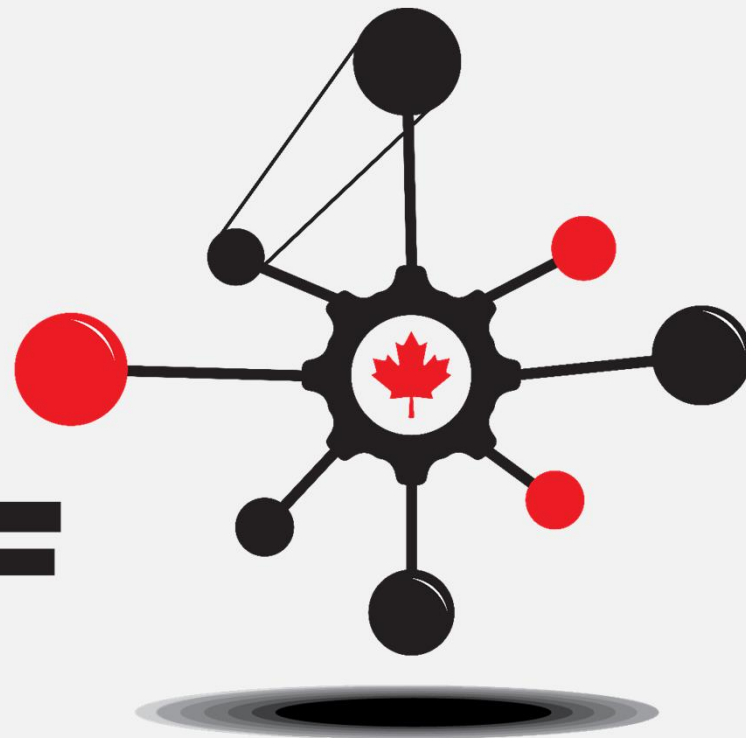


BASCF



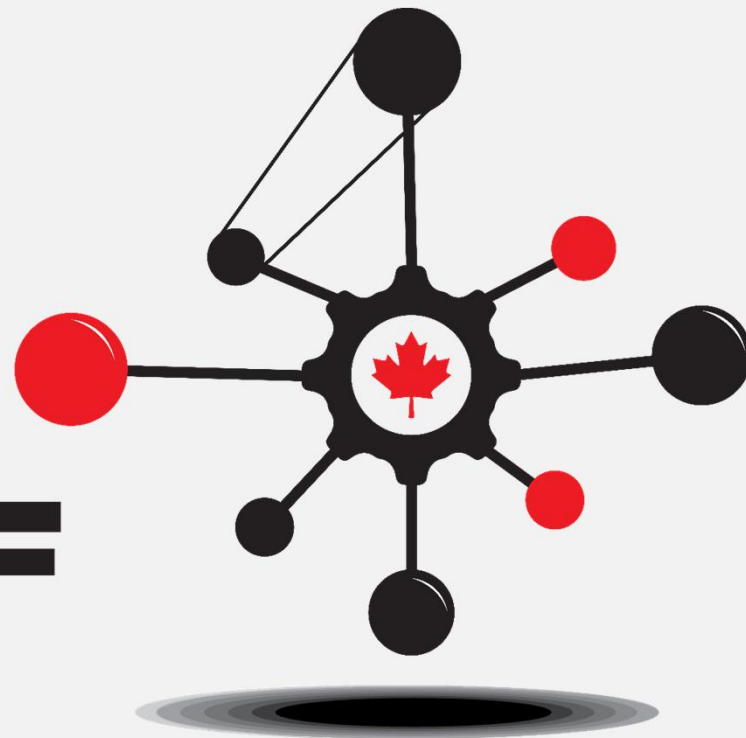
Welcome to the
2023

Bay Area Science & Engineering Fair
sponsored by

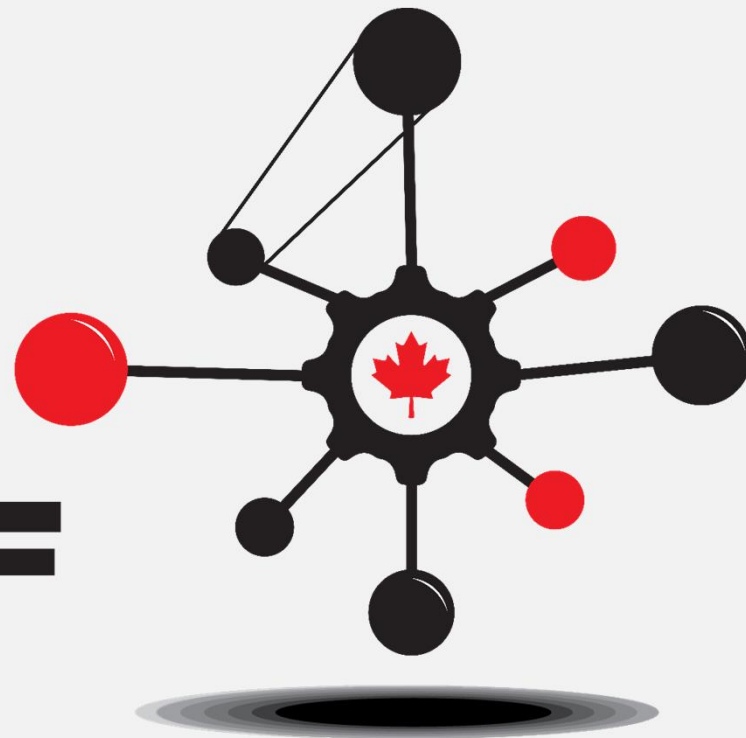


**Primary Fluid
Systems Inc.**

BASCF



BASCF



Platform
Guests



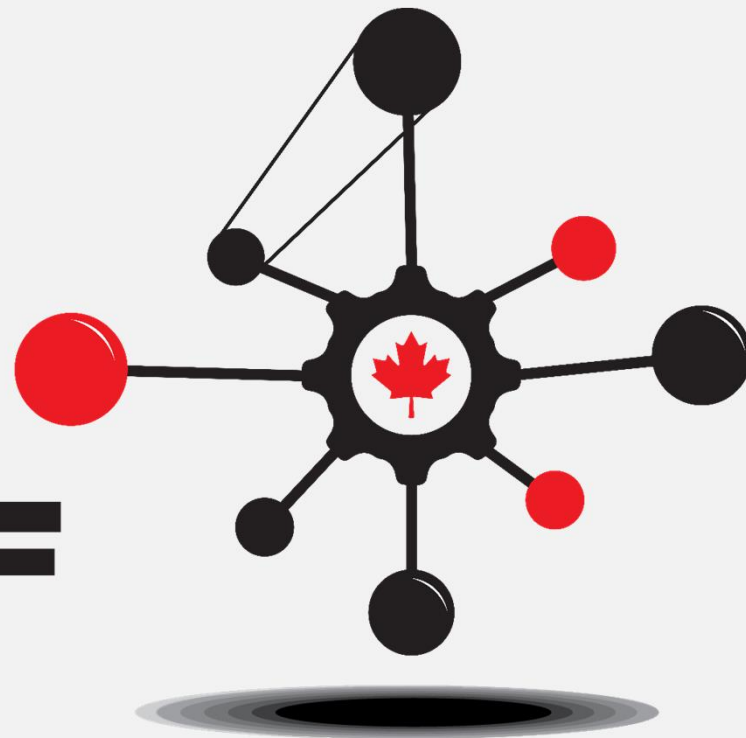


FUTURE READY



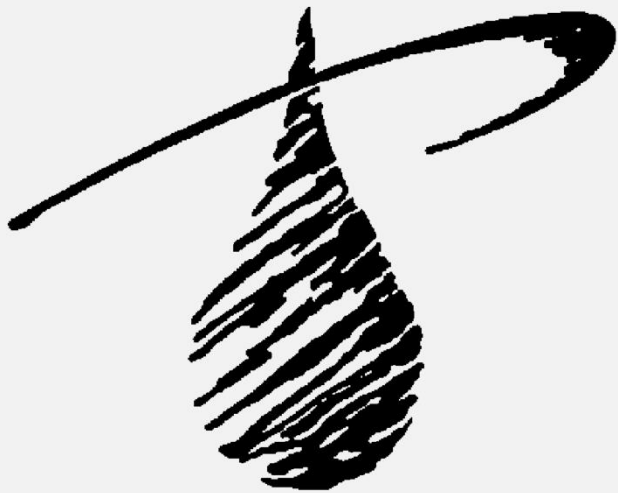
Our Host

BASCF



Our
Sponsors





Primary Fluid Systems Inc.

Title
Sponsor



ArcelorMittal

Diamond
Sponsors





MOHAWK

FUTURE READY



Diamond
Sponsors



THE HAMILTON SPECTATOR

Platinum
Level
Sponsors





Gold Level
Sponsors



Hamilton-Wentworth Catholic Schools
150 years of 'Believing, Achieving, Serving'



Hillfield Strathallan College
Learn with Joy. Live with Purpose.

Silver Level
Sponsors





Burlington *hydro* inc.

ONTARIO **POWER**
GENERATION



TAYLOR LEIBOW LLP
ACCOUNTANTS AND ADVISORS



Silver Level
Sponsors



Society of Tribologists
and Lubrication Engineers



LANHACK
CONSULTANTS INC.
CONSULTING ENGINEERS

hamilton

chamber of commerce

your voice in business

CAREGO >

the innovators



Bronze Level
Sponsors



WALTERFEDY



Bronze Level
Sponsors



Bronze Level
Sponsors





Encouraging growth and development since 1946.



Friends of
BASEF



Banting and Best (\$1000+)

Mike McNally

Bondar (\$500+)

Marvin Cohen

Steve & Cathy Hayman

Susan & Peter Olynyk

Janet McNaught

Polanyi (\$200+)

Helen Barton

Dan & Debbie Bowman

Dr. Nicola Simmons

Steven Brent & Family

Dana Bee

Paul & Pam Lakin

John & Eleanor O'Flynn

McGill (\$50+)

Jim Casey

Linda Millar

In addition, BASEF has received donations from a number of individuals who wish to remain anonymous

Benefactors





Committee



Volunteers



Safety
Inspectors



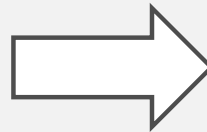
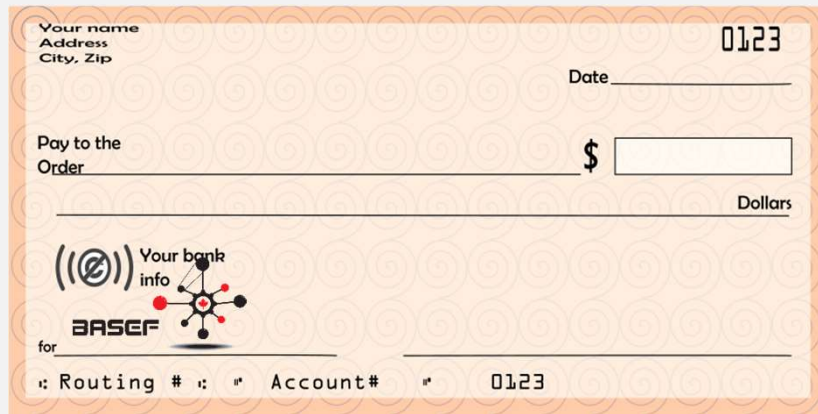
Registration

Our
Volunteers



Are you ready?



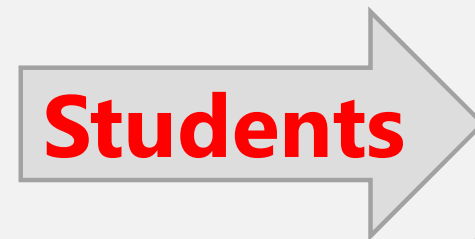
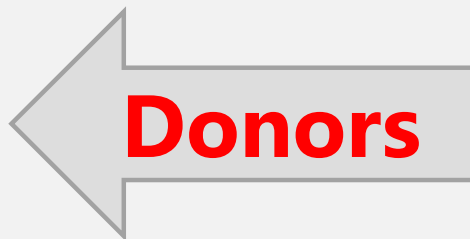


Deposit those cheques!

Winning Students will receive one cheque only

Instructions

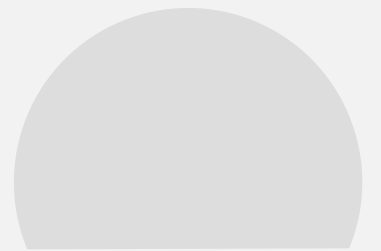
1. Donors/presenters make their way to the stage from the bottom left.
2. Students: When we call your name, proceed to the bottom right of the stage.



Special Awards



ArcelorMittal Dofasco Awards



ArcelorMittal Dofasco Central Trades & Services Department Award

Isaiah Sienna

B03

Taking Flight: The Evolutionary Origin of Feathered
Flight

St. Augustine
Dundas



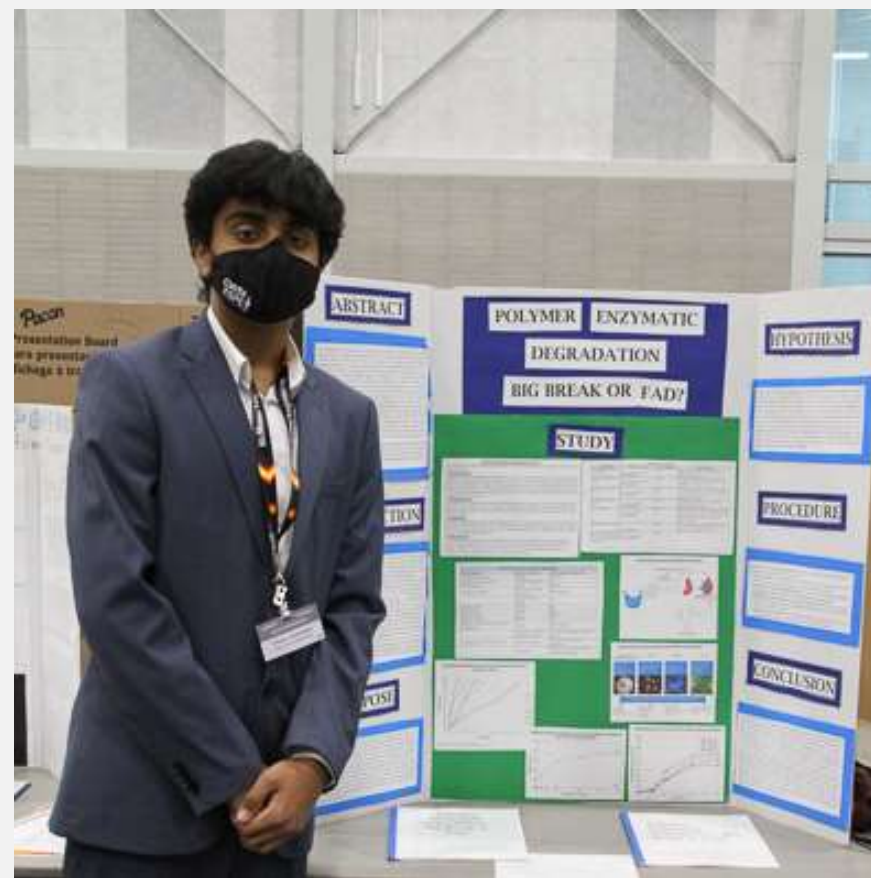
ArcelorMittal Dofasco Chemical Testing Award

Vihaan Vashishtha

F06

Polymer Enzymatic Degradation - Big Break or Fad?

White Oaks Secondary School
Oakville



ArcelorMittal Dofasco Commercial Department Award

Ali Kefel

J11

An Analysis of Path Planning Algorithms like D* for
more Efficient and Optimal Missions

Westdale Secondary School
Hamilton



ArcelorMittal Dofasco Engineering Award

Jason Bae

P10

ADHD Treatment: Finding the Effectiveness of Fine Motor Learning on Attention Levels

King's Christian Collegiate
Oakville



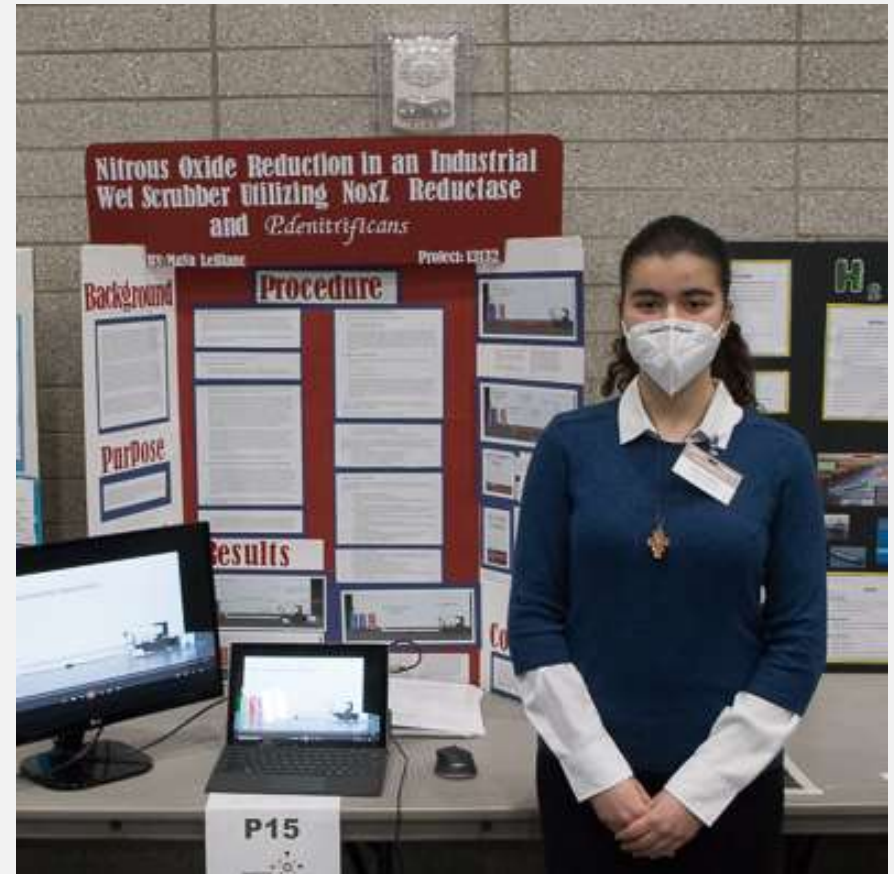
ArcelorMittal Dofasco Environment Award

Maya LeBlanc

P15

Nitrous Oxide Reduction in an Industrial Wet Scrubber Utilizing NosZ Reductase and *P. denitrificans*

Abbey Park High School
Oakville



ArcelorMittal Global R&D Hamilton Award for Outstanding Research

Karthik Chawla

P14

Imagine - Generating Green hydrogen for the world

W. H. Morden Public School
Oakville



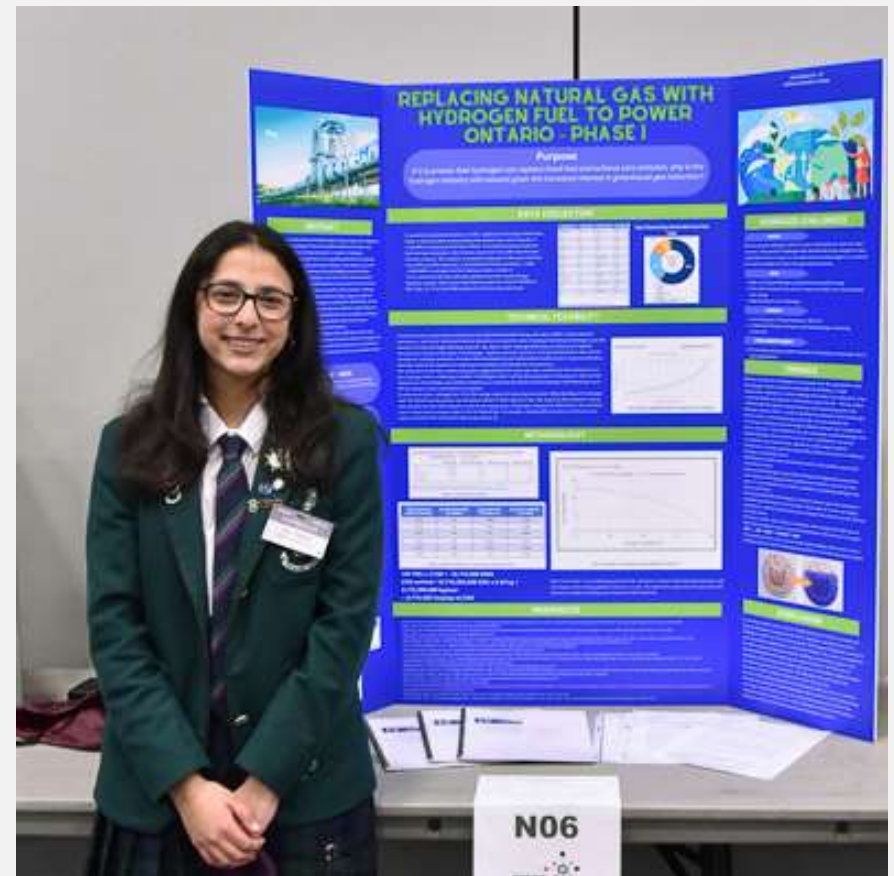
ArcelorMittal Global R&D Hamilton Award for Technology Application

Alia Wahban

N06

Replacing Natural Gas with hydrogen Fuel to Power
Ontario (Phase 1)

Hillfield Strathallan College
Hamilton



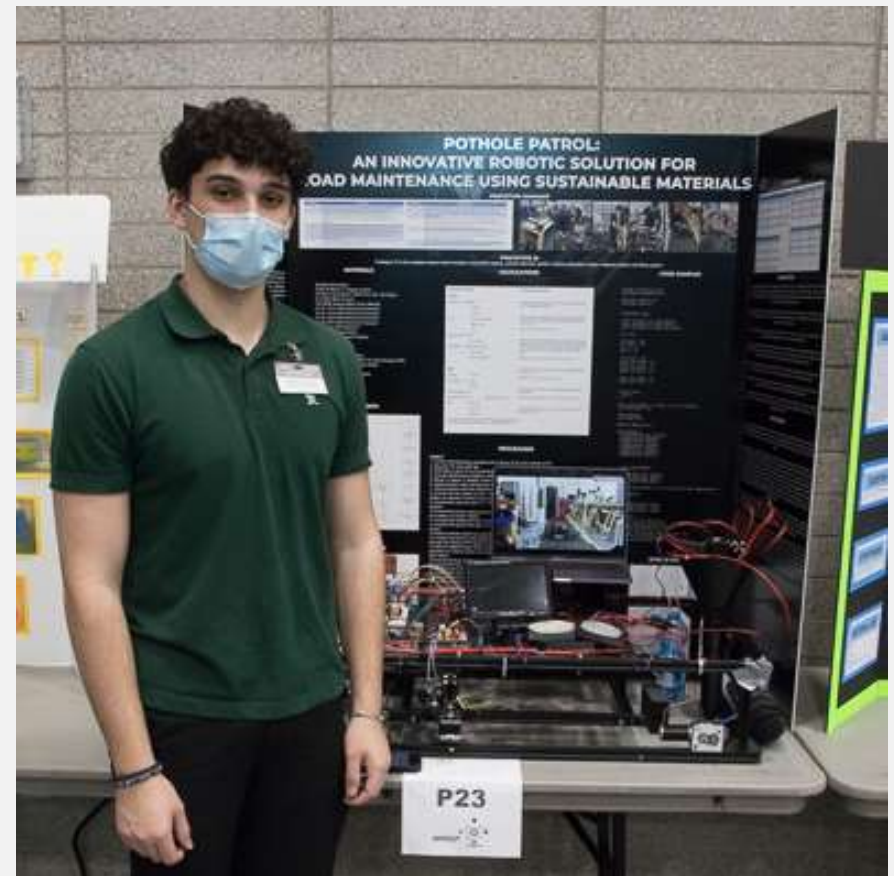
ArcelorMittal Dofasco Hot Mill Award

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



ArcelorMittal Dofasco Human
Resources Training & Development
Award

Ethan Horn

K13
Braille In A Box Puzzle

Rolling Meadows Public School
Burlington



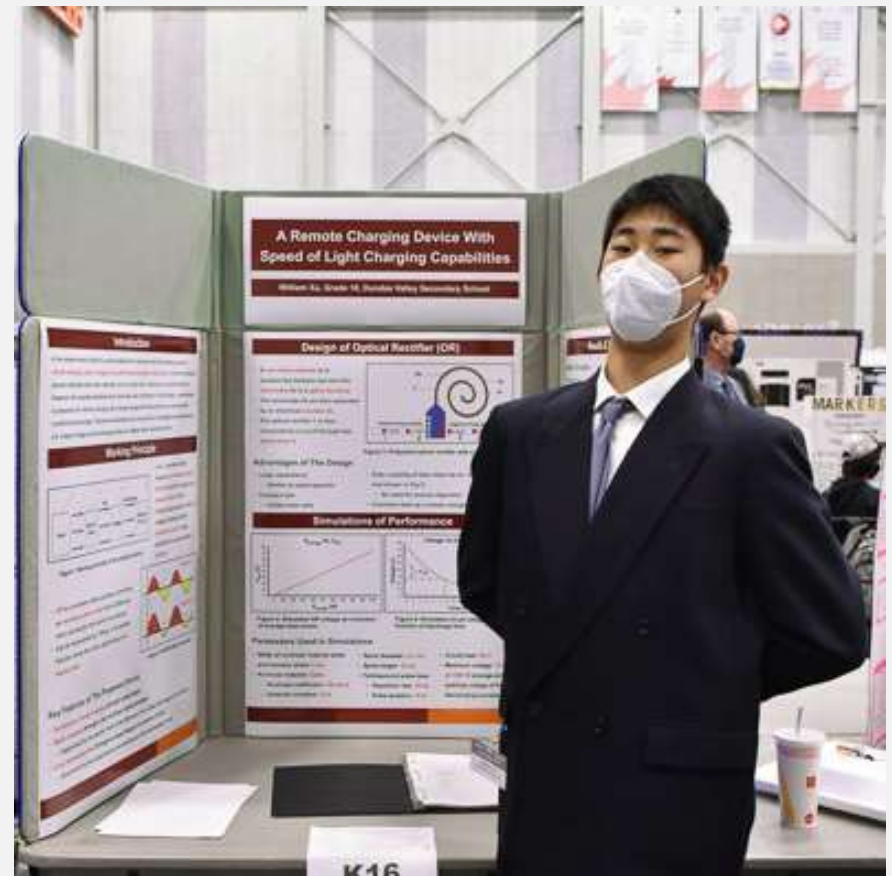
ArcelorMittal Dofasco Information Systems Award

William Xu

K16

A Remote Charging Device With Speed of Light Charging Capabilities

Dundas Valley Secondary School
Dundas



ArcelorMittal Dofasco Ironmaking Award

Gavin Mckerracher & Grayson Beecroft

K12

PSAG (Piezoelectric Semi-Automatic Generator)

Rolling Meadows Public School
Burlington



ArcelorMittal Dofasco Material
Handling & Logistics Department
Award

Rohan Tuli

K04

Using YOLO Object Detection To Allow Self-Driving
Cars to See

Oakville Trafalgar High School
Oakville



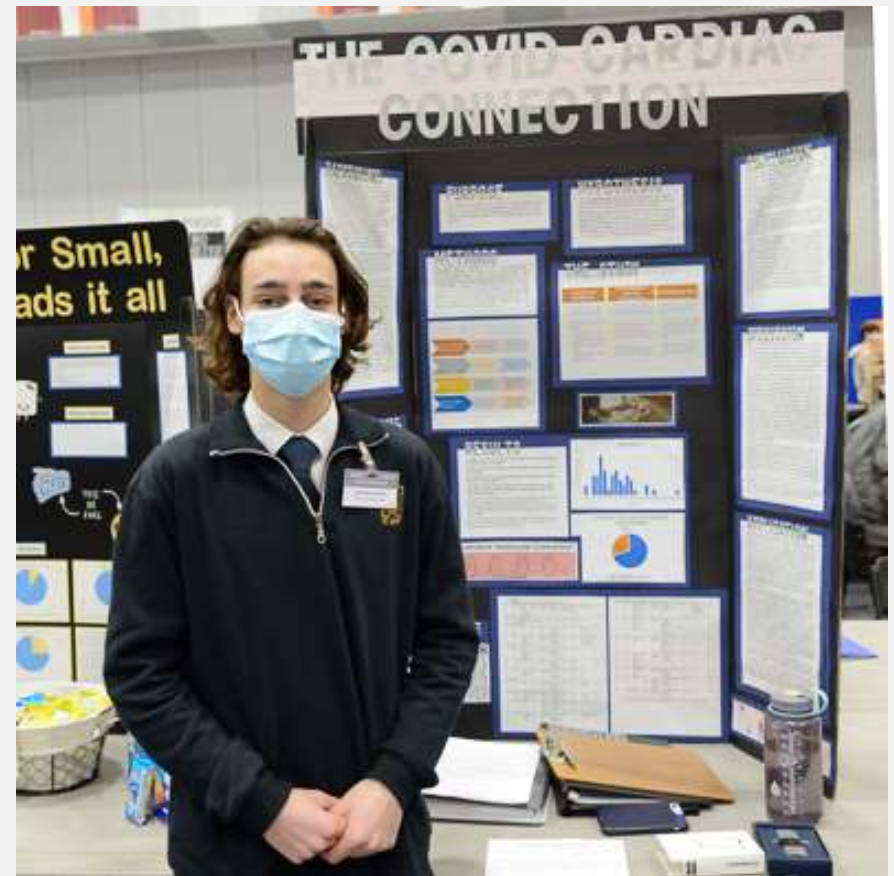
ArcelorMittal Dofasco Medical
Department Award

Nicholas Pacifici

E13

The COVID Cardiac Connection: A Novel Pre-
participation Screening Tool

St. Mary Secondary School
Hamilton



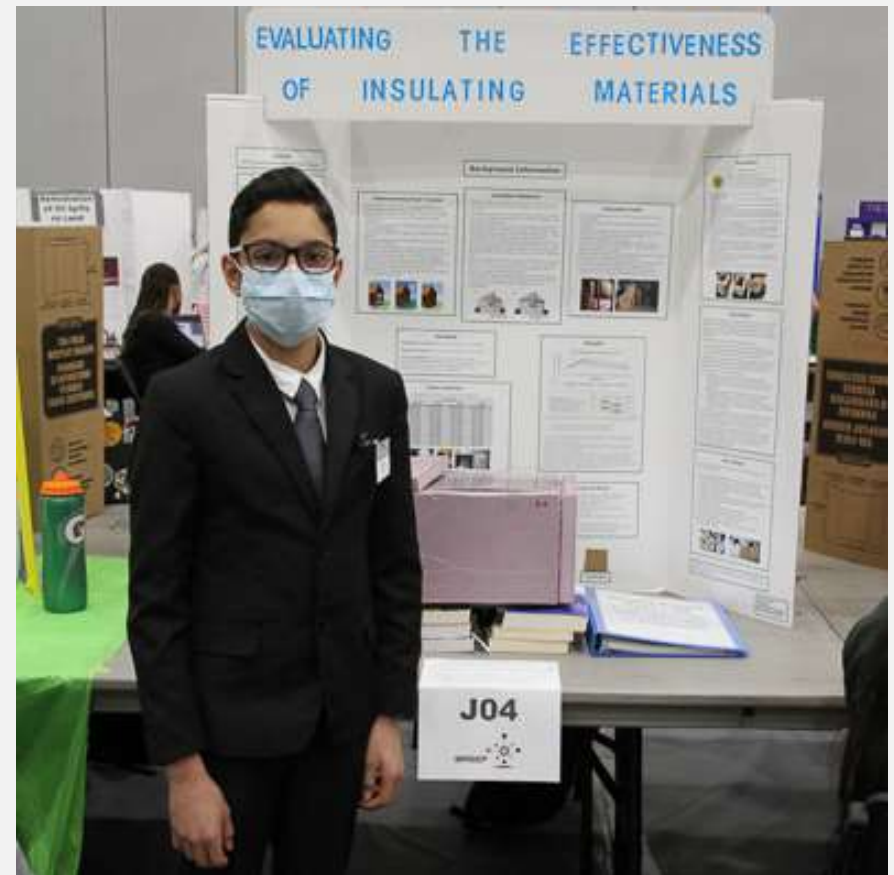
ArcelorMittal Dofasco Pickling and Cold Rolling Award

Eesa Latif

J04

Investigating the Effectiveness of Insulation

Al-Falah Islamic School
Oakville

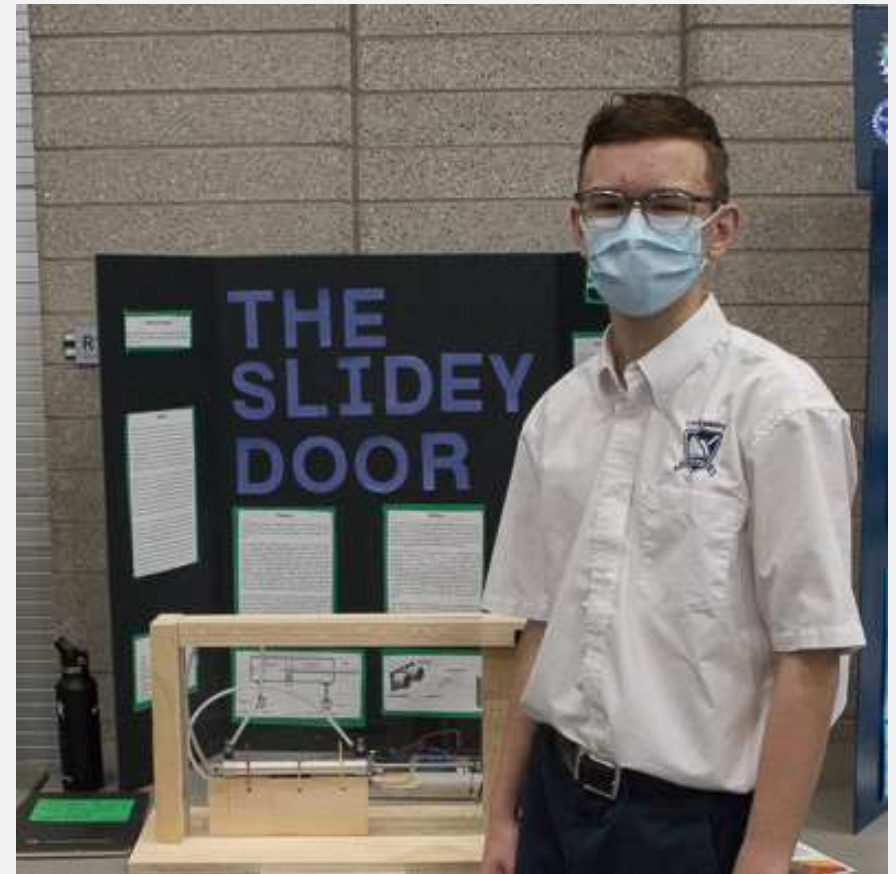


ArcelorMittal Dofasco Process Automation Award

Deaglan Doyle

P18
The Slidey Door

Lee Academy
Lynden



ArcelorMittal Dofasco Product
Development Business Process
Award

Dylan Jagt

K14
Converting a Go Kart to Electric

Oakville Christian School
Oakville



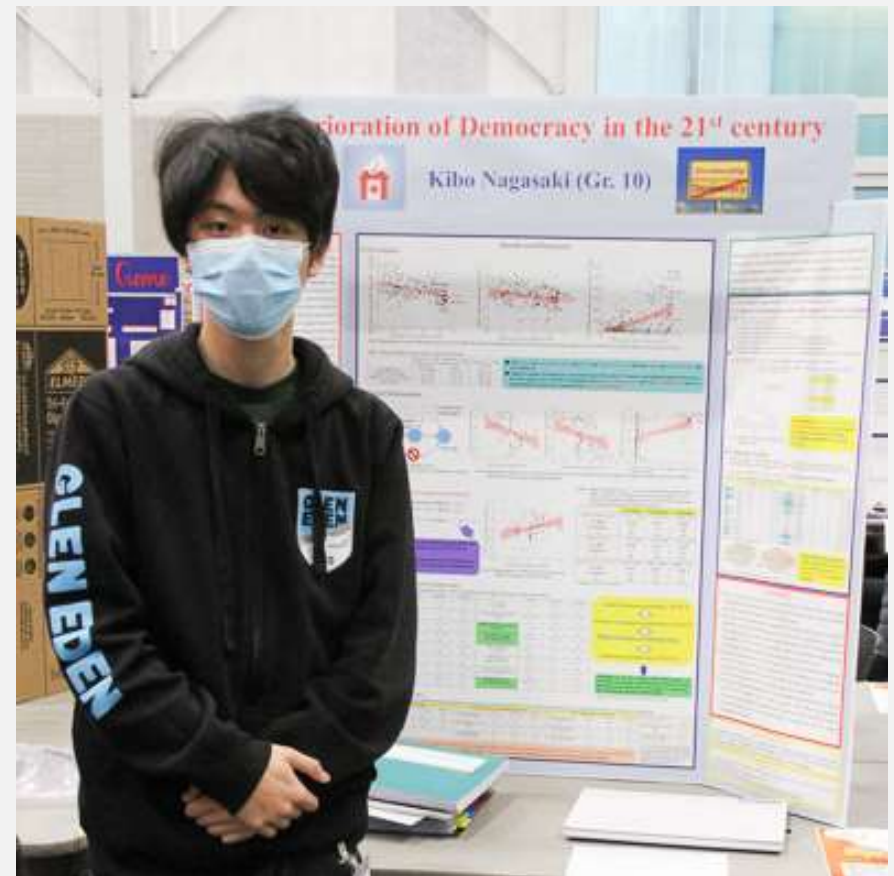
ArcelorMittal Dofasco Quality Systems Award

Kibo Nagasaki

H02

Deterioration of Democracy in the 21st Century

Mentor College
Mississauga



ArcelorMittal Dofasco Steelmaking Award

Gladys Kozyra & Emilia Diaz-Ruiz

L03

Oasis: The portable seawater desalinator

Westdale Secondary School
Hamilton



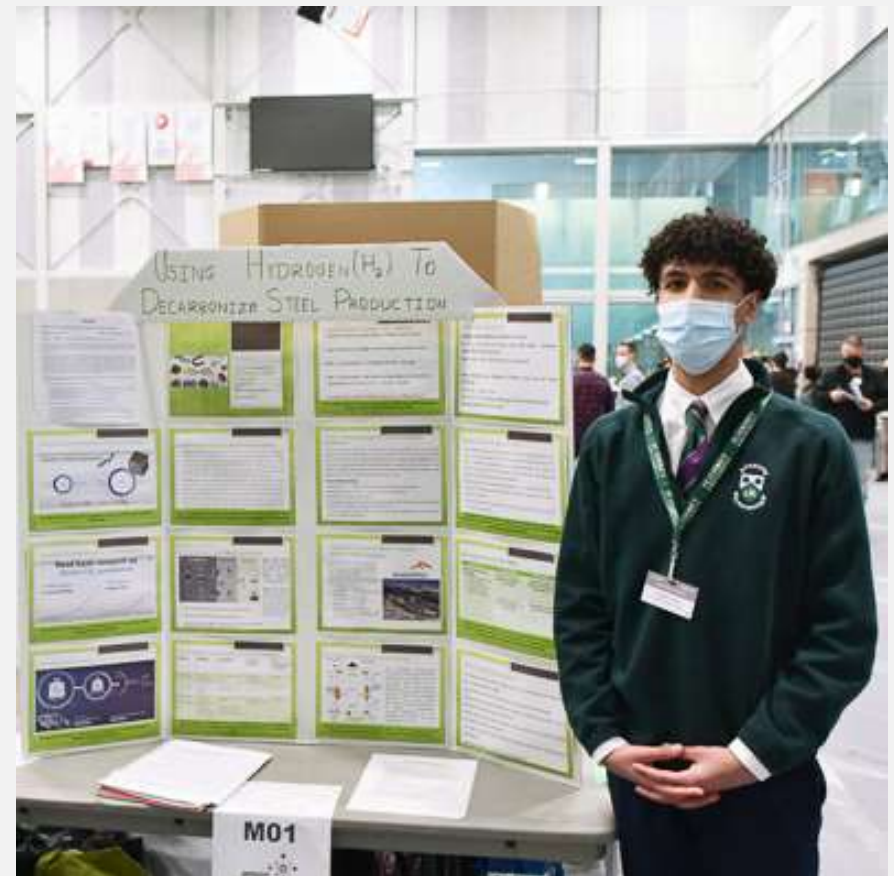
ArcelorMittal Dofasco Smarter Steels for People and Planet Award

Ruhan Soni

M01

Using Hydrogen to decarbonize Steel Production

Hillfield Strathallan College
Hamilton



Artistically Inspired Display Awards



Artistically Inspired Display Award

Noah DiCaro

M04

A study of the decomposition of leaves

Our Lady of Victory Elementary School
Milton

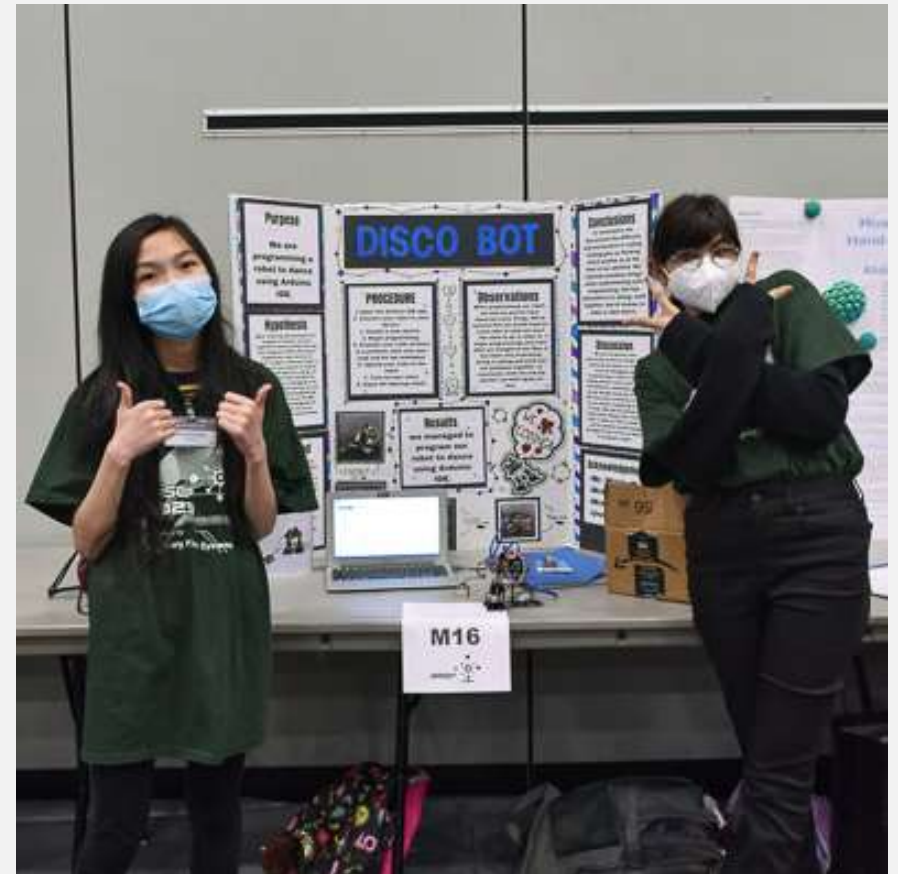


Artistically Inspired Display Award

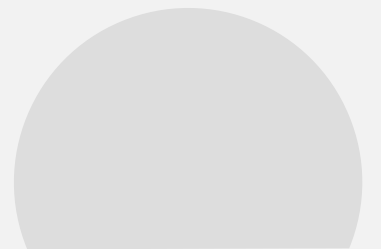
Redina Nijjar & Michelle Huang

M16
Disco Bot

Cathy Wever
Hamilton



Association for Iron & Steel Technology Northern Chapter Awards



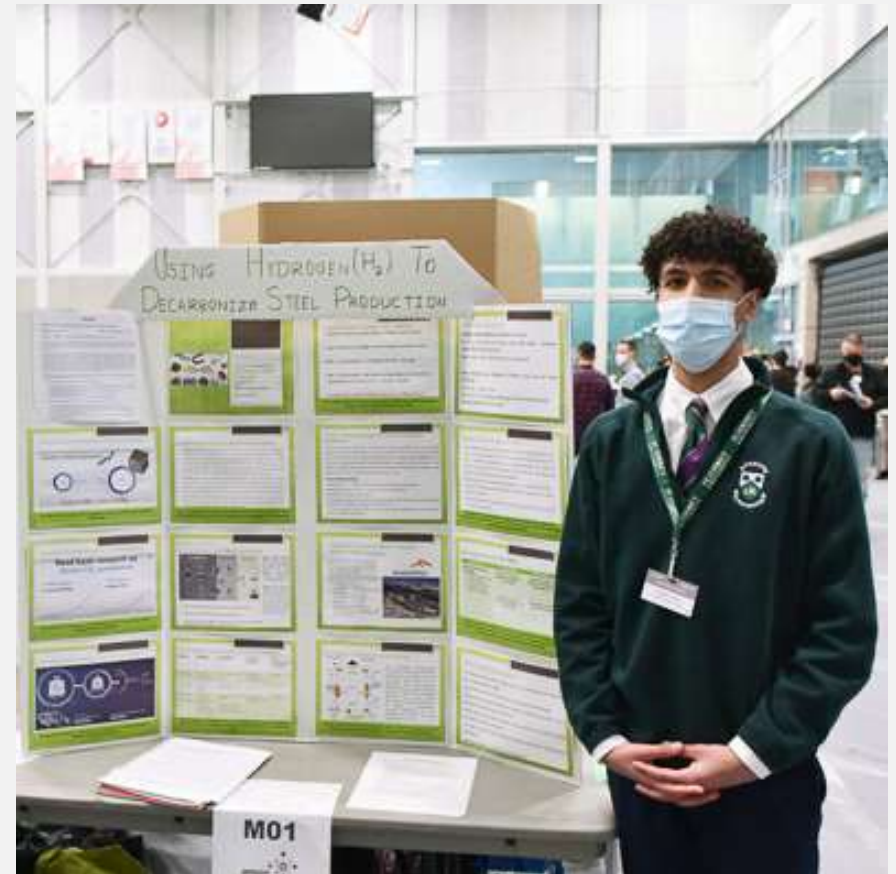
Association for Iron & Steel Technology Northern Chapter Award

Ruhan Soni

M01

Using Hydrogen to decarbonize Steel Production

Hillfield Strathallan College
Hamilton



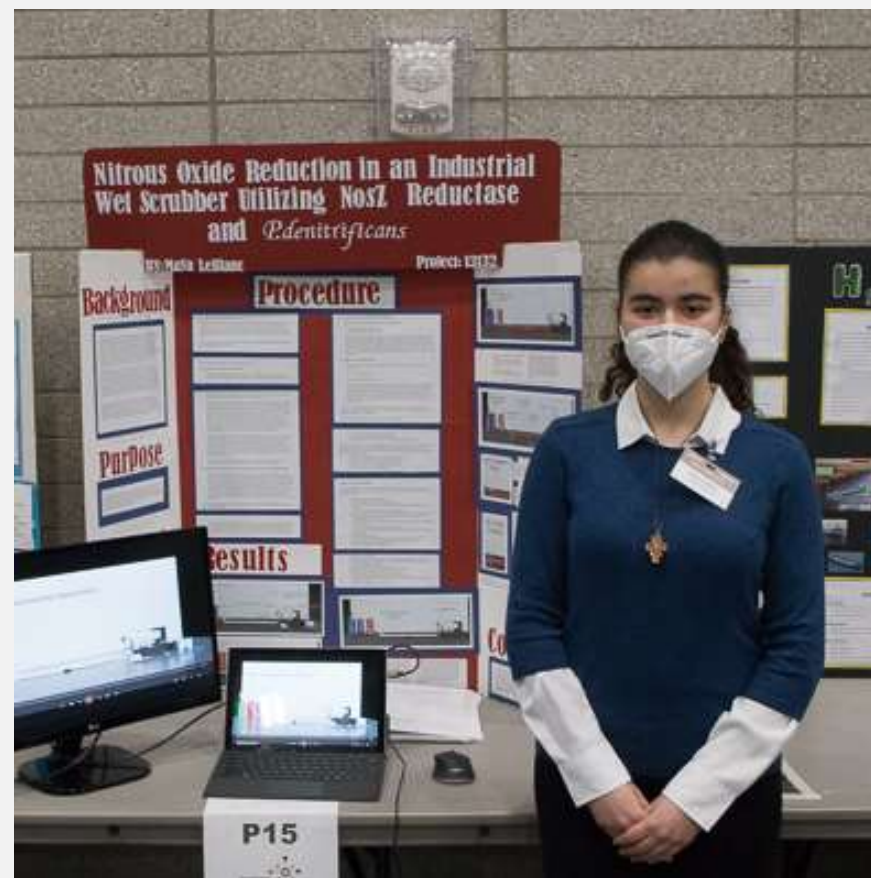
Association for Iron & Steel Technology Northern Chapter Award

Maya LeBlanc

P15

Nitrous Oxide Reduction in an Industrial Wet Scrubber
Utilizing NosZ Reductase and *P. denitrificans*

Abbey Park High School
Oakville



Bay Area Health Trust Scholarship / Paul Lakin Life Sciences Award



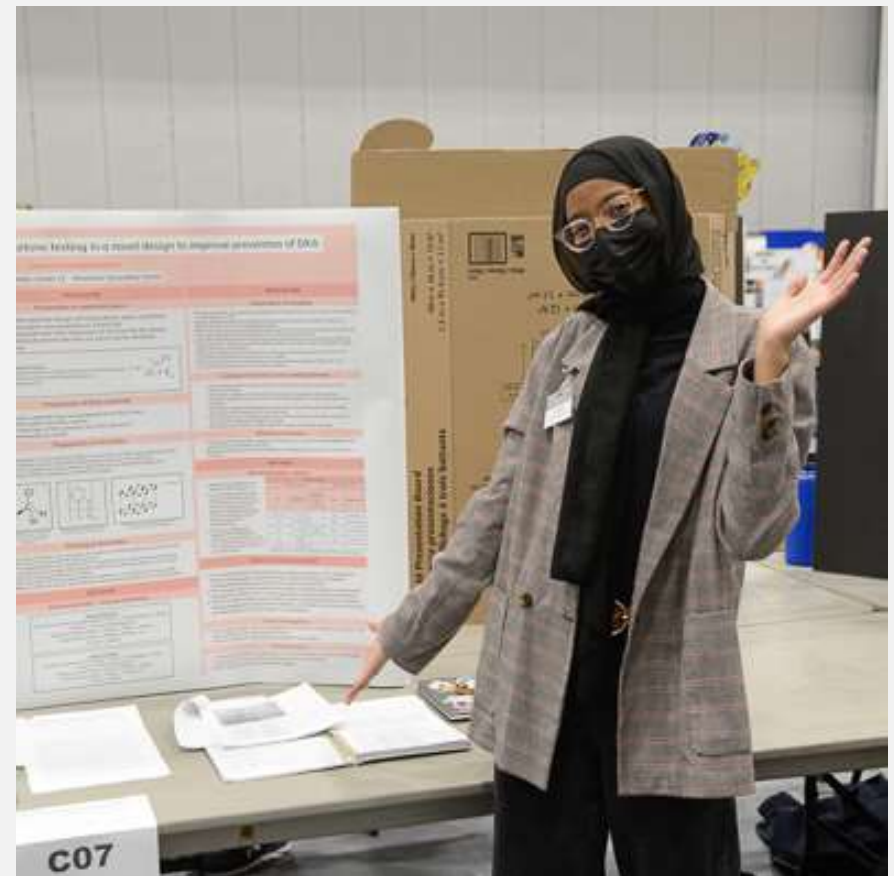
Bay Area Health Trust Scholarship, Paul Lakin Life Sciences Award

Isra Bashir

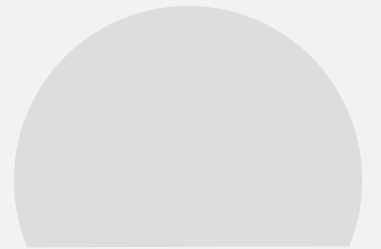
C07

Sugar High! - Integrating glucose and ketone testing
in a novel design to improve prevention of DKA

Westdale Secondary School
Hamilton



Dr. Laura Blew Social Sciences Awards



Dr. Laura Blew Social Sciences Award

Brian Yin

P02

Student Engagement Rewards System

Iroquois Ridge High School
Oakville



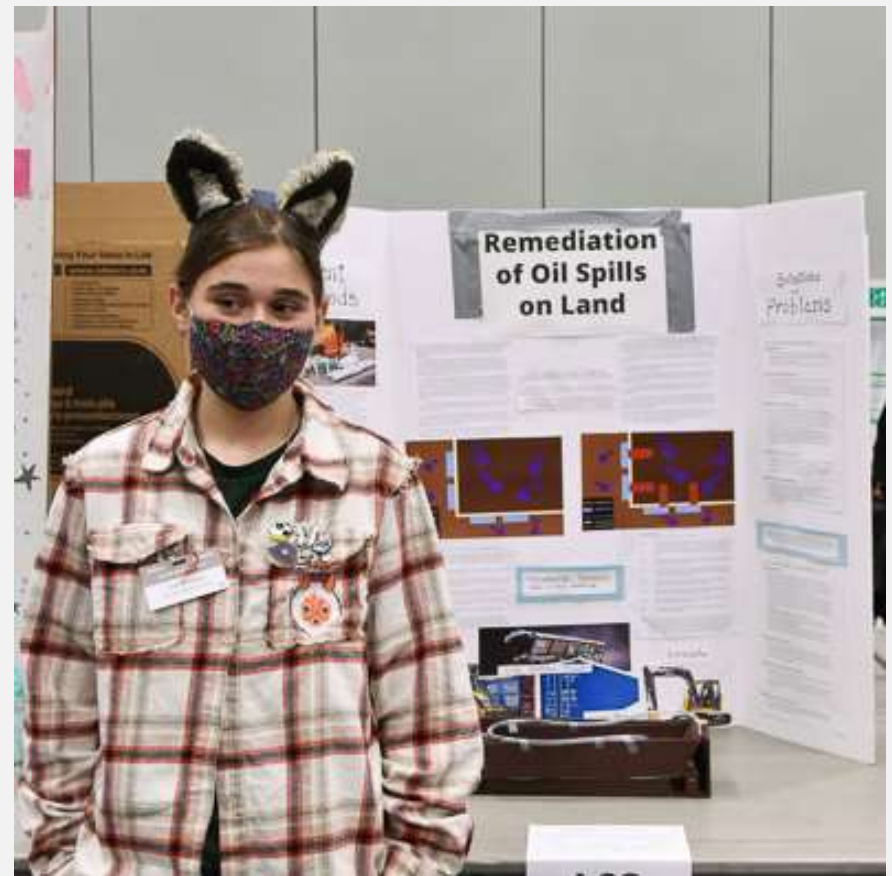
Dr. Laura Blew Social Sciences Award

Evelyn Peart

L02

Remediation of oil spills on land

Tiger Jeet Singh Public School
Milton



Canadian Institute of Mining, Metallurgy and Petroleum (Hamilton Branch) Awards



Canadian Institute of Mining,
Metallurgy and Petroleum (Hamilton
Branch) Award

Daniel Mansour

H06

What Substance Removes Rust The Best

Al-Falah Islamic School
Oakville



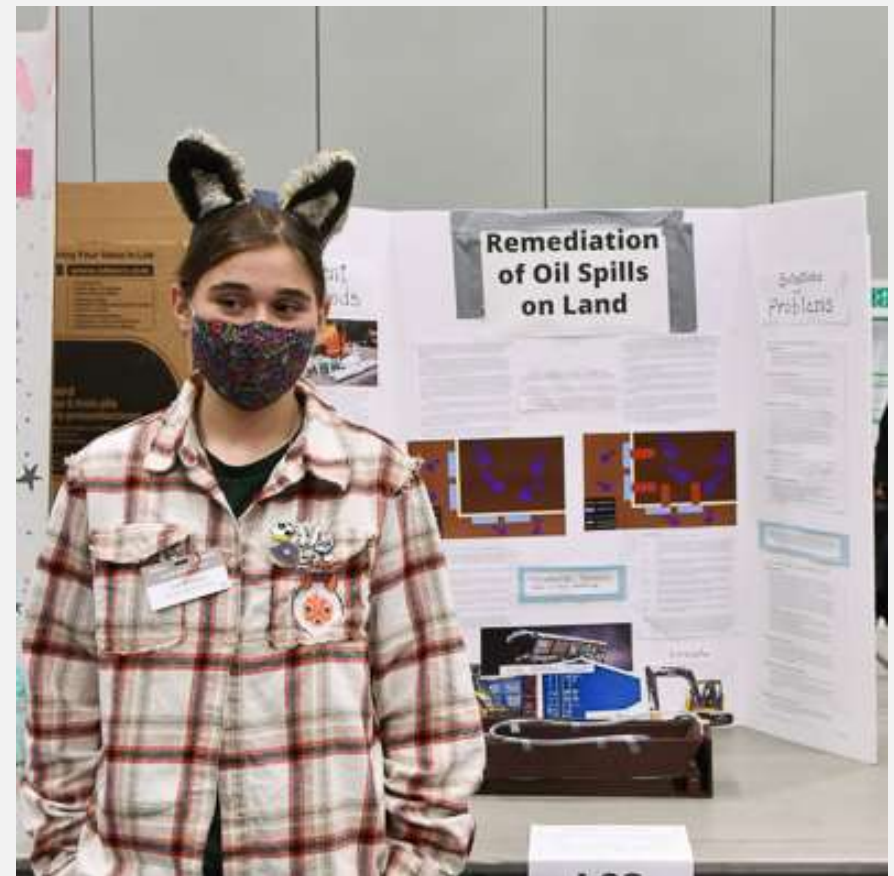
Canadian Institute of Mining,
Metallurgy and Petroleum (Hamilton
Branch) Award

Evelyn Peart

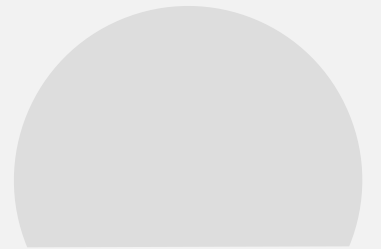
L02

Remediation of oil spills on land

Tiger Jeet Singh Public School
Milton



Canadian Meteorological and Oceanographic Society Awards



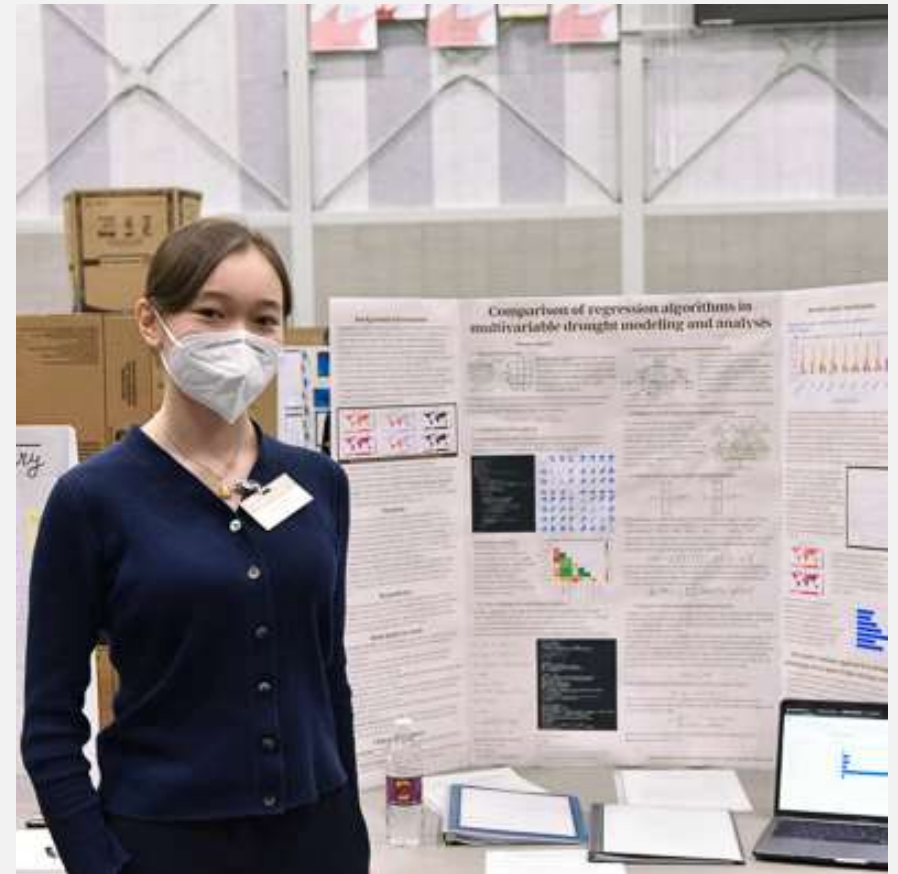
Canadian Meteorological and
Oceanographic Society (CMOS)
Award - Second

Maria Chzhen

K09

Comparison of regression algorithms for multivariable
drought analysis

Westdale Secondary School
Hamilton



Canadian Meteorological and
Oceanographic Society (CMOS)
Award - First

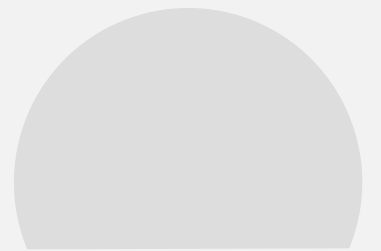
Joanna Martin

N07
The Clean Air Project

St. John Elementary School (Burlington)
Burlington



Canadian Nuclear Society (Golden Horseshoe Branch) Awards



Canadian Nuclear Society (Golden Horseshoe Branch) Awards - Junior

Bhavitha Kolla & Jianyu Yu

M03

Nuclear Fusion - The Long-Term Solution to Our
Massive Energy Demand

W. H. Morden Public School
Oakville



Canadian Nuclear Society (Golden Horseshoe Branch) Awards - Junior

Karthik Chawla

P14

Imagine - Generating Green hydrogen for the world

W. H. Morden Public School
Oakville



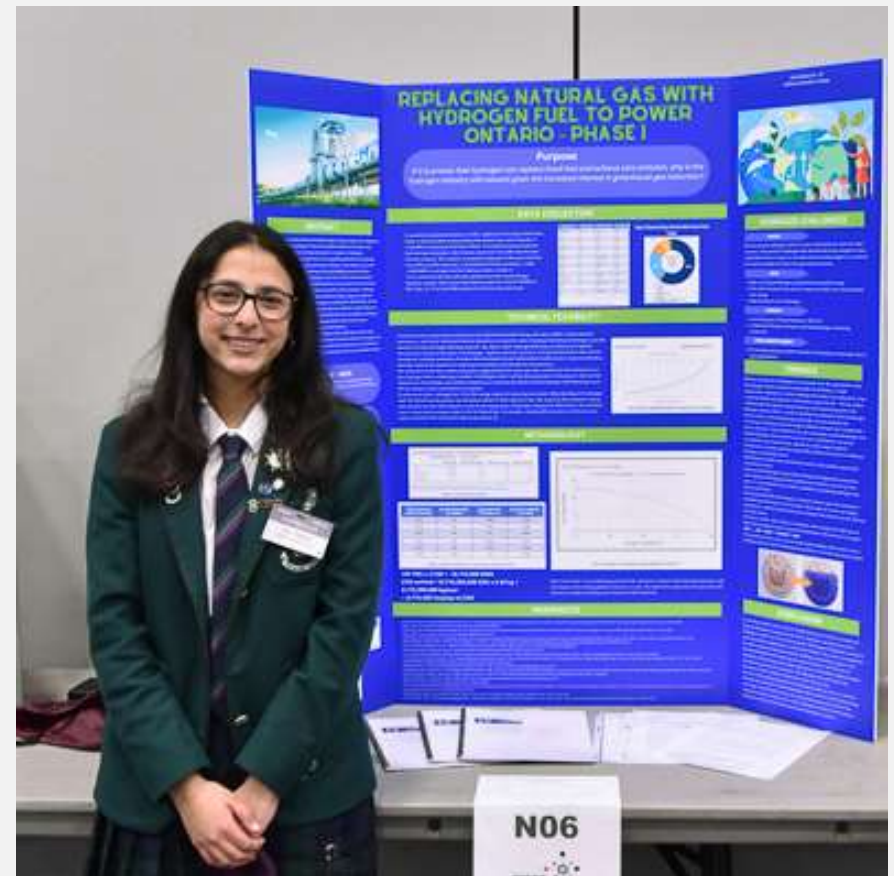
Canadian Nuclear Society (Golden
Horseshoe Branch) Awards -
Intermediate or Senior

Alia Wahban

N06

Replacing Natural Gas with hydrogen Fuel to Power
Ontario (Phase 1)

Hillfield Strathallan College
Hamilton



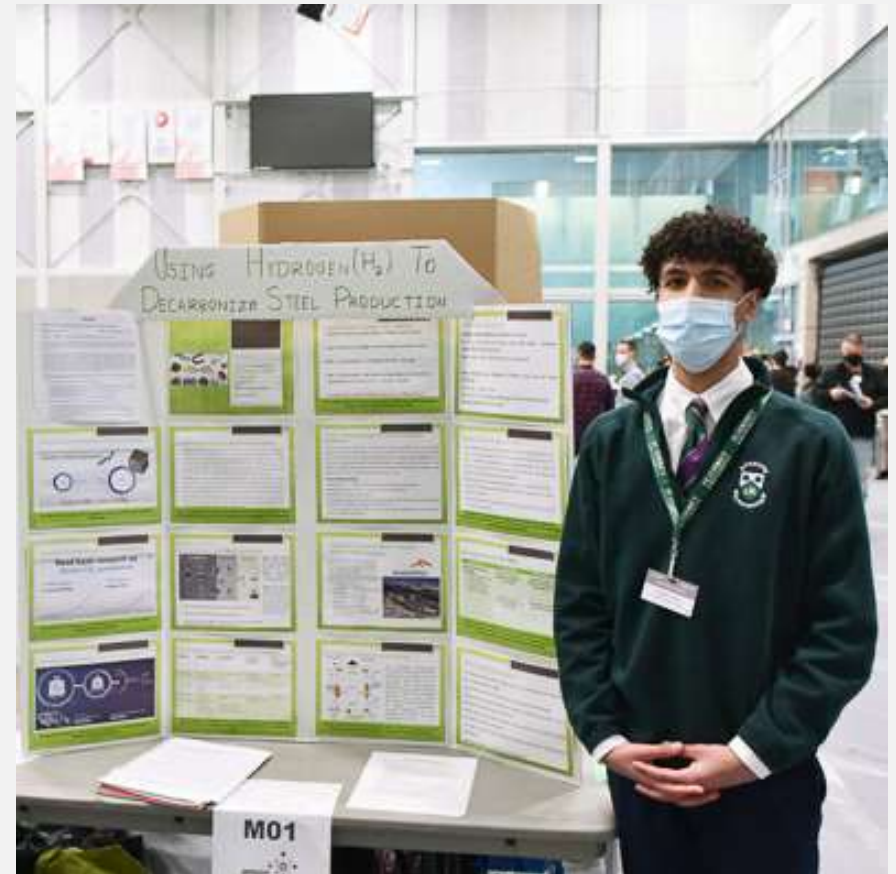
Canadian Nuclear Society (Golden
Horseshoe Branch) Awards-
Intermediate or Senior

Ruhan Soni

M01

Using Hydrogen to decarbonize Steel Production

Hillfield Strathallan College
Hamilton



Chemical Institute of Canada - Hamilton Section Awards



Chemical Institute of Canada (Hamilton Section) Award

Teodora Jovicevic

G10
pH Of Water

Ancaster Meadow
Ancaster



Chemical Institute of Canada (Hamilton Section) Award

Weronika Szymala & Yuba Jim

G11

Cell Phone Spectrophotometer

Bishop Ryan Secondary School
Hamilton



Chemical Institute of Canada (Hamilton Section) Award

Vivian Blonde

M02
Water Purification

Charles R. Beaudoin Public School
Burlington



Conservation Halton Awards



Conservation Halton Environmental Sciences Award

Rachel McKenzie & Samantha Almond

A04

What time of day are birds most active?

Charles R. Beaudoin Public School
Burlington



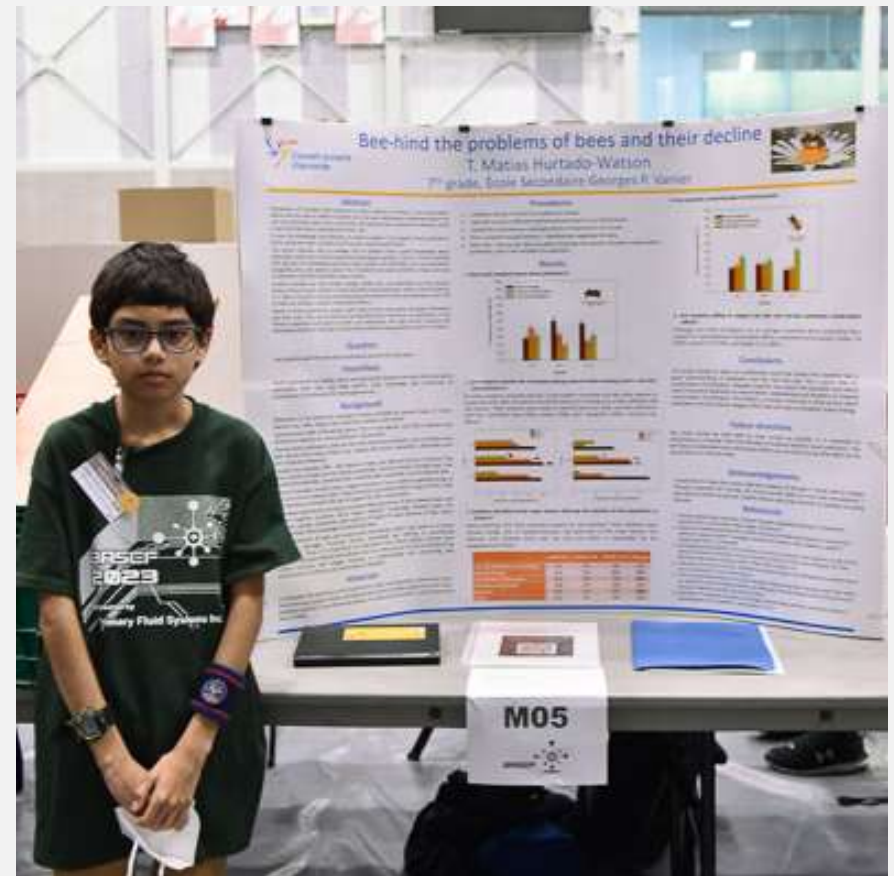
Conservation Halton Environmental Sciences Award

Thiago Matias Hurtado-Watson

M05

Bee-hind the problems of bees and their decline

École secondaire Georges-P.-Vanier
Hamilton



Michael G. DeGroot Institute for Infectious Disease Research Awards



Michael G. DeGroote Institute for Infectious Disease Research Award

Jeena Chhinzer

A03
Baffling Bacteria

Dr. David R Williams
Oakville



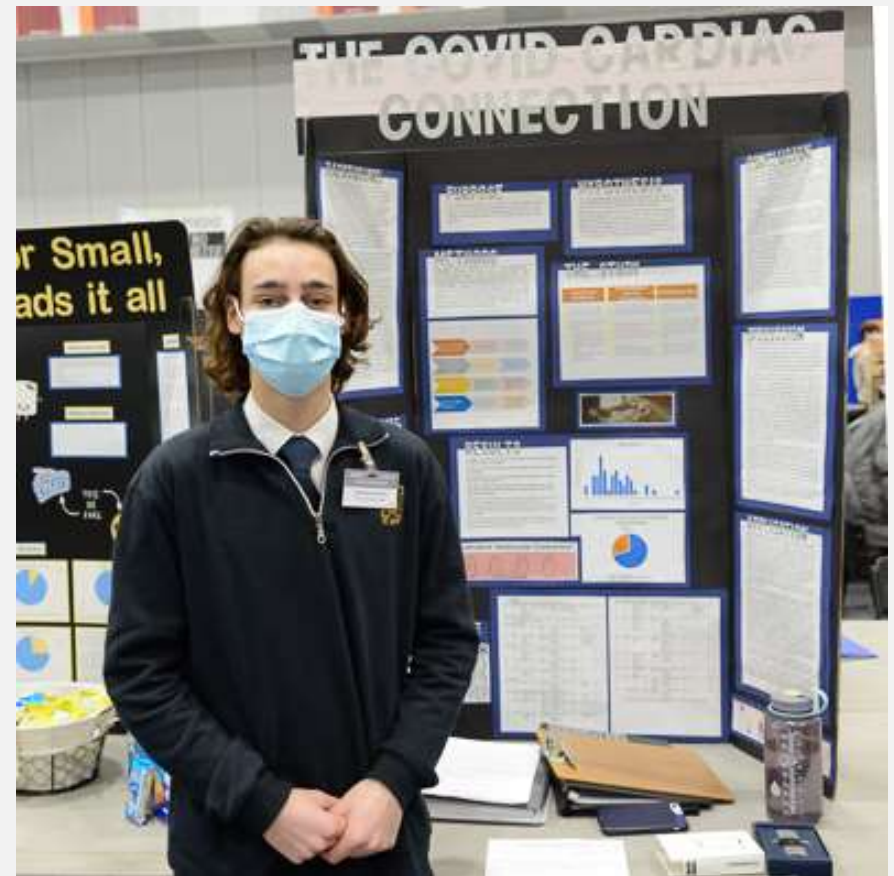
Michael G. DeGroote Institute for
Infectious Disease Research Award

Nicholas Pacifici

E13

The COVID Cardiac Connection: A Novel Pre-
participation Screening Tool

St. Mary Secondary School
Hamilton



Michael G. DeGroot Institute for
Infectious Disease Research Grand
Award

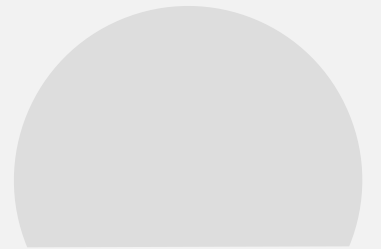
James Kelder

D01
Ex-Squeeze Me?!

Oakville Christian School
Oakville



Dillon Consulting Awards



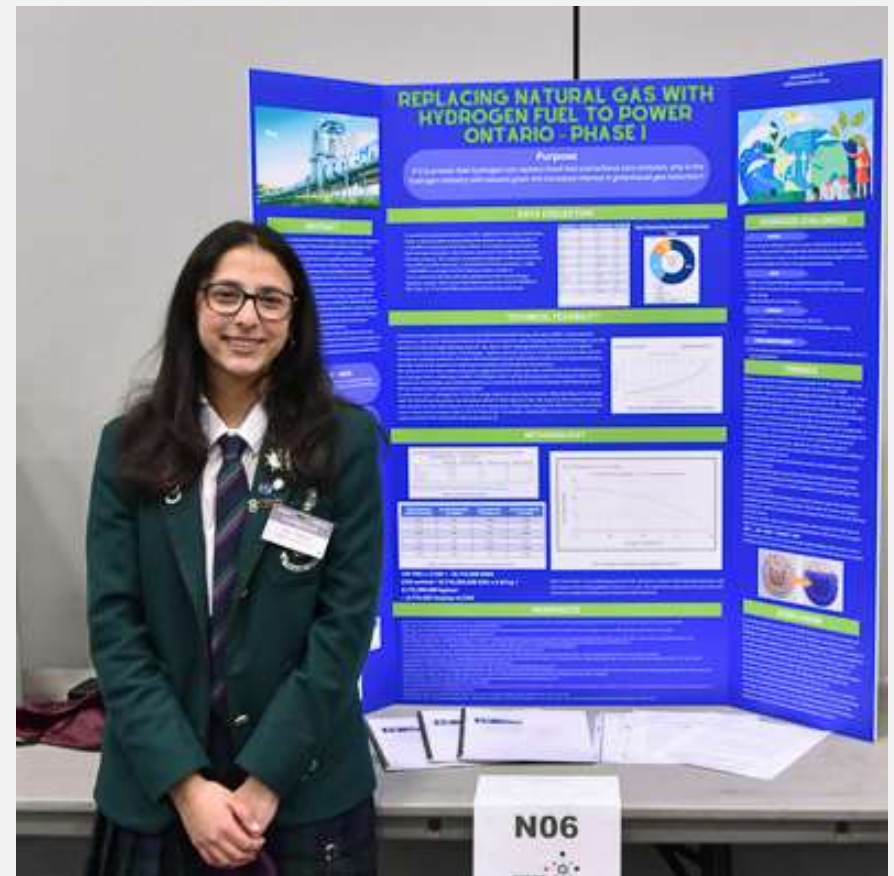
Dillon Consulting Science and Engineering Award

Alia Wahban

N06

Replacing Natural Gas with hydrogen Fuel to Power Ontario (Phase 1)

Hillfield Strathallan College
Hamilton



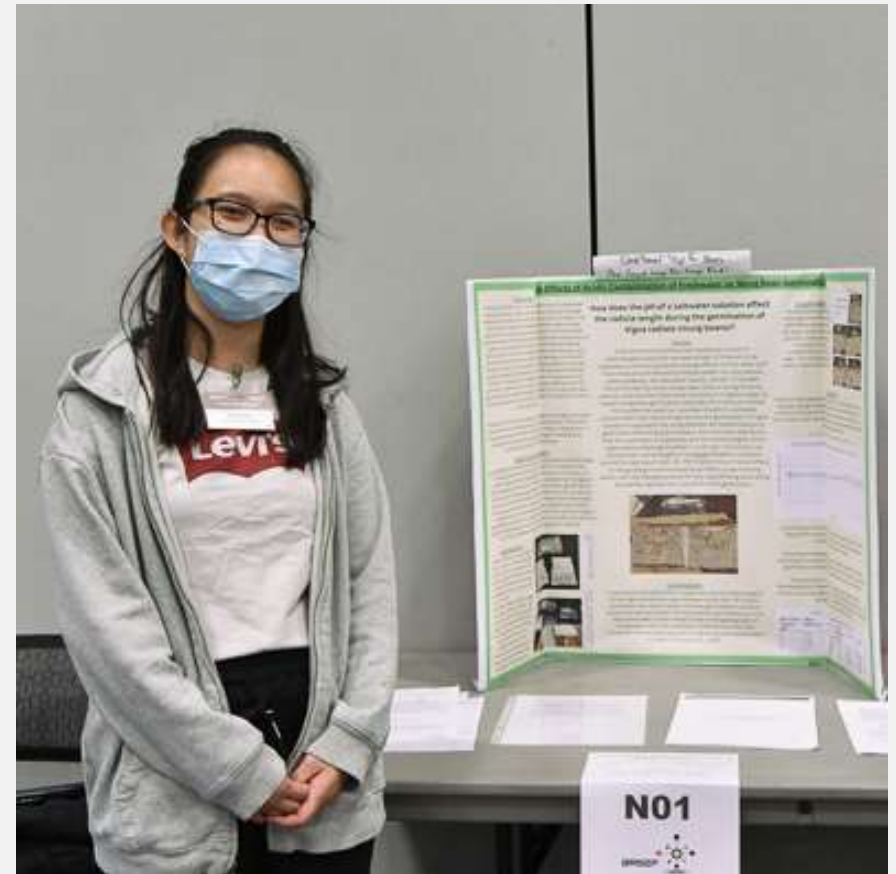
Dillon Consulting Biological Sciences Award

Hong Ngo

N01

The Effects of Acidic Contamination of Freshwater on
Mung Bean Germination

Westdale Secondary School
Hamilton



Dr. M. Doyle Award



Dr. M. Doyle Biology Award

Isaiah Sienna

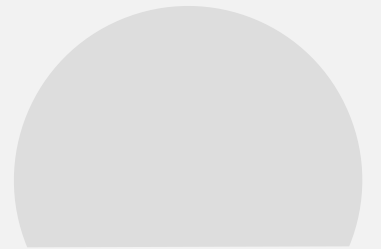
B03

Taking Flight: The Evolutionary Origin of Feathered Flight

St. Augustine
Dundas



Electrical Construction Association of Hamilton Award



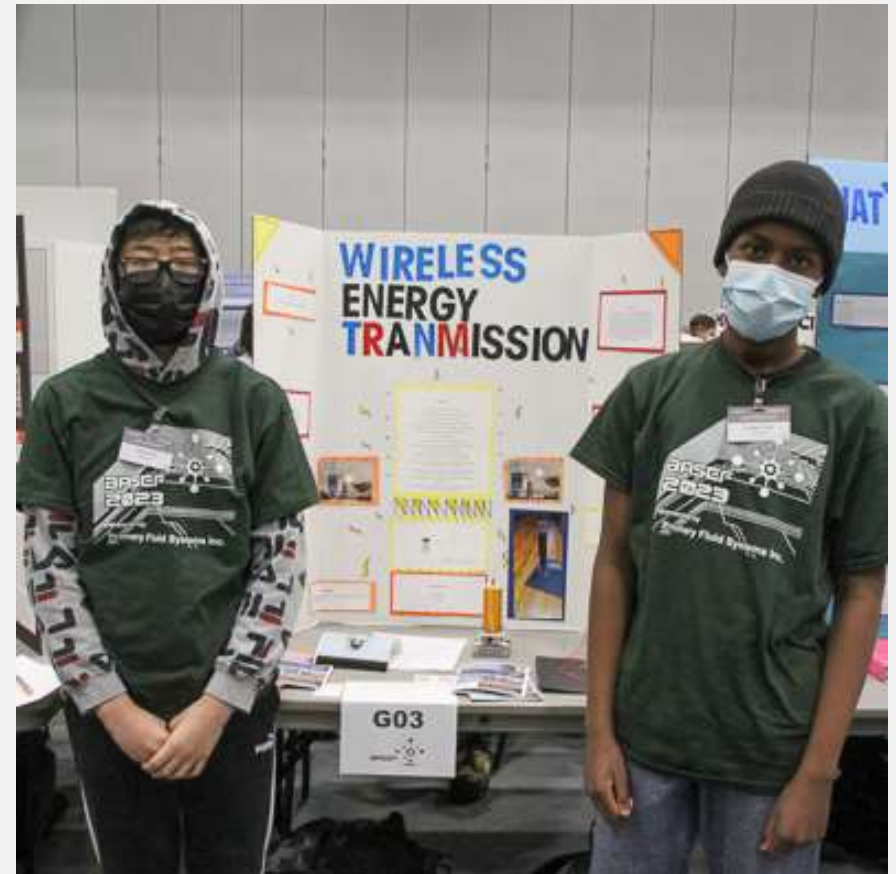
Electrical Construction Association of Hamilton Award

Farhan Noor & Ethan Mai

G03

Wireless Energy Transfer Using a Tesla Coil

Cathy Wever
Hamilton



Electrical Construction Association of Hamilton Award

Gavin Mckerracher & Grayson Beecroft

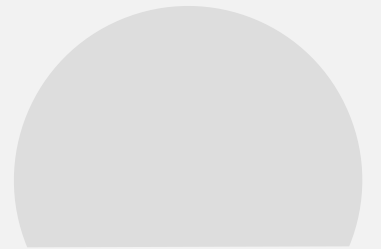
K12

PSAG (Piezoelectric Semi-Automatic Generator)

Rolling Meadows Public School
Burlington



Environmental Inspiration Award



Environmental Inspiration Award

Karthik Chawla

P14

Imagine - Generating Green hydrogen for the world

W. H. Morden Public School
Oakville



Farncombe Family Digestive Health Research Awards



Farncombe Family Digestive Health Research Award

Jeena Chhinzer

A03
Baffling Bacteria

Dr. David R Williams
Oakville



Farncombe Family Digestive Health Research Award

Anthony Efthimiadis

L16

Development of an AI Convolutional Neural Network
for Diagnostic Screening of Basal Cell Carcinoma

W. H. Morden Public School
Oakville



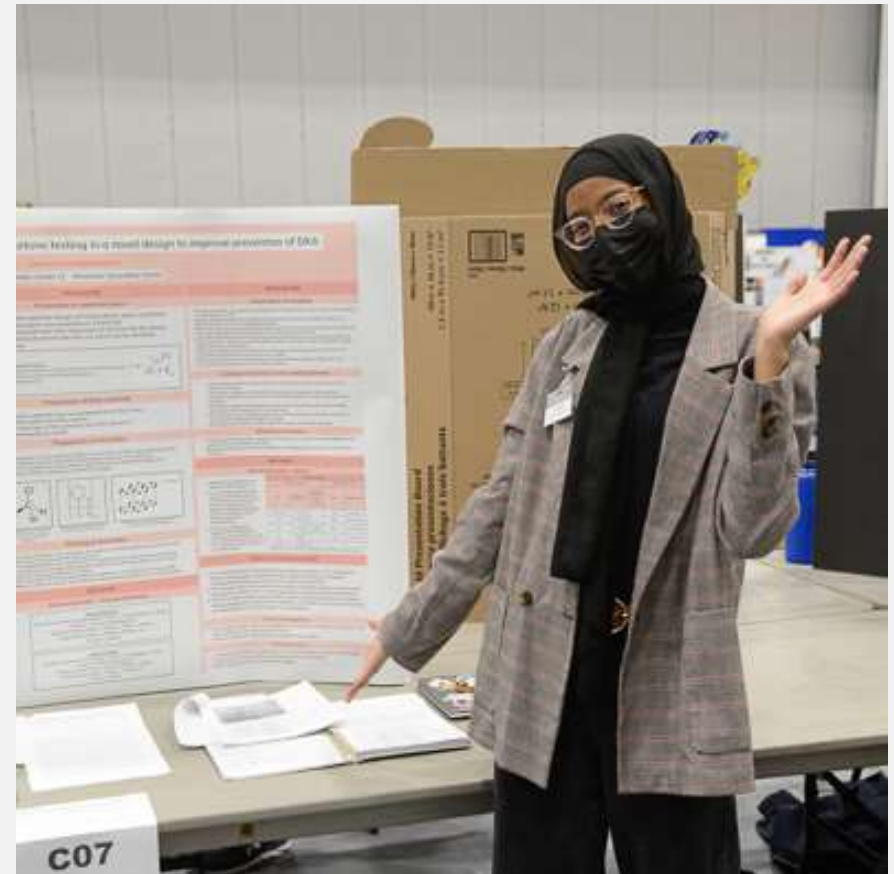
Farncombe Family Digestive Health Research Institute Grand Award

Isra Bashir

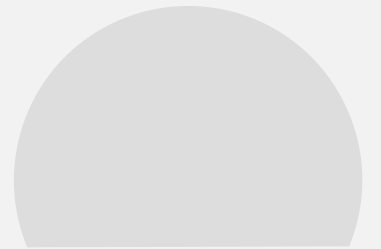
C07

Sugar High! - Integrating glucose and ketone testing
in a novel design to improve prevention of DKA

Westdale Secondary School
Hamilton



Firestone Institute for Respiratory Health Award



Firestone Institute Respiratory Health Award

Heather Dong & Varsha Sridhar

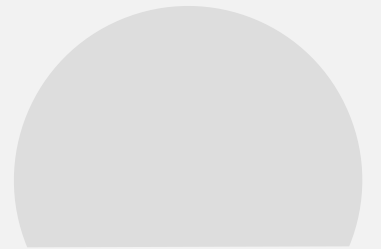
F03

The use of miniaturized monoclonal antibodies to treat small cell lung cancer

W. H. Morden Public School
Oakville



Gowling WLG Innovation Awards



Gowlings Innovation Award - Honourable Mention

Ted He

K02
An Innovative Paper Straw

Charles R. Beaudoin Public School
Burlington



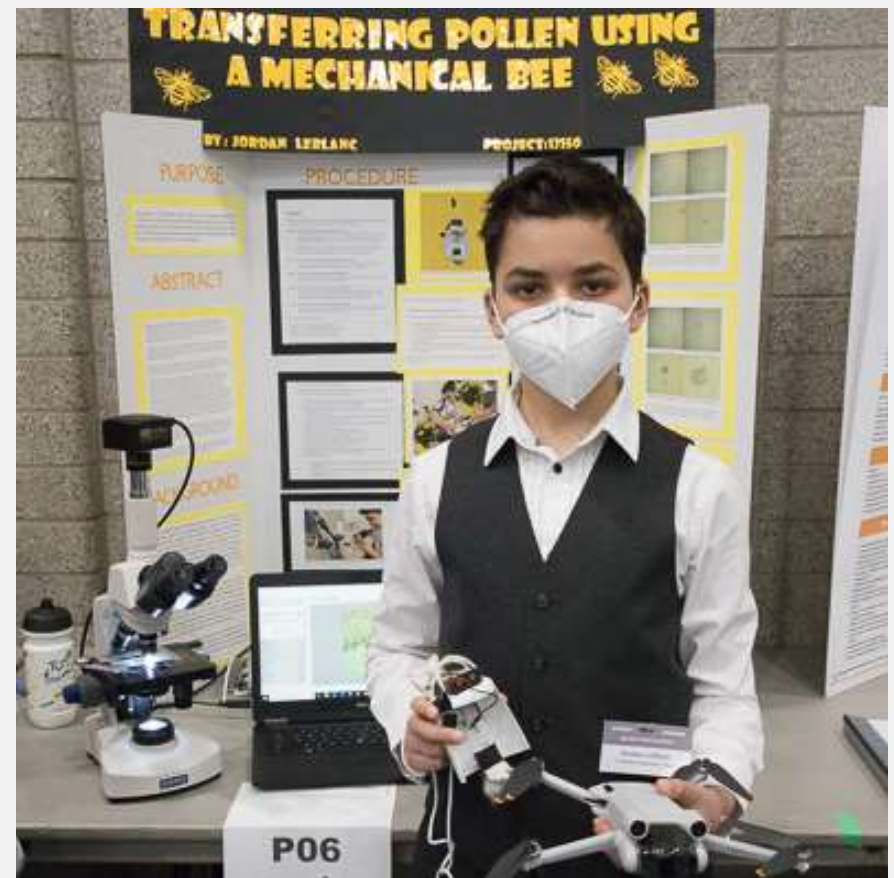
Gowling WLG Innovation Award - Runner-up

Jordan LeBlanc

P06

Transferring Pollen Using a Mechanical Bee

St. Matthew Elementary School
Oakville



Gowling WLG Innovation Award - Grand Winner

Lucas Monter

L11

A Novel EEG Pillowcase for Sleep Apnea Syndrome
Diagnosis: An Investigation of a Virtual Prototype

Corpus Christi Secondary School
Burlington



Hamilton Academy of Dentistry Awards



Hamilton Academy of Dentistry -
Third

Peony Zuo

F08

Sepsis: Searching for a Cure

W. H. Morden Public School
Oakville



Hamilton Academy of Dentistry Award - Second

Anthony Efthimiadis

L16

Development of an AI Convolutional Neural Network
for Diagnostic Screening of Basal Cell Carcinoma

W. H. Morden Public School
Oakville



Hamilton Academy of Dentistry
Award - First

James Kelder

D01
Ex-Squeeze Me?!

Oakville Christian School
Oakville



Hamilton Amateur Astronomers Awards



James A. Winger Award- Junior

Janine Gong & Leah Seet

A09
Statocytes in Space

W. H. Morden Public School
Oakville



James A. Winger Award-- Senior

Isabella Lopes

G14

Expansion of the Cosmos

Bishop Ryan Secondary School
Hannon



Hamilton Association for the Advancement of Literature, Science & Art



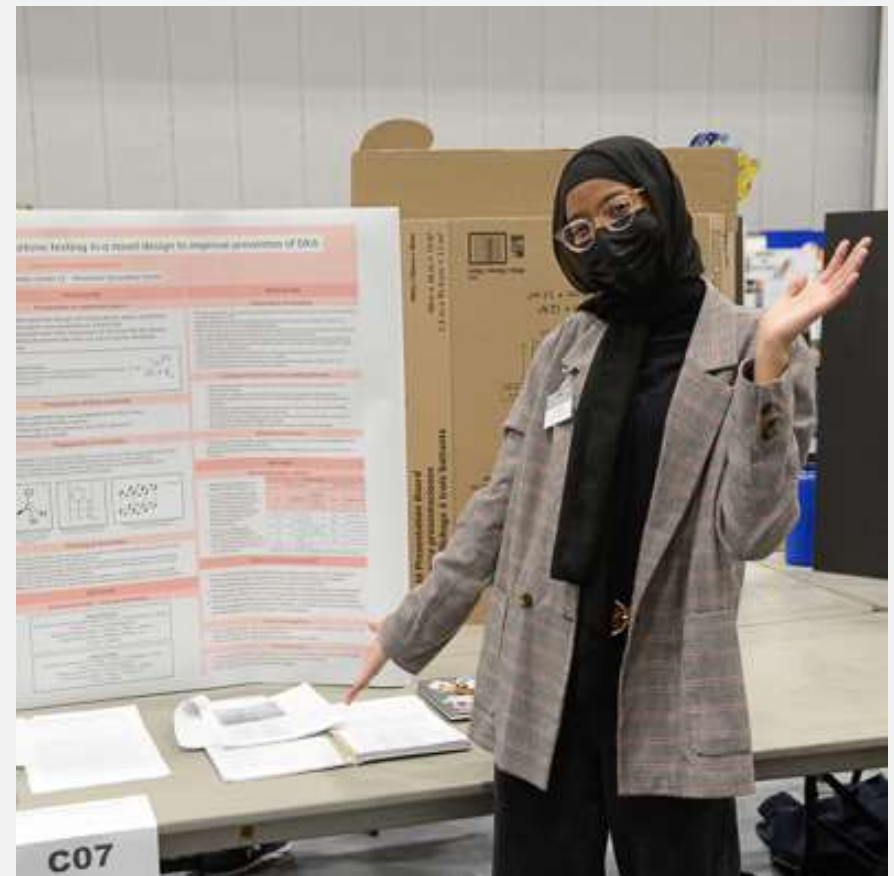
Hamilton Association da Vinci Award

Isra Bashir

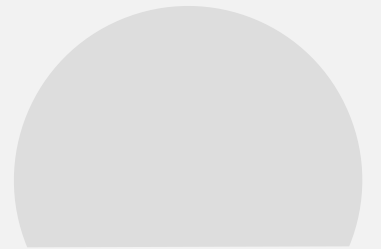
C07

Sugar High! - Integrating glucose and ketone testing
in a novel design to improve prevention of DKA

Westdale Secondary School
Hamilton



Hamilton Chamber of Commerce Innovation Awards



Hamilton Chamber of Commerce Innovation Award - Third

Gladys Kozyra & Emilia Diaz-Ruiz

L03

Oasis: The portable seawater desalinator

Westdale Secondary School
Hamilton



Hamilton Chamber of Commerce Innovation Award - Second

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



Hamilton Chamber of Commerce Innovation Award - First

Maya LeBlanc

P15

Nitrous Oxide Reduction in an Industrial Wet Scrubber
Utilizing NosZ Reductase and *P. denitrificans*

Abbey Park High School
Oakville



Hamilton Wentworth Occasional Teacher Awards



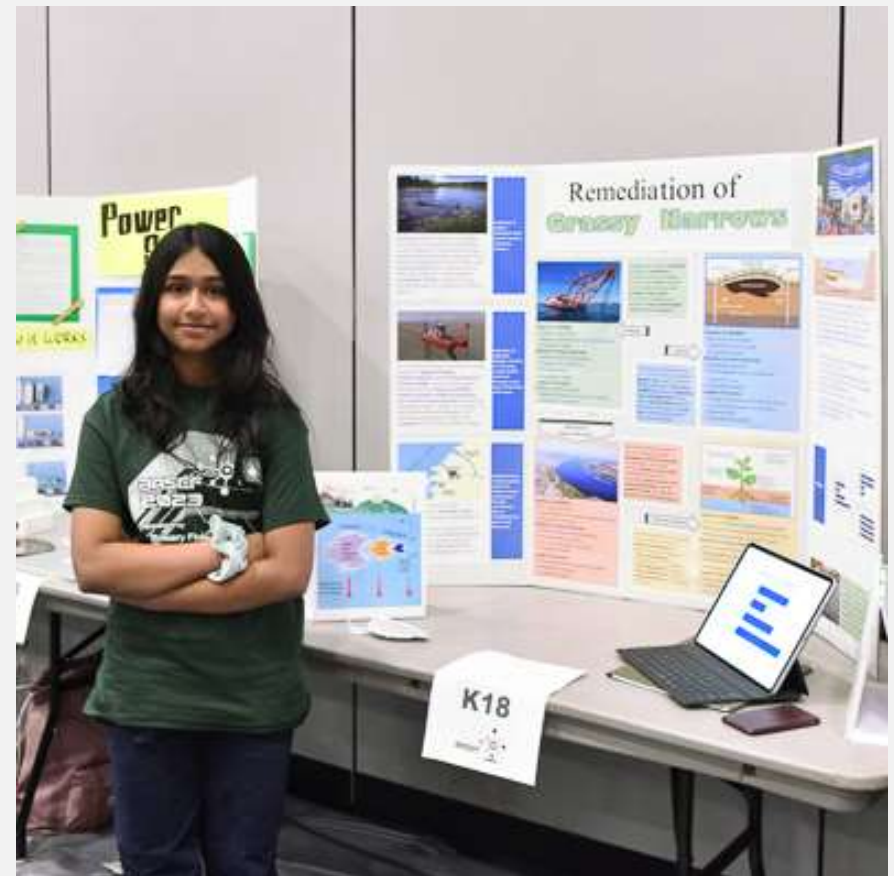
Hamilton Wentworth Occasional
Teachers - Environment & Education
Award

Fiza Mehfil

K18

Exploring Mercury Remediation Options for Grassy
Narrows

Sam Sherratt Public School
Milton

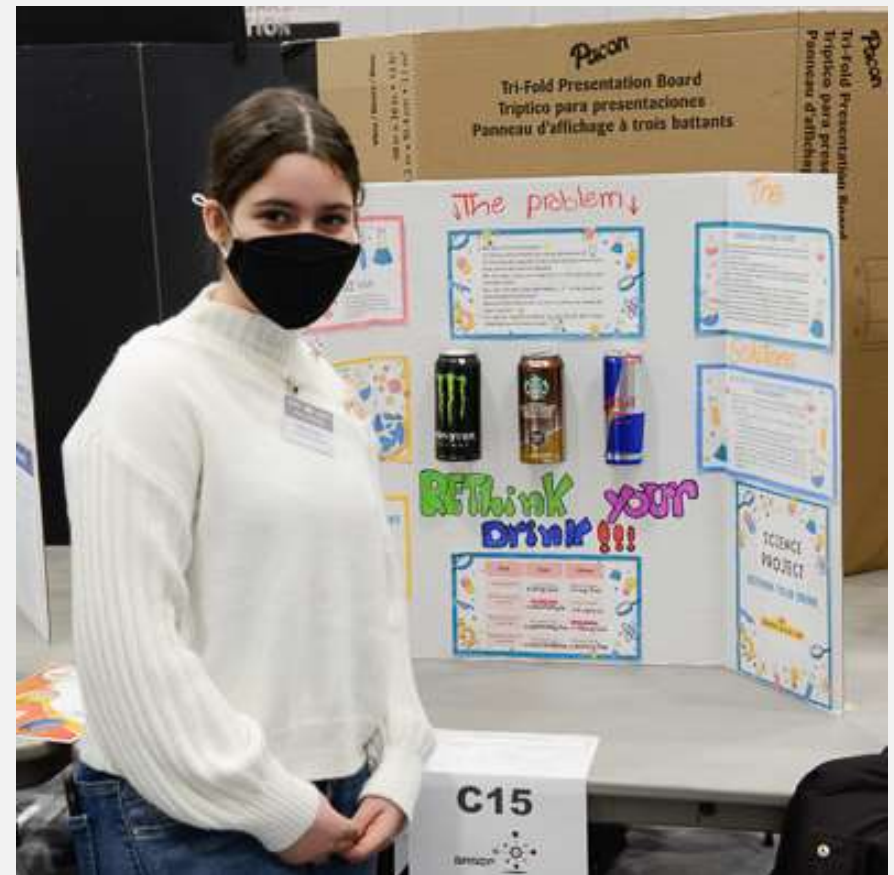


Hamilton Wentworth Occasional Teacher - Healthy Lifestyles Award

Danah Alnajjar

C15
Re-think Your Energy Drink

Hawthorne Village Public School
Milton



Hamilton Wentworth Occasional
Teacher - Presentation & Aesthetics
Award

Anna Amaladoss

F18

Artificial Intelligence - The Future is now

Trinity Christian School
Burlington



Harrison Family Chemistry Award



Harrison Family Chemistry Award

Clara Jonkman

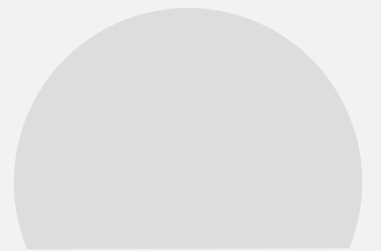
G12

Health Properties of Kombucha

Westdale Secondary School
Hamilton



Hillfield Strathallan College Awards of Excellence



Hillfield Strathallan College Awards of Excellence - Life Sciences Award

Evan Budz & Colin Cameron

N17

ePills – Set it and Forget it!

Charles R. Beaudoin Public School
Burlington



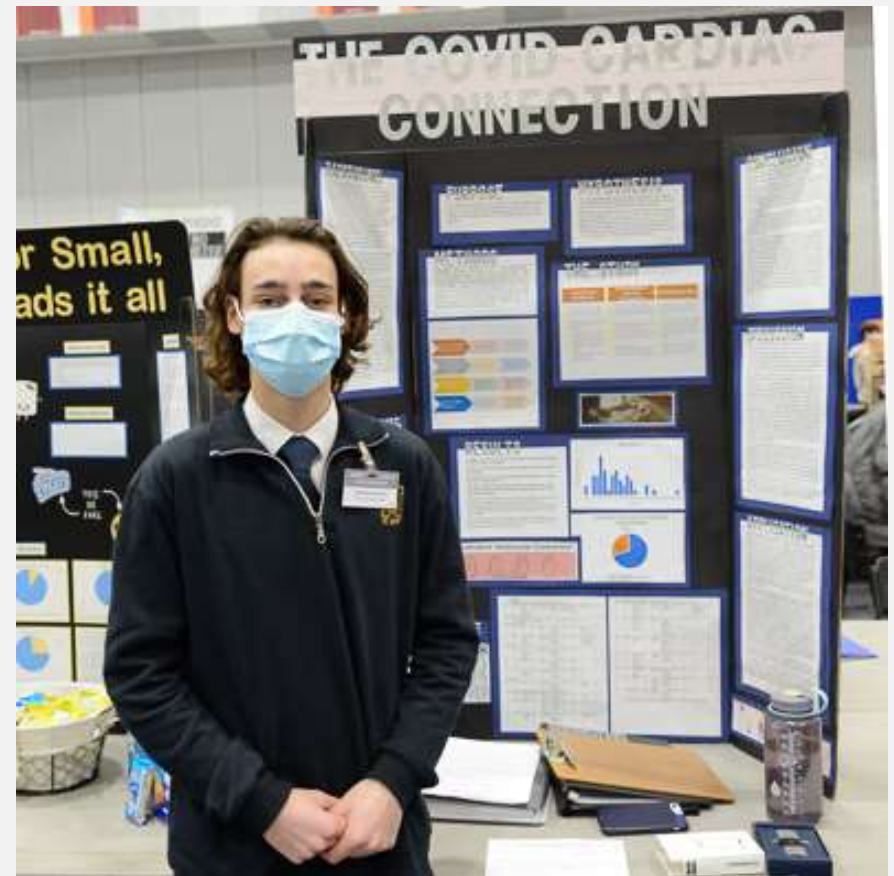
Hillfield Strathallan College Awards of Excellence - Scientific Process Award

Nicholas Pacifici

E13

The COVID Cardiac Connection: A Novel Pre-participation Screening Tool

St. Mary Secondary School
Hamilton



Hillfield Strathallan College Awards of Excellence - Innovation Award

Melin Feng & Aileen Feng

F10

Investigating the Effect of Gene Therapy on Type 1 Diabetes and its Potential as a Future Treatment

Oakville Trafalgar High School
Oakville



Hillfield Strathallan College Entrance Scholarship Award



Hillfield Strathallan College Entrance Scholarship Award

Anthony Efthimiadis

L16

Development of an AI Convolutional Neural Network
for Diagnostic Screening of Basal Cell Carcinoma

W. H. Morden Public School
Oakville



John W. Howard Materials Research Award



John W. Howard Materials Research Award

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



Indigenous Peoples of Canada Scientific Study Awards



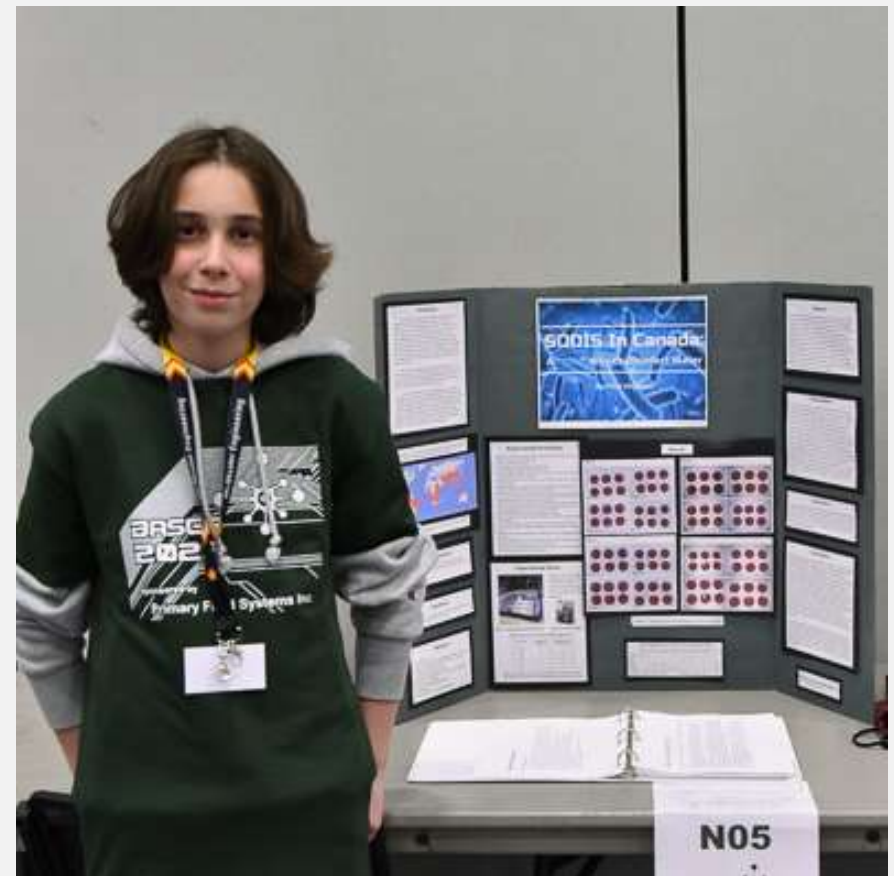
Indigenous Peoples of Canada Scientific Study Award - Second

Filip Veljkovic

N05

SODIS in Canada: A "Cool" Way to Disinfect Water

Charles R. Beaudoin Public School
Burlington



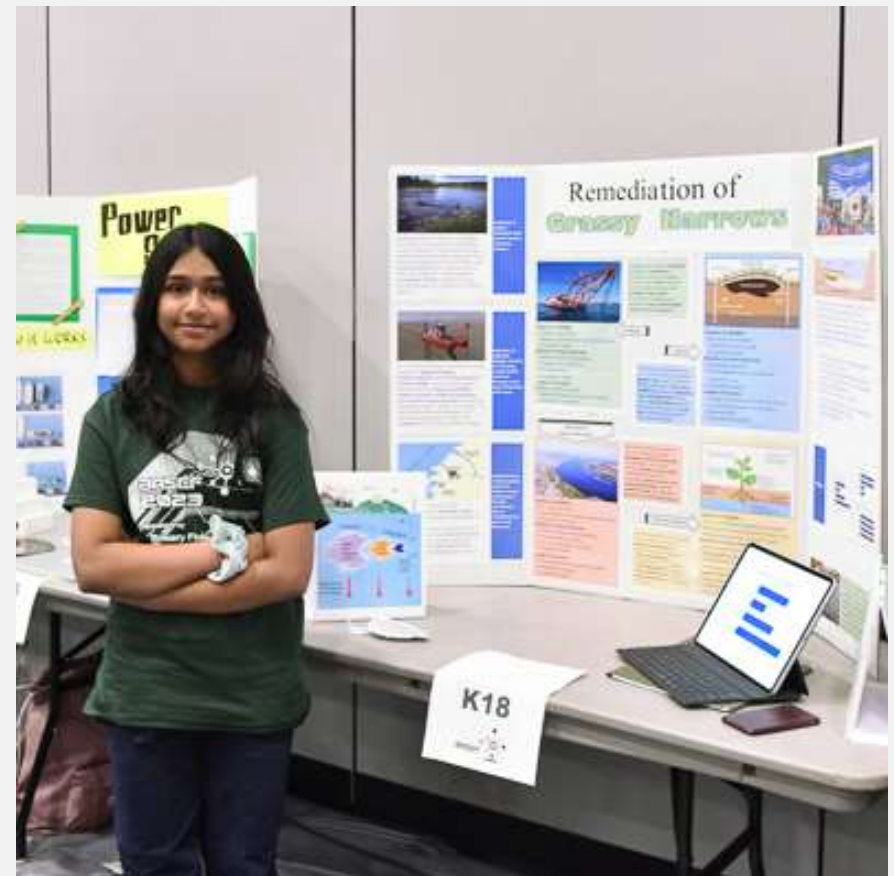
Indigenous Peoples of Canada Scientific Study Award - First

Fiza Mehfil

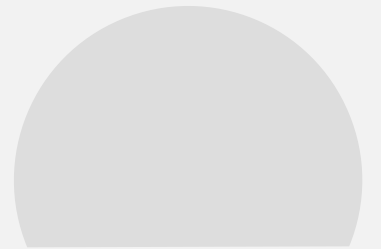
K18

Exploring Mercury Remediation Options for Grassy
Narrows

Sam Sherratt Public School
Milton



IEEE (Institute of Electrical and Electronic Engineers) Hamilton Section Awards



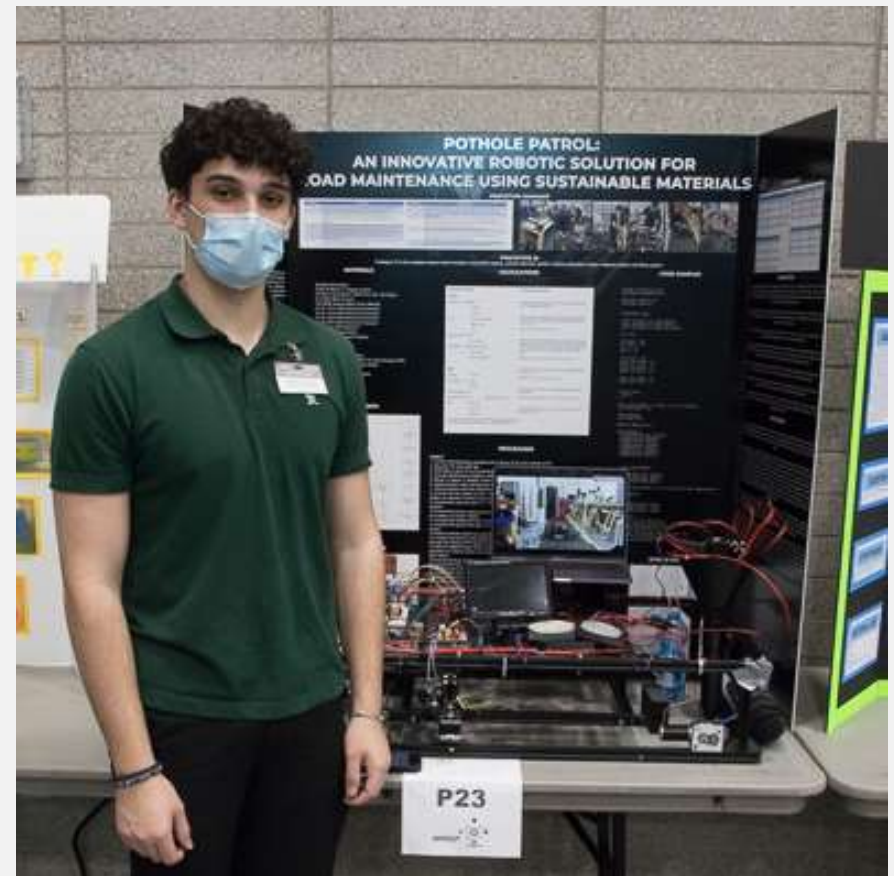
IEEE (Institute of Electrical &
Electronic Engineers) Hamilton
Section Award

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



IEEE (Institute of Electrical & Electronic Engineers) Hamilton Section Award

Jason Bae

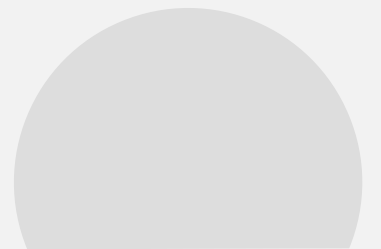
P10

ADHD Treatment: Finding the Effectiveness of Fine Motor Learning on Attention Levels

King's Christian Collegiate
Oakville



International Science & Engineering Affiliated Fair Awards



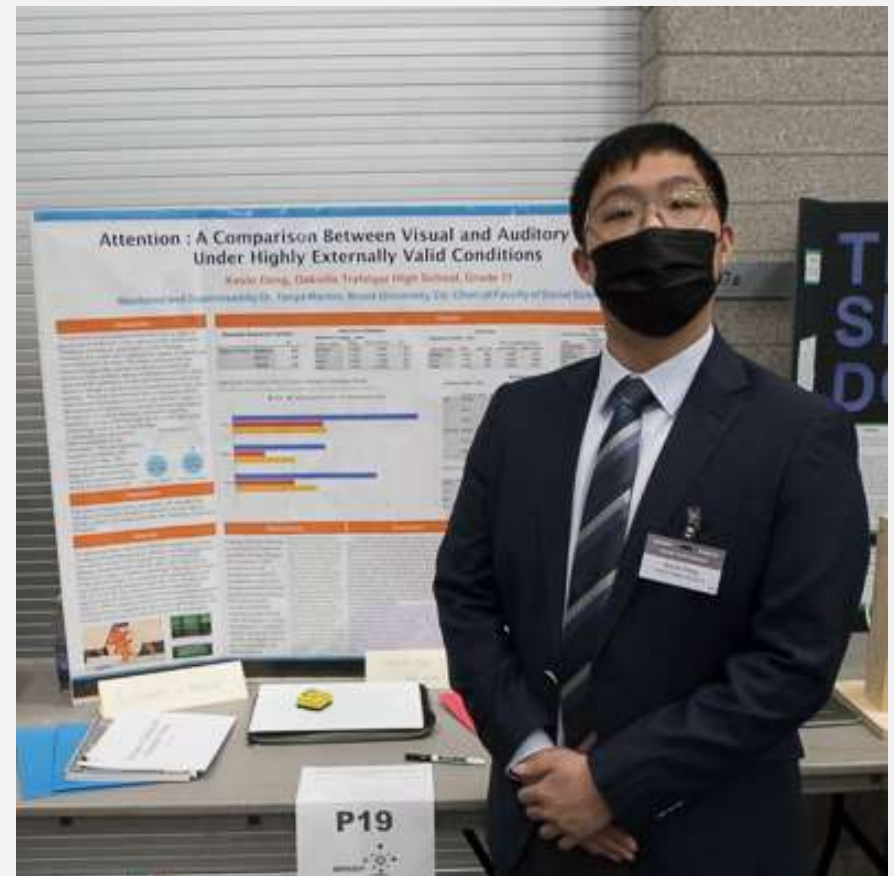
American Psychological Association Award

Kevin Deng

P19

Attention: A Comparison Between Visual and Auditory
Stimuli Under Highly Externally Valid Conditions

Oakville Trafalgar High School
Oakville



The National Geographic That's Geography - Cultivating Empathy for the Earth Award

Zixuan Li

M12

Bionic Squid-inspired Robot Facilitating Underwater
Monitorization and Preservation of Coral Reefs

Ridley College
St. Catharines



Ricoh USA, Inc. Award

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon

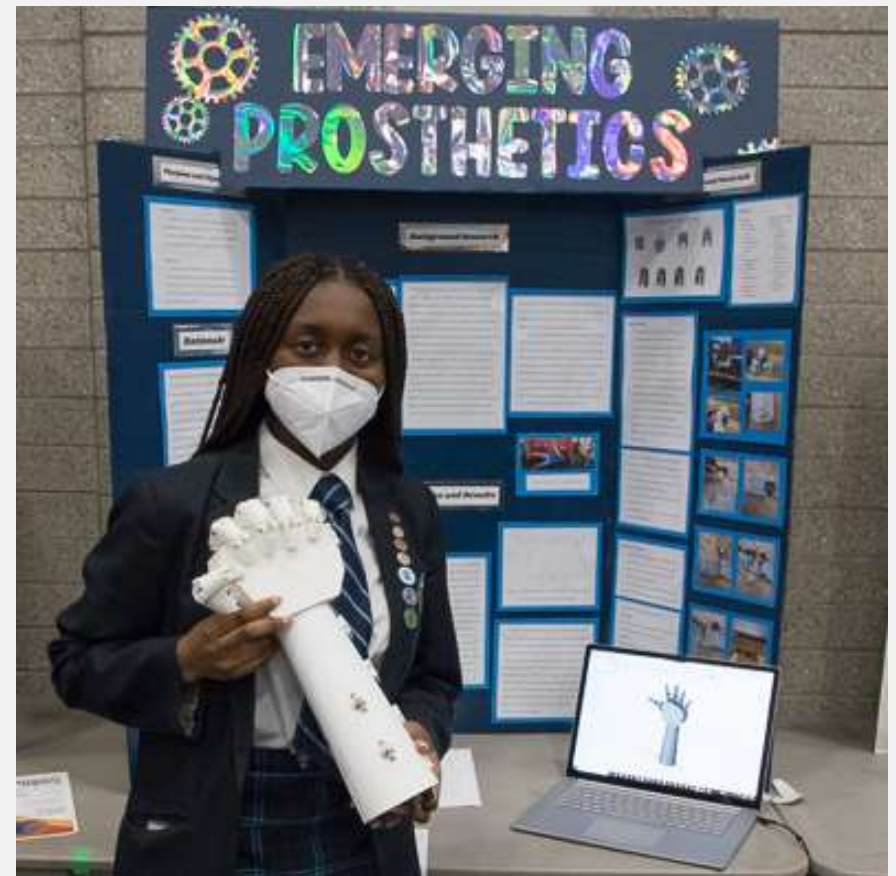


Society for In Vitro Biology Award

Misimi Sanni

P17
Emerging Prosthetics

Appleby College
Oakville



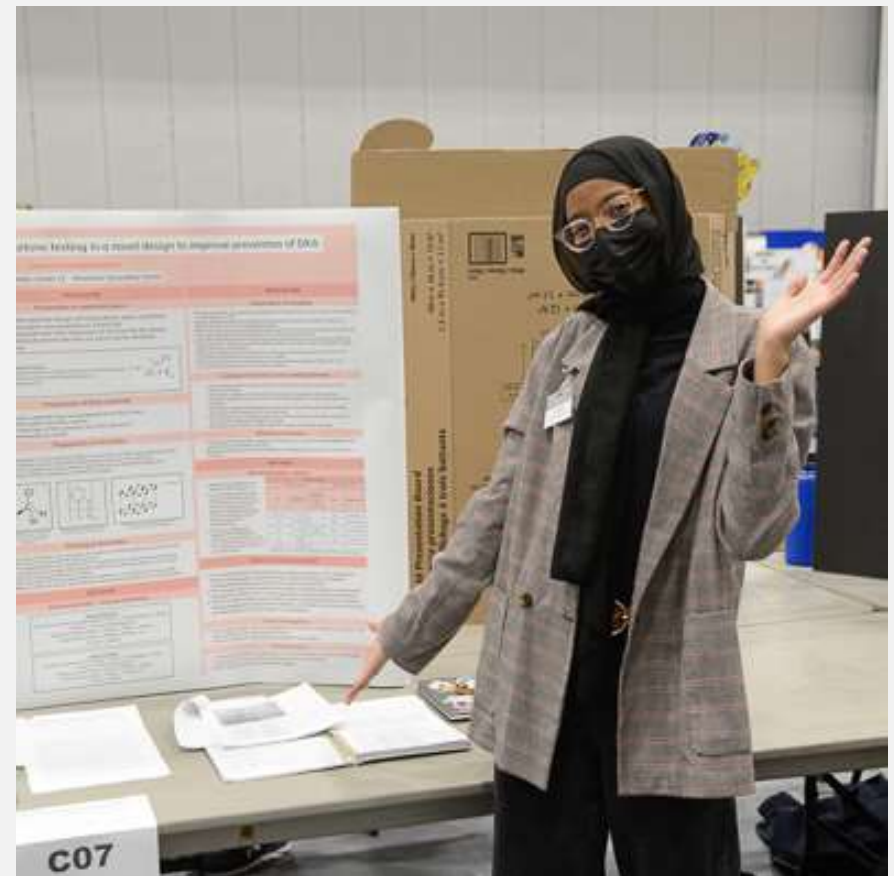
U.S. Agency for International Development (USAID) Award

Isra Bashir

C07

Sugar High! - Integrating glucose and ketone testing in a novel design to improve prevention of DKA

Westdale Secondary School
Hamilton



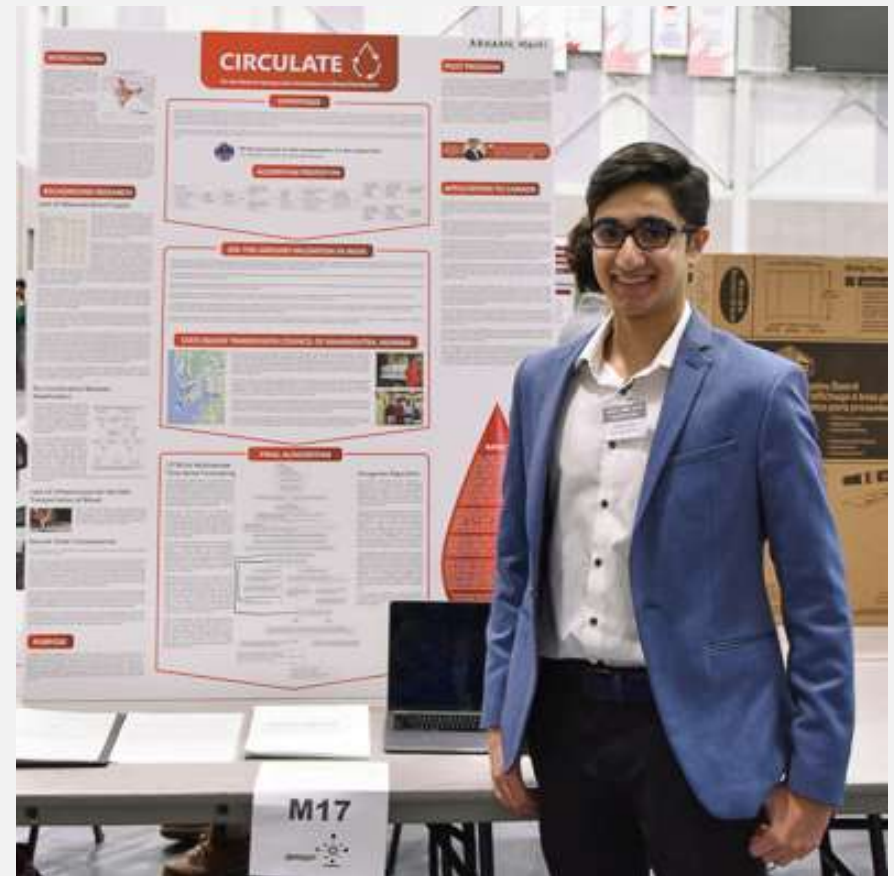
Yale Science & Engineering Association Award

Aahaan Maini

M17

Circulate: Designing an Algorithmic Blood Distribution
System to Tackle the Indian Blood Shortage

Oakville Trafalgar High School
Oakville



Laurentian Chapter of SETAC Awards



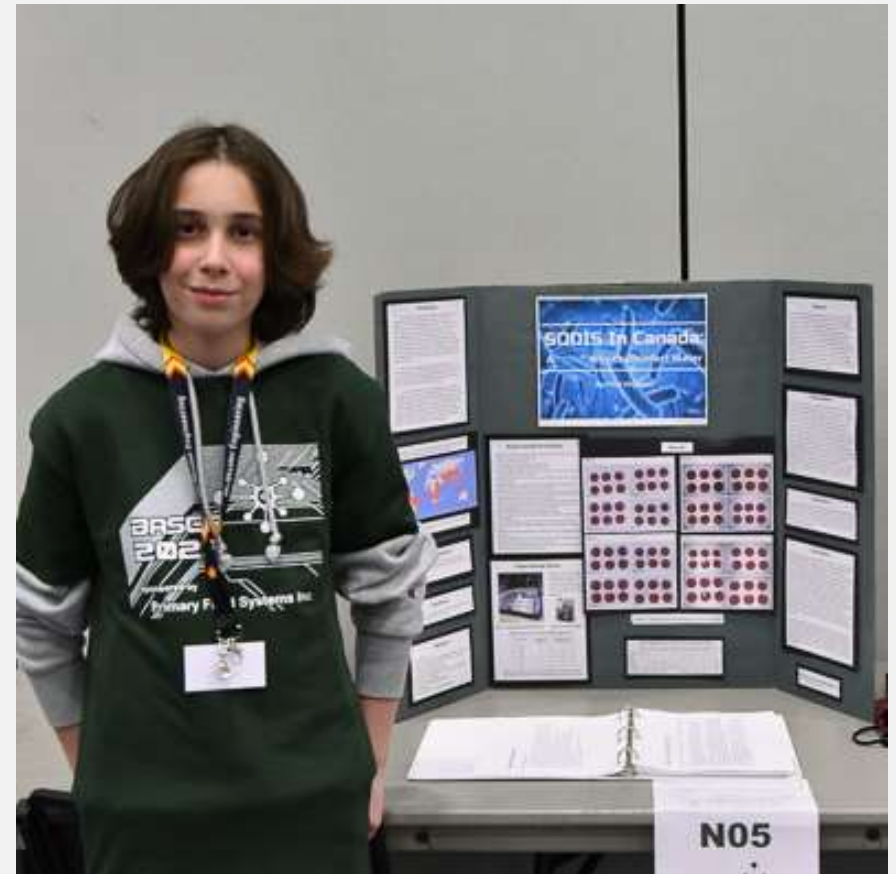
Laurentian Chapter of SETAC Award

Filip Veljkovic

N05

SODIS in Canada: A "Cool" Way to Disinfect Water

Charles R. Beaudoin Public School
Burlington



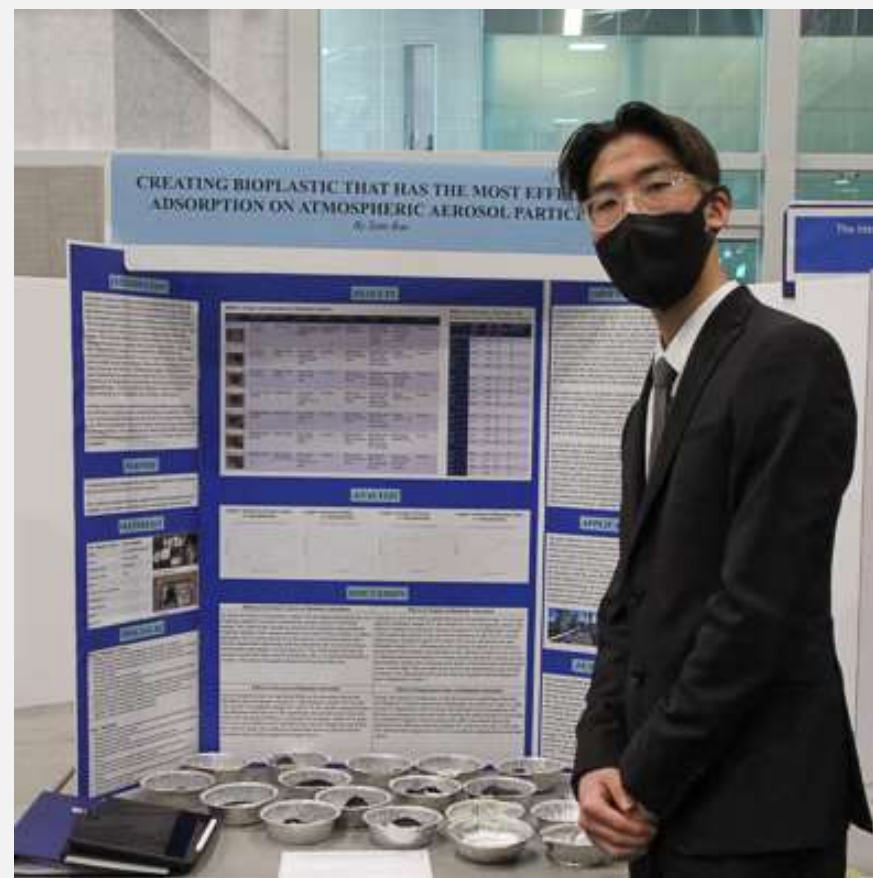
Laurentian Chapter of SETAC Award

Sam Bae

F02

Creating bioplastic that has the most effective adsorption on atmospheric aerosol particles

King's Christian Collegiate
Oakville



Dr. Colin J.L. Lock Memorial Chemistry Award



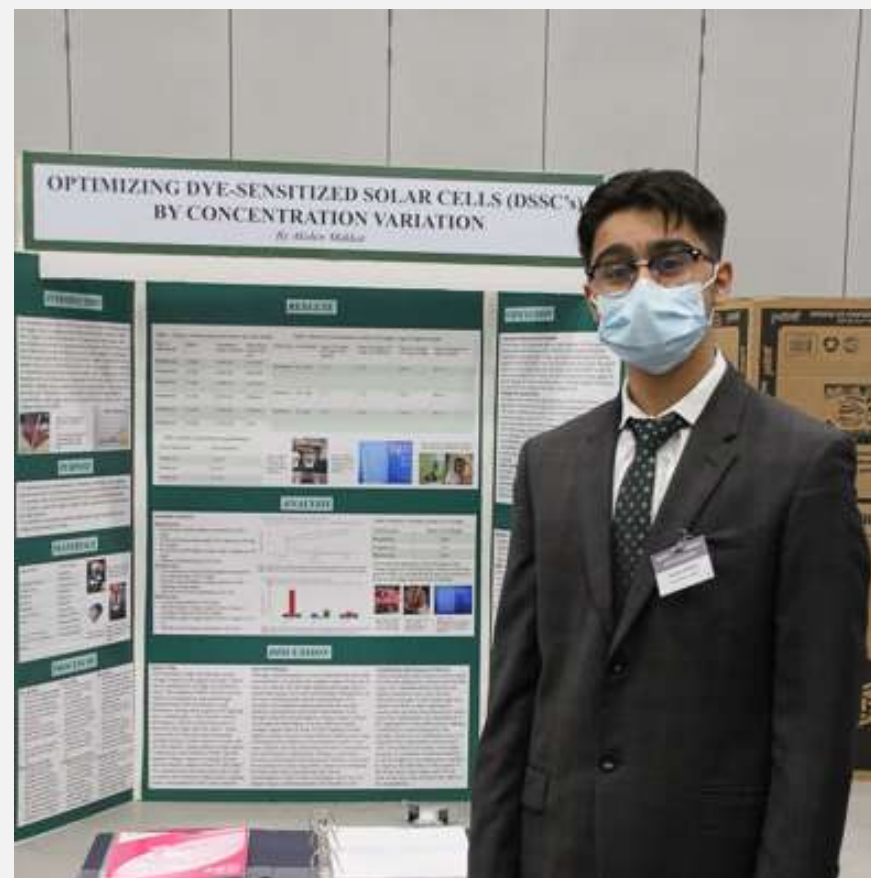
Dr. Colin J.L. Lock Memorial Chemistry Award

Akshin Makkar

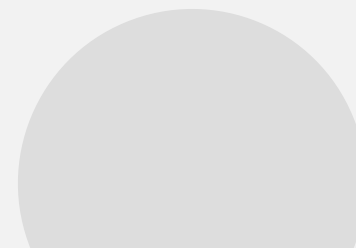
J14

Optimizing Dye-Sensitized Solar Cell's (DSSC's) by
Concentration Variation

King's Christian Collegiate
Oakville



Ola Lunnyk-Child Memorial Health Awards



Ola Lunnyk-Child Memorial Health Science Award - Third

Daniel Lu & Thomas Seoh

C14

Virtual Schooling Impacts on Adolescents' Mental
Health Using the Instrumental Approach of PHQ-A

W. H. Morden Public School
Oakville



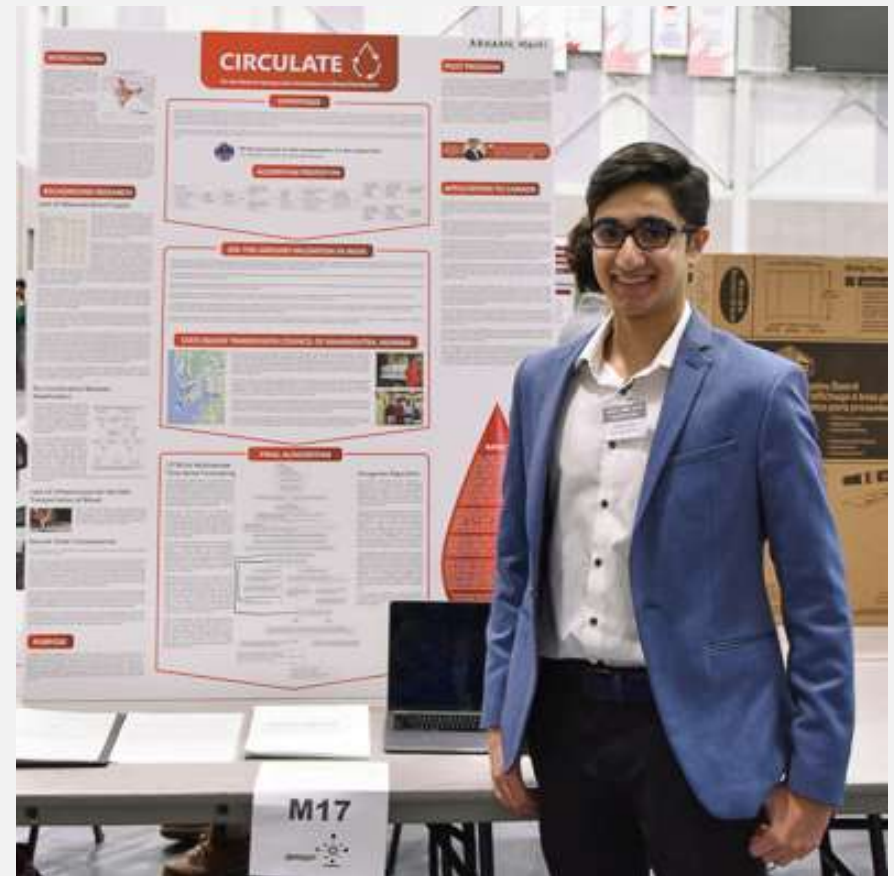
Ola Lunnyk-Child Memorial Health Science Award - Second

Aahaan Maini

M17

Circulate: Designing an Algorithmic Blood Distribution
System to Tackle the Indian Blood Shortage

Oakville Trafalgar High School
Oakville



Ola Lunyk-Child Memorial Health Science Award - First

Anthony Efthimiadis

L16

Development of an AI Convolutional Neural Network
for Diagnostic Screening of Basal Cell Carcinoma

W. H. Morden Public School
Oakville



Mahut-Brent Award for Young People in Science and Engineering



Mahut-Brent Award for Young People in Science and Engineering

Kiera Mitchell

F05

Refining DNA Extraction for Potential Bioplastic Use

Delhi District Secondary School
Delhi



McMaster University Department of Chemistry and Chemical Biology Award



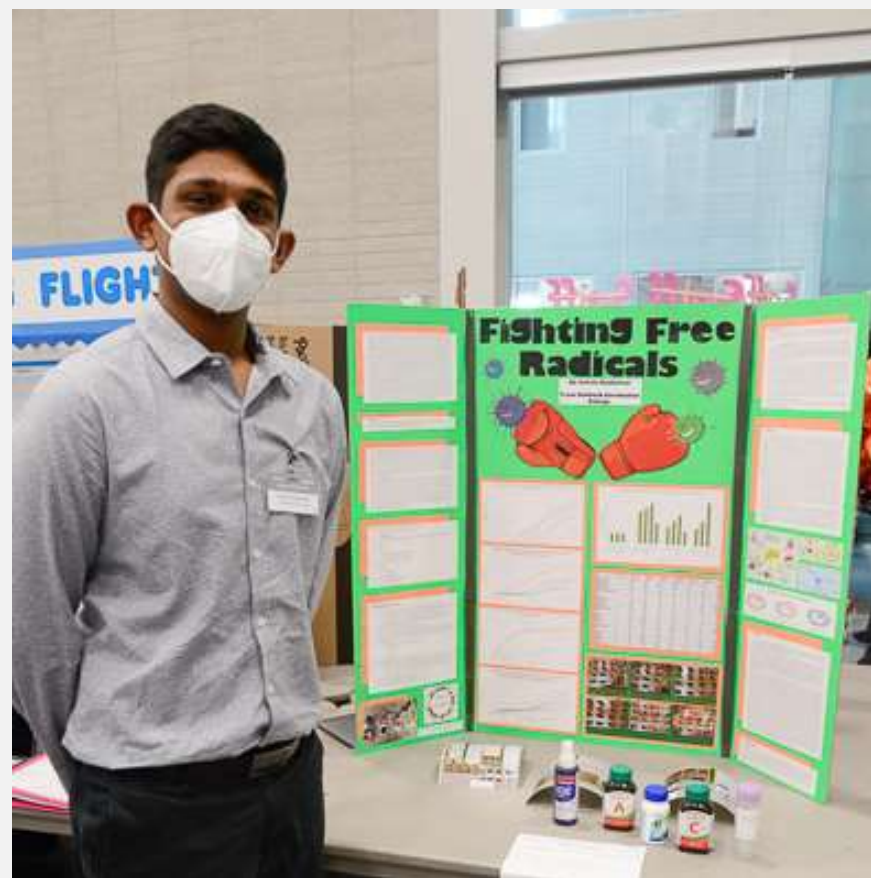
McMaster University Department of
Chemistry and Chemical Biology
Award

Sahith Rajkumar

B02

Fighting Free Radicals: Comparing the Antioxidant
Effects of Vitamins

Hillfield Strathallan College
Hamilton



McMaster University Department of Chemical Engineering



McMaster Department of Chemical Engineering Award

Sam Bae

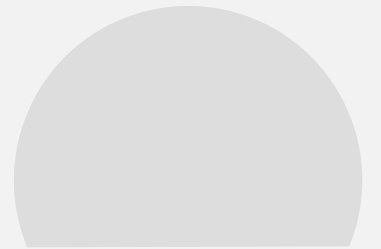
F02

Creating bioplastic that has the most effective
adsorption on atmospheric aerosol particles

King's Christian Collegiate
Oakville



McMaster University Faculty of Engineering Entrance Awards



McMaster University Faculty of Engineering Entrance Award

Caitlin Phillips

K03
ASL Digital Interpreter

North Park Collegiate and Vocational School
Brantford



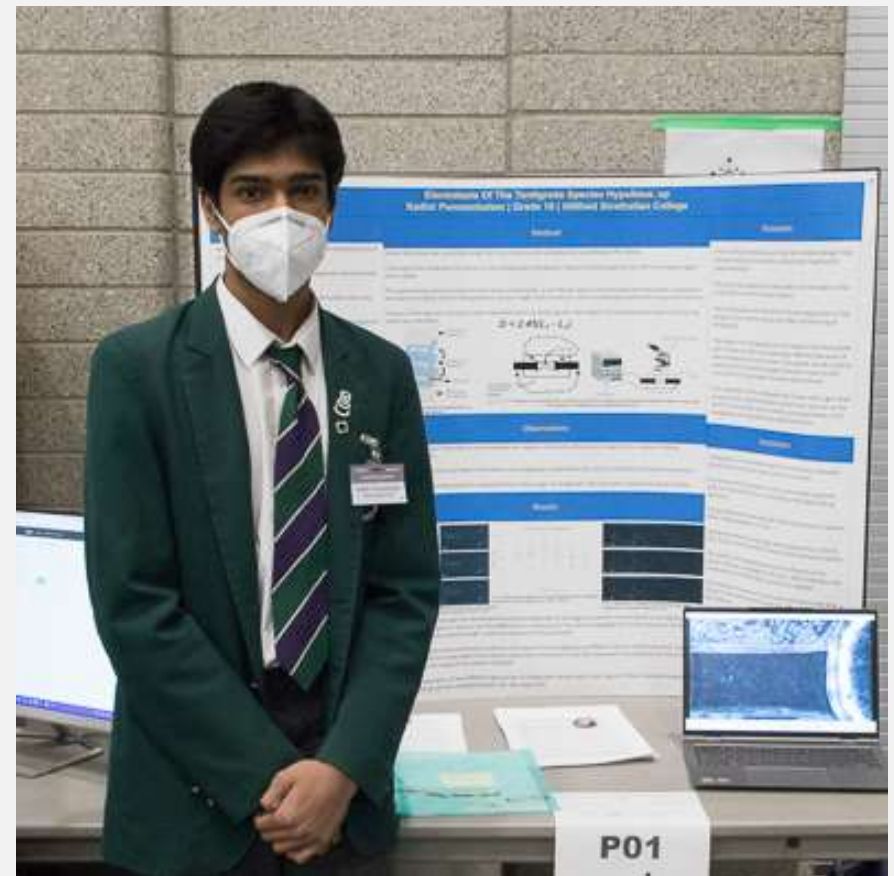
McMaster University Faculty of Engineering Entrance Award

Kadhir Ponnambalam

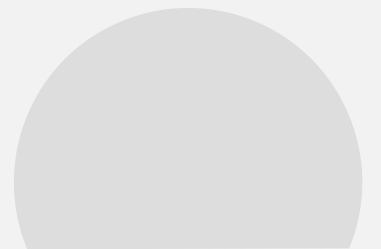
P01

Electrotaxis Of The Tardigrade Species *Hypsibius. sp*

Hillfield Strathallan College
Hamilton



McMaster University School of Geography and Earth Sciences Awards



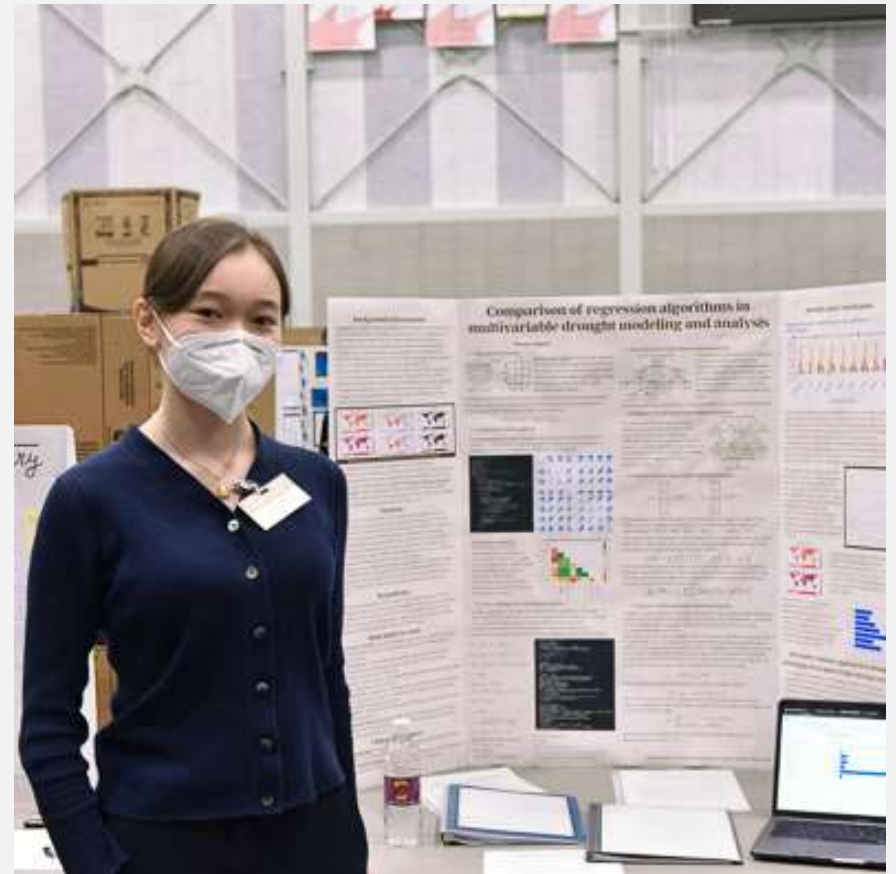
Earth and Environmental Sciences Award

Maria Chzhen

K09

Comparison of regression algorithms for multivariable
drought analysis

Westdale Secondary School
Hamilton



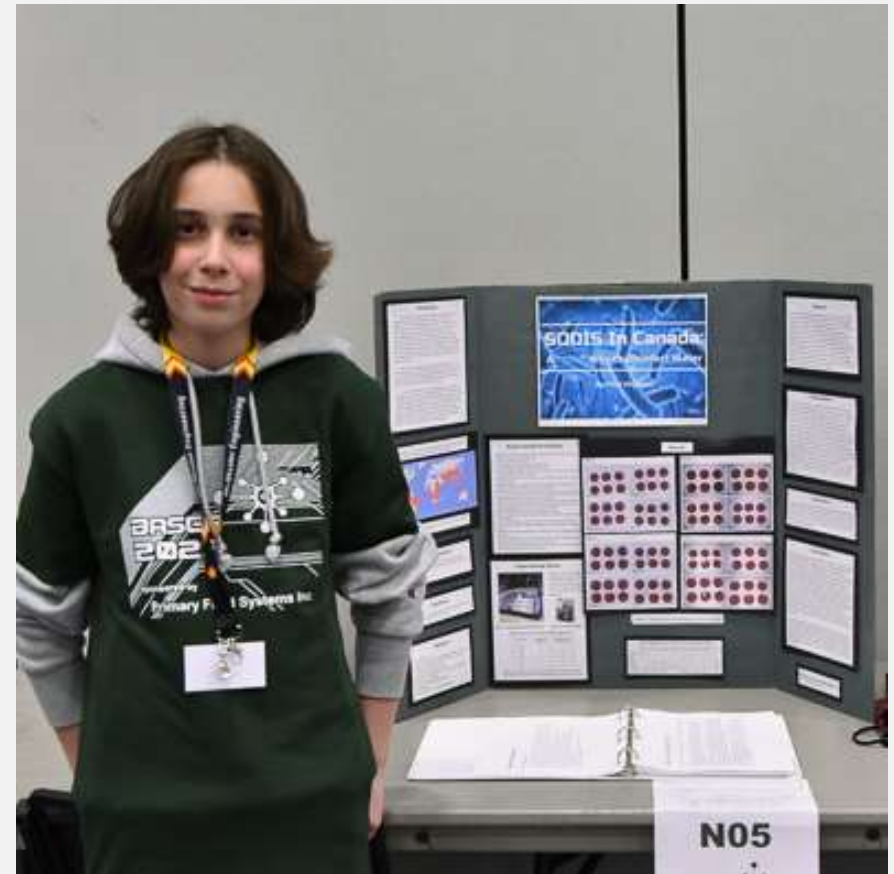
Geography Award

Filip Veljkovic

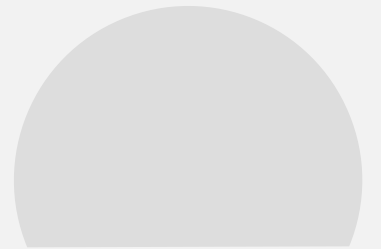
N05

SODIS in Canada: A "Cool" Way to Disinfect Water

Charles R. Beaudoin Public School
Burlington



Mechanical Contractors Association Hamilton Niagara Award



Mechanical Contractors Association Hamilton Niagara Award

Anthony Saturnino

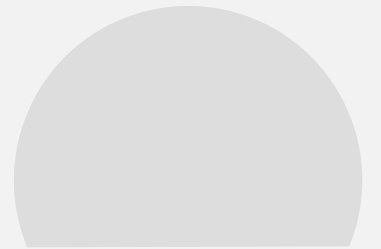
P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



Mohawk College Building & Construction Sciences Awards



Mohawk College Building & Construction Sciences Awards - Civil Engineering

Abhay Sharma & Nehan Khan

P08

Optimal Materials for a Wind Turbine

Dr. David R Williams
Oakville



Mohawk College Building & Construction Sciences Awards - Transportation Engineering

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



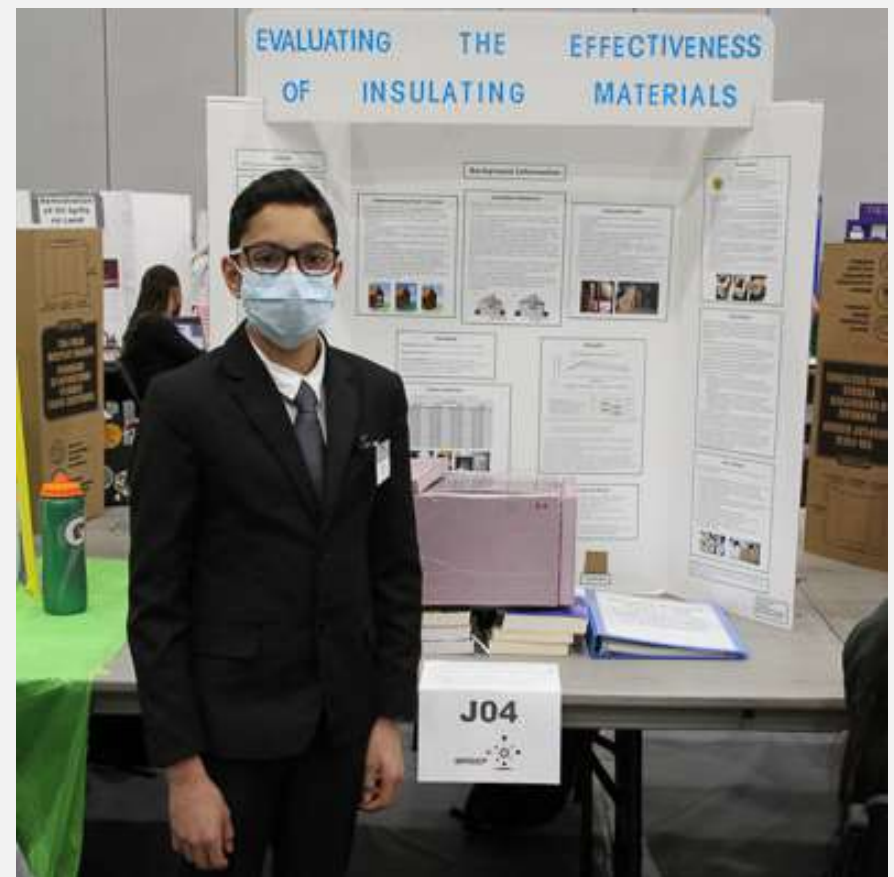
Mohawk College Building & Construction Sciences Awards - Building Sciences

Eesa Latif

J04

Investigating the Effectiveness of Insulation

Al-Falah Islamic School
Oakville



Mohawk College Electrical Engineering Technology Awards



Mohawk College Electrotechnology - Computer Engineering Technology Award

Zixuan Li

M12

Bionic Squid-inspired Robot Facilitating Underwater
Monitorization and Preservation of Coral Reefs

Ridley College
St. Catharines



Mohawk College Electrotechnology - Electrical Engineering Award

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



Mohawk College Electrotechnology - Energy Systems Award

Jason Bae

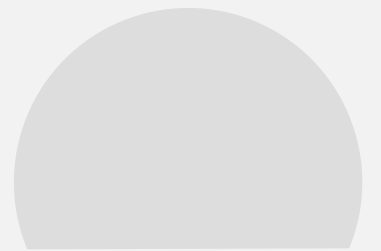
P10

ADHD Treatment: Finding the Effectiveness of Fine
Motor Learning on Attention Levels

King's Christian Collegiate
Oakville



Mohawk College Mathematics Awards



Mohawk College Mathematics Awards - Junior

Maya Parachin

G07

THE FRYTASTIC FRY FIT

Oakville Christian School
Oakville



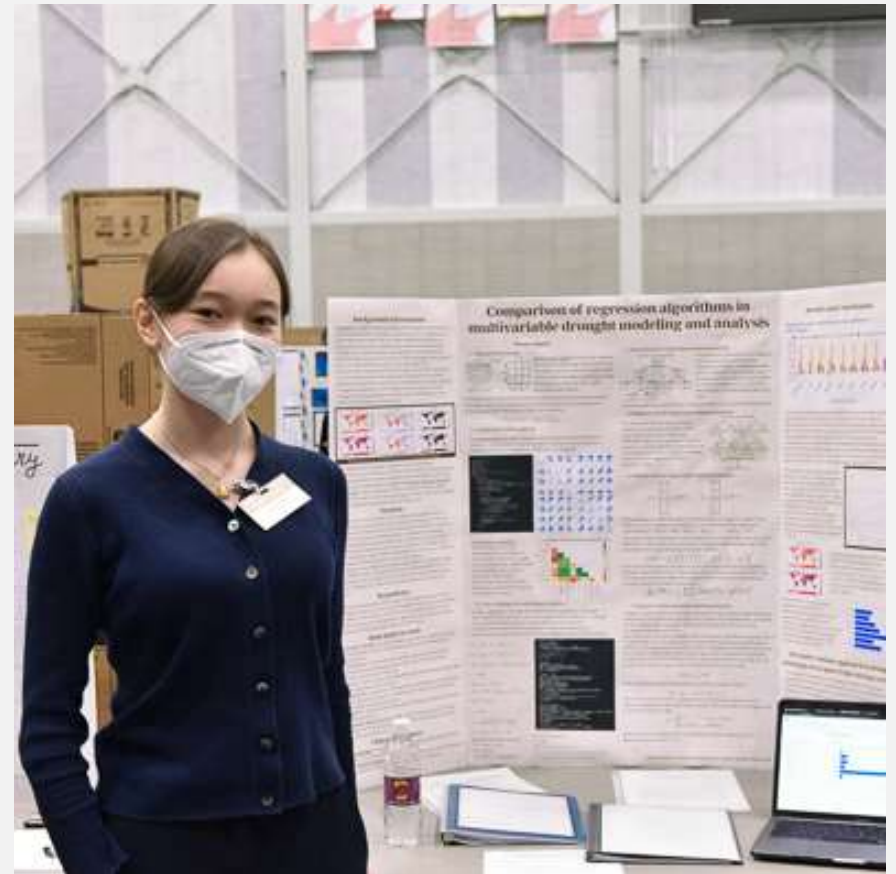
Mohawk College Mathematics Awards - Senior

Maria Chzhen

K09

Comparison of regression algorithms for multivariable
drought analysis

Westdale Secondary School
Hamilton



Mohawk College Computer Science & Information Technology Excellence Awards



Mohawk College Computer Science & Information Technology Excellence Award

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



Mohawk College Computer Science & Information Technology Excellence Award

Rohan Tuli

K04

Using YOLO Object Detection To Allow Self-Driving
Cars to See

Oakville Trafalgar High School
Oakville



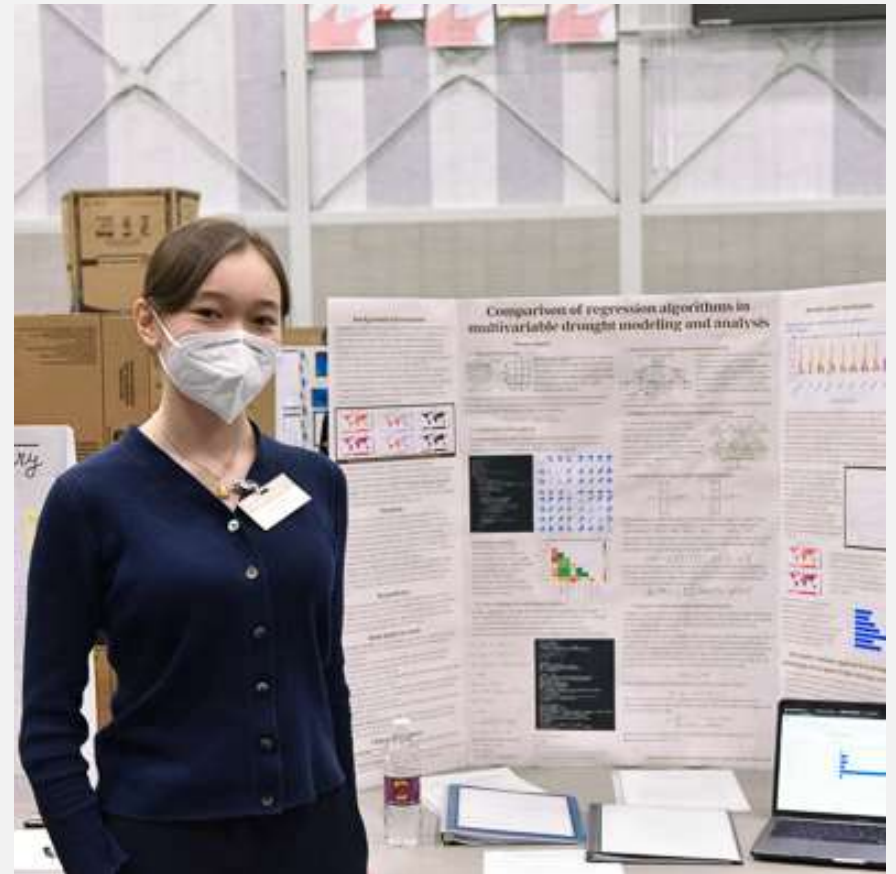
Mohawk College Computer Science & Information Technology Excellence Award

Maria Chzhen

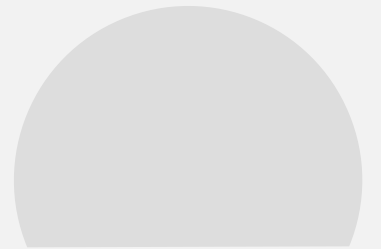
K09

Comparison of regression algorithms for multivariable
drought analysis

Westdale Secondary School
Hamilton



Nelson Steel Awards



Nelson Steel Award

Daniel Mansour

H06

What Substance Removes Rust The Best

Al-Falah Islamic School
Oakville



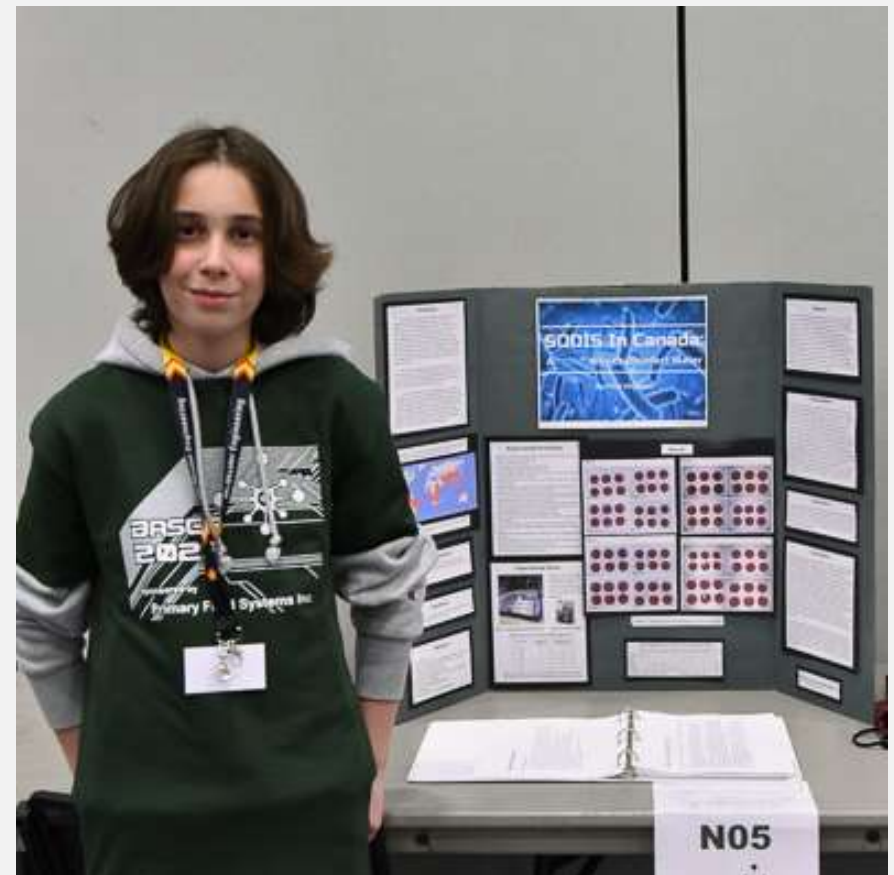
Nelson Steel Award

Filip Veljkovic

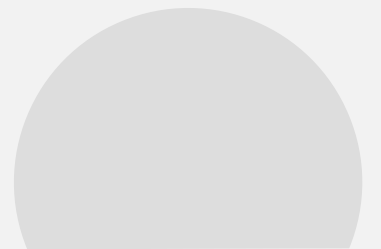
N05

SODIS in Canada: A "Cool" Way to Disinfect Water

Charles R. Beaudoin Public School
Burlington



New Health Scientist Award



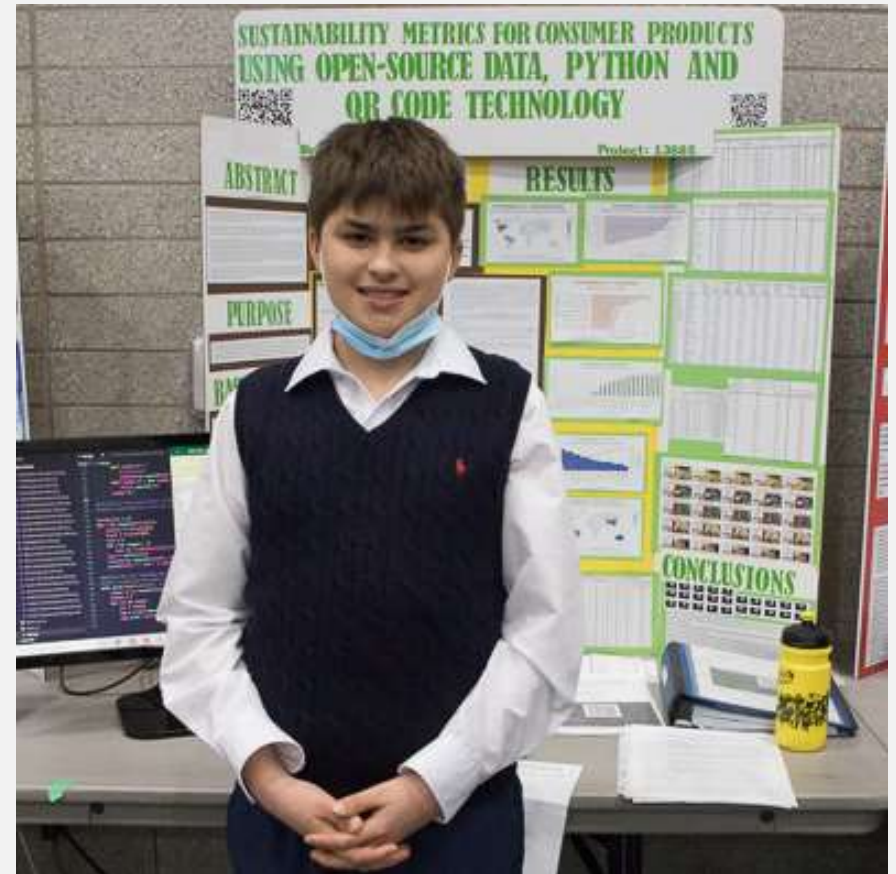
New Health Scientist Award

Jacob LeBlanc

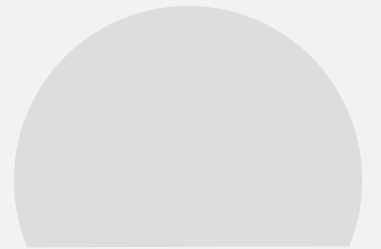
P11

Sustainability Metrics For Consumer Products Using
Open Source Data, Python and QR Code Technology

Pilgrim Wood Public School
Oakville



Nikola Tesla Innovation Awards

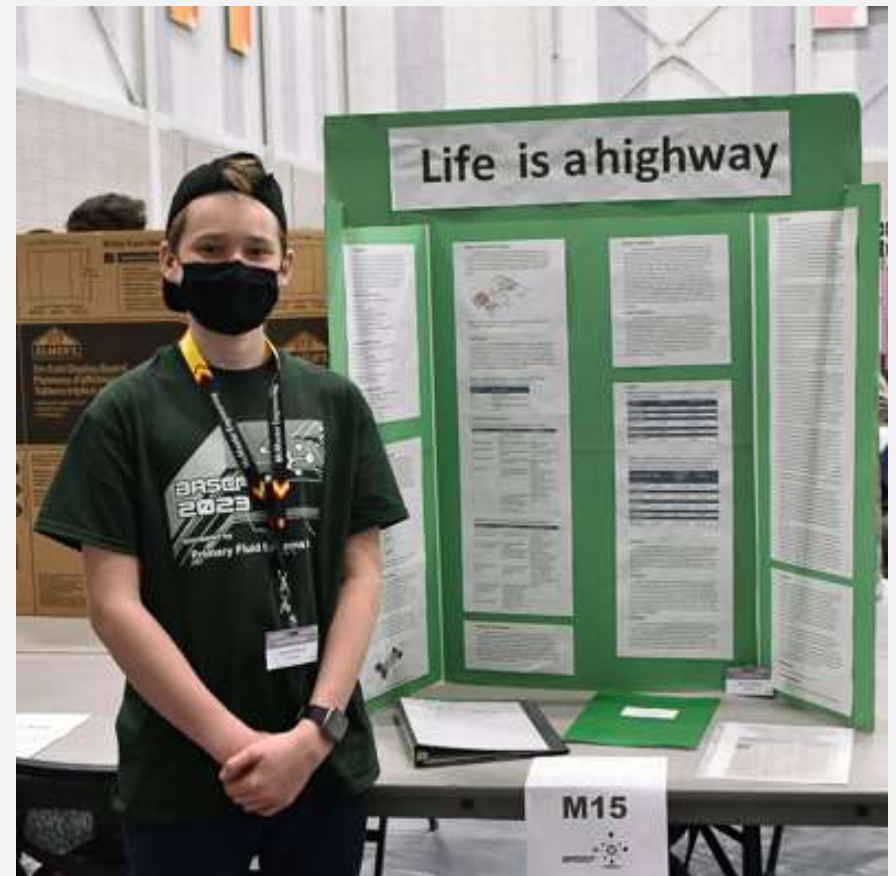


Nikola Tesla Innovation Award -
Bronze

Jacob Feltham & Evan Cushing

M15
Life is a Highway

St. Augustine
Dundas



Nikola Tesla Innovation Award - Silver

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



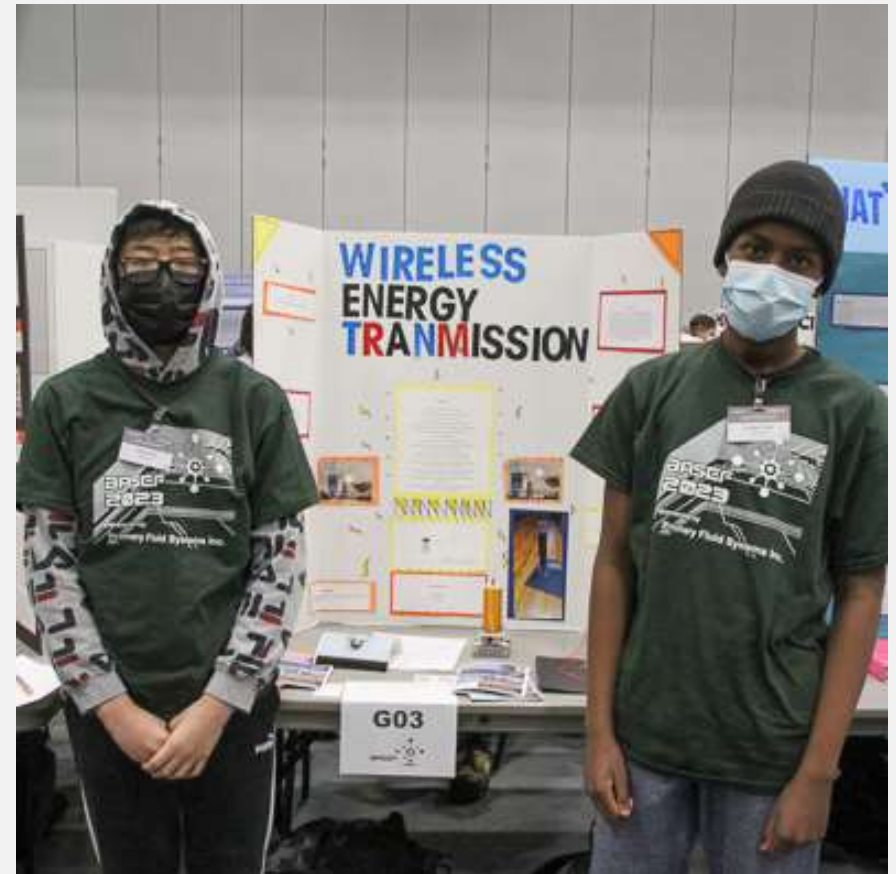
Nikola Tesla Innovation Award - Gold

Farhan Noor & Ethan Mai

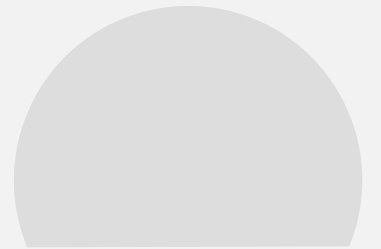
G03

Wireless Energy Transfer Using a Tesla Coil

Cathy Wever
Hamilton



Procor Engineering Awards



Procor Engineering Award - Junior

Evan Budz & Colin Cameron

N17

ePills – Set it and Forget it!

Charles R. Beaudoin Public School
Burlington



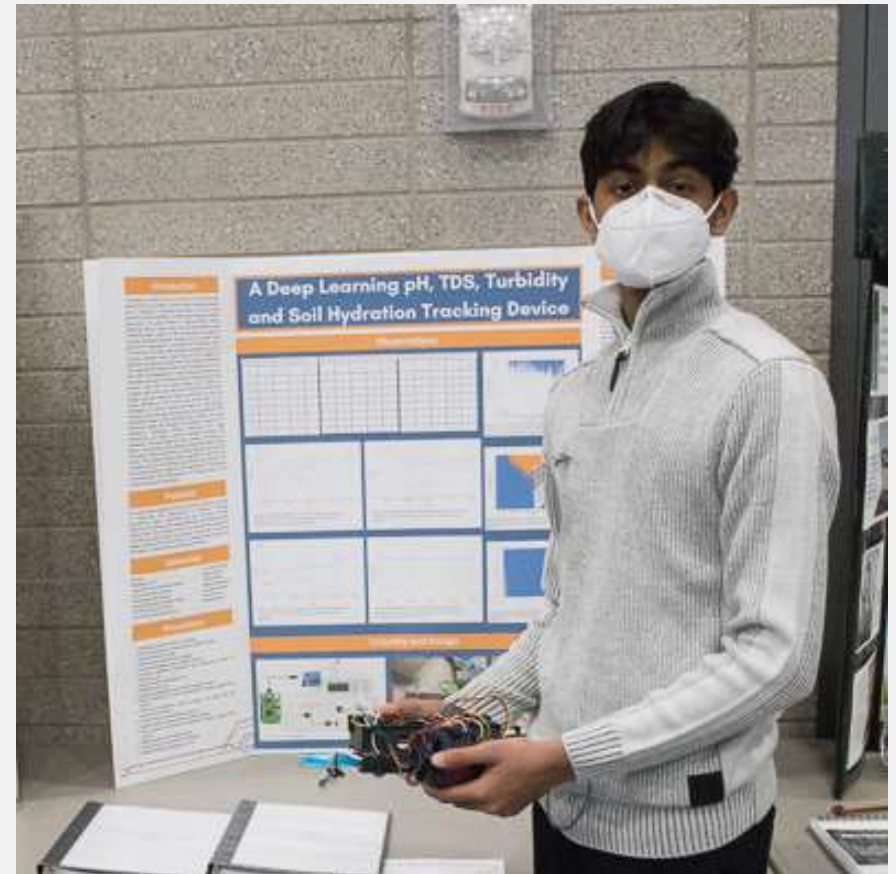
Procor Engineering Award - Intermediate

Anish Rathod

P05

A Deep Learning (Multi-Layer Perceptron) Soil
Hydration, pH, TDS, and Turbidity Tracking Device

Burlington Central High School
Burlington



Procor Engineering Award - Senior

Anthony Saturnino

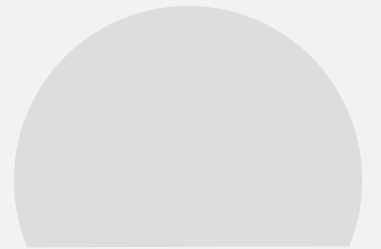
P23

Pothole Patrol: An Innovative Robotic Solution for Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



Professional Engineers Ontario - Oakville Chapter Awards



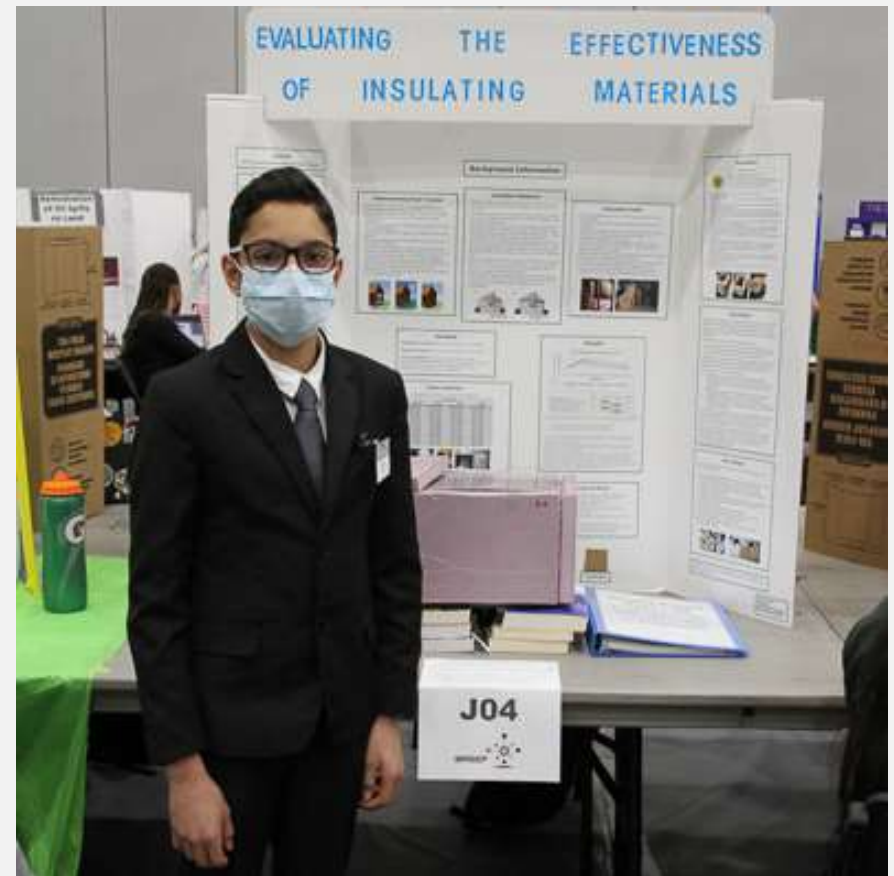
Professional Engineers of Ontario -
Oakville Chapter Engineering Award -
Junior

Eesa Latif

J04

Investigating the Effectiveness of Insulation

Al-Falah Islamic School
Oakville



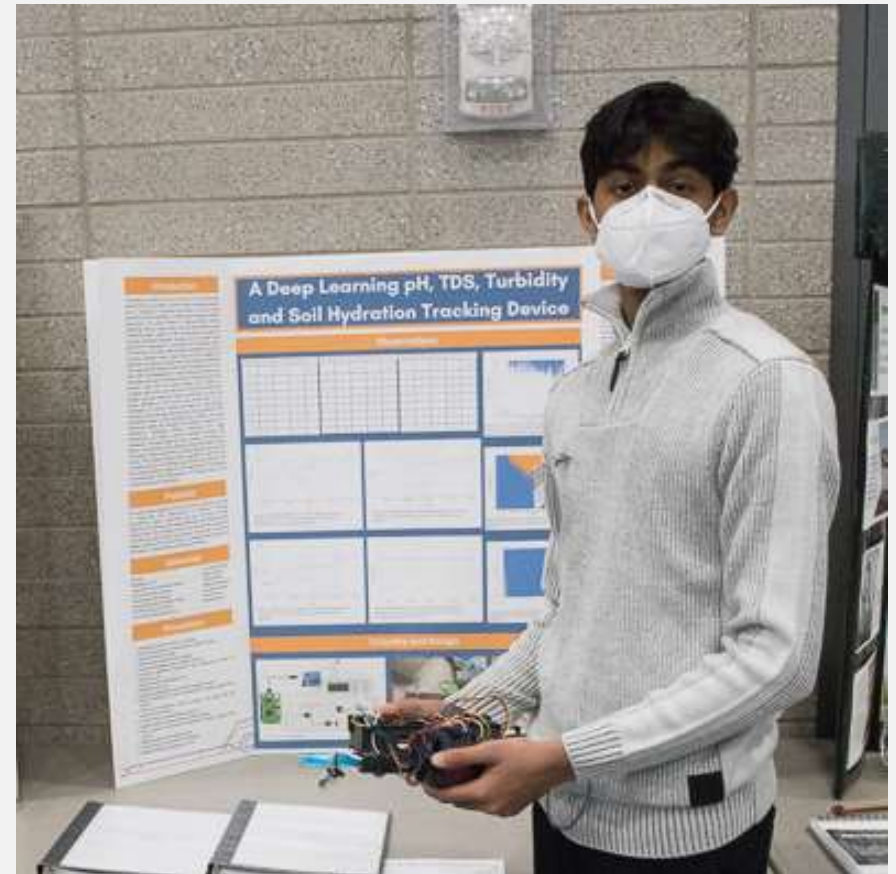
Professional Engineers of Ontario - Oakville Chapter Engineering Award - Intermedia

Anish Rathod

P05

A Deep Learning (Multi-Layer Perceptron) Soil
Hydration, pH, TDS, and Turbidity Tracking Device

Burlington Central High School
Burlington



Professional Engineers of Ontario -
Oakville Chapter Engineering Award -
Senior

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



The Research Institute of St. Joe's Hamilton, Health Research Awards



The Research Institute of St. Joe's
Hamilton, Health Research Junior
Award

Andrea Faber

D05
Bring Back the Memories

Trinity Christian School
Burlinton



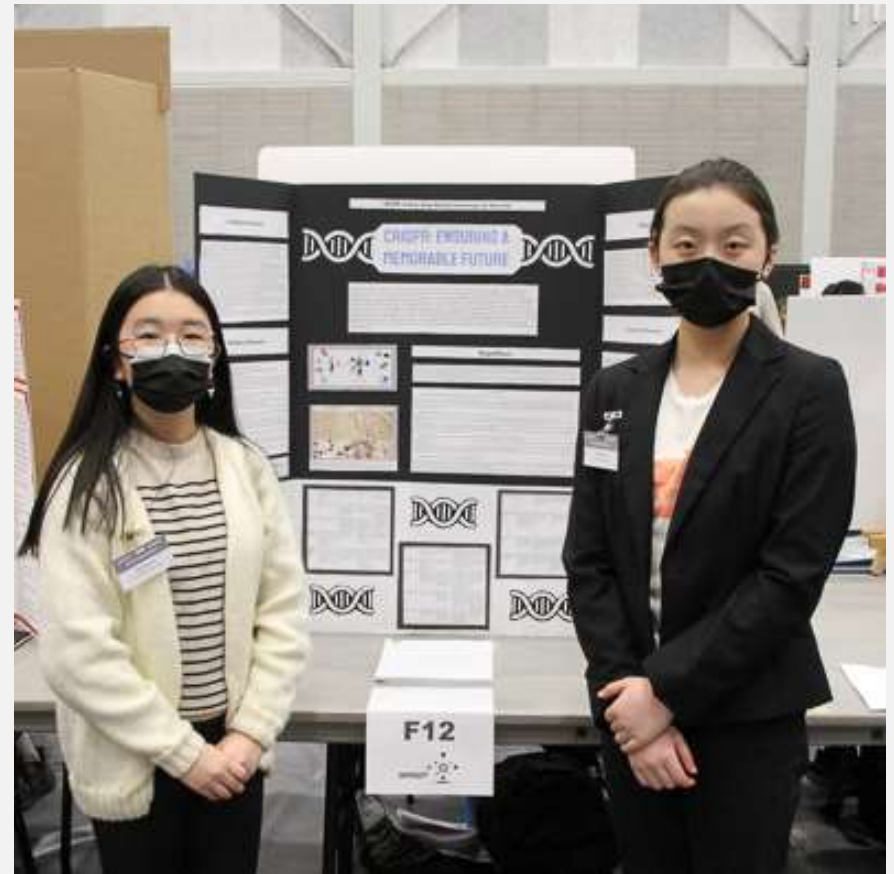
The Research Institute of St. Joe's
Hamilton, Health Research Junior
Award

Siqi Tan & Yuewen Li

F12

CRISPR: Ensuring a Memorable Future

W. H. Morden Public School
Oakville



The Research Institute of St. Joe's
Hamilton, Health Research
Intermediate Award

Claire Marsh

D07

Wearable Early Stroke Detection Device Using
Electroencephalography

M. M. Robinson High School
Burlington



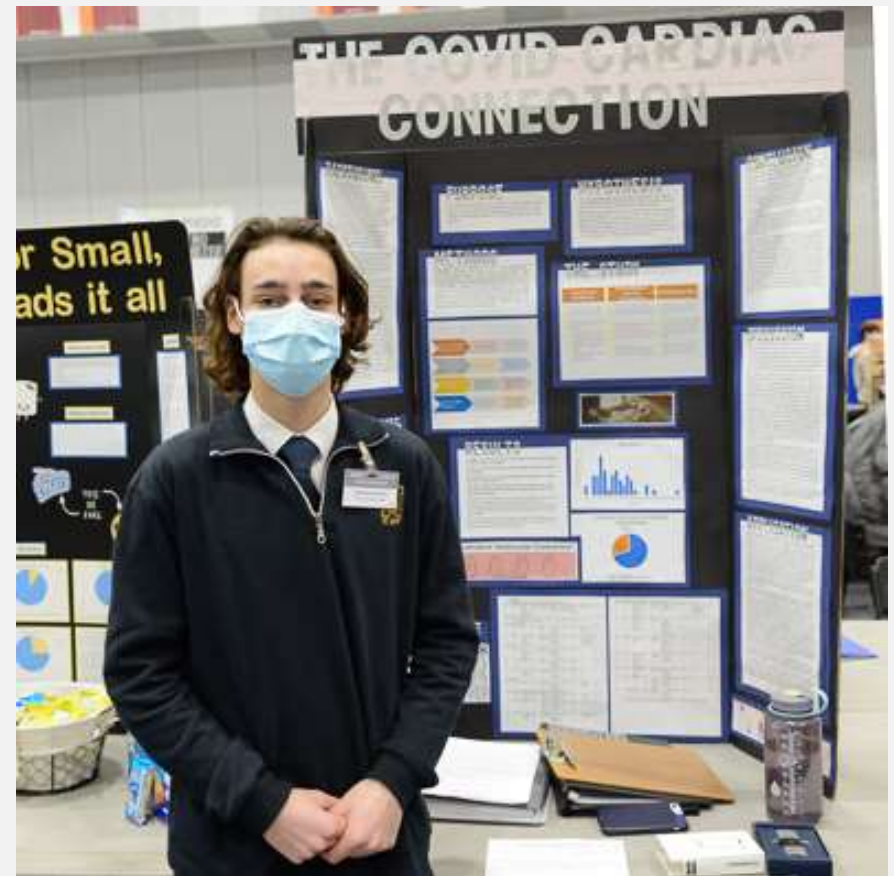
The Research Institute of St. Joe's
Hamilton, Health Research
Intermediate Award

Nicholas Pacifici

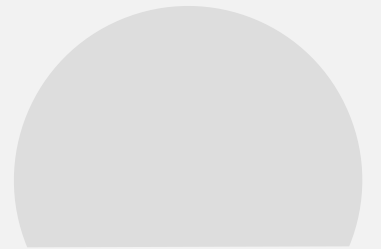
E13

The COVID Cardiac Connection: A Novel Pre-
participation Screening Tool

St. Mary Secondary School
Hamilton



Rotary Club of Hamilton Stoney Creek Awards



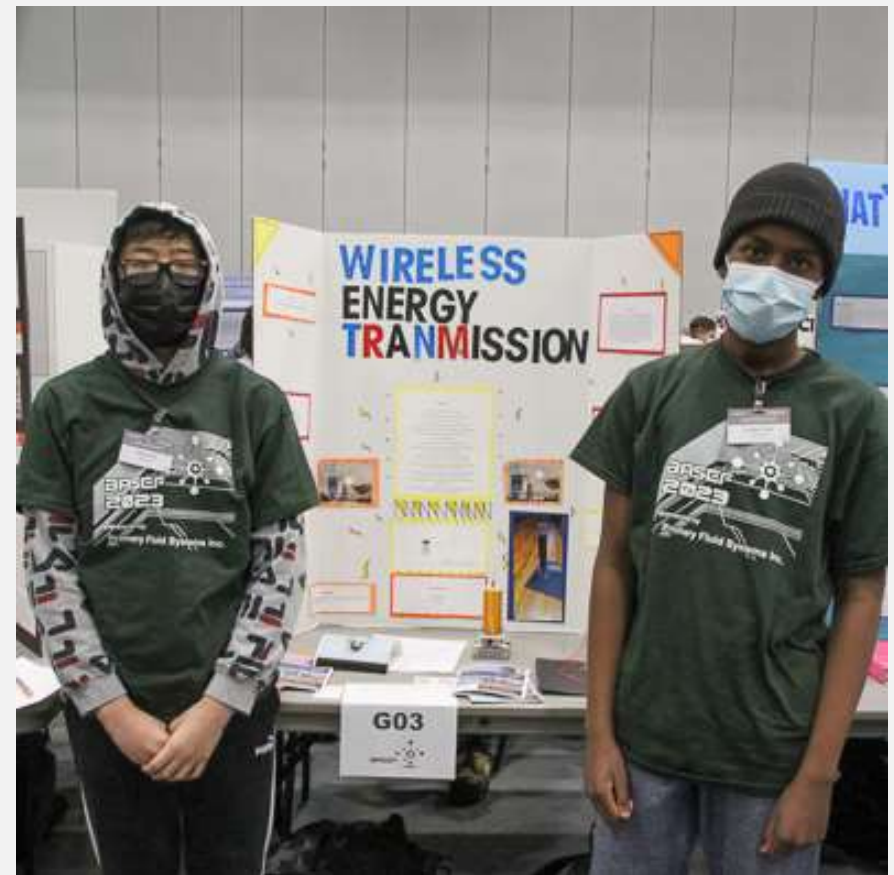
Rotary Club of Hamilton Stoney
Creek Award - Third

Farhan Noor & Ethan Mai

G03

Wireless Energy Transfer Using a Tesla Coil

Cathy Wever
Hamilton

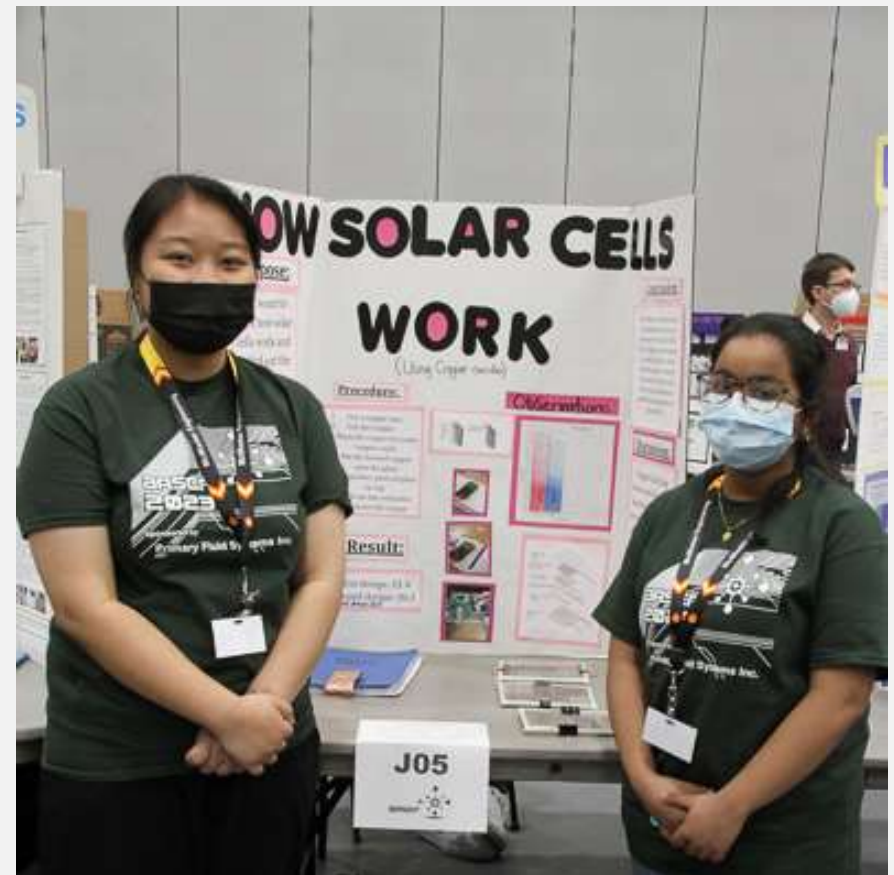


Rotary Club of Hamilton Stoney Creek Award - Second

Eh Ku Ku Soe Eh Ku Ku Soe & Syeda Aadina

J05
How Solar Panels Work

Cathy Wever
Hamilton



Rotary Club of Hamilton Stoney
Creek Award - First

Hanniel Ndibmun

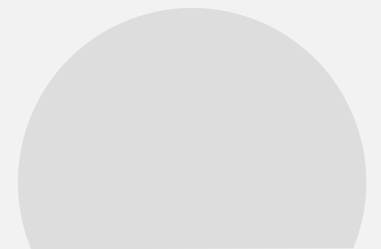
H10

Electrophoresis and Chromatography

Cathy Wever
Hamilton



Royal Botanical Gardens Award



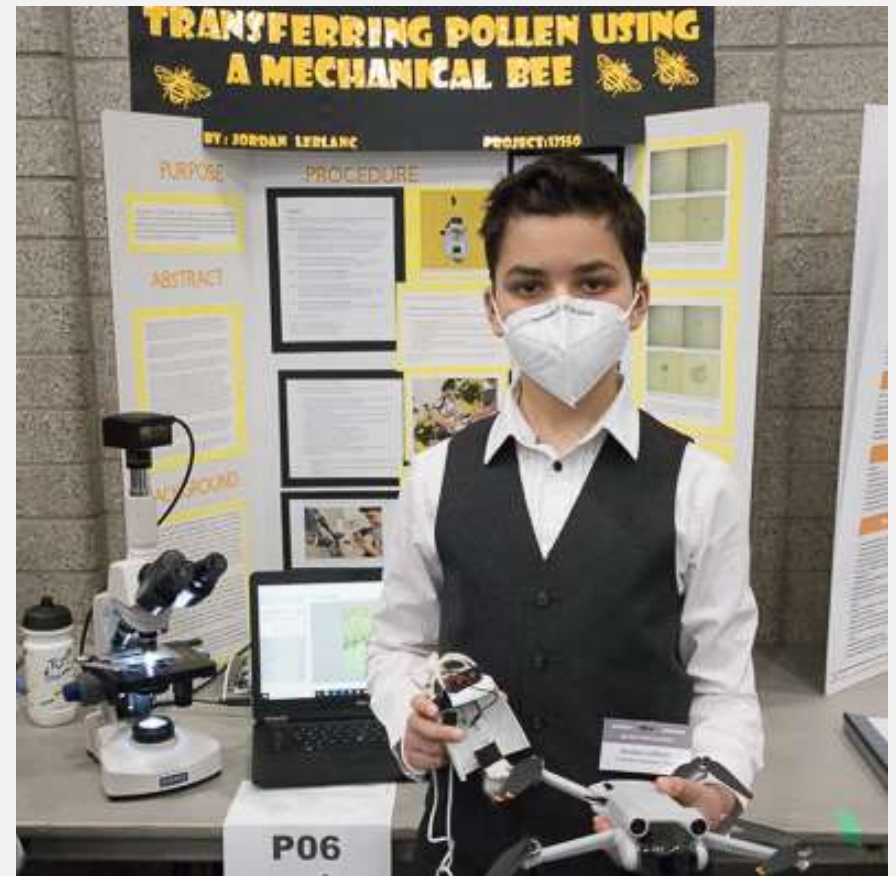
Royal Botanical Gardens Award

Jordan LeBlanc

P06

Transferring Pollen Using a Mechanical Bee

St. Matthew Elementary School
Oakville



Sanofi Biogenius Canada Award



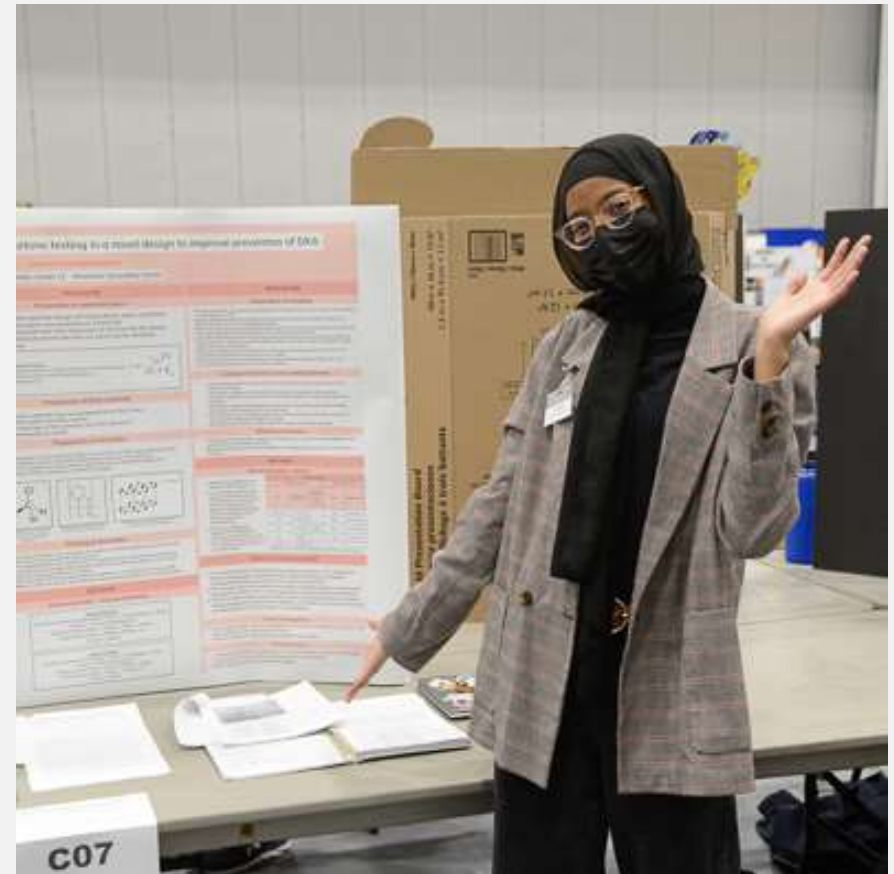
Sanofi Biogenius Canada Award

Isra Bashir

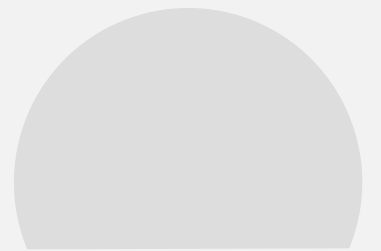
C07

Sugar High! - Integrating glucose and ketone testing
in a novel design to improve prevention of DKA

Westdale Secondary School
Hamilton



Dr. Nicola Simmons Award in Cognition Studies



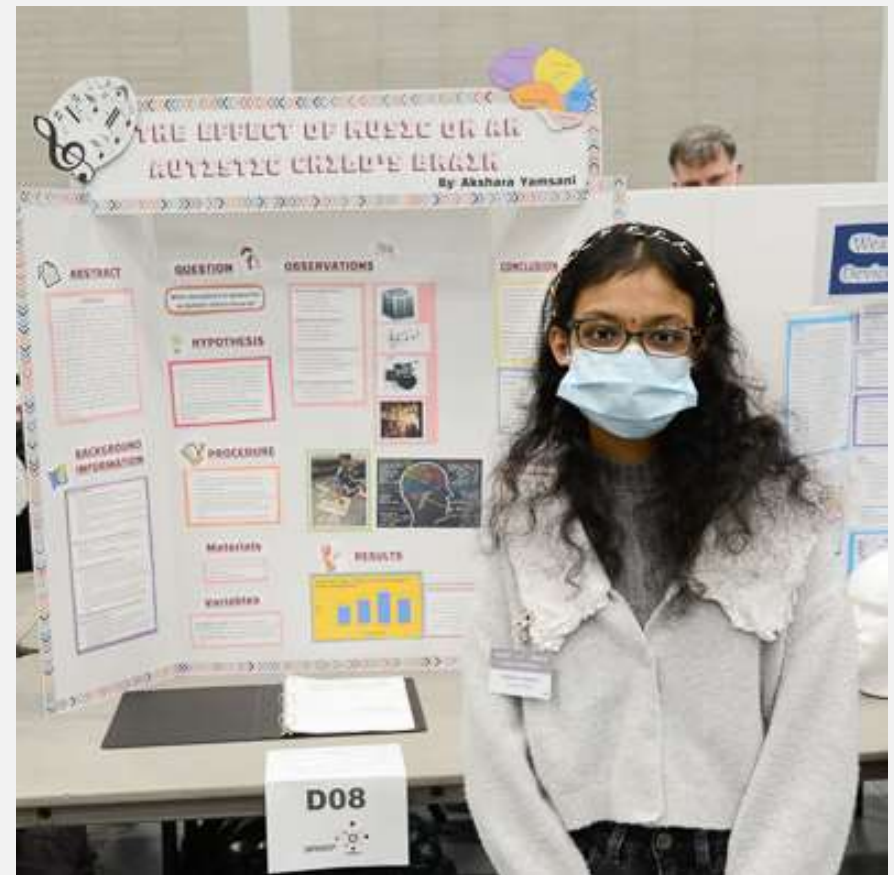
Dr. Nicola Simmons Award in Cognition Studies

Akshara Yamsani

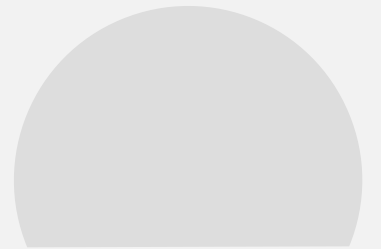
D08

Optimal Ambient Conditions for ASD Spectrum
Concentration

Dr. David R Williams
Oakville



Society of Tribologists & Lubrication Engineers - Hamilton Section Awards



STLE Tribology/Friction Reduction Award

Jamee Dawson & Katelyn Gouthro

G16

How Does Temperature Affect Viscosity?

Highview
Hamilton



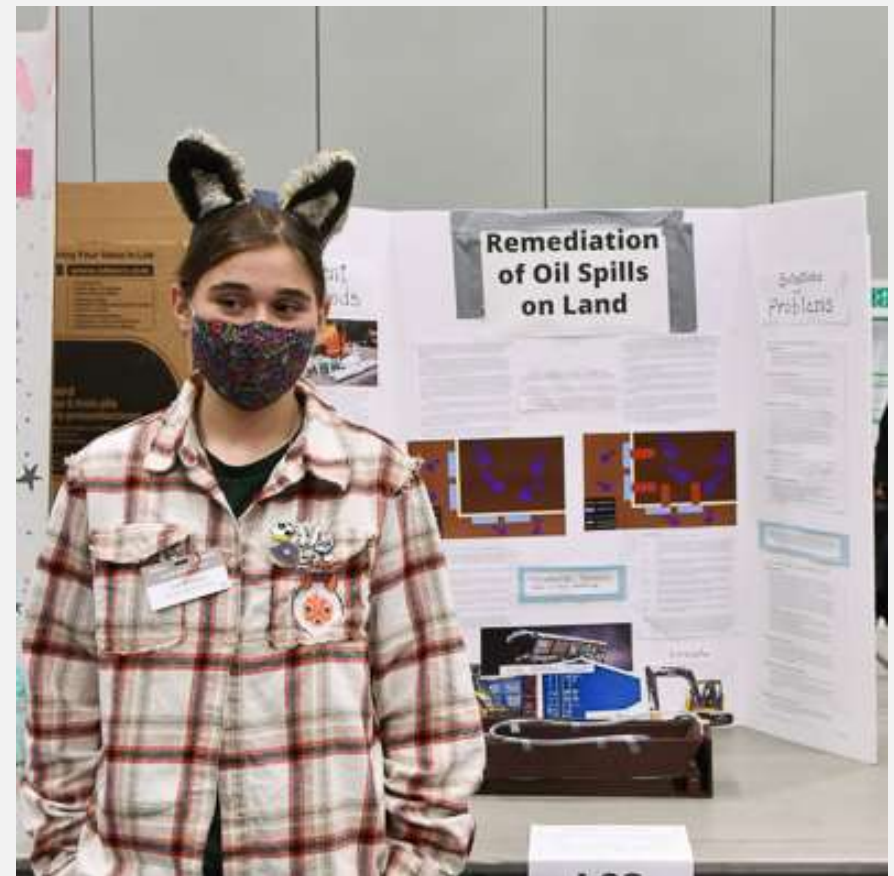
STLE Tribology/Friction Reduction Award

Evelyn Peart

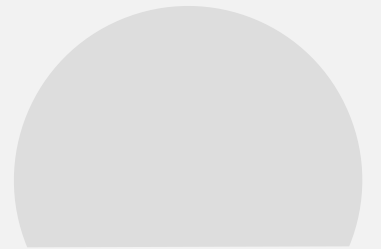
L02

Remediation of oil spills on land

Tiger Jeet Singh Public School
Milton



Talkit.ca Computer Engineering Awards



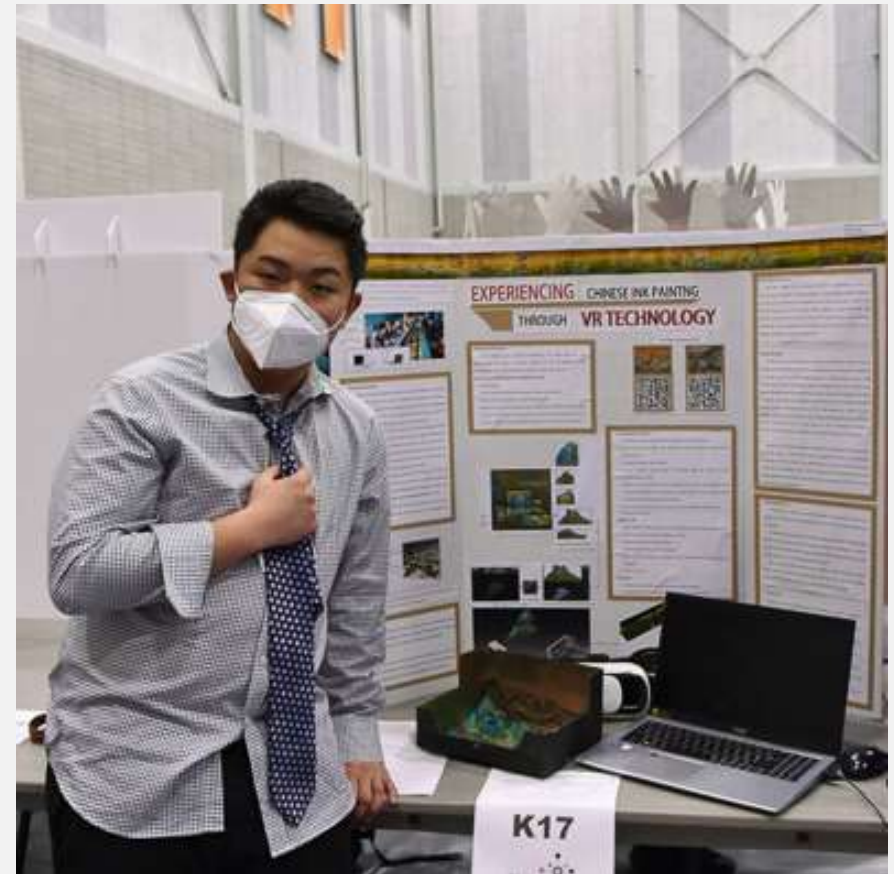
Talkit.ca Computer Engineering Award - Second

Brenton Wang

K17

Experiencing Chinese Ink Painting through VR
Technology

Oakville Trafalgar High School
Oakville



Talkit.ca Computer Engineering Award - First

Ali Kefel

J11

An Analysis of Path Planning Algorithms like D* for
more Efficient and Optimal Missions

Westdale Secondary School
Hamilton



University of Ottawa Admission Scholarship



University of Ottawa Admission Scholarship Award

Emily Zhao & Allen Yan

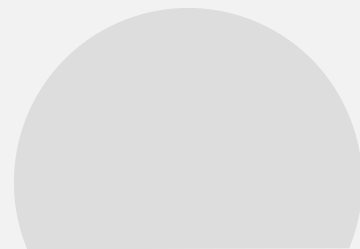
J01

Future in Spinal Cord Injury Treatments: a Review and
Demonstration of Current Experiments

Oakville Trafalgar High School
Oakville



Venture Academy at McMaster University Awards



Venture Academy Scholarship

Brenton Wang

K17

Experiencing Chinese Ink Painting through VR
Technology

Oakville Trafalgar High School
Oakville



Venture Academy Scholarship

Katie Barbera

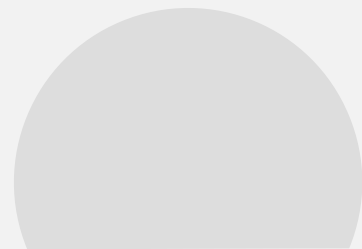
H01

Determining the Water Diffusion Coefficient of Various Bioplastics: A Molecular Dynamics Study

Cathedral High School
Hamilton



Water Environment Association of Ontario Award



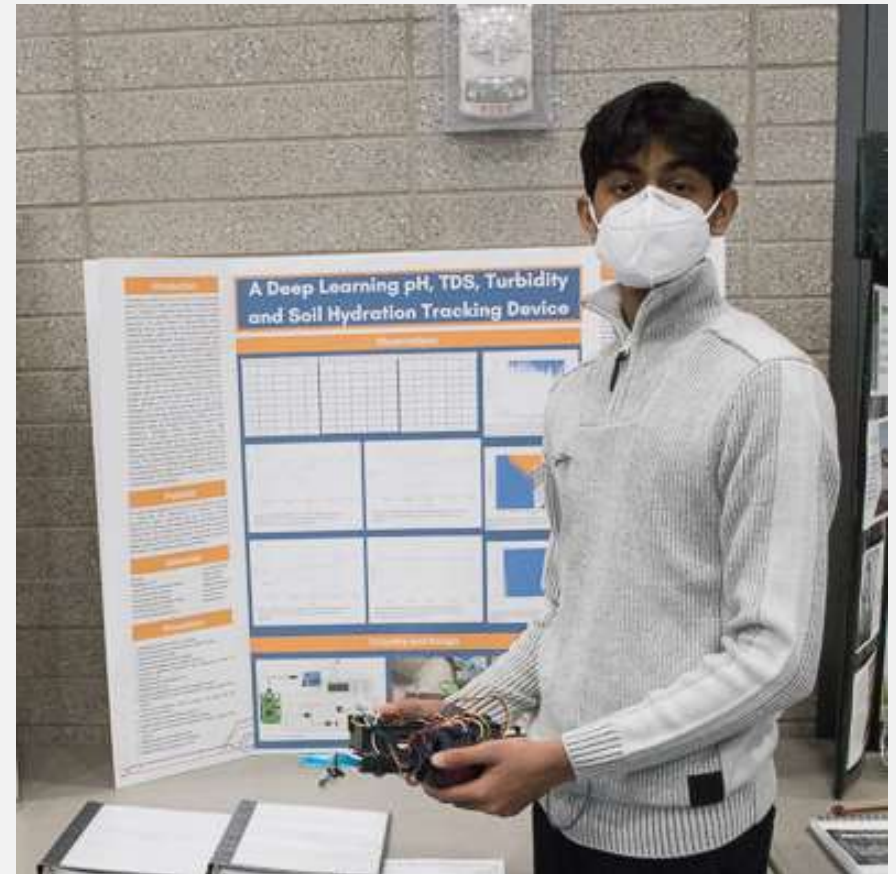
Water Environment Association of Ontario Award

Anish Rathod

P05

A Deep Learning (Multi-Layer Perceptron) Soil
Hydration, pH, TDS, and Turbidity Tracking Device

Burlington Central High School
Burlington



BASEF Inspiration Student Awards



BASEF Inspiration Student Award

Alida Truant

N10

Is HPV more than just an STI?

Frank Panabaker South
Hamilton



BASEF Inspiration Student Award

Rowan Scheben

J07
Rise Up!

St. Augustine
Dundas



BASEF Inspiration Student Award

Emily Zhao & Allen Yan

J01

Future in Spinal Cord Injury Treatments: a Review and
Demonstration of Current Experiments

Oakville Trafalgar High School
Oakville



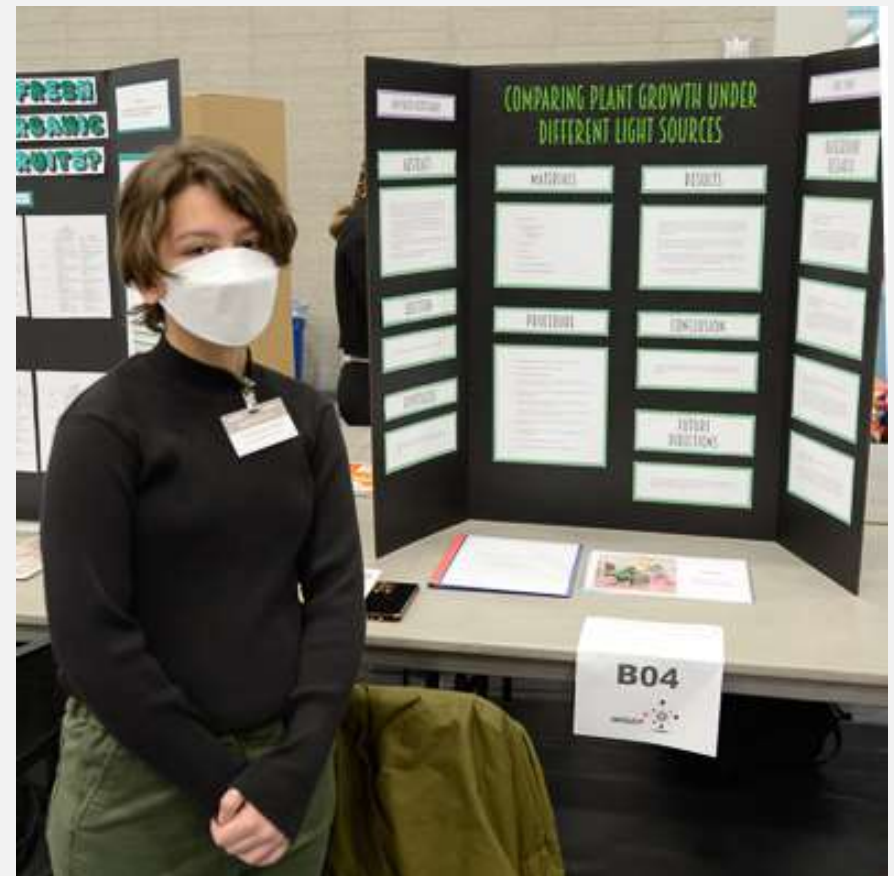
BASEF Inspiration Student Award

Gwyneth Rupchand

B04

How lettuce will grow under 3 different light sources.

Ascension Elementary School
Burlington



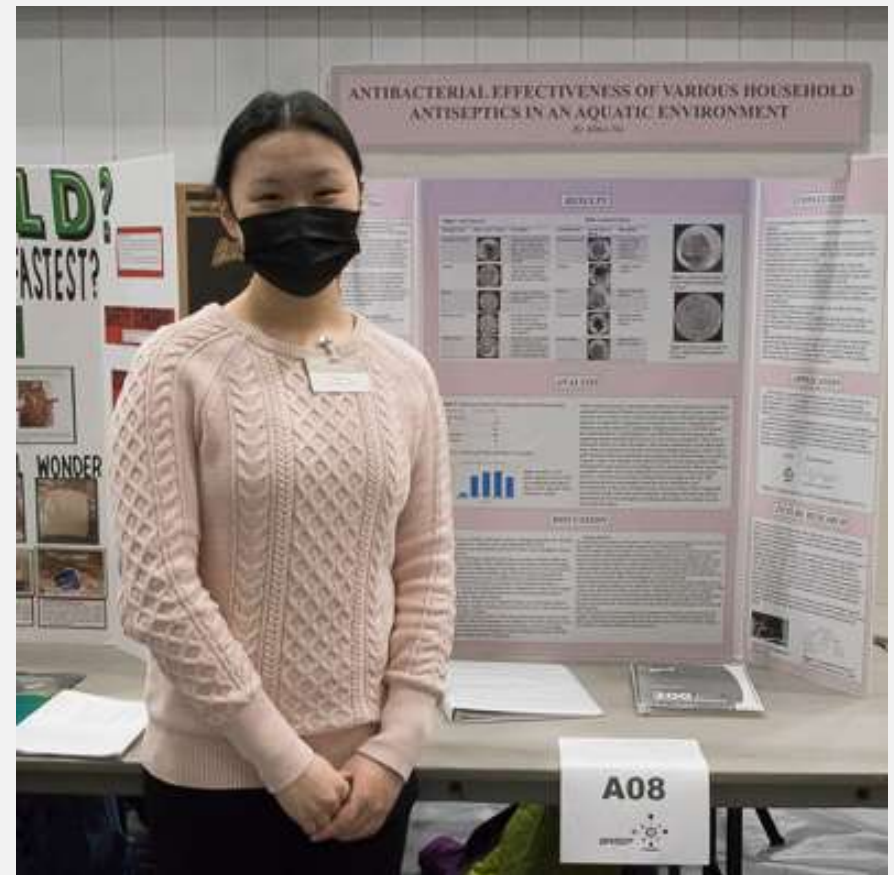
BASEF Inspiration Student Award

Alina Hu

A08

Antibacterial Effectiveness of Various Household Antiseptics in an Aquatic Environment

King's Christian Collegiate
Oakville



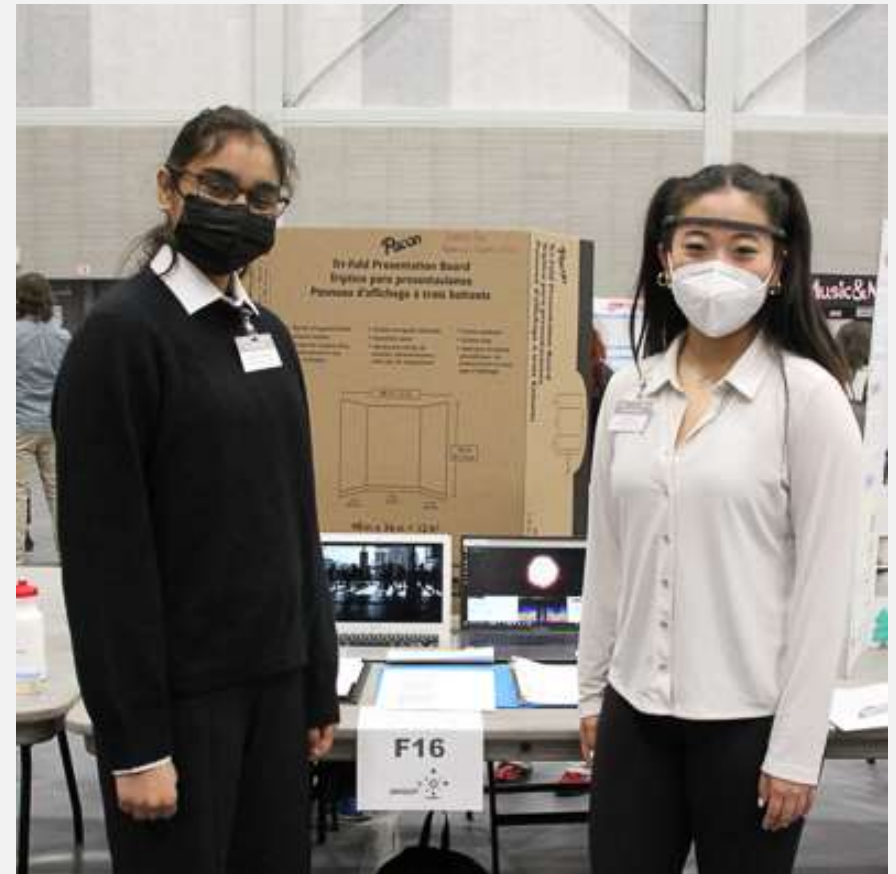
BASEF Inspiration Student Award

Emma Li & Shruthi Konduru

F16

Alleviating inhibitors to motor ability through
Syntaphilian abolition via Stem Cells

White Oaks Secondary School
Oakville



BASEF Inspiration Student Award

Maya Parachin

G07

THE FRYTASTIC FRY FIT

Oakville Christian School
Oakville



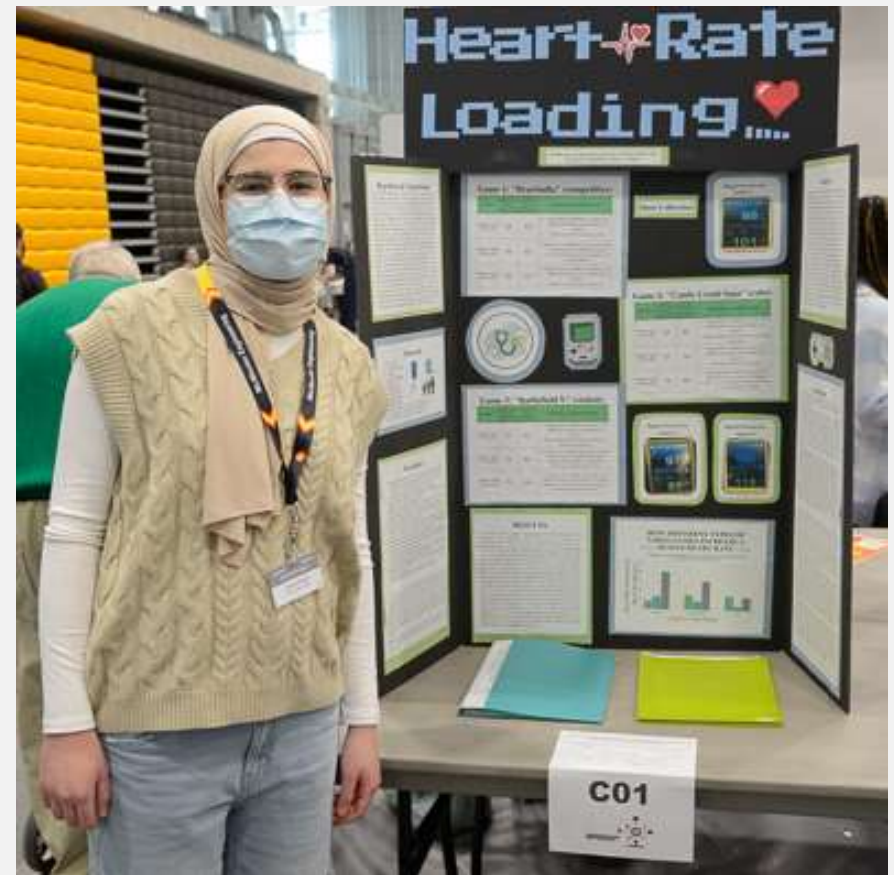
BASEF Inspiration Student Award

Zena Alsaadi

C01

Impact of different types of video games on human heart rates of varying age groups.

Al-Falah Islamic School
Oakville

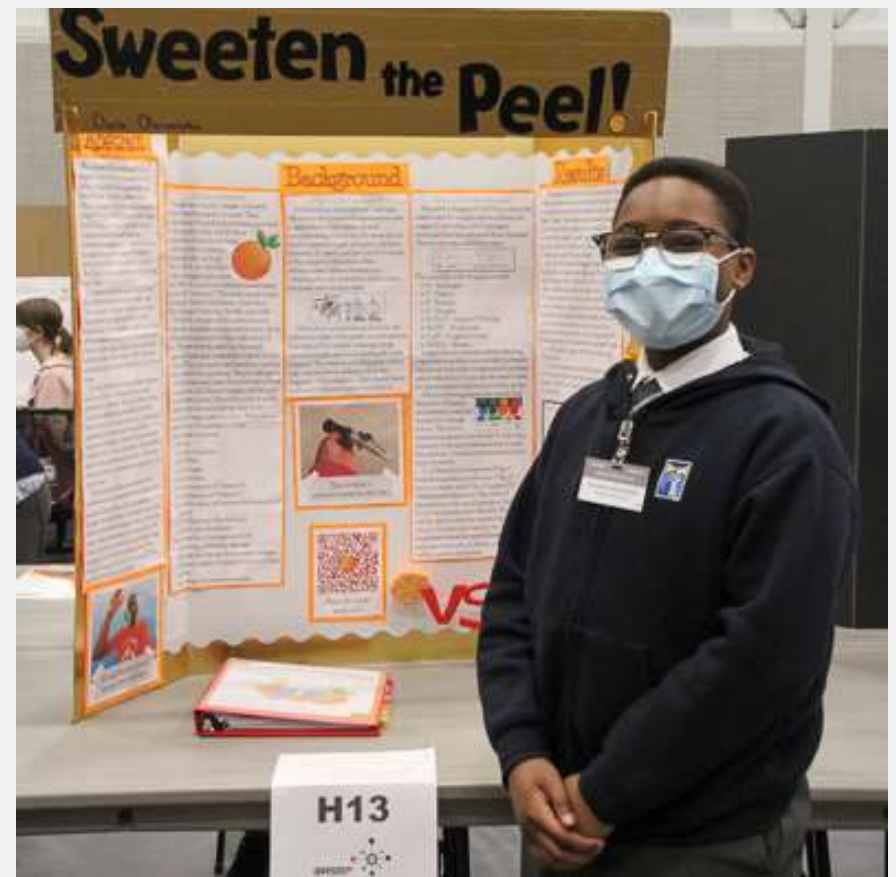


BASEF Inspiration Student Award

Darasimi Oloruntoba

H13
Sweeten The Peel

Oakville Christian School
Oakville



BASEF Inspiration Student Award

Eva Tripathi

F09

Major Makeover : Reprogramming Cell Identity

Tiger Jeet Singh Public School
Milton



BASEF Inspiration Student Award

Kiera Mitchell

F05

Refining DNA Extraction for Potential Bioplastic Use

Delhi District Secondary School
Delhi



BASEF Inspiration Teacher Awards

Recognizing Teachers

New to BASEF

\$500 for use in the teacher's classroom



BASEF Inspiration Teacher Awards

**Jeff Hopkins
Dr. David R. Williams
Halton District School Board**

**Amy Longden
W.H. Morden
Halton District School Board**

**Olivia Pellegrino
Our Lady of Victoria
Halton Catholic District School Board**

**Erin Stayshyn
St. Augustine
Hamilton Wentworth Catholic District School Board**

**Zendra Bell
Highview
Hamilton Wentworth District School Board**

**Luke Persaud
Hawthorne Valley
Halton District School Board**

**Zonaira Maqbool
Al Falah Islamic School**

**Stephan Chan
Charles R Beaudoin
Halton District School Board**



BASEF Infinite Possibilities Grants

were awarded in September 2023

\$1,000 for use in the teacher's classroom

Congratulations to these grantees

Rabia Ballan HCDSB

Ashley Buligan HWDSB

Elizabeth Carvalho GEDSB

**Caitlin Cunningham
HWCD SB**

Jacqueline Da Ros HCDSB

Jamie Greenway HWDSB

**Katherine Gregoris
HWSDSB**

Itty Gupta HDSB

Franklin Hagar HDSB

James Hood GEDSB

Natasha Jones HCDSB

Khulood Agha Khan HDSB

Anna Maria Lalli HDSB

Karen Montgomery HDSB

Chantal Nano HCDSB

David Page BHNCD SB

David Paone HWCD SB

Christine Peesker HDSB

Olivia Pellegrino HCDSB

Luke Persaud HDSB

Eric Romero-Sierra HWDSB

Mark Sergi HWCD SB

Jacqueline Small HDSB

Lindsay Tarbutt HCDSB

Anna Tschirhart HCDSB

Sheri Veibl HCDSB

Jana Zielinski HDSB





The Dianne Beveridge Grant

\$2,500 product credit

for use in the teacher's classroom

Application Portal on basef.ca will open early April

Merit Awards

Sponsored by:



ArcelorMittal



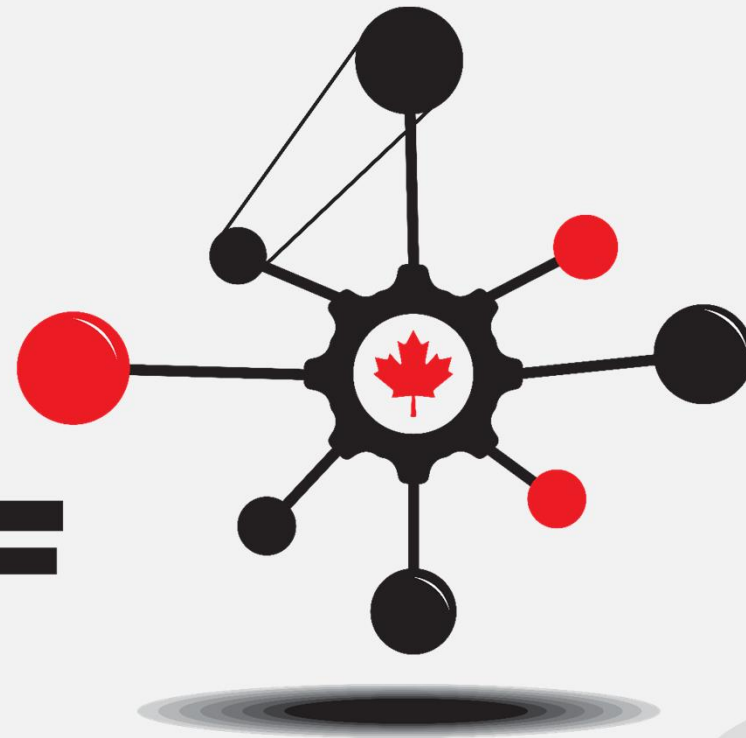
23	25	26	27	28	30	31	32	33
27	29	30	31	32	34	35	36	37
33	34	35	36	37	38	39	40	41
37	38	39	40	42	43	44	45	
<p>NOT FOLD. Use this</p>								<p>Score: 44</p>
<p>A</p>								



Award of Excellence Tuition Scholarships
of
\$1000



Bronze Merit Awards



BASEF





Bronze

Janine Gong & Leah Seet

A09
Statocytes in Space

W. H. Morden Public School
Oakville





Bronze

Grace Wilson

A13
Say Watt?!

Oakville Christian School
Oakville



ArcelorMittal



Bronze

Nicholas Hart

A14

Impact of Fertilizers: Organic vs Chemical

Charles R. Beaudoin Public School
Burlington



ArcelorMittal



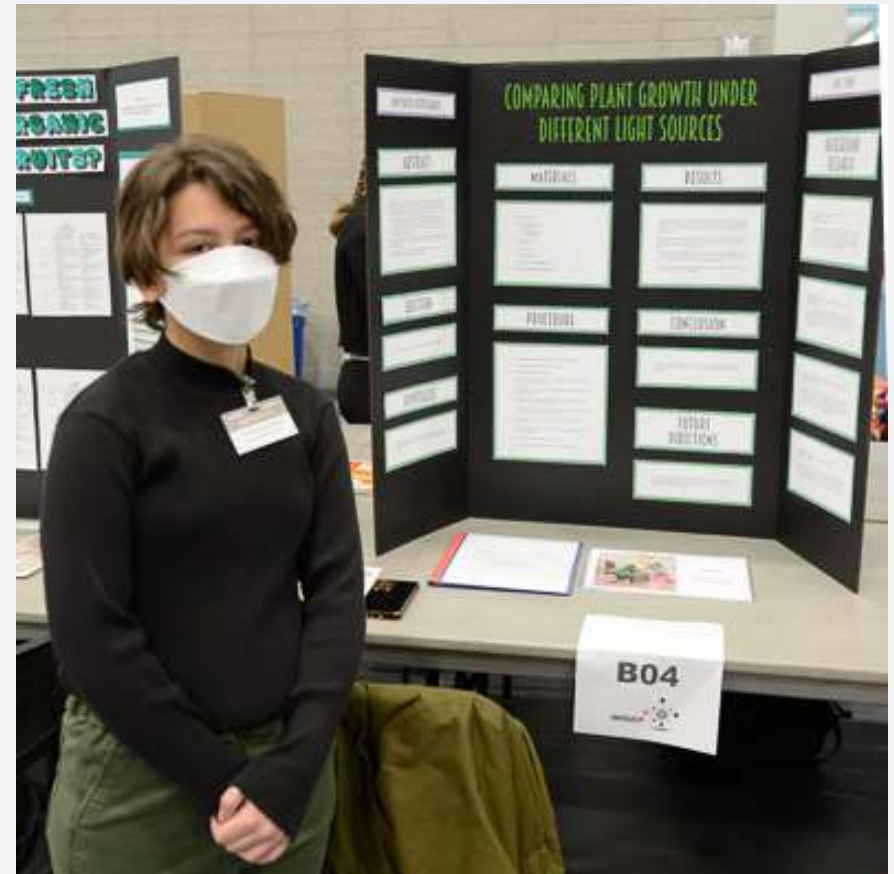
Bronze

Gwyneth Rupchand

B04

How lettuce will grow under 3 different light sources.

Ascension Elementary School
Burlington



ArcelorMittal



Bronze

Ana Qureshi

B05

Which Stays Fresh Longer: Non Organic or Organic Fruits?

Al-Falah Islamic School
Oakville



ArcelorMittal





Bronze

Sophie Schweinberger

B06

Battle of the Disinfectants

Trinity Christian School
Burlington



ArcelorMittal





Bronze

Brianna Montemayor

B08
The 3 B's

St George-German Public School
St. George



ArcelorMittal





Bronze

Hayden Woolsey & Anisa Boivin

B12
Smart Mold

St. Augustine
Dundas



ArcelorMittal





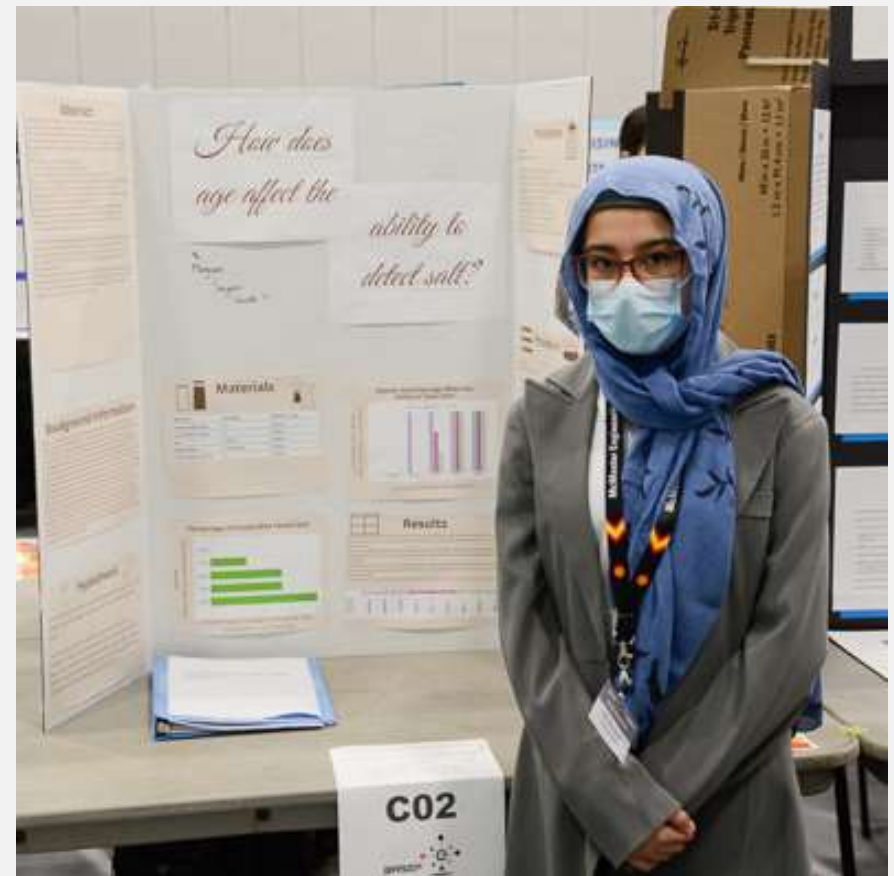
Bronze

Maryam Sayani

C02

How Does Age Affect the Ability to Detect Salt?

Al-Falah Islamic School
Oakville



ArcelorMittal





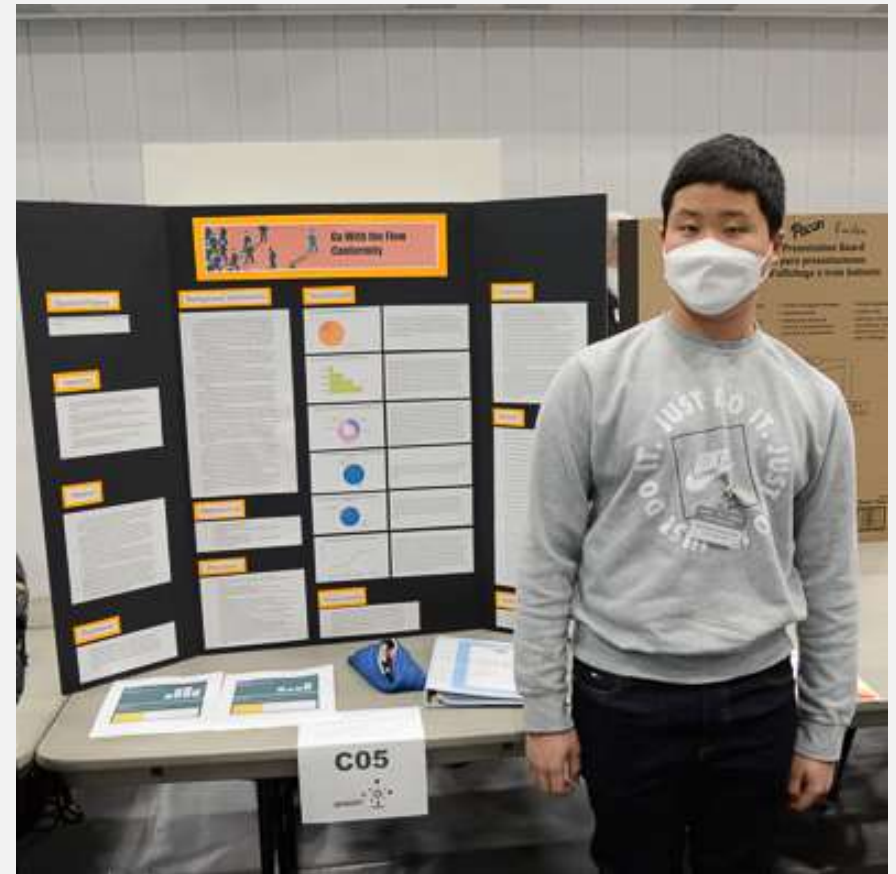
Bronze

Wookyum (Jason) Kim

C05

Go With the Flow

Trinity Christian School
Burlington



ArcelorMittal



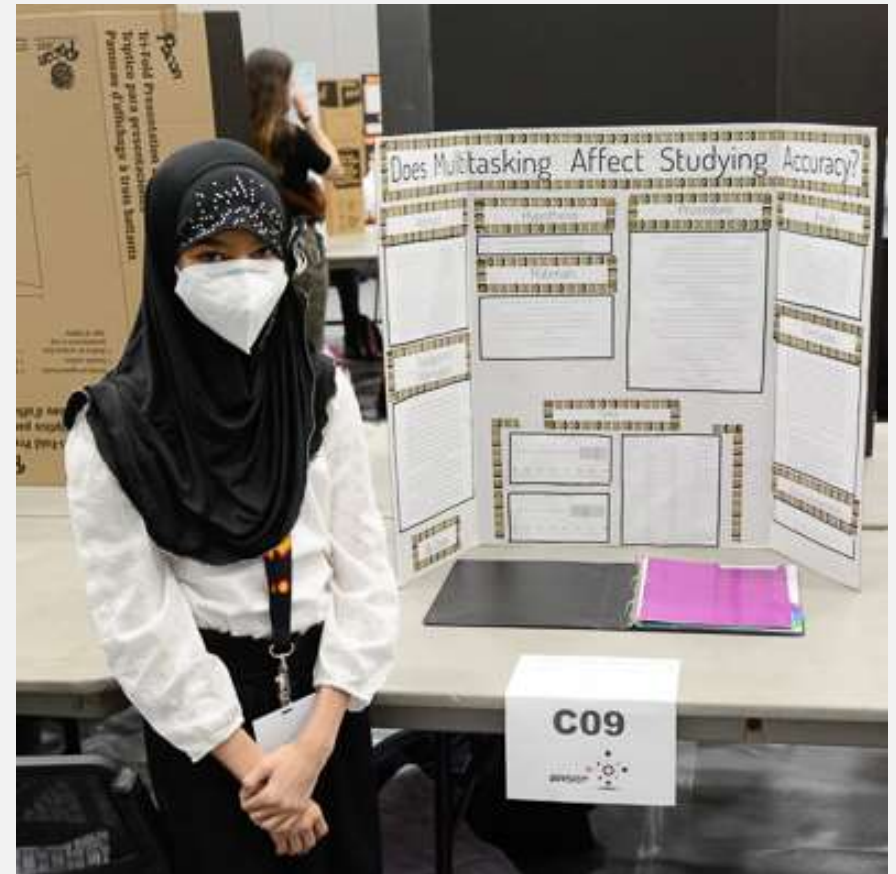
Bronze

Zoya Waseem

C09

Does Multitasking Affect Studying Accuracy?

Al-Falah Islamic School
Oakville



ArcelorMittal





Bronze

Kelly Zhong

C10

Do genes impact the ability to learn a new skill?

Westmount Secondary School
Hamilton



ArcelorMittal



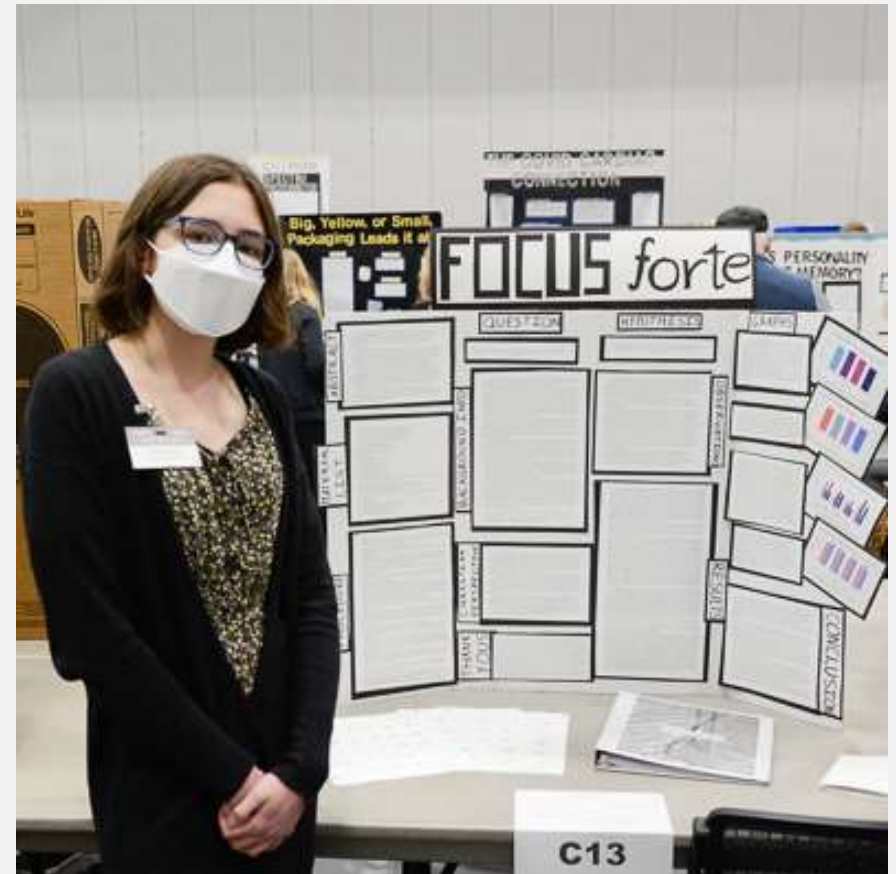


Bronze

Peyton Burt

C13
Focus Forte

Trinity Christian School
Burlington



ArcelorMittal



Bronze

Daniel Lu & Thomas Seoh

C14

Virtual Schooling Impacts on Adolescents' Mental Health Using the Instrumental Approach of PHQ-A

W. H. Morden Public School
Oakville



ArcelorMittal





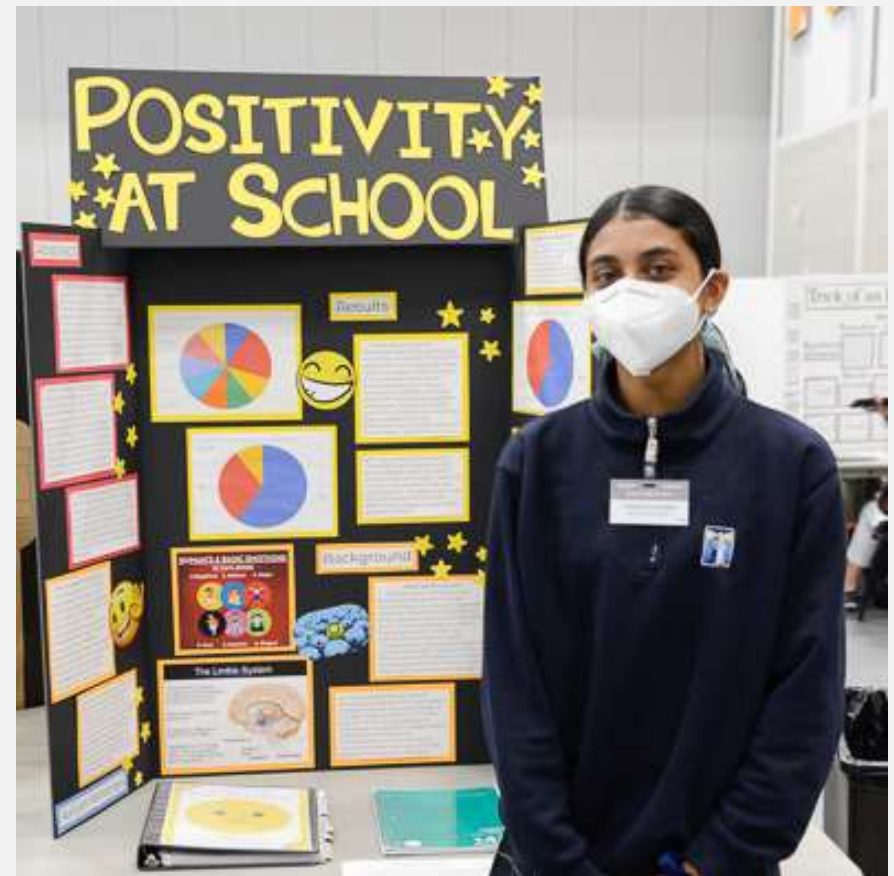
Bronze

Aaliyah Fernandes

C16

Positivity at School

Oakville Christian School
oakville



ArcelorMittal





Bronze

Andrea Faber

D05

Bring Back the Memories

Trinity Christian School
Burlinton



ArcelorMittal



Bronze

Claire Marsh

D07

Wearable Early Stroke Detection Device Using
Electroencephalography

M. M. Robinson High School
Burlington



ArcelorMittal





Bronze

Akshara Yamsani

D08

Optimal Ambient Conditions for ASD Spectrum Concentration

Dr. David R Williams
Oakville



ArcelorMittal





Bronze

Gray Greco

D09

No Name, No Shame

Oakville Christian School
Oakville



ArcelorMittal





Bronze

Faraasha Ellahi & Fatima Mojob

D10

What is the connection between Personality and Memory?

Dr. David R Williams
Oakville



ArcelorMittal





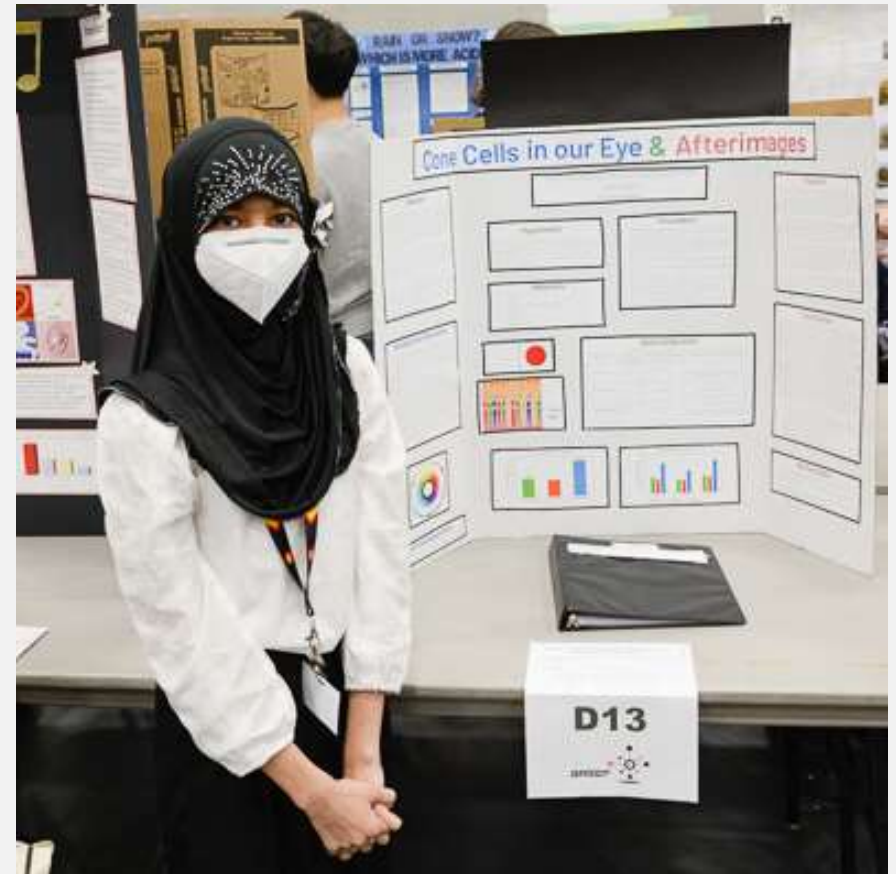
Bronze

Zoha Waseem

D13

Which Cone Cell Type Takes the Longest To Recover From Afterimages?

Al-Falah Islamic School
Oakville



ArcelorMittal





Bronze

Chiazom Okpala

D14

Music & Memory

Oakville Christian School
Oakville



ArcelorMittal





Bronze

Clara Mack

D15
Enticing Icing

Trinity Christian School
Burlington



ArcelorMittal





Bronze

Shada Shirani & Laila Puri

D16

A SHOCK TO YOUR SYSTEM: A novel treatment for Type 1 Diabetes

W. H. Morden Public School
Oakville



ArcelorMittal





Bronze

Justin Lee

E08

Emotion's Effect On Your Play In Chess

W. H. Morden Public School
Oakville



ArcelorMittal





Bronze

Sophia Xu & Season Wang

E10

Correlations Between Sleep Patterns, the Glymphatic System, and Giftedness in Children

Oakville Trafalgar High School
Oakville



ArcelorMittal





Bronze

Liam Storsley

E11

Virtual Reality's Impact on Learning Outcomes

Oakville Christian School
Oakville



ArcelorMittal





Bronze

Rebecca Hill & Daniel Lin

E16

How different school subjects affect students stress levels

Dr. David R Williams
Oakville



ArcelorMittal





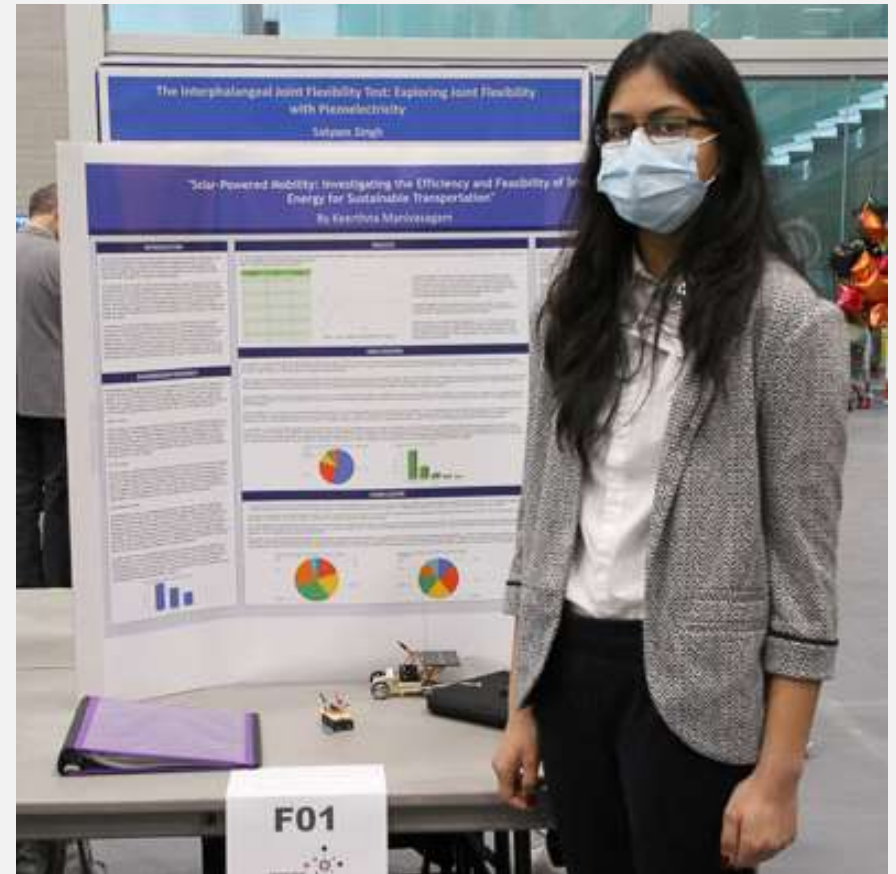
Bronze

Keerthna Manivasagam

F01

Is Solar Solar Energy More Efficient?

Milton District High School
Milton



ArcelorMittal



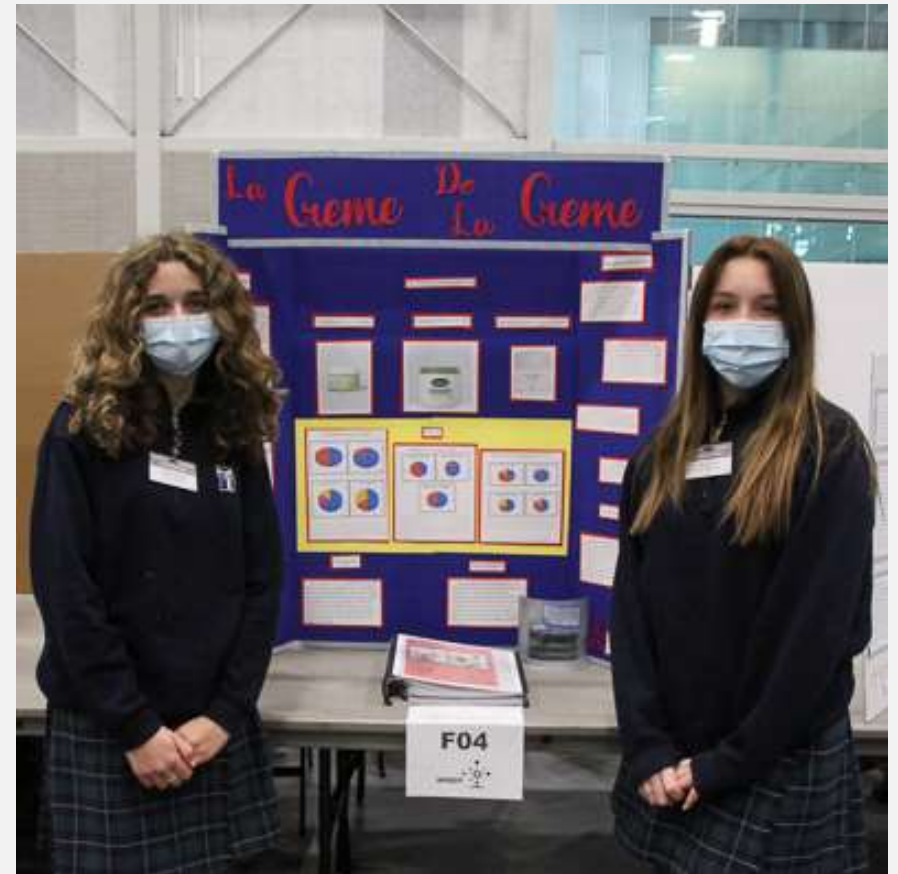
Bronze

Sophie Mungo & Olivia Getty

F04

La Creme De La Creme

Oakville Christian School
Oakville



ArcelorMittal





Bronze

Alex Easo

F13

Light It Up - Exploring Renewable and Non-Renewable Fuels

Balaclava
Carlisle





Bronze

Augustus Luciani

G05

A Lesson From The Stars

St. Augustine
Dundas



ArcelorMittal



Bronze

Katie Barbera

H01

Determining the Water Diffusion Coefficient of Various Bioplastics: A Molecular Dynamics Study

Cathedral High School
Hamilton



ArcelorMittal



Bronze

Kibo Nagasaki

H02

Deterioration of Democracy in the 21st Century

Mentor College
Mississauga



ArcelorMittal





Bronze

Khairy Issa & Arnav Kudale

H08

How can a wind powered car go faster than the wind?

Dr. David R Williams
Oakville



ArcelorMittal



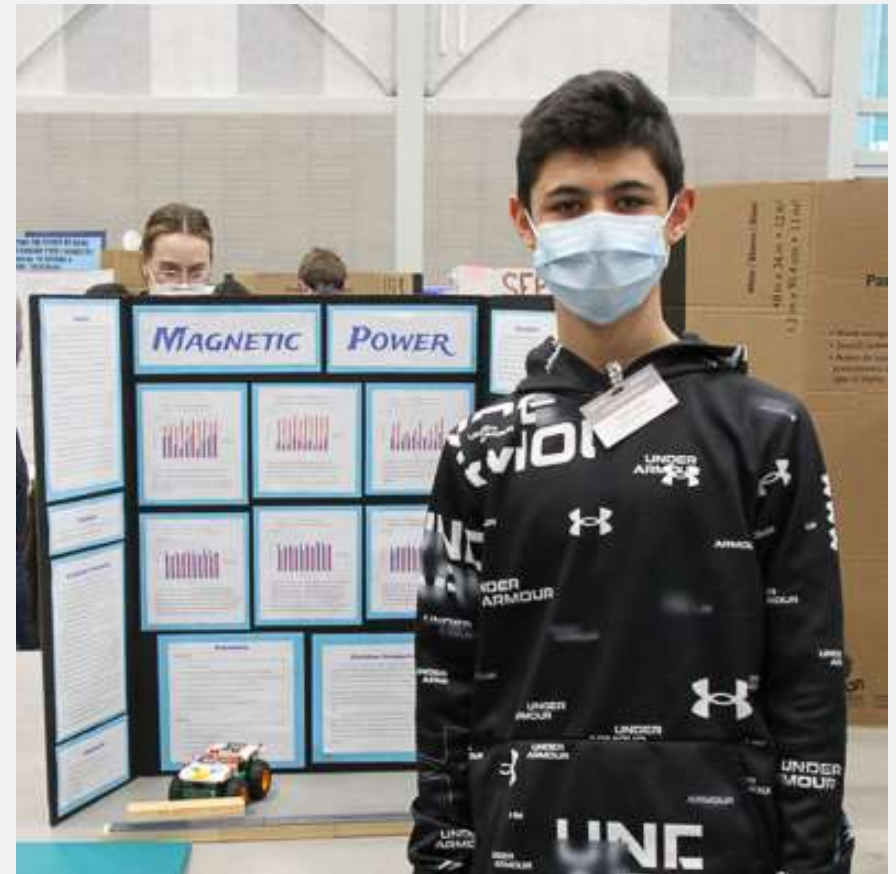


Bronze

Kaleb Jones

H09
Magnetic Power

Trinity Christian School
Burlington



ArcelorMittal





Bronze

Hania Sagarwala

H17

The Effects of Heating Temperature on Voltage

Al-Falah Islamic School
Oakville



ArcelorMittal





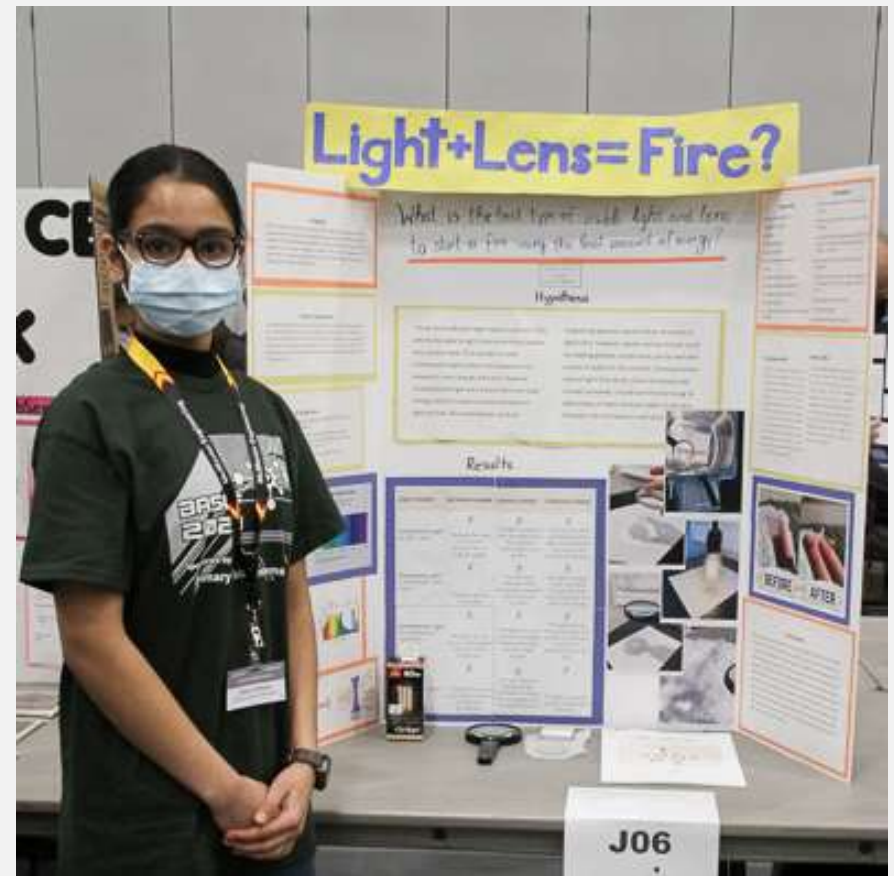
Bronze

Ishita Malhotra

J06

What is the best types of lens and light to start a fire using the least amount of energy?

Charles R. Beaudoin Public School
Burlington



ArcelorMittal



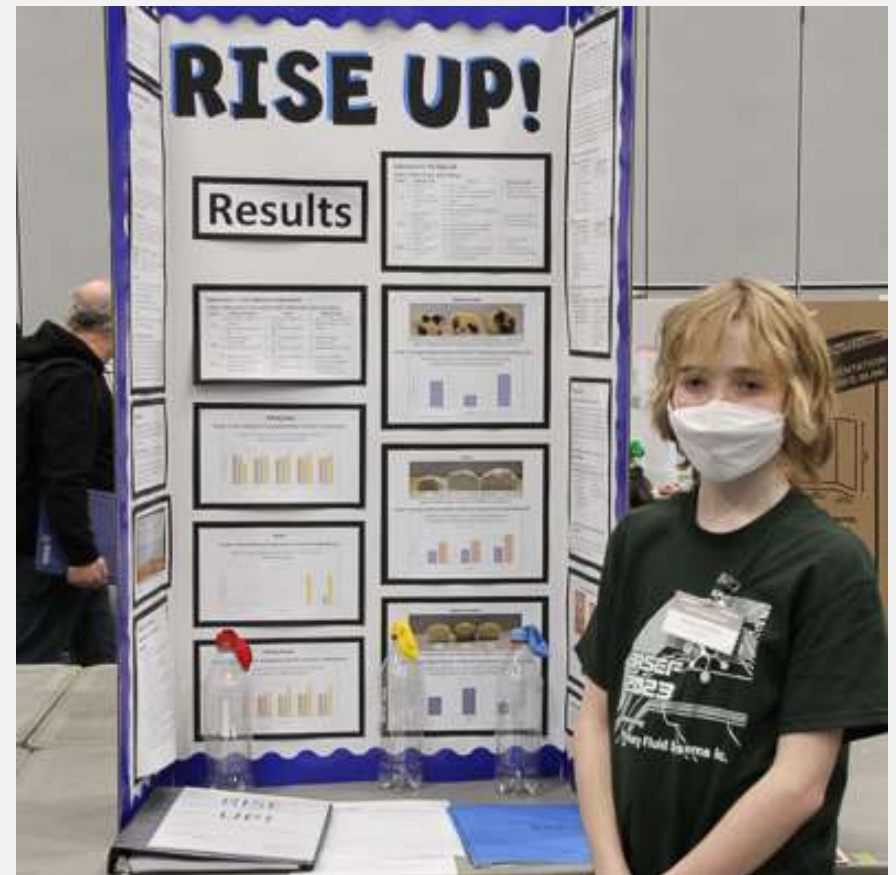


Bronze

Rowan Scheben

J07
Rise Up!

St. Augustine
Dundas



ArcelorMittal



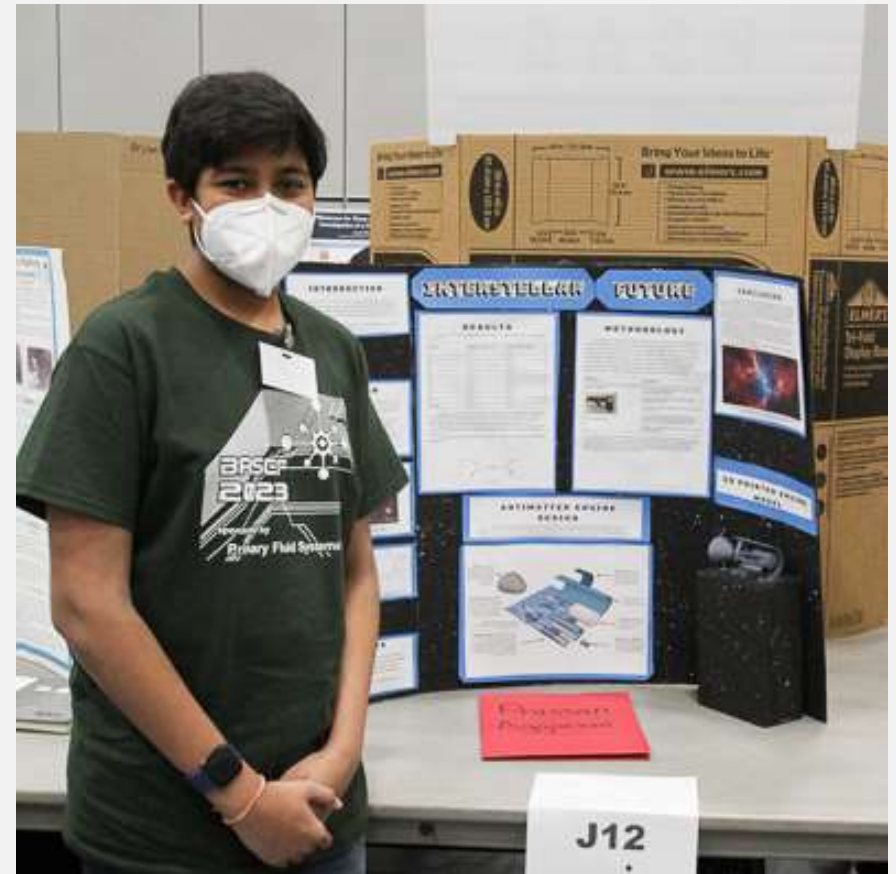


Bronze

Prassan Aggarwal

J12
Interstellar Future

Centennial Public School
Georgetown



ArcelorMittal





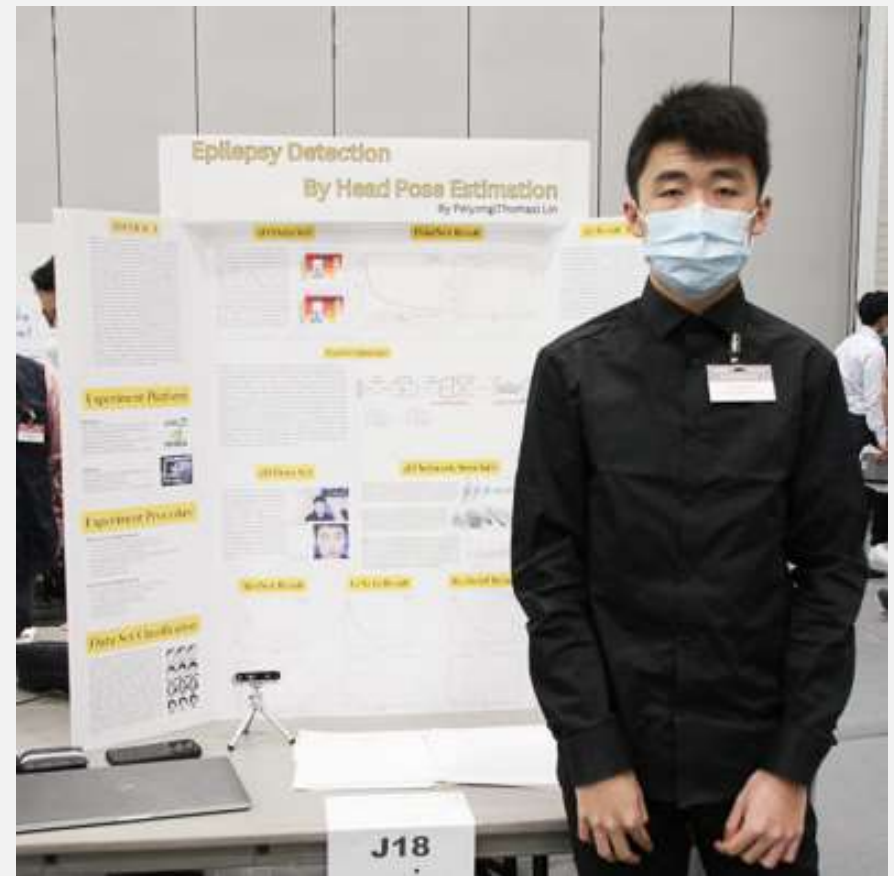
Bronze

Peiyong Lin

J18

Epilepsy Detection by Head Pose Estimation

Oakville Trafalgar High School
Oakville



ArcelorMittal





Bronze

Rohan Tuli

K04

Using YOLO Object Detection To Allow Self-Driving Cars to See

Oakville Trafalgar High School
Oakville



ArcelorMittal





Bronze

Gavin Mckerracher & Grayson Beecroft

K12

PSAG (Piezoelectric Semi-Automatic Generator)

Rolling Meadows Public School
Burlington



ArcelorMittal





Bronze

Ethan Horn

K13

Braille In A Box Puzzle

Rolling Meadows Public School
Burlington



ArcelorMittal





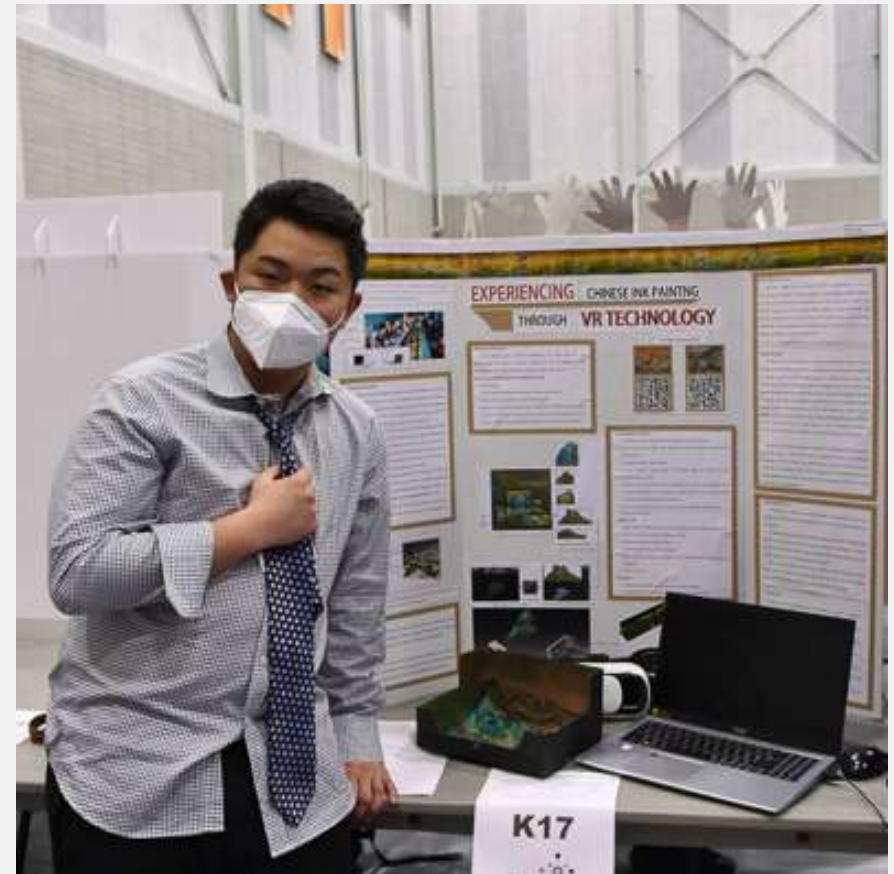
Bronze

Brenton Wang

K17

Experiencing Chinese Ink Painting through VR
Technology

Oakville Trafalgar High School
Oakville



ArcelorMittal





Bronze

Lucas Monter

L11

A Novel EEG Pillowcase for Sleep Apnea Syndrome Diagnosis: An Investigation of a Virtual Prototype

Corpus Christi Secondary School
Burlington



ArcelorMittal



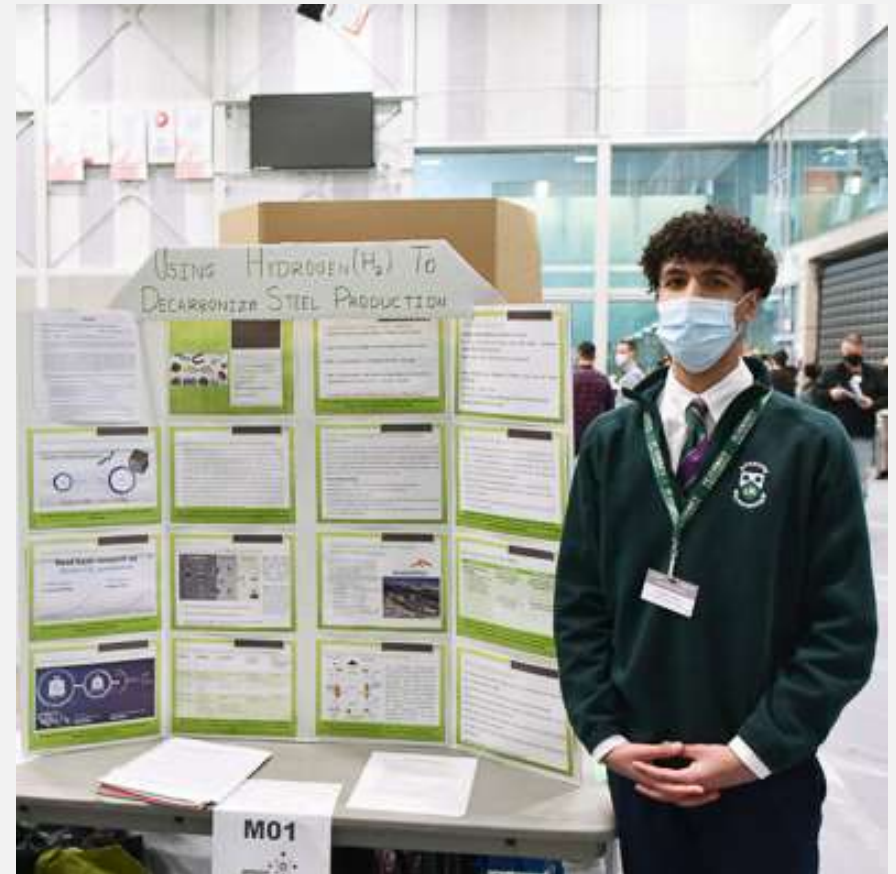
Bronze

Ruhan Soni

M01

Using Hydrogen to decarbonize Steel Production

Hillfield Strathallan College
Hamilton



ArcelorMittal





Bronze

Lana Mbuagbaw & Maeve Puri

N03
Fasten Your Greenbelt

St. Augustine
Dundas





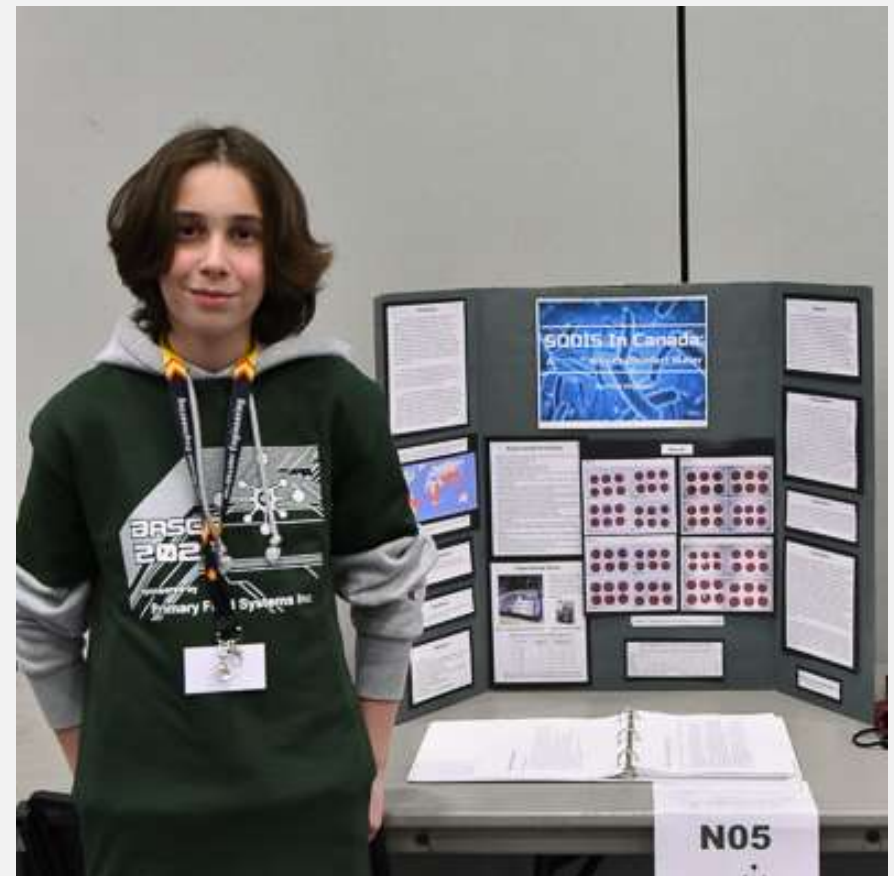
Bronze

Filip Veljkovic

N05

SODIS in Canada: A "Cool" Way to Disinfect Water

Charles R. Beaudoin Public School
Burlington



ArcelorMittal



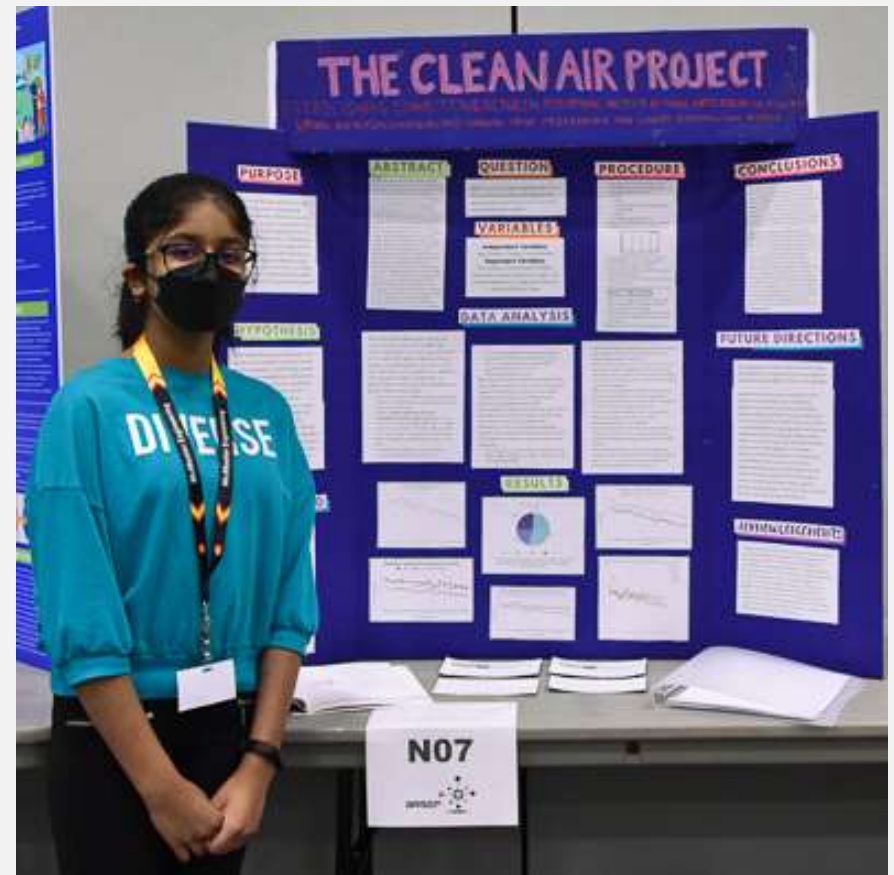


Bronze

Joanna Martin

N07
The Clean Air Project

St. John Elementary School (Burlington)
Burlington



ArcelorMittal





Bronze

Joshua Bodner

N13

Using a Subsonic Wind Tunnel to Measure an F1 Car's Downforce

W. H. Morden Public School
Oakville



ArcelorMittal





Bronze

Evan Budz & Colin Cameron

N17

ePills – Set it and Forget it!

Charles R. Beaudoin Public School
Burlington



ArcelorMittal

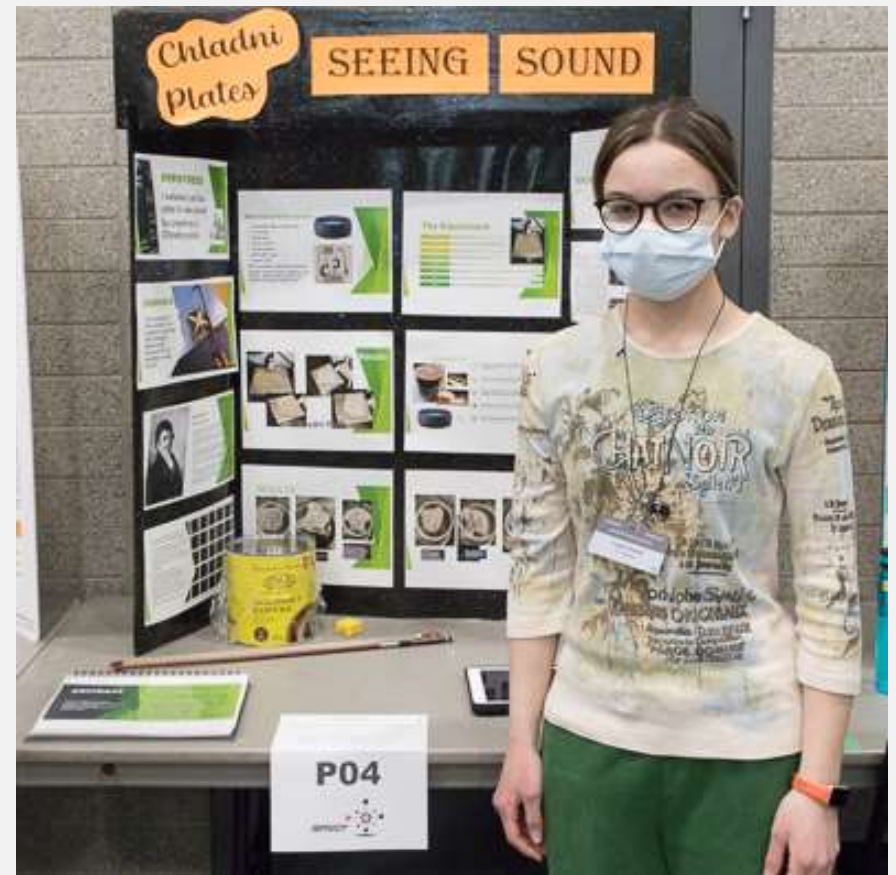


Bronze

Capri Smith

P04
Seeing Sound

St. Augustine
Dundas



ArcelorMittal





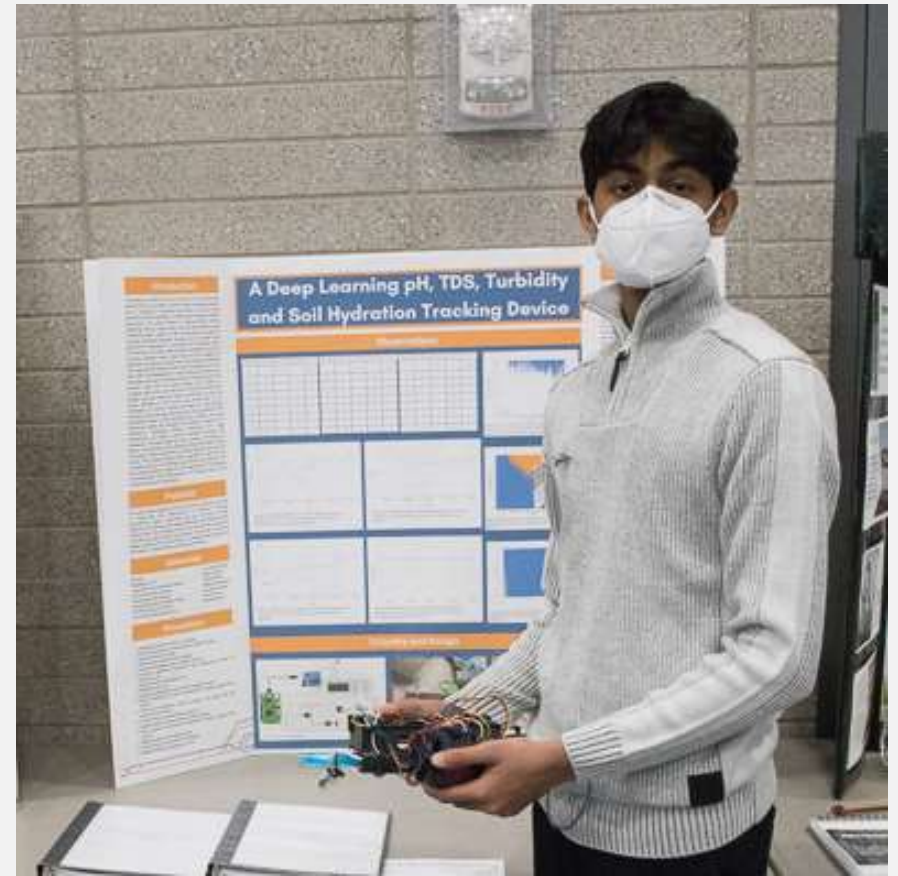
Bronze

Anish Rathod

P05

A Deep Learning (Multi-Layer Perceptron) Soil Hydration, pH, TDS, and Turbidity Tracking Device

Burlington Central High School
Burlington



ArcelorMittal



Bronze

Alan Cai & Gabbi Ipwanshek

P07
Household Waste Sorter

Dr. David R Williams
Oakville



ArcelorMittal





Bronze

Daksh Srivastava

P12

A Digital Interpreter to translate between English and Ukrainian

Pilgrim Wood Public School
Oakville



ArcelorMittal





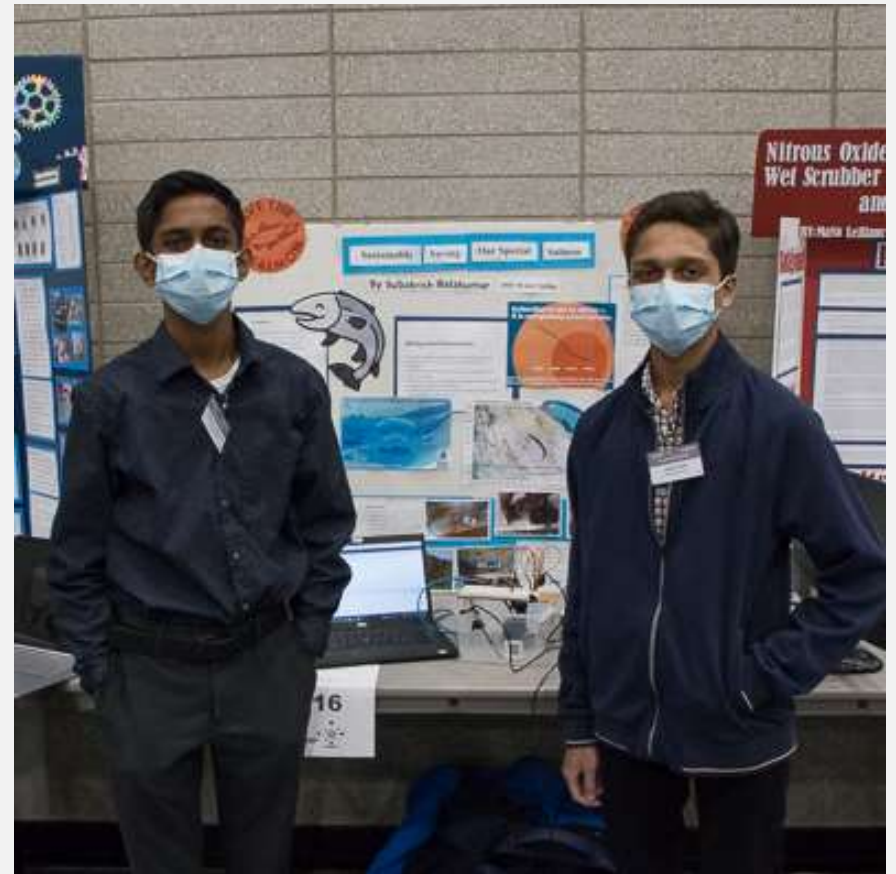
Bronze

Subakrish Balakumar & Ayaan Salim

P16

Sustainably Saving our Special Salmon

Aldershot High School
Burlington



ArcelorMittal





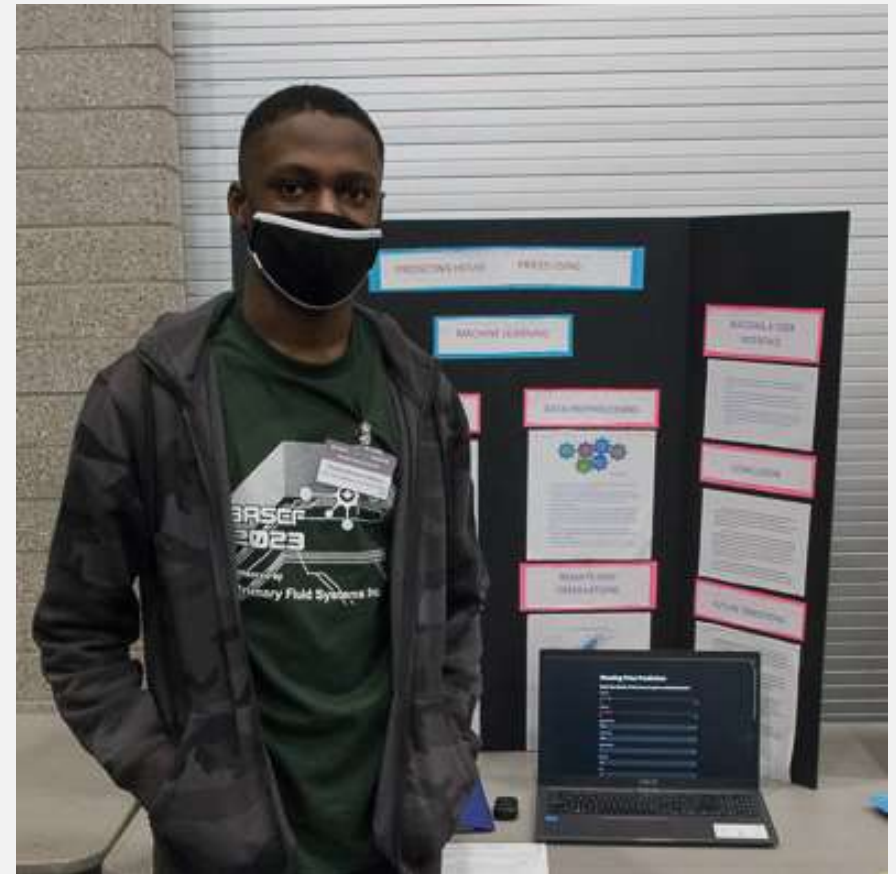
Bronze

Abdulrahman Odejayi

P20

Housing price prediction

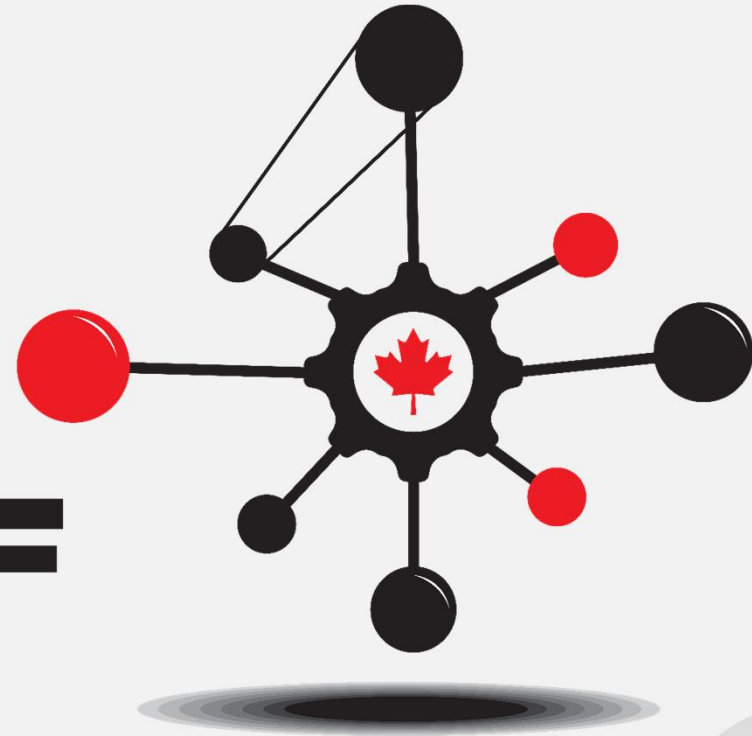
North Park Collegiate and Vocational School
Brantford



ArcelorMittal



Silver Merit Awards



BASEF





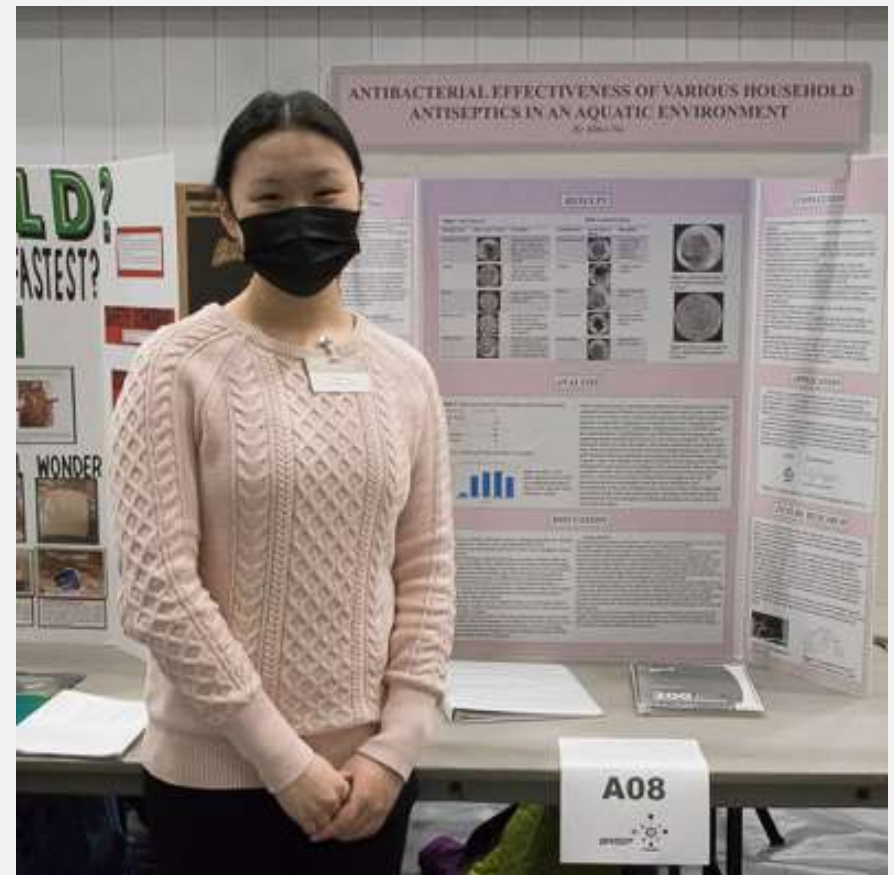
Silver

Alina Hu

A08

Antibacterial Effectiveness of Various Household Antiseptics in an Aquatic Environment

King's Christian Collegiate
Oakville



ArcelorMittal





Silver

Jamin DeHaan

A12

Lost My Appleteite

Trinity Christian School
Burlington



ArcelorMittal





Silver

Isaiah Sienna

B03

Taking Flight: The Evolutionary Origin of Feathered Flight

St. Augustine
Dundas



ArcelorMittal





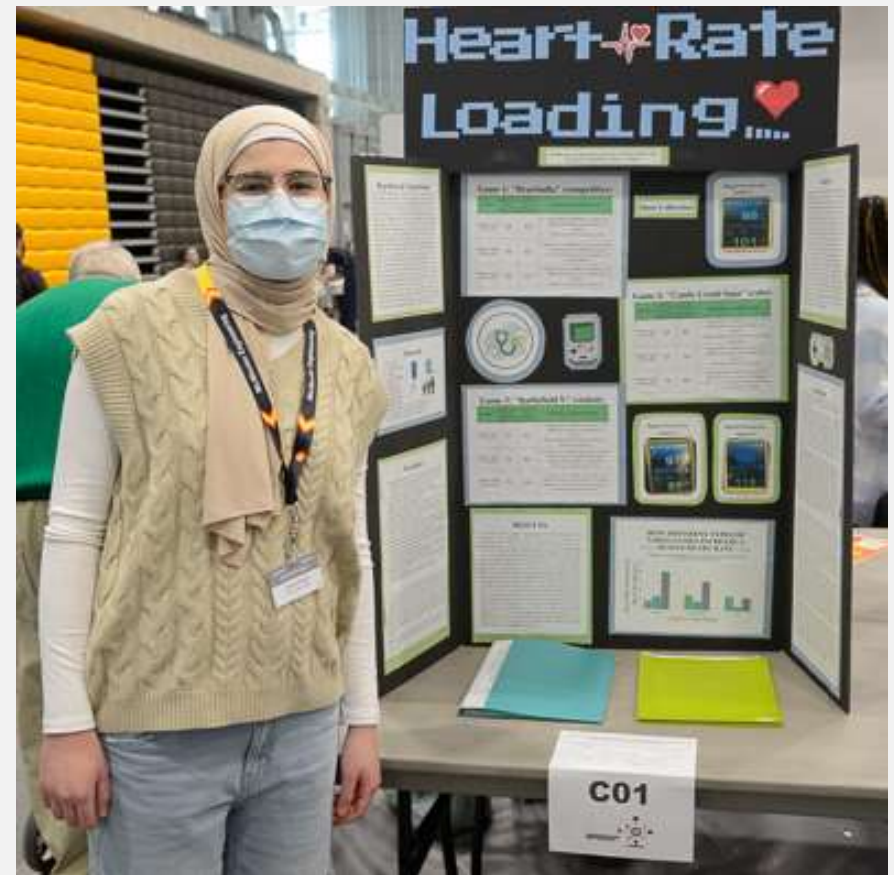
Silver

Zena Alsaadi

C01

Impact of different types of video games on human heart rates of varying age groups.

Al-Falah Islamic School
Oakville



ArcelorMittal





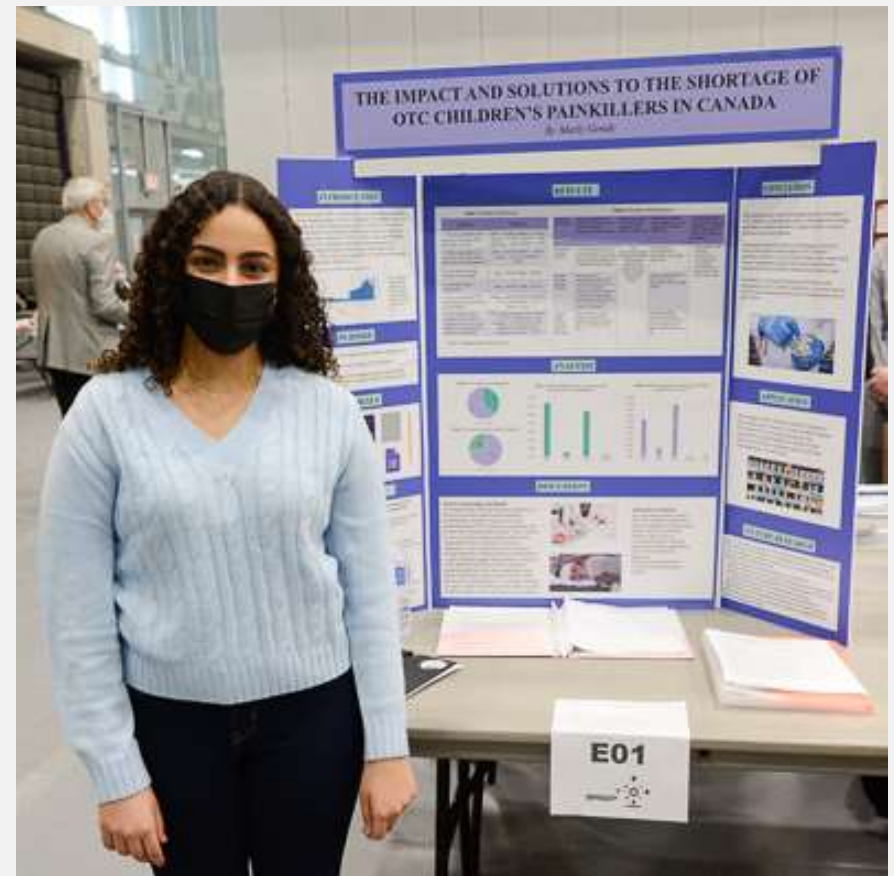
Silver

Marly Gendy

E01

The Impact of the Shortage of Children's Painkillers in Canada

King's Christian Collegiate
Oakville



ArcelorMittal





Silver

Maddy Boverhof

E12

Big, Yellow or Small, Packaging Leads it all

Trinity Christian School
Burlington



ArcelorMittal



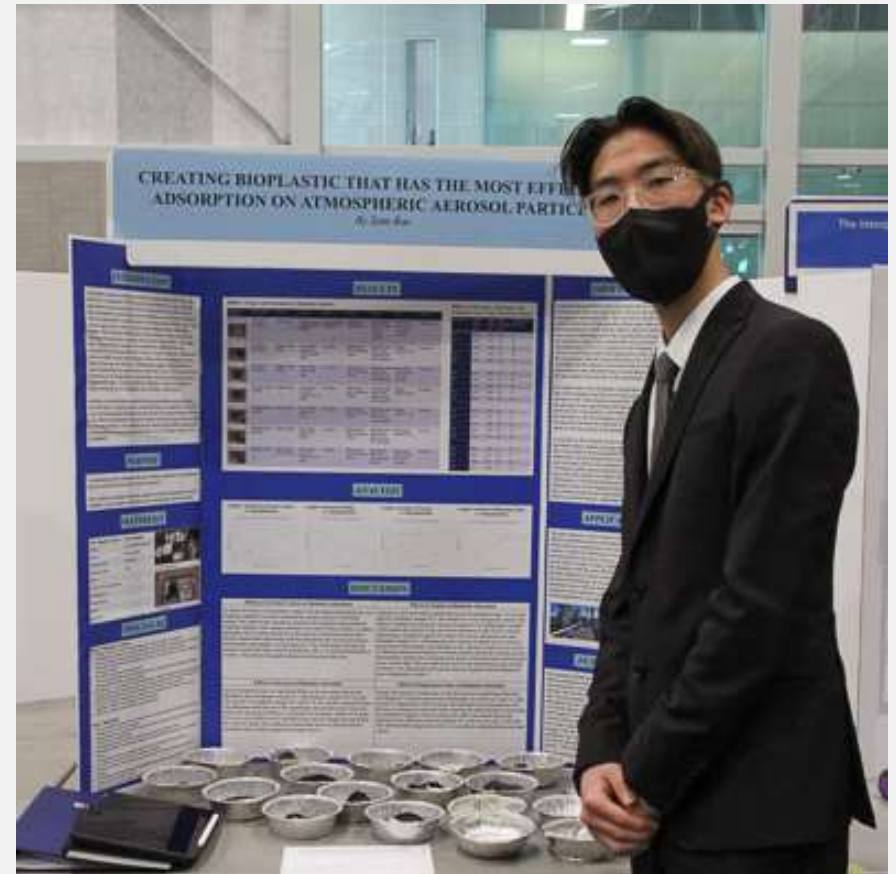
Silver

Sam Bae

F02

Creating bioplastic that has the most effective adsorption on atmospheric aerosol particles

King's Christian Collegiate
Oakville



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Silver

Kiera Mitchell

F05

Refining DNA Extraction for Potential Bioplastic Use

Delhi District Secondary School
Delhi



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Silver

Eva Tripathi

F09

Major Makeover : Reprogramming Cell Identity

Tiger Jeet Singh Public School
Milton



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Silver

Melin Feng & Aileen Feng

F10

Investigating the Effect of Gene Therapy on Type 1
Diabetes and its Potential as a Future Treatment

Oakville Trafalgar High School
Oakville



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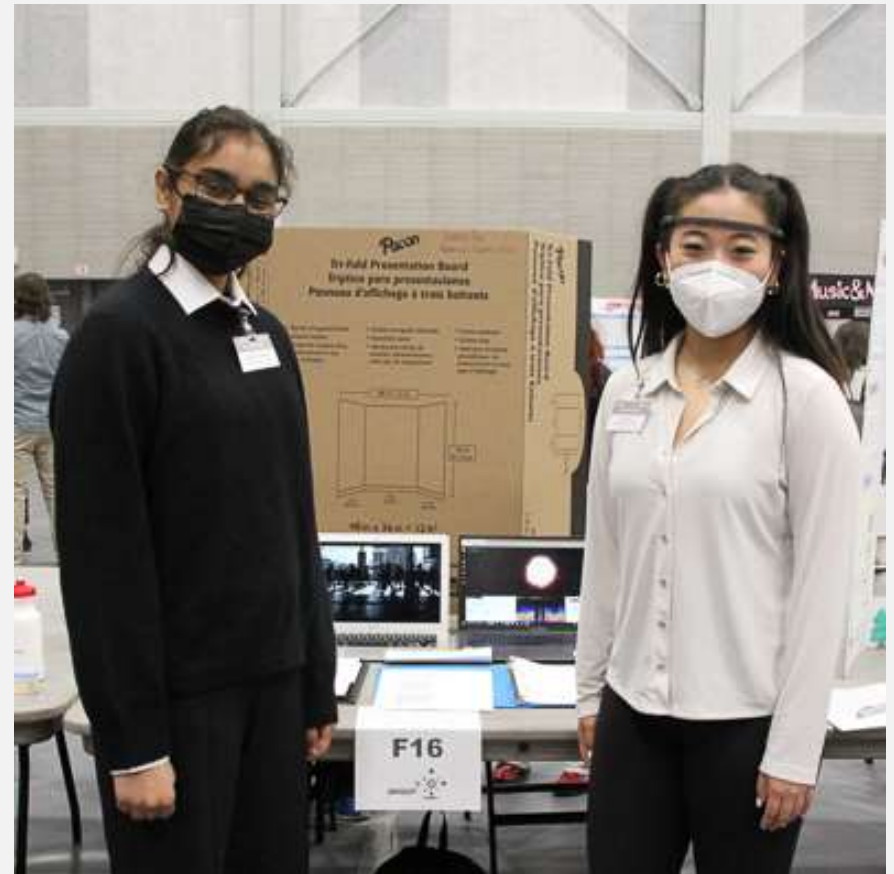
Silver

Emma Li & Shruthi Konduru

F16

Alleviating inhibitors to motor ability through
Syntaphilian abolition via Stem Cells

White Oaks Secondary School
Oakville



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Silver

Maya Parachin

G07

THE FRYTASTIC FRY FIT

Oakville Christian School
Oakville



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Silver

Weronika Szymala & Yuba Jim

G11

Cell Phone Spectrophotometer

Bishop Ryan Secondary School
Hamilton



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Silver

Clara Jonkman

G12

Health Properties of Kombucha

Westdale Secondary School
Hamilton



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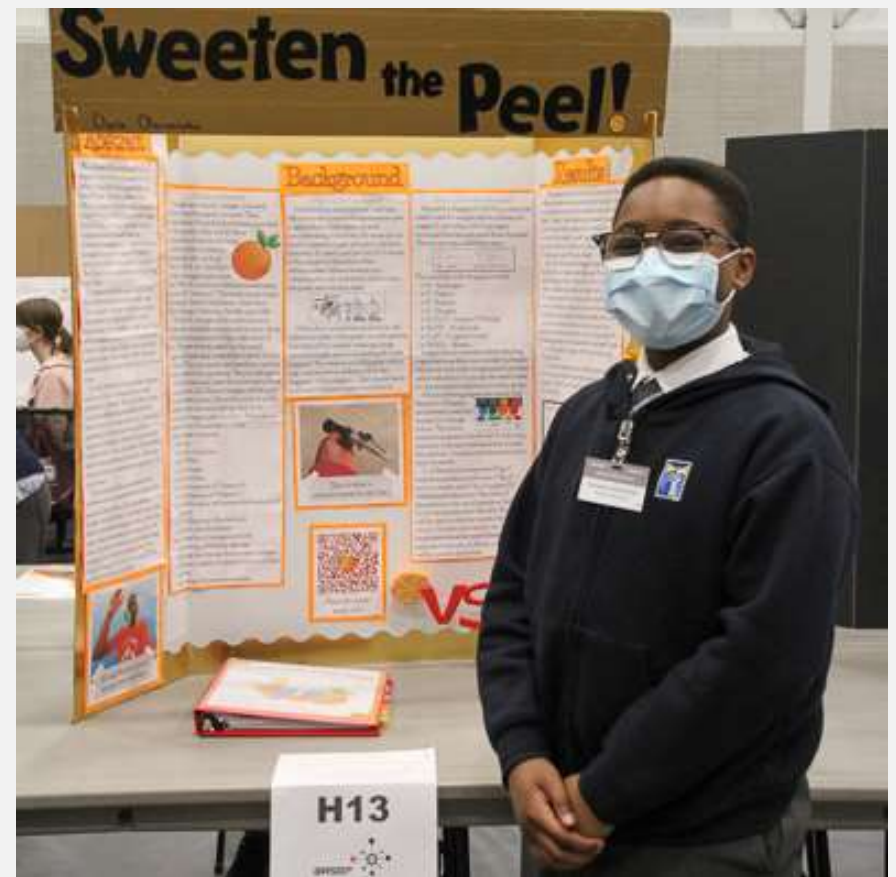
Silver

Darasimi Oloruntoba

H13

Sweeten The Peel

Oakville Christian School
Oakville



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Silver

Emily Zhao & Allen Yan

J01

Future in Spinal Cord Injury Treatments: a Review and
Demonstration of Current Experiments

Oakville Trafalgar High School
Oakville



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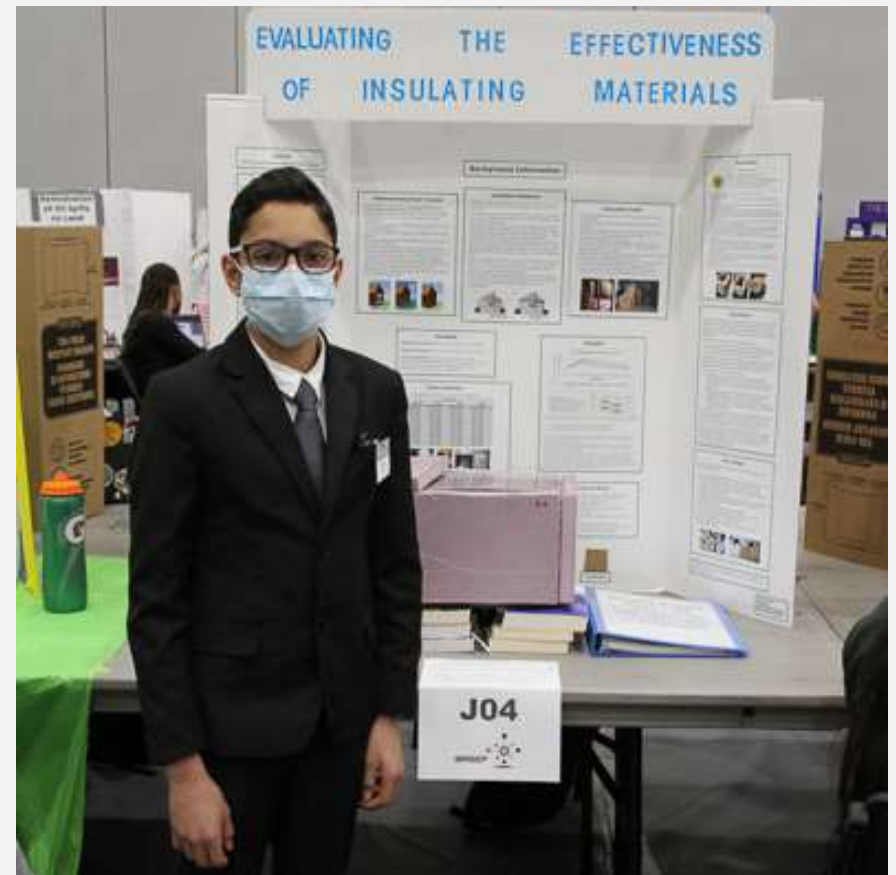
Silver

Eesa Latif

J04

Investigating the Effectiveness of Insulation

Al-Falah Islamic School
Oakville



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Silver

Ali Kefel

J11

An Analysis of Path Planning Algorithms like D* for more Efficient and Optimal Missions

Westdale Secondary School
Hamilton



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Silver

Akshin Makkar

J14

Optimizing Dye-Sensitized Solar Cell's (DSSC's) by
Concentration Variation

King's Christian Collegiate
Oakville



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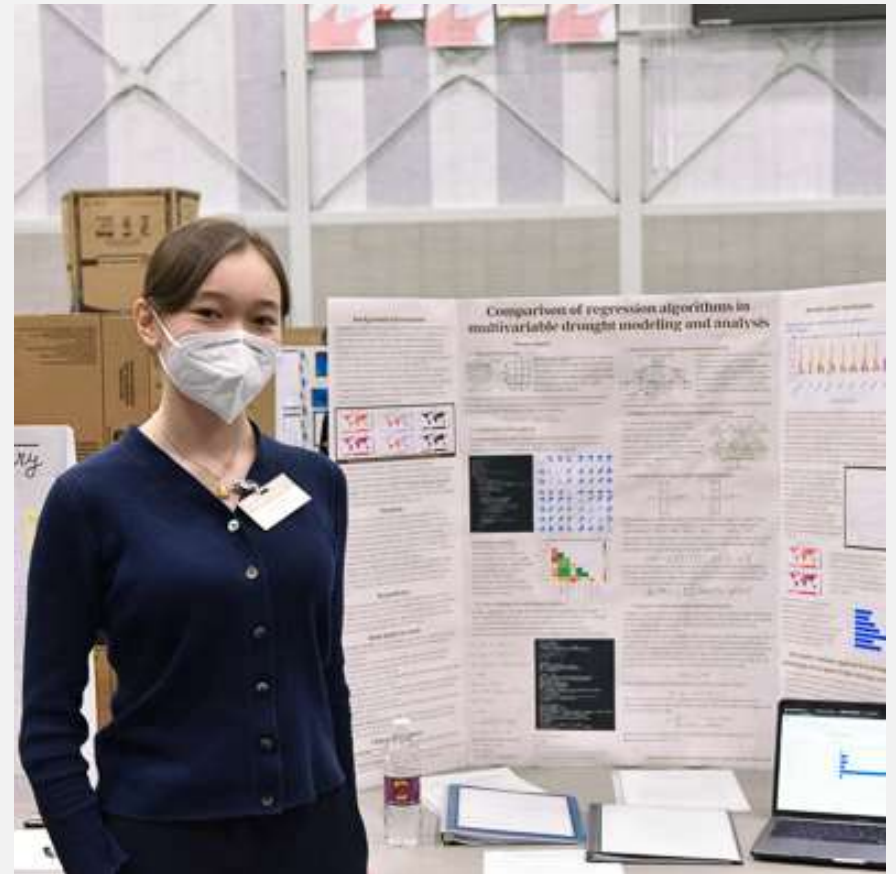
Silver

Maria Chzhen

K09

Comparison of regression algorithms for multivariable drought analysis

Westdale Secondary School
Hamilton



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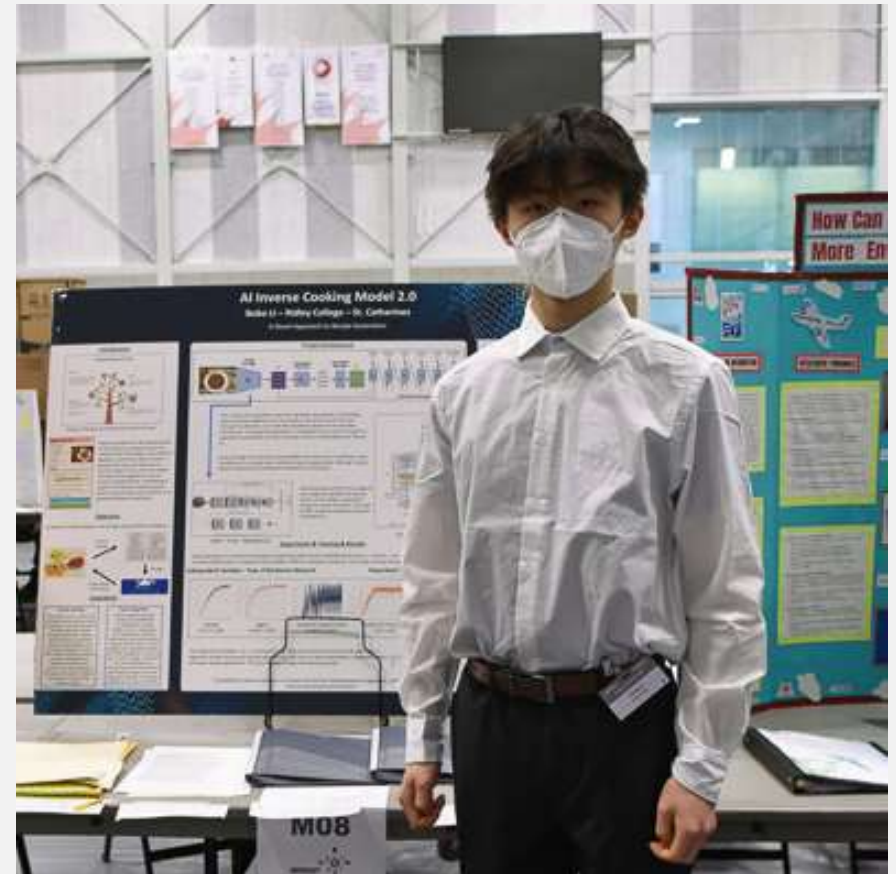


Silver

Ziang Li

M08
Inverse Cooking Model 2

Ridley College
St. Catharines



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Silver

William Johnson

M10
Gerbil Power

Guy B. Brown
Hamilton



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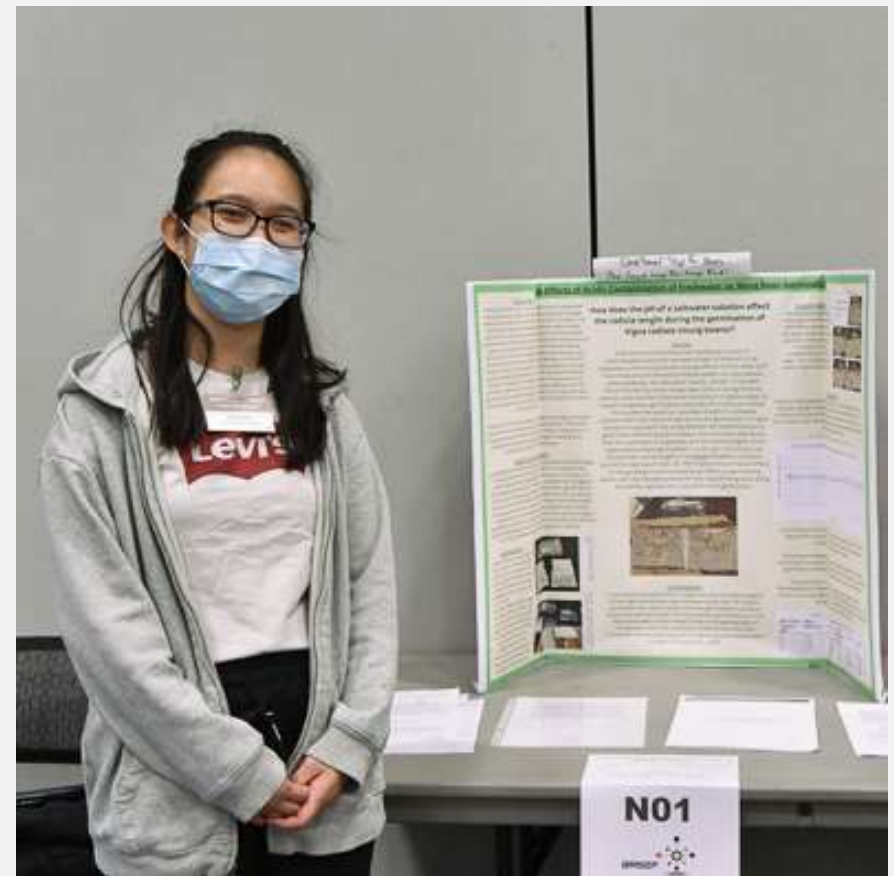
Silver

Hong Ngo

N01

The Effects of Acidic Contamination of Freshwater on
Mung Bean Germination

Westdale Secondary School
Hamilton



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Silver

Alida Truant

N10

Is HPV more than just an STI?

Frank Panabaker South
Hamilton



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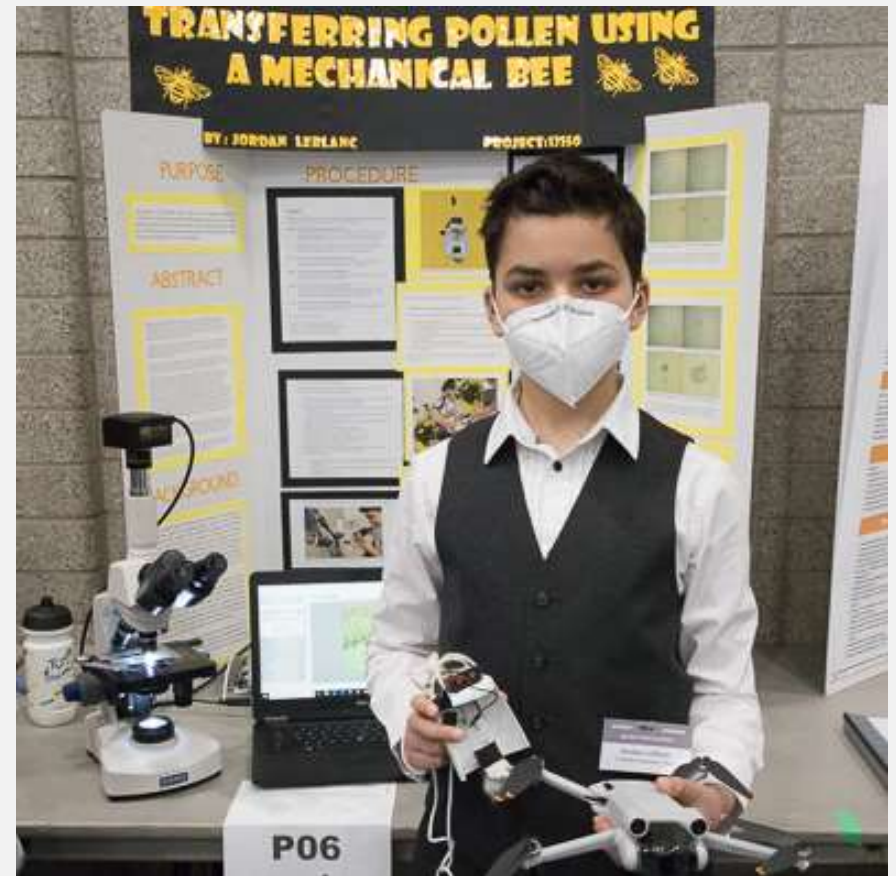
Silver

Jordan LeBlanc

P06

Transferring Pollen Using a Mechanical Bee

St. Matthew Elementary School
Oakville



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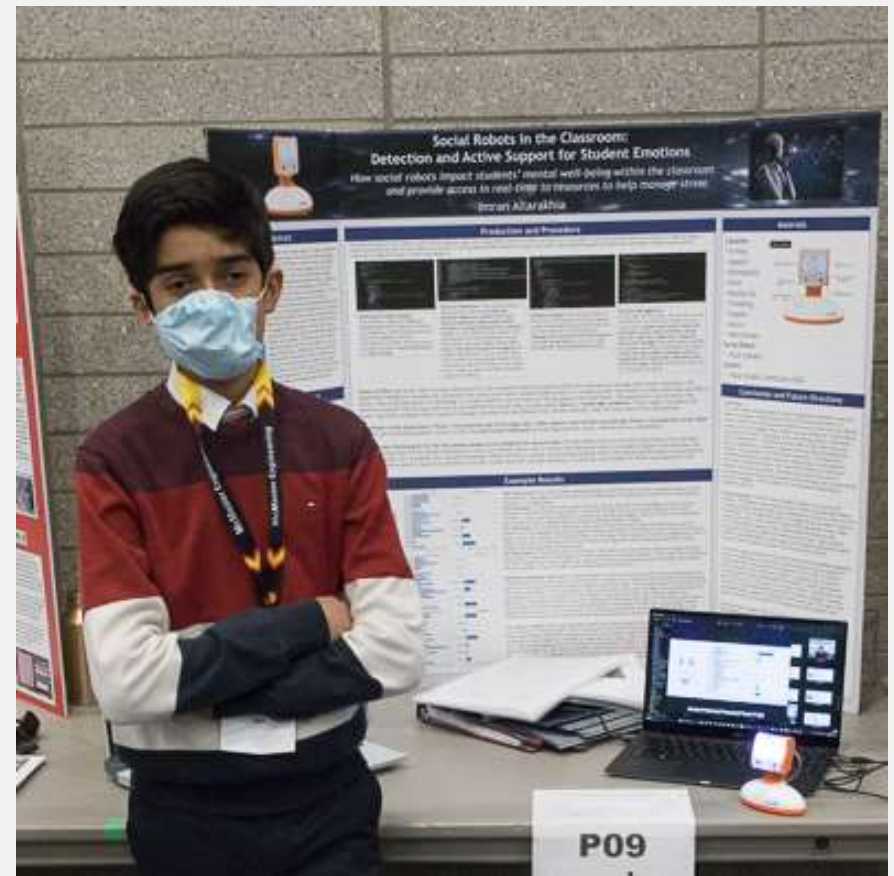
Silver

Imran Allarakhia

P09

Social Robots in the Classroom: Detection and Active Support for Student Emotions

W. H. Morden Public School
Oakville



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Silver

Jason Bae

P10

ADHD Treatment: Finding the Effectiveness of Fine Motor Learning on Attention Levels

King's Christian Collegiate
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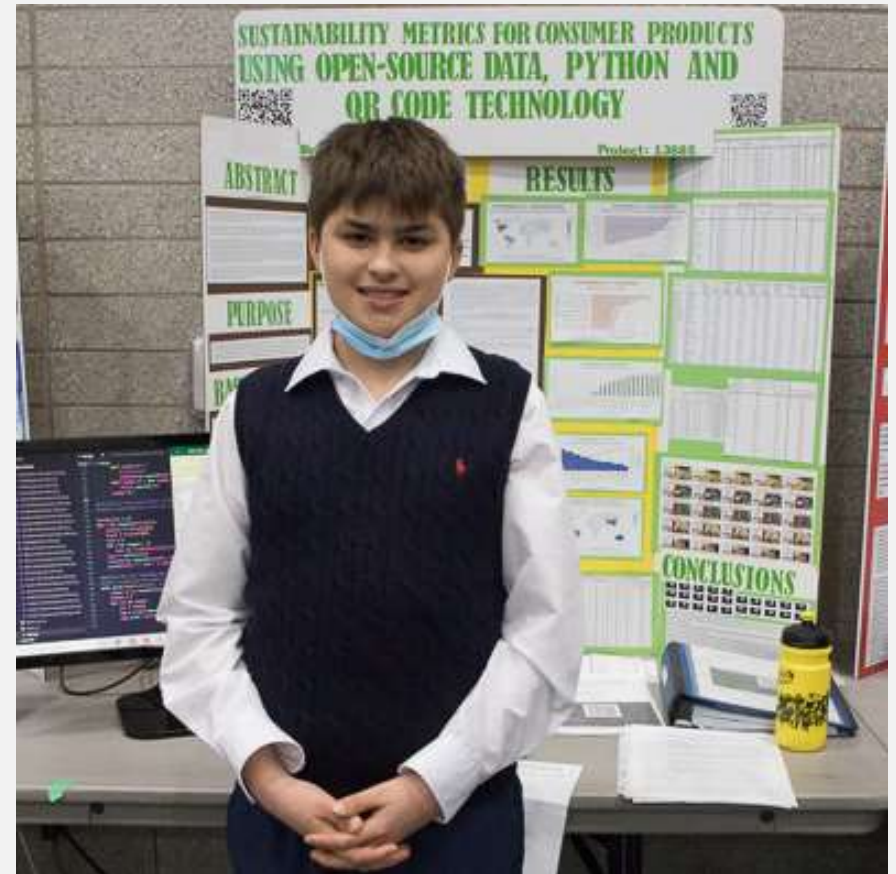
Silver

Jacob LeBlanc

P11

Sustainability Metrics For Consumer Products Using
Open Source Data, Python and QR Code Technology

Pilgrim Wood Public School
Oakville



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Silver

Karthik Chawla

P14

Imagine - Generating Green hydrogen for the world

W. H. Morden Public School
Oakville



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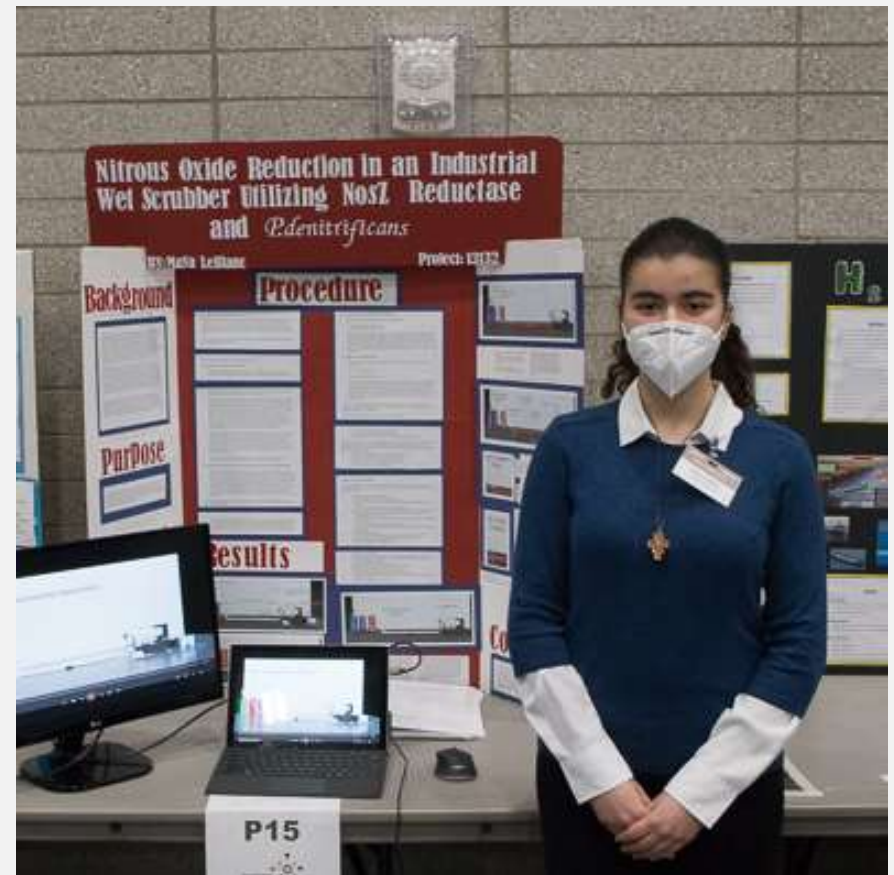
Silver

Maya LeBlanc

P15

Nitrous Oxide Reduction in an Industrial Wet Scrubber Utilizing NosZ Reductase and *P. denitrificans*

Abbey Park High School
Oakville



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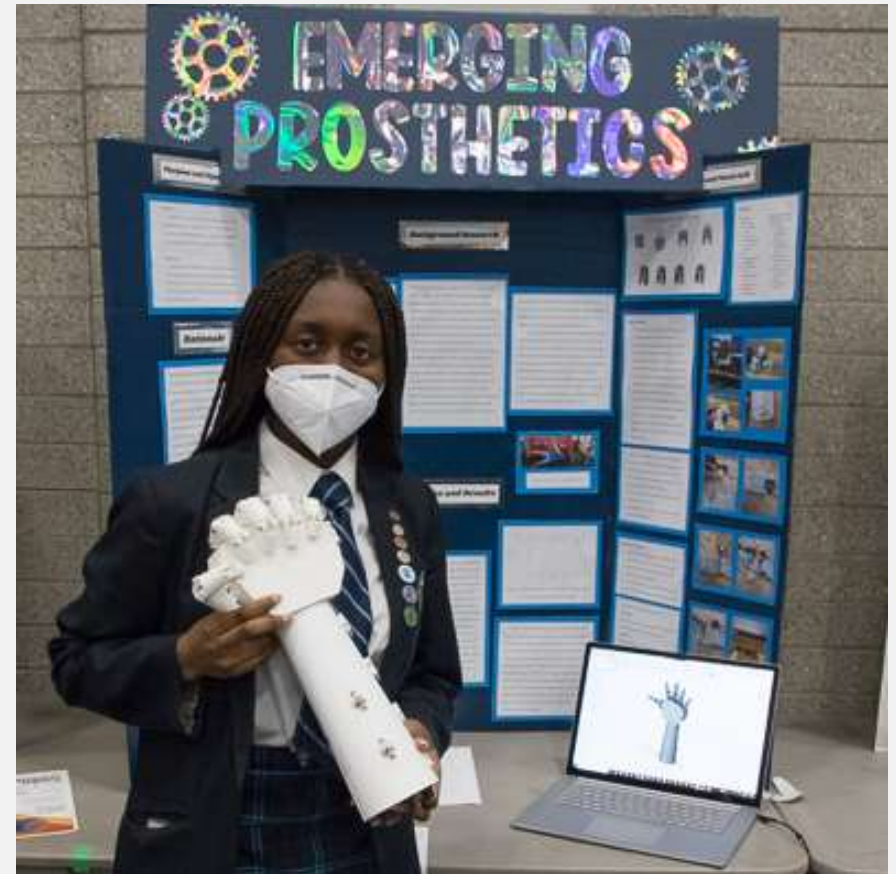


Silver

Misimi Sanni

P17
Emerging Prosthetics

Appleby College
Oakville



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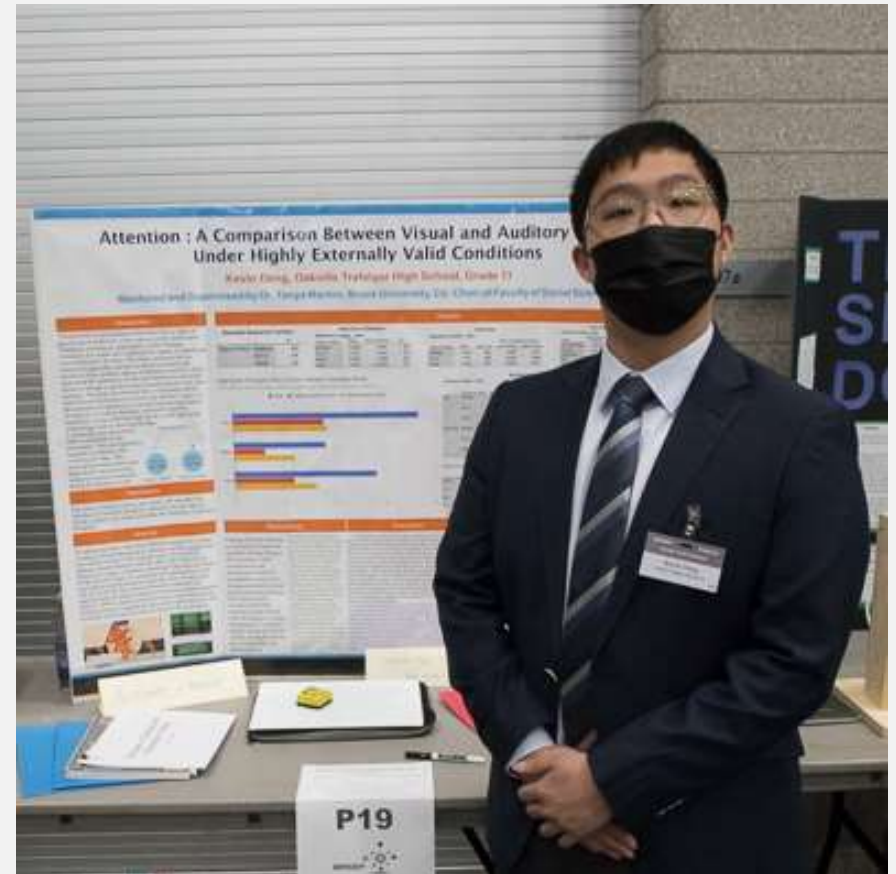
Silver

Kevin Deng

P19

Attention: A Comparison Between Visual and Auditory Stimuli Under Highly Externally Valid Conditions

Oakville Trafalgar High School
Oakville



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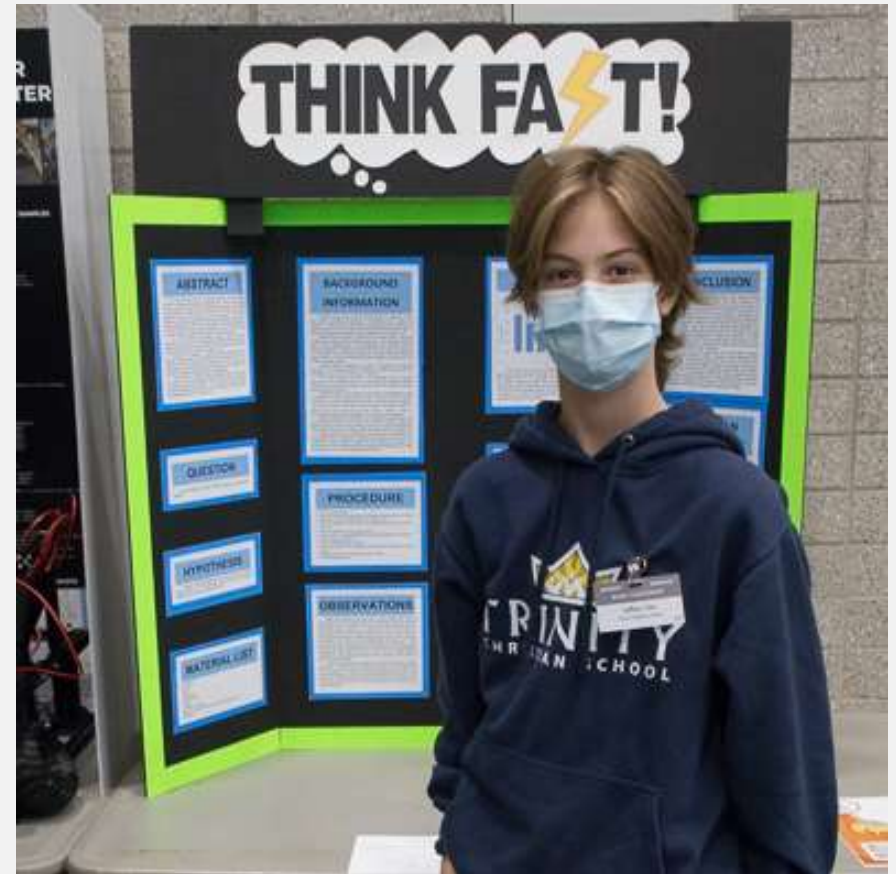


Silver

Jeffrey Ion

P22
Think Fast!

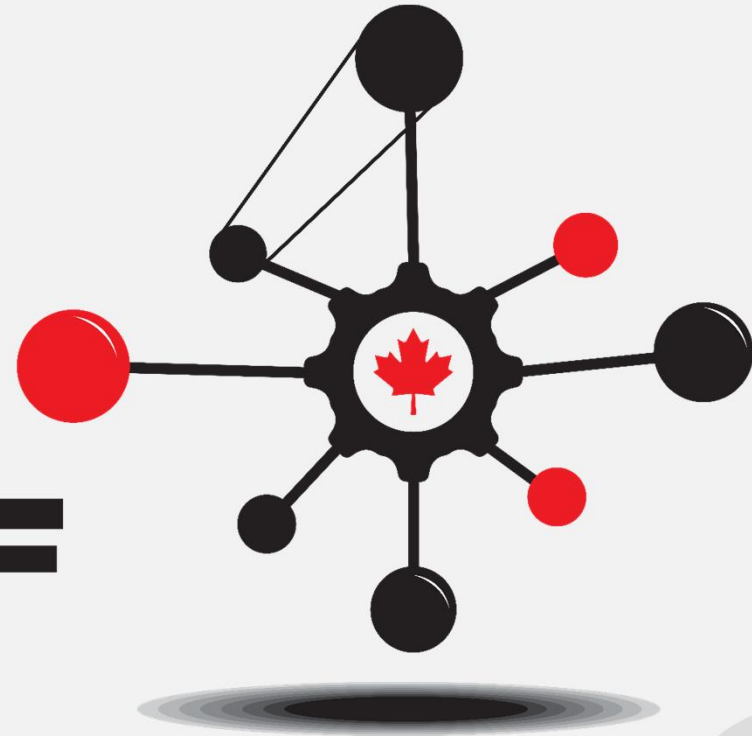
Trinity Christian School
Burlington



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Gold Merit Awards



BASEF





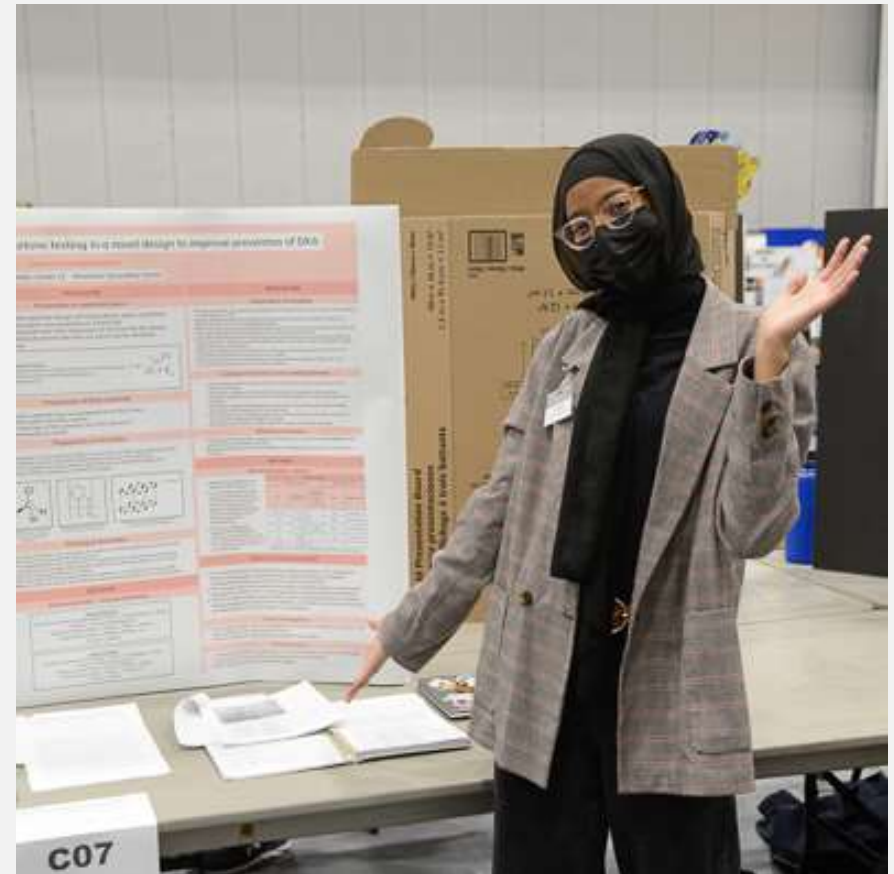
Gold

Isra Bashir

C07

Sugar High! - Integrating glucose and ketone testing
in a novel design to improve prevention of DKA

Westdale Secondary School
Hamilton



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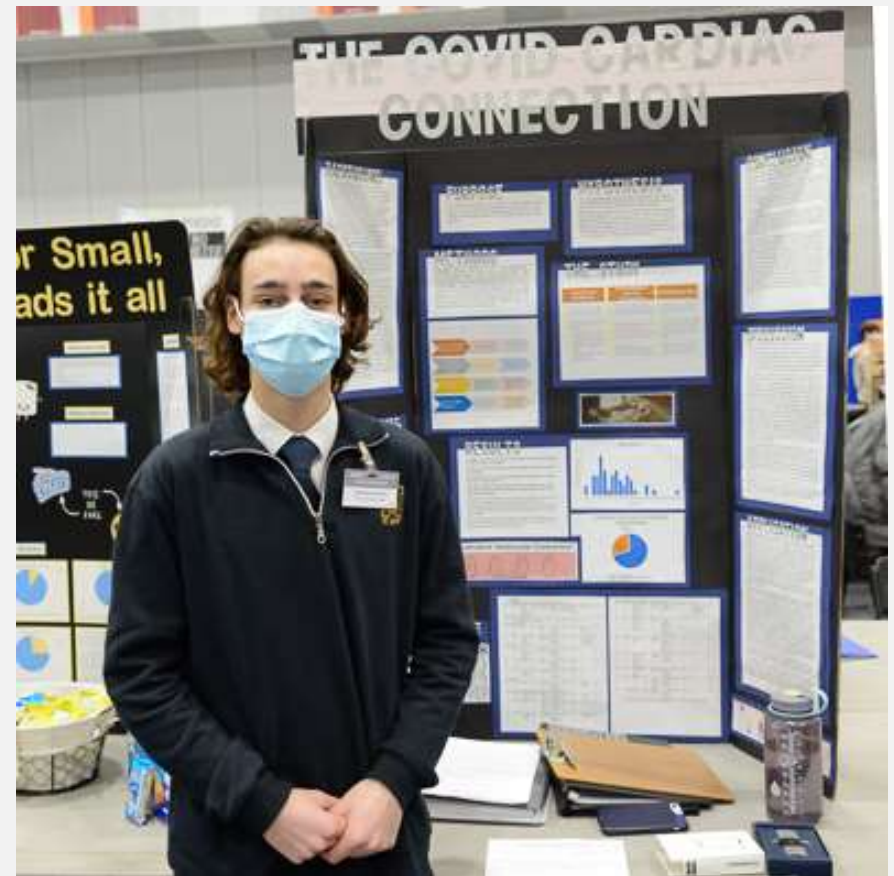
Gold

Nicholas Pacifici

E13

The COVID Cardiac Connection: A Novel Pre-participation Screening Tool

St. Mary Secondary School
Hamilton



ArcelorMittal



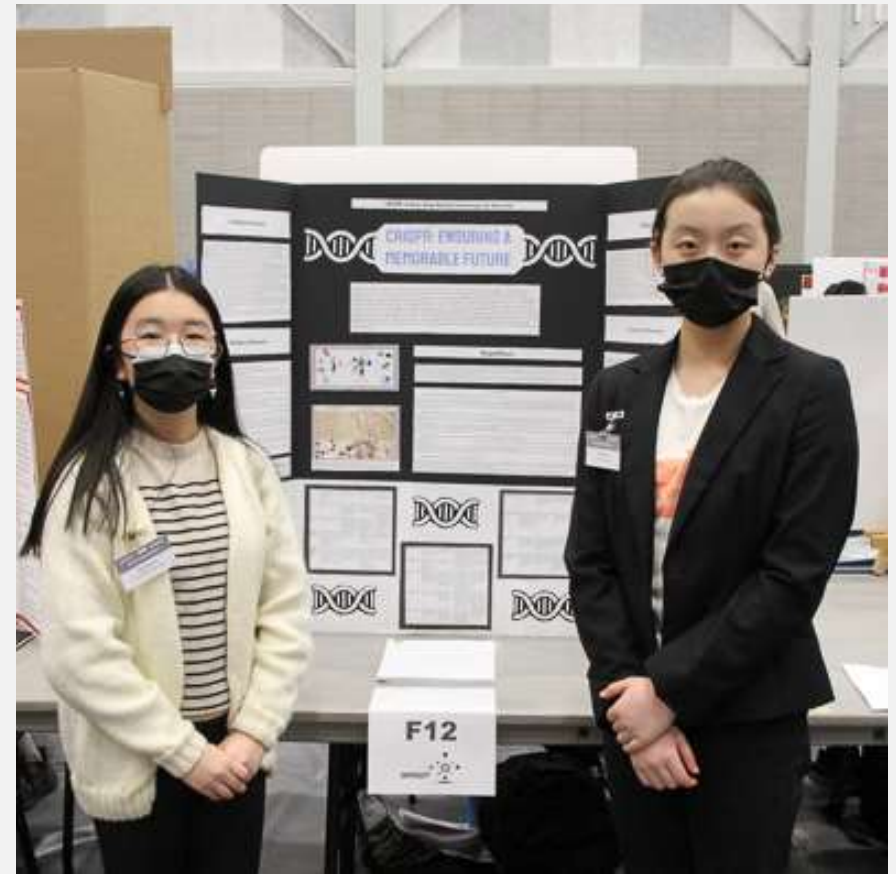
Gold

Siqi Tan & Yüewen Li

F12

CRISPR: Ensuring a Memorable Future

W. H. Morden Public School
Oakville



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Gold

Anthony Efthimiadis

L16

Development of an AI Convolutional Neural Network
for Diagnostic Screening of Basal Cell Carcinoma

W. H. Morden Public School
Oakville



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Gold

Zixuan Li

M12

Bionic Squid-inspired Robot Facilitating Underwater
Monitorization and Preservation of Coral Reefs

Ridley College
St. Catharines



ArcelorMittal





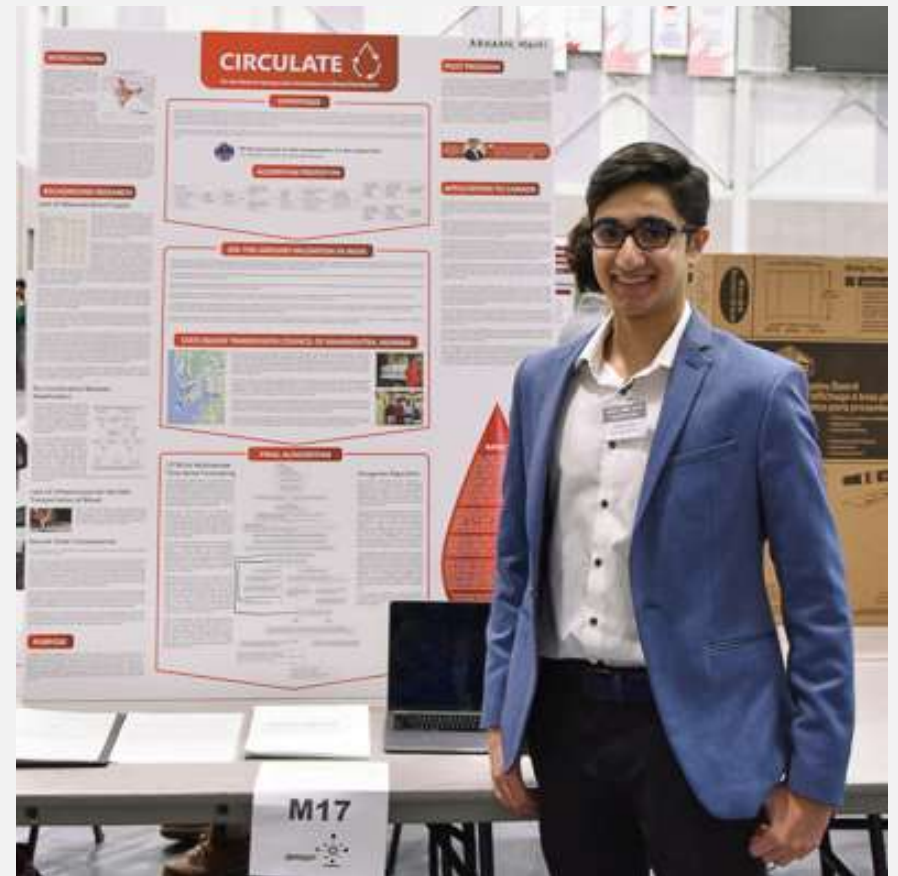
Gold

Aahaan Maini

M17

Circulate: Designing an Algorithmic Blood Distribution System to Tackle the Indian Blood Shortage

Oakville Trafalgar High School
Oakville



ArcelorMittal





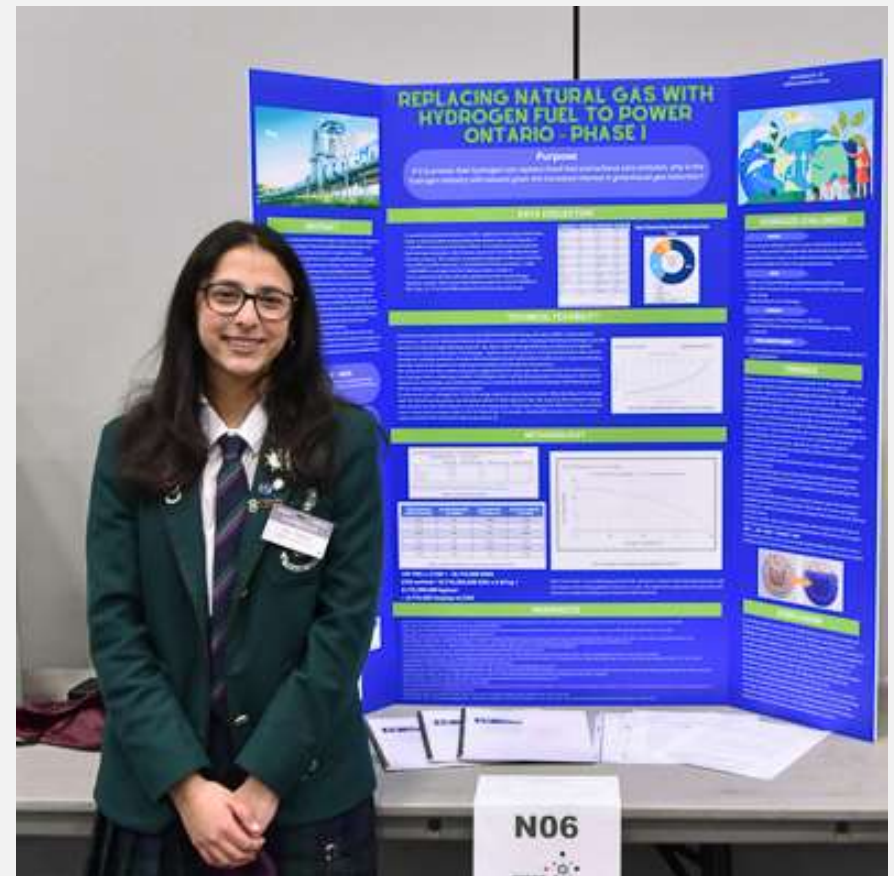
Gold

Alia Wahban

N06

Replacing Natural Gas with hydrogen Fuel to Power Ontario (Phase 1)

Hillfield Strathallan College
Hamilton



ArcelorMittal





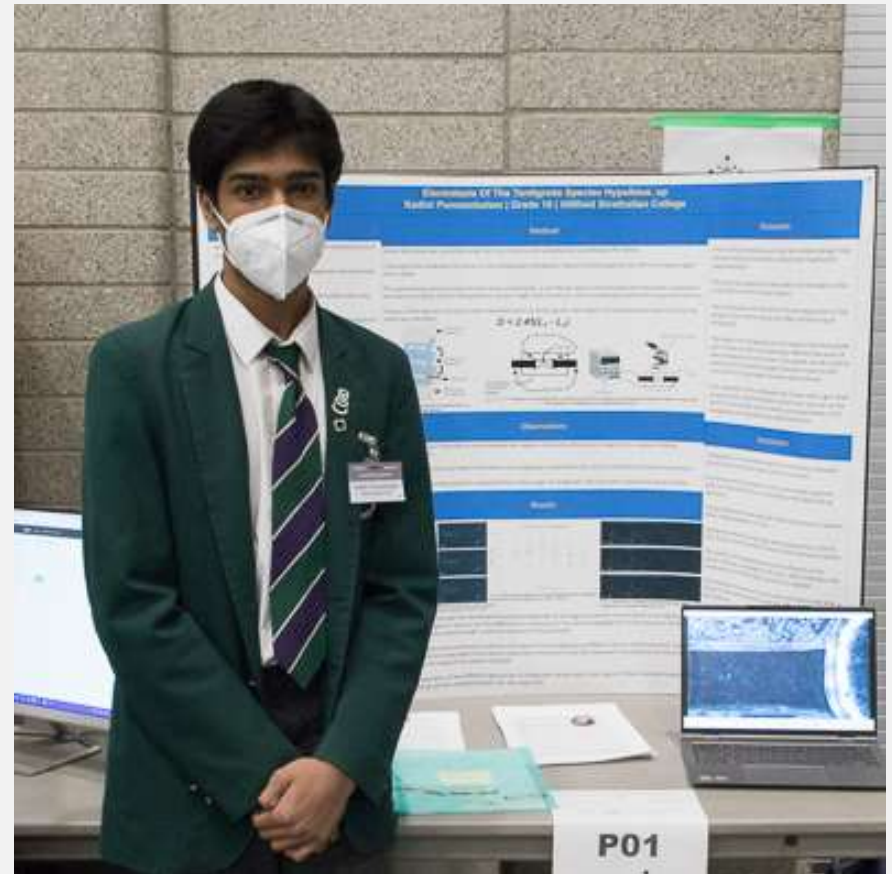
Gold

Kadhir Ponnambalam

P01

Electrotaxis Of The Tardigrade Species Hypsibius. sp

Hillfield Strathallan College
Hamilton



ArcelorMittal





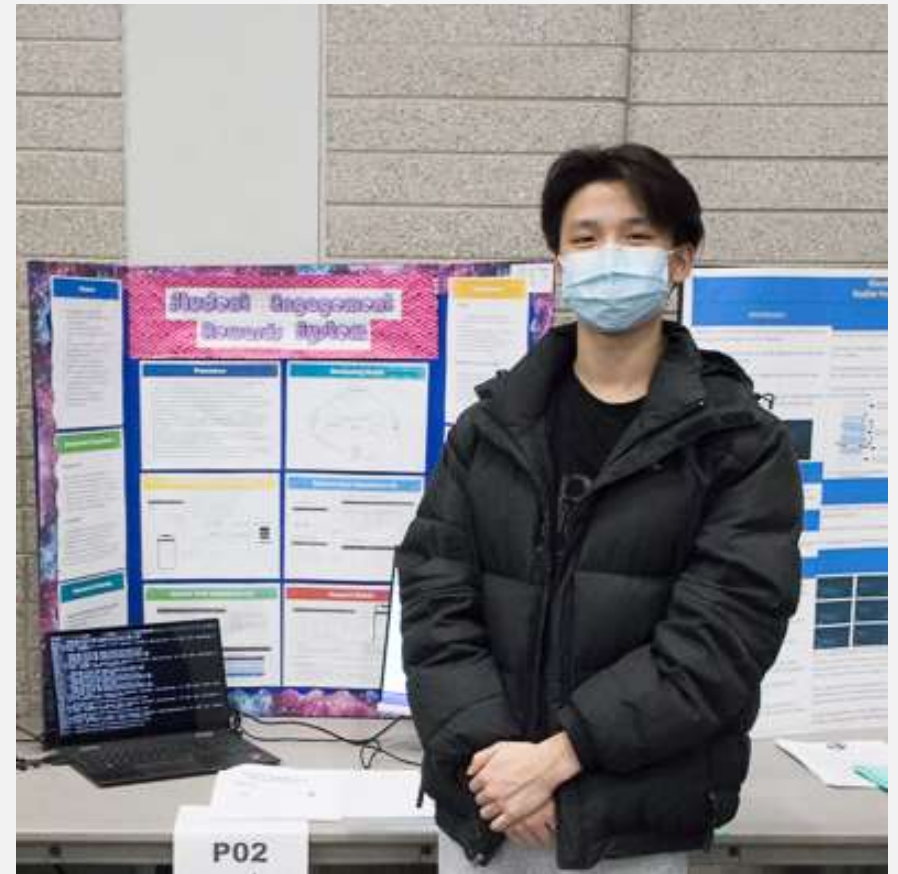
Gold

Brian Yin

P02

Student Engagement Rewards System

Iroquois Ridge High School
Oakville



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Gold

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



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Please Congratulate
our
Merit Winners



Grand Awards



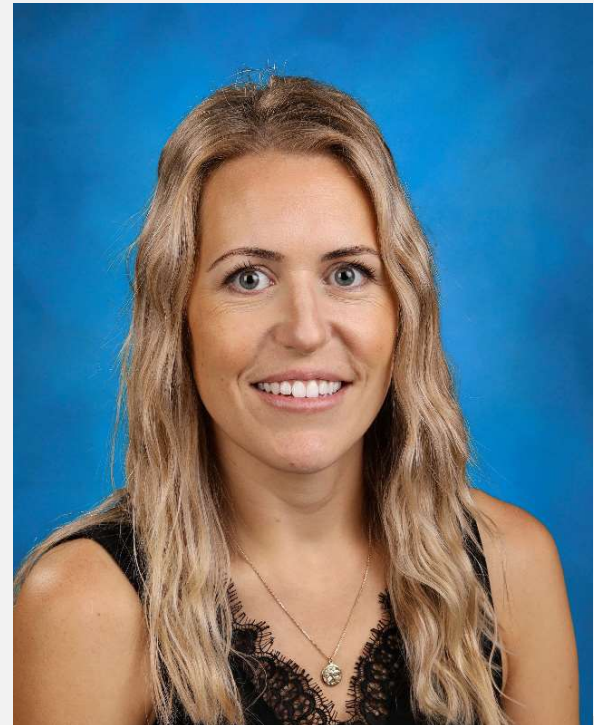
Champion Teacher

Champion Teacher



Mme. Chantal Drolet

**Munn's Public School
HDSB**



School Awards



BASEF Committee Trophy (Elementary Schools)



BASEF Committee Trophy



**W.H. Morden
Public School**



Herb Gildea Memorial Trophy (Secondary Schools)



Herb Gildea Memorial Trophy



**Oakville Trafalgar
High School**



Chairs' Award



Chairs' Award

Conner Ballard

L05

Testing Adhesives Limits and Strengths

Charles R. Beaudoin Public School
Burlington



Roy Middleton Award

Best Junior Project

BASEF 2023



Roy Middleton Memorial Award

Anthony Efthimiadis

L16

Development of an AI Convolutional Neural Network
for Diagnostic Screening of Basal Cell Carcinoma

W. H. Morden Public School
Oakville



Drs. Ranjan and Monalisa Sur Award - Best High School Project



Drs. Ranjan Sur and Monalisa Sur
Award

Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon





Primary Fluid Systems Inc.

Pinnacle Awards & Trophies

Pinnacle Award & Trophy Best Overall Project Third Place





Primary Fluid Systems Pinnacle Third Best in Fair

Anthony Efthimiadis

L16

Development of an AI Convolutional Neural Network
for Diagnostic Screening of Basal Cell Carcinoma

W. H. Morden Public School
Oakville



Pinnacle Award & Trophy Best Overall Project Second Place





Primary Fluid Systems Pinnacle Second Best in Fair

Isra Bashir

C07

Sugar High! - Integrating glucose and ketone testing
in a novel design to improve prevention of DKA

Westdale Secondary School
Hamilton



Pinnacle Award & Trophy Best Overall Project First Place





Primary Fluid Systems Pinnacle Best in Fair

Anthony Saturnino

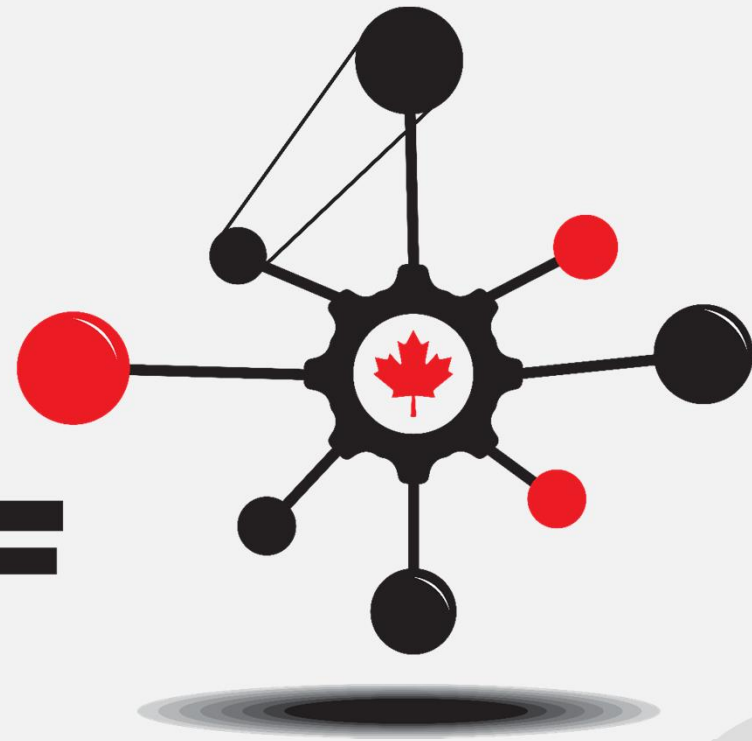
P23

Pothole Patrol: An Innovative Robotic Solution for
Road Maintenance Using Sustainable Materials

Bishop Ryan Secondary School
Hannon



BASCF



Trip Awards



Canada-Wide Science Fair Trip Award

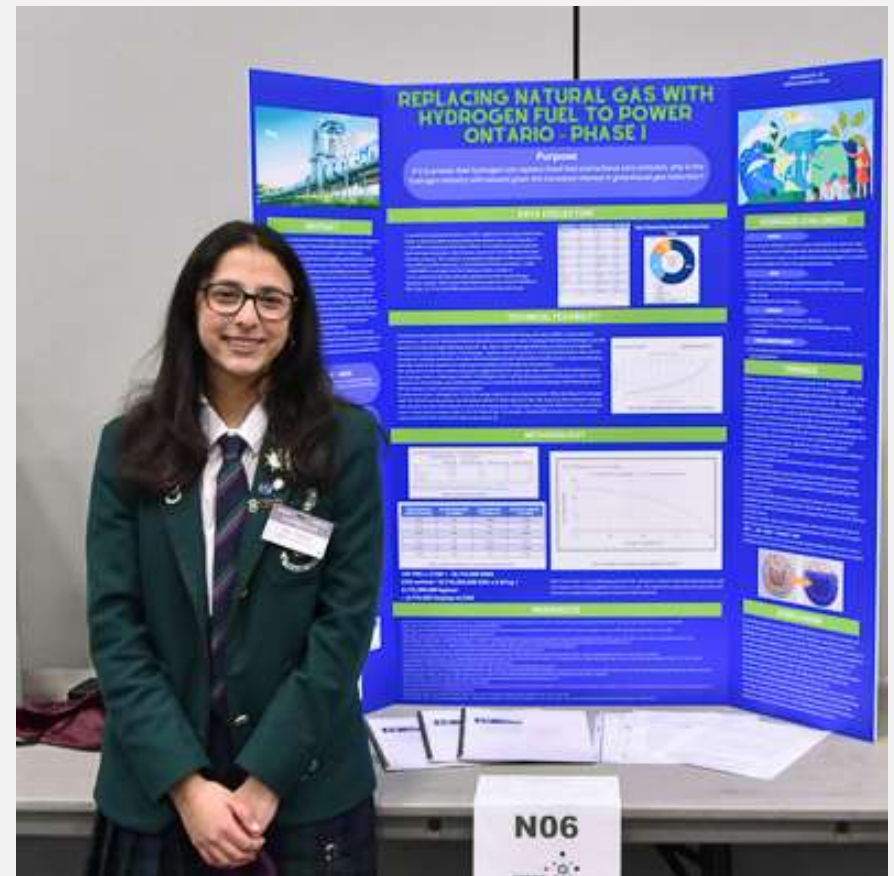
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Alia Wahban

N06

Replacing Natural Gas with hydrogen Fuel to Power
Ontario (Phase 1)

Hillfield Strathallan College
Hamilton



Canada-Wide Science Fair Trip Award

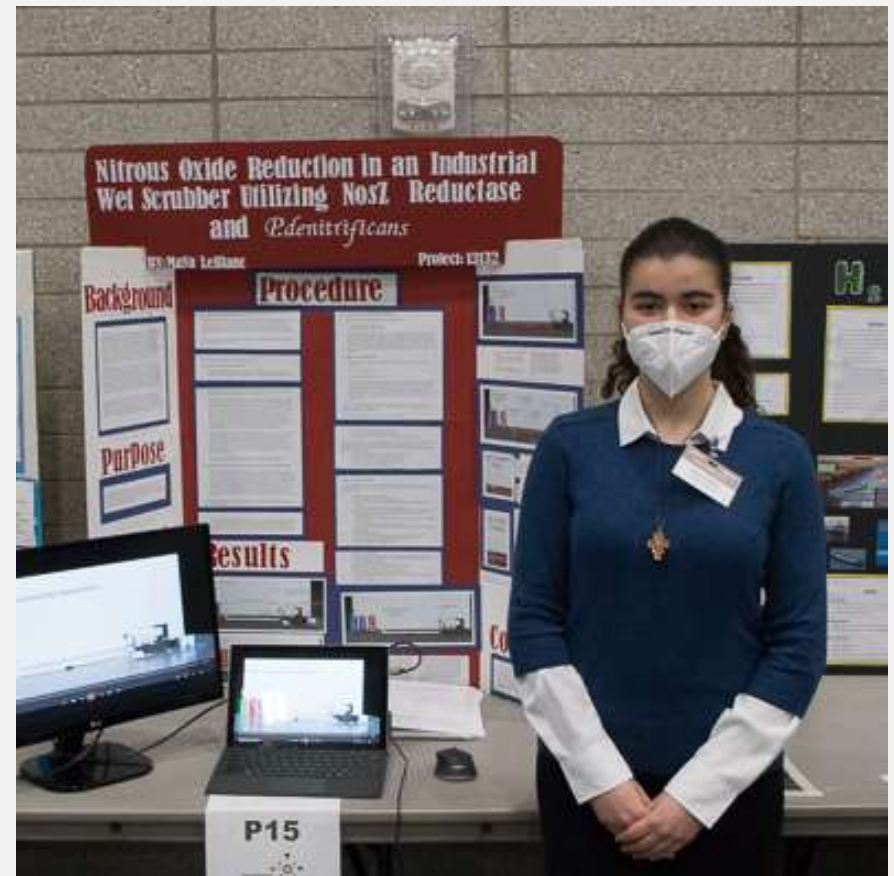
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Maya LeBlanc

P15

Nitrous Oxide Reduction in an Industrial Wet Scrubber Utilizing NosZ Reductase and *P. denitrificans*

Abbey Park High School
Oakville



Canada-Wide Science Fair Trip Award

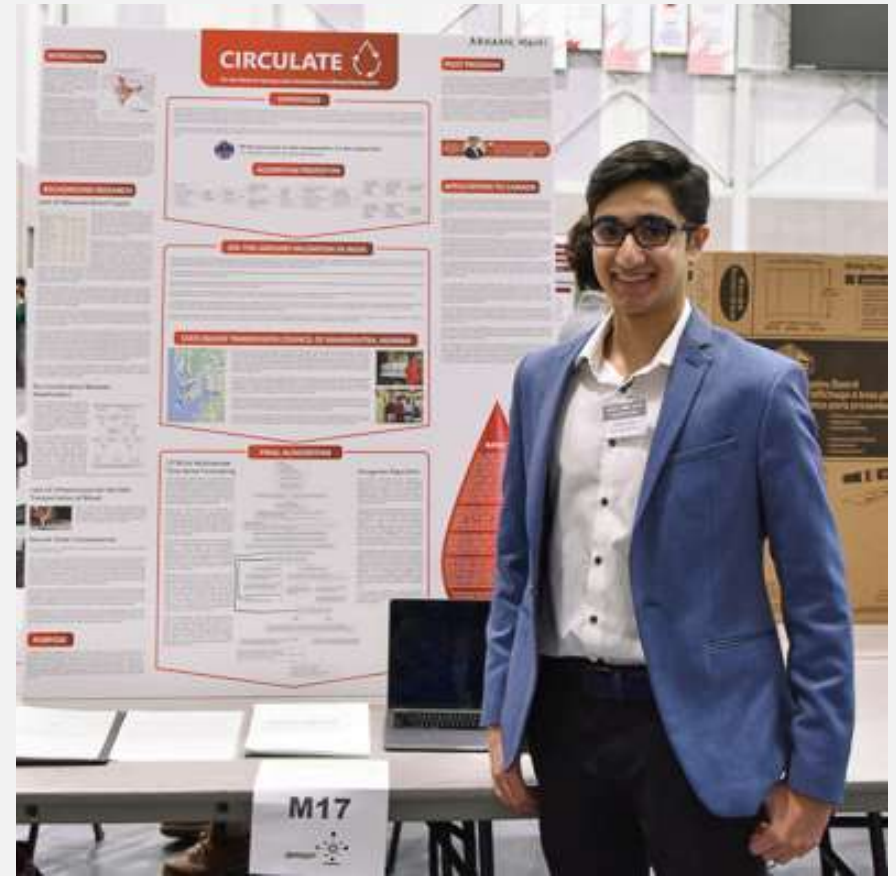
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Aahaan Maini

M17

Circulate: Designing an Algorithmic Blood Distribution System to Tackle the Indian Blood Shortage

Oakville Trafalgar High School
Oakville



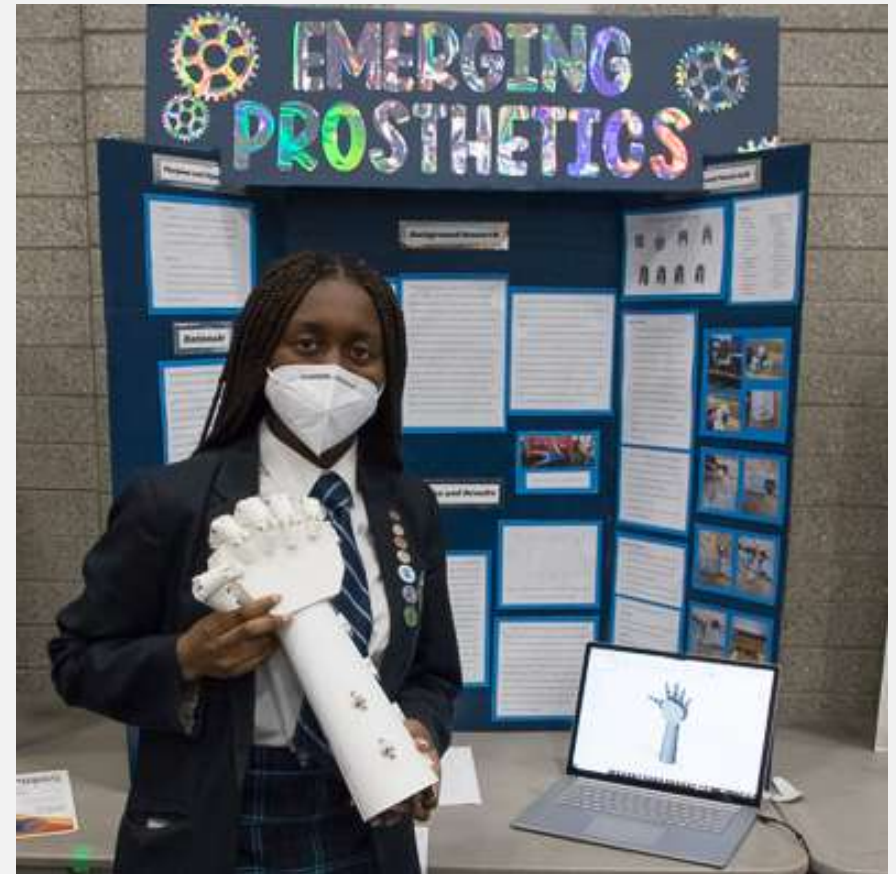
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Misimi Sanni

P17
Emerging Prosthetics

Appleby College
Oakville



Canada-Wide Science Fair Trip Award

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Jason Bae

P10

ADHD Treatment: Finding the Effectiveness of Fine
Motor Learning on Attention Levels

King's Christian Collegiate
Oakville



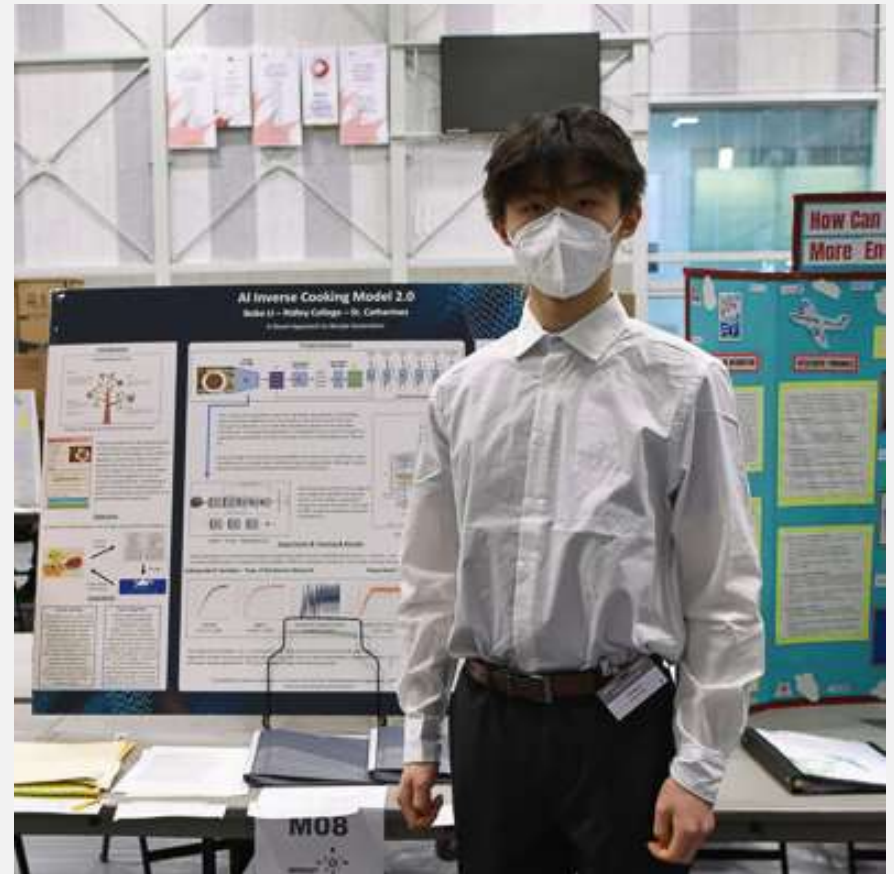
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District School Board

Ziang Li

M08
Inverse Cooking Model 2

Ridley College
St. Catharines



Canada-Wide Science Fair Trip Award

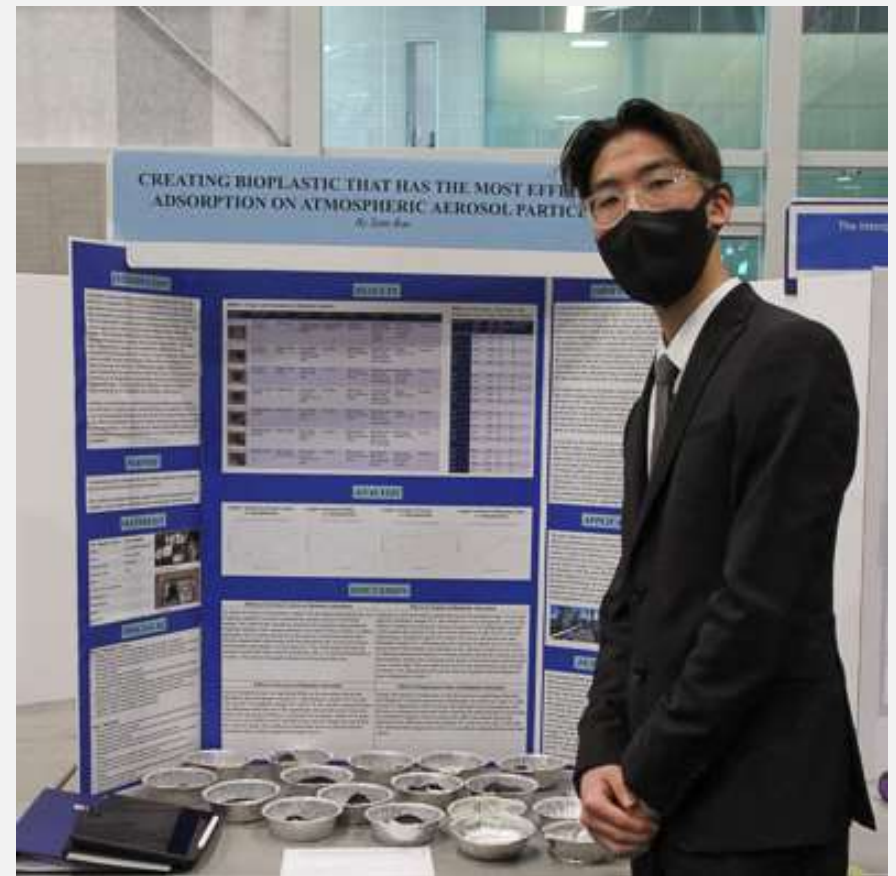
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Sam Bae

F02

Creating bioplastic that has the most effective
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King's Christian Collegiate
Oakville



Canada-Wide Science Fair Trip Award

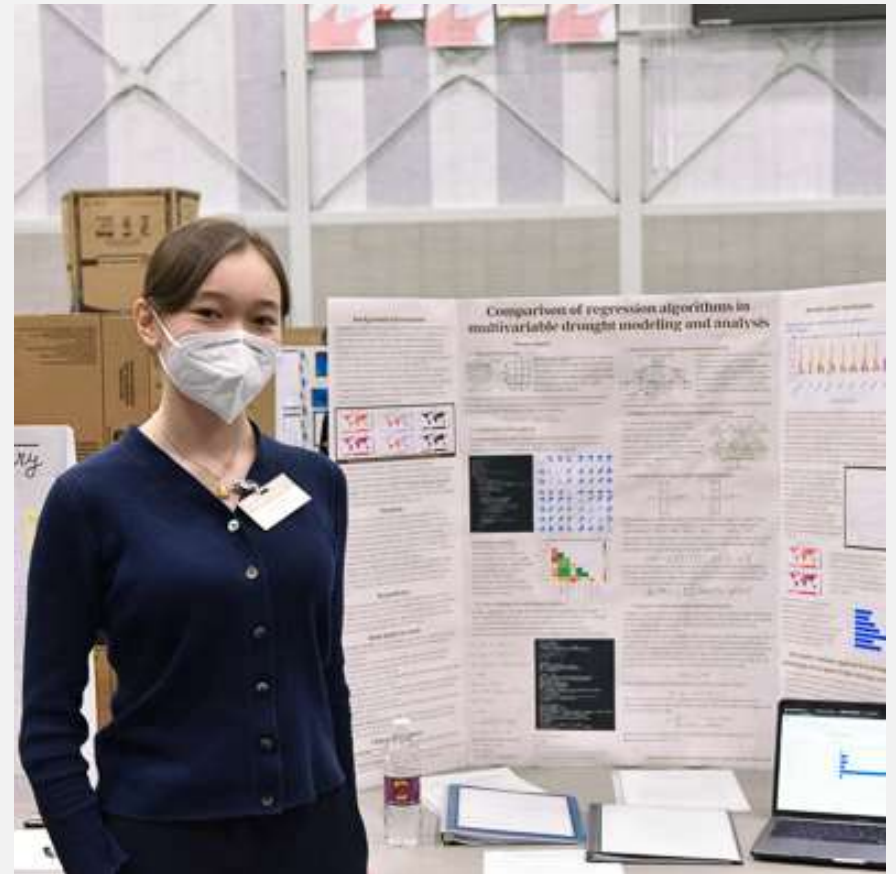
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Maria Chzhen

K09

Comparison of regression algorithms for multivariable
drought analysis

Westdale Secondary School
Hamilton



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Anthony Efthimiadis

L16

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W. H. Morden Public School
Oakville



Canada-Wide Science Fair Trip Award

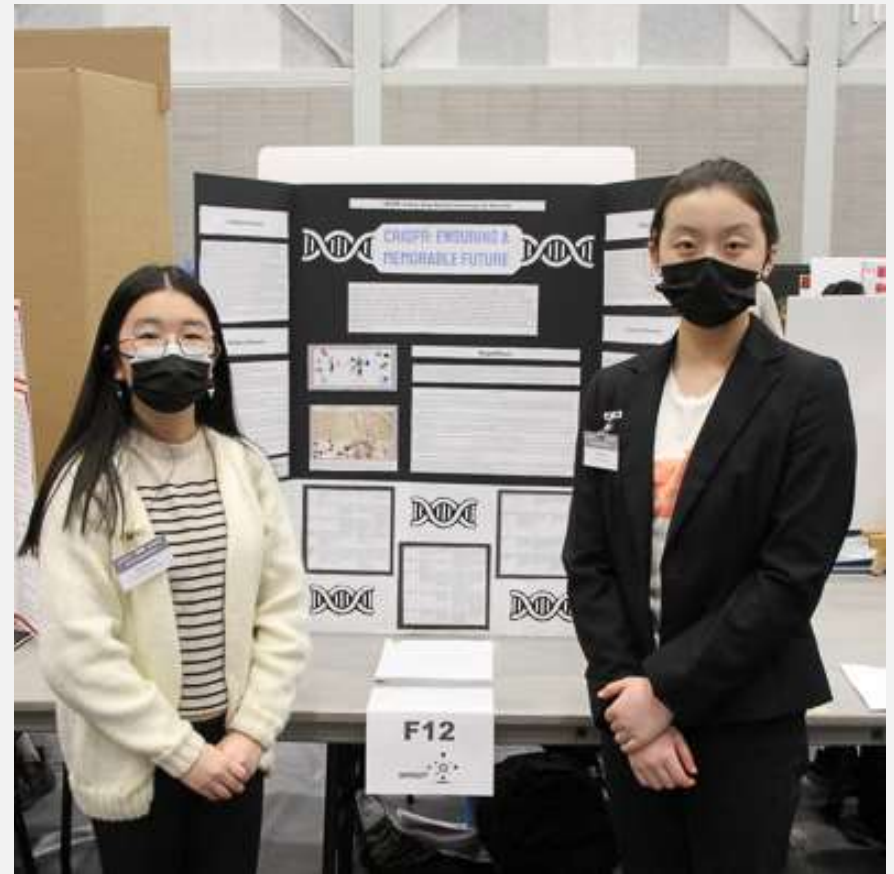
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Siqi Tan & Yuewen Li

F12

CRISPR: Ensuring a Memorable Future

W. H. Morden Public School
Oakville



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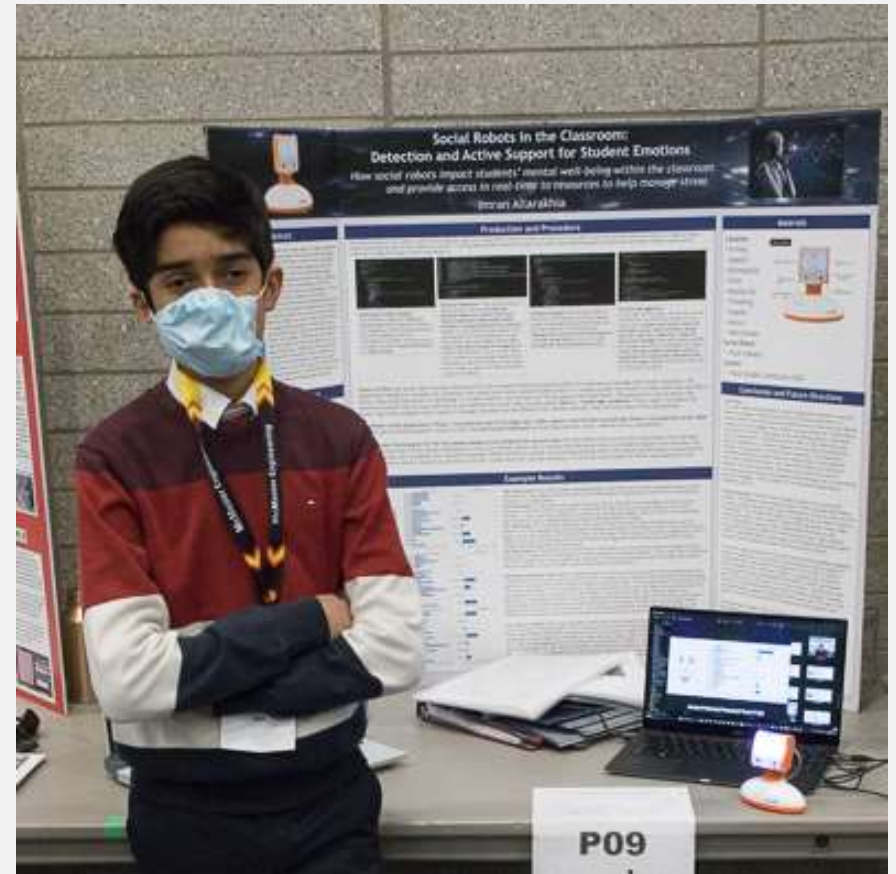
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Imran Allarakhia

P09

Social Robots in the Classroom: Detection and Active Support for Student Emotions

W. H. Morden Public School
Oakville



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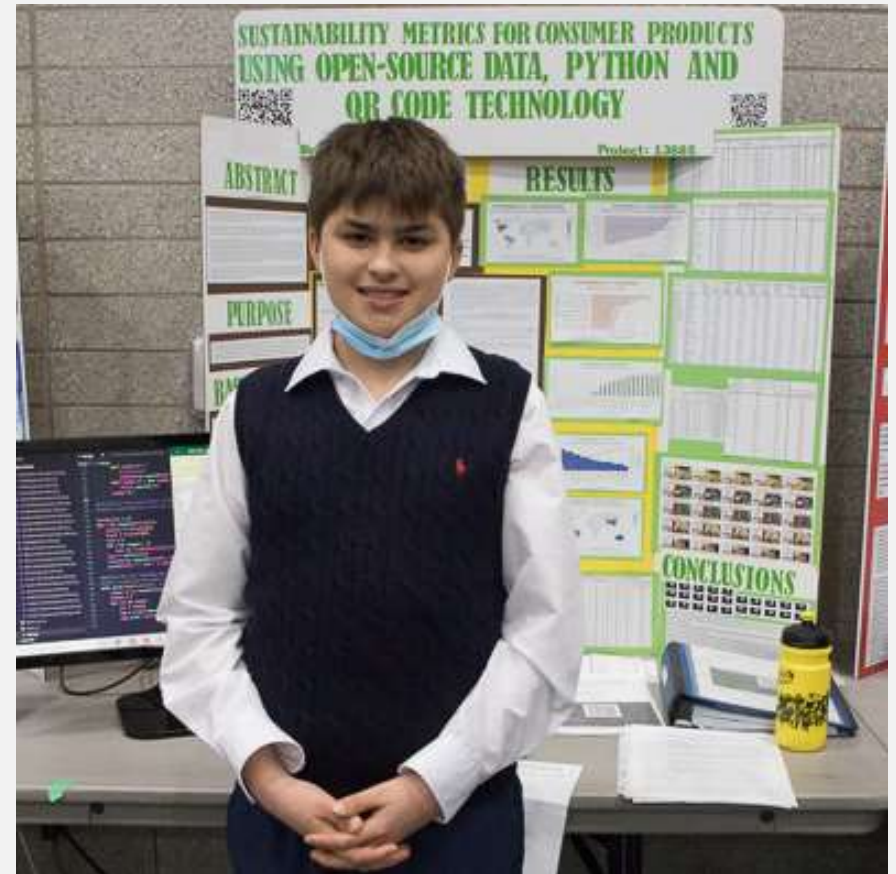
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Jacob LeBlanc

P11

Sustainability Metrics For Consumer Products Using
Open Source Data, Python and QR Code Technology

Pilgrim Wood Public School
Oakville



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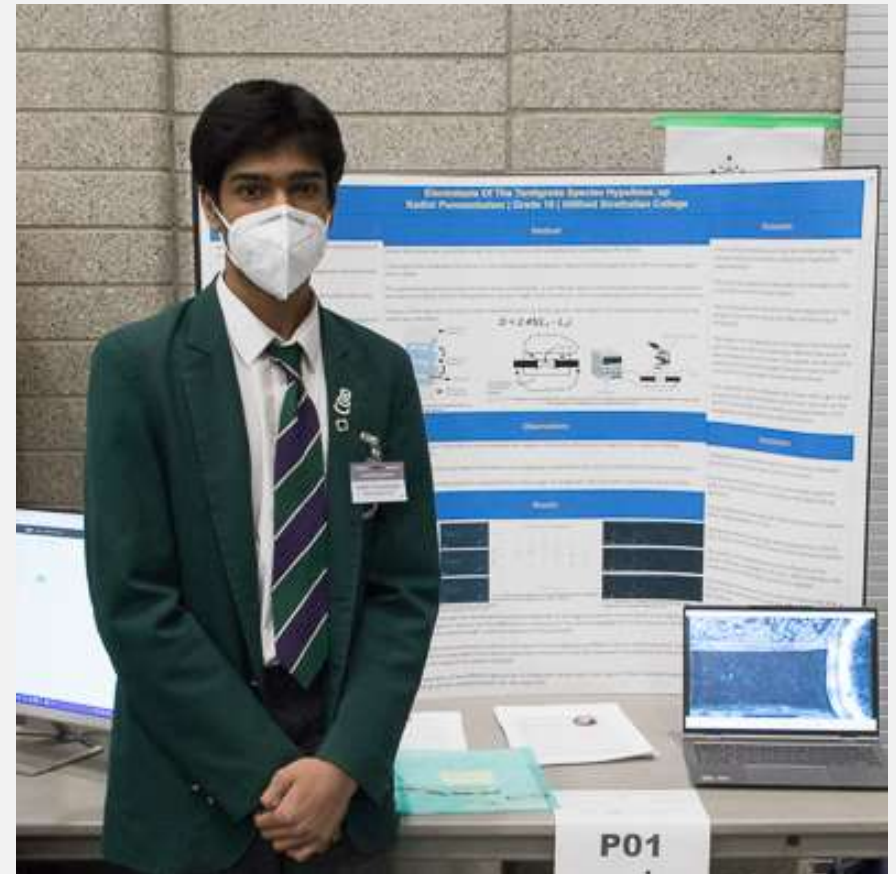
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Kadhir Ponnambalam

P01

Electrotaxis Of The Tardigrade Species *Hypsibius. sp*

Hillfield Strathallan College
Hamilton



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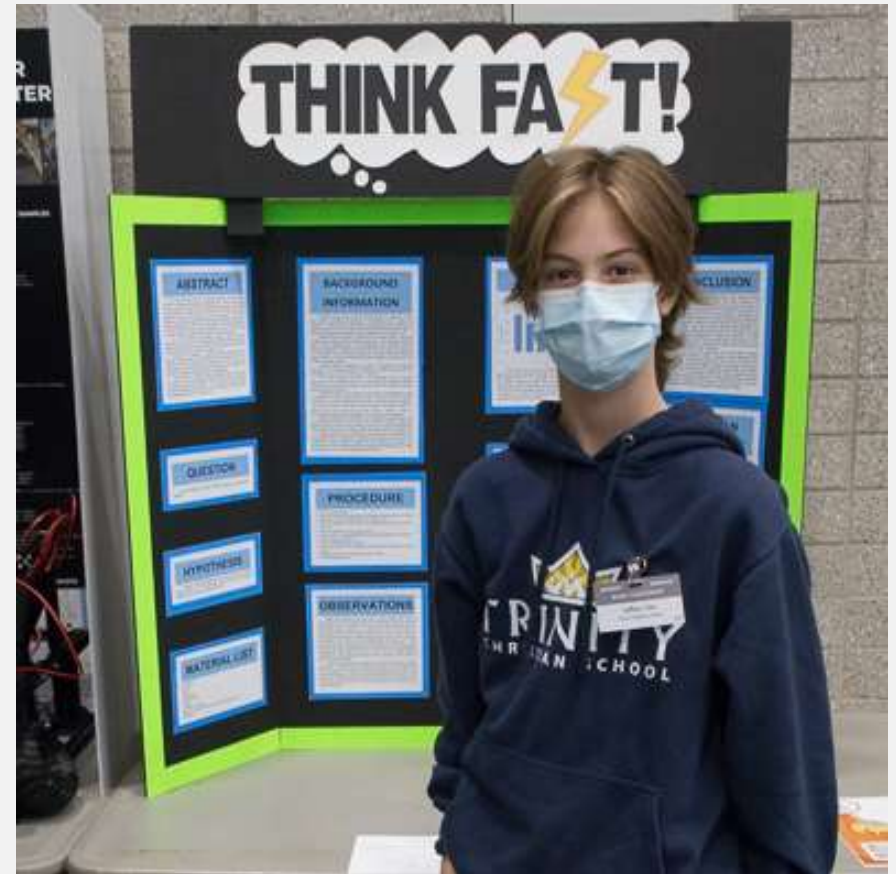
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Jeffrey Ion

P22

Think Fast!

Trinity Christian School
Burlington



Canada-Wide Science Fair Trip Award

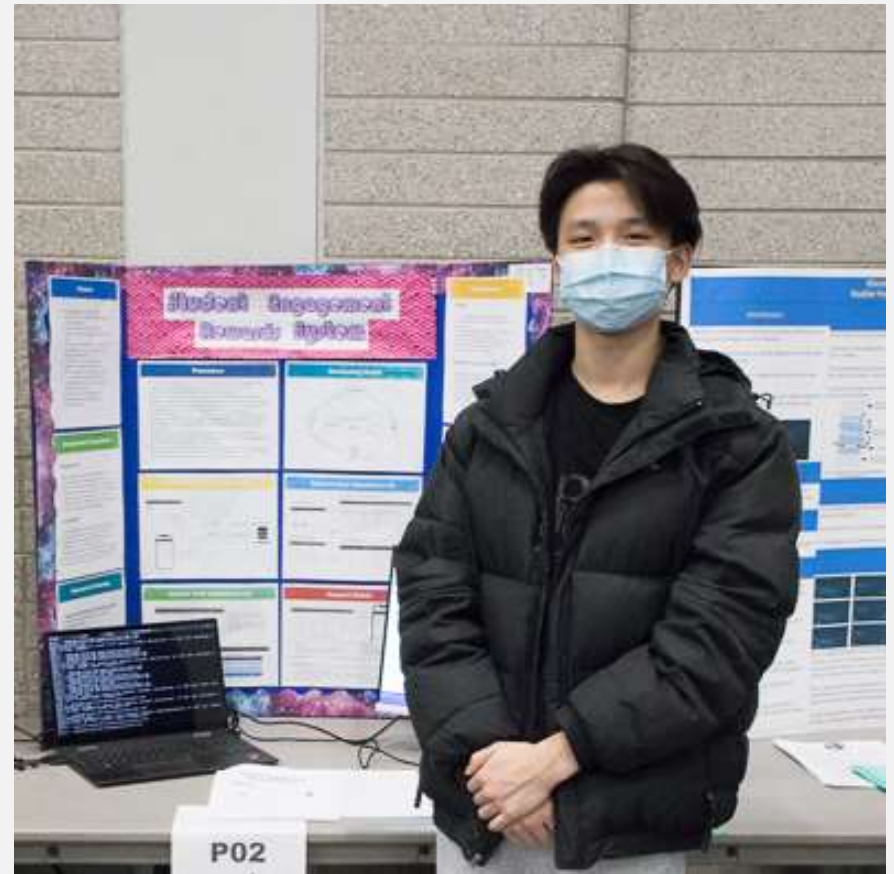
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Brian Yin

P02

Student Engagement Rewards System

Iroquois Ridge High School
Oakville



Canada-Wide Science Fair Trip Award

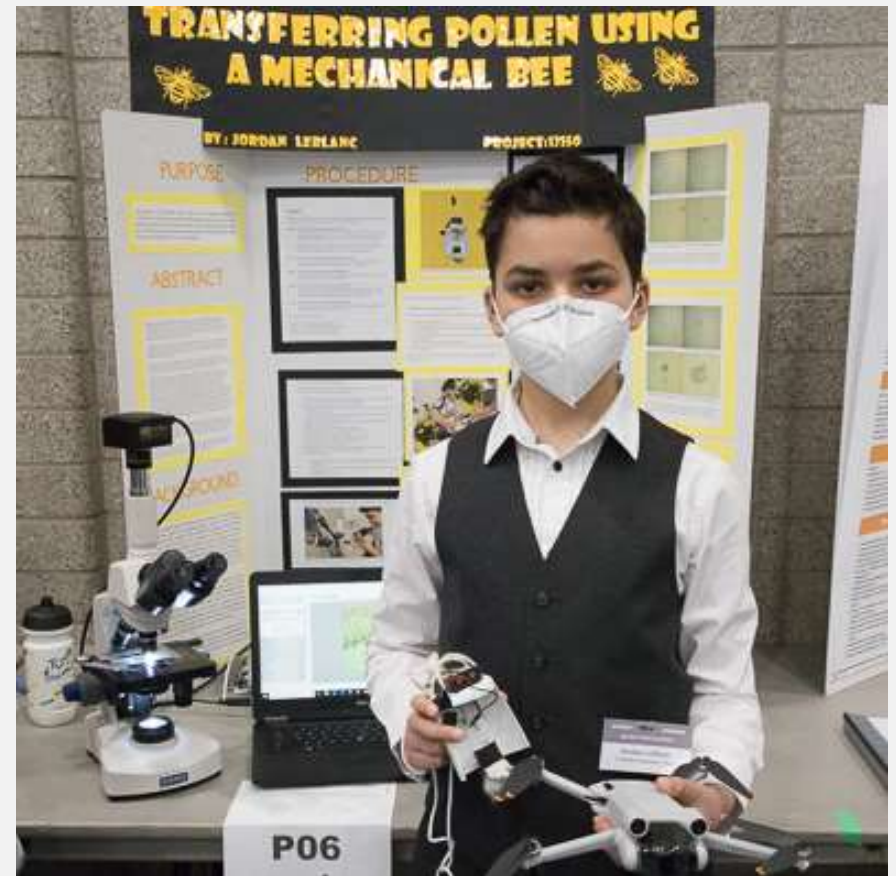
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Jordan LeBlanc

P06

Transferring Pollen Using a Mechanical Bee

St. Matthew Elementary School
Oakville



Please congratulate our Team!



Regeneron International Science & Engineering Fair Trip Awards



ISEF Trip Award

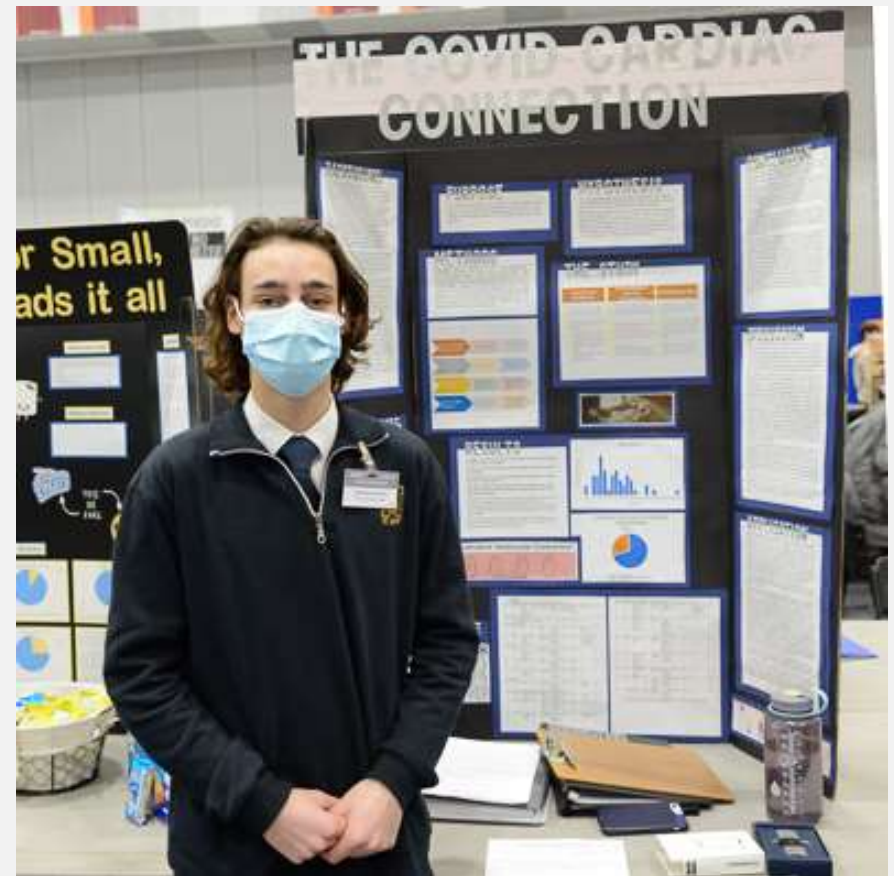
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E13

The COVID Cardiac Connection: A Novel Pre-participation Screening Tool

St. Mary Secondary School
Hamilton



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Isra Bashir

C07

Sugar High! - Integrating glucose and ketone testing
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Westdale Secondary School
Hamilton



ISEF Trip Award

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Zixuan Li

M12

Bionic Squid-inspired Robot Facilitating Underwater
Monitorization and Preservation of Coral Reefs

Ridley College
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Anthony Saturnino

P23

Pothole Patrol: An Innovative Robotic Solution for Road Maintenance Using Sustainable Materials

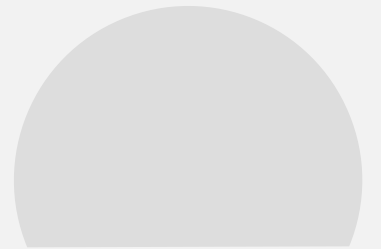
Bishop Ryan Secondary School
Hannon



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Congratulations!
See you in
2024!



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