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BASEF Values

Land Acknowledgement

The Bay Area Science & Engineering Fair (BASEF) acknowledges its presence on the traditional territories of the Mississauga and Haudenosaunee nations, and within the lands protected by the "Dish with One Spoon" wampum agreement.

The catchment area of BASEF is home to many Indigenous people from across Turtle Island. We respect the longstanding relationships with local Indigenous communities, the Mississaugas of the Credit First Nation and the Six Nations of the Grand River. BASEF recognizes that we must do more to learn about the rich history of this land so that we can better understand our roles as residents, neighbours, partners and caretakers. For more information, visit www.native-land.ca.

Our Mission

BASEF inspires young people to positively impact the world through science, technology, engineering and mathematics. BASEF provides opportunities for students to showcase their innovations and discoveries.

Our Vision

There is engaged participation by all eligible students. Completing a STEM (Science, Technology, Engineering & Mathematics) project is a means to fulfill Ministry curriculum in elementary and secondary schools. Students realize that through STEM literacy, they can make a positive difference in the world. Scientific innovations and discoveries will be considered exciting, and students will make time for science fair projects because they will have opportunities and develop 21st Century Competencies.

Anti-Discrimination Policy

BASEF prohibits and condemns discrimination of any type against students, judges, volunteers, and visitors, including on the basis of race, colour, national or ethnic origin, religion, sex—including sexual orientation and gender identity/expression—genetic information, age, (dis)ability, or any other characteristic that is protected under the Canadian Charter of Rights and Freedoms.



Message from Hillfield Strathallan College



Welcome to the 2024 Bay Area Science and Engineering Fair hosted at Hillfield Strathallan College and congratulations on being selected to participate in this incredible science and engineering fair. We are truly honoured to have such an exceptional group of students showcasing their innovations on our campus.

Over the years, HSC has seen its own students participate in the annual fair and, like BASEF, we too have a mission to inspire students to follow their passions and participate in deep learning experiences that challenge them.

Now in its 64th year, BASEF brings together roughly 400 participants every year from across the region with several of them going on to compete at the Canada Wide Science Fair and the International Science and Engineering Fair. None of this would be possible without the amazing support from sponsors, judges, volunteers, parents, and teachers. Thank you for investing your time and efforts every year to make BASEF such an incredible platform for student ingenuity and innovation.



It is incredibly exciting to be this year's host and we wish everyone the best of luck with their projects. You've already achieved so much by being here and I have no doubt that you will continue to make your school proud with your future accomplishments.

Best of luck and full STEAM ahead!

*Marc Ayotte*Head of College,
Hillfield Strathallan College



Chairs' Message



Welcome to the Bay Area Science and Engineering Fair!

Dana Bee and David Reed, your co-chairs this year, would like to extend their warmest greetings to all participants, judges, teachers, mentors, and guests joining us for our 64th year!

BASEF is more than just a showcase of projects: it is a testament to the power of curiosity and the dedication of individuals striving to make a difference in the world. Here, ideas flourish, collaborations ignite, and dreams take flight.



As we gather to celebrate innovation, creativity, and the pursuit of knowledge, we know that each student has embarked on a journey of personal discovery that can also inspire future generations of young scientists and engineers.

We invite you to explore the 281 projects being presented and engage in thought-provoking discussions with all 372 students taking part in the fair this year.

We are very thankful for the essential support from charitable donors, corporate and community sponsors, and special awards donors that make BASEF possible during these challenging financial times.

We are proud to welcome back our returning Title Sponsor:

Primary Fluid Systems Inc.

Primary Fluid Systems Inc. recognizes the importance of encouraging young people to pursue training and careers in STEM related activities.

We would also like to welcome back our long-time sponsor at the Diamond Level:

ArcelorMittal Dofasco

Finally, we extend our appreciation to BASEF's new host, Hillfield Strathallan College (HSC), which we are sure will provide an incredible venue for our students. It has been a pleasure working with HSC and we look forward to continuing our new partnership going forward.

As BASEF is a 100% volunteer-driven registered charity, we thank the extraordinary efforts of the thirty Organizing Committee members, who have dedicated countless hours toward making BASEF 2024 a success. Thank you!

Together, let us celebrate the infinite possibilities of science and engineering, and pave the way for a brighter, more innovative future.

Once again, welcome to the Bay Area Science and Engineering Fair!



Organizing Committee

Co-Chairs

Dana Bee, David Reed

Treasurer

Eleanor O'Flynn, C.P.A., C.A.

Recording Secretary

Mike & Terra Klinck

Registrar

George Geczy

Judge-In-Chief

Donna Stack-Durward; Assistants: Dan Bowman, Ryan LaRue, Jane Wood

Scientific Review Committee

Dan Bowman, Katie Brent, George Geczy, Ryan LaRue, Marc Trotta;

Ex-Officio: Donna Stack-Durward & Dana Bee

Special Awards Committee

Helen Efthimiadis (Lead), Eleanor O'Flynn

Fundraising Committee

Sue Olynyk (Chair), Paul Lakin, Claire Velikonja

Marketing & Publicity

Wayne Bowdish, Maya Clapperton, George Geczy, Chris Kuttenkeuler, Ryan LaRue, Mark Trotta

Photography & Graphics

Wayne Bowdish (Lead), Ryan LaRue

Digital Program

Ryan LaRue (Lead), Wayne Bowdish, Eleanor O'Flynn, Sue Olynyk

Information Systems

George Geczy (Lead), Gerard Chiasson

Safety Inspections

Mark Simpson

Awards Ceremony

Gerard Chiasson (Lead); Dan Bowman, George Geczy, Ryan LaRue, Sue Olynyk; Cathy Hayman & Chris Blackwood (Emcees)

Canada-Wide Science Fair (CWSF) Delegates

Dan Bowman (Lead), George Geczy, Caroline Mahut, Donna Stack-Durward

International Science & Engineering Fair (ISEF) Delegates

Dana Bee, David Reed

Volunteer Coordinators

Caroline Mahut & Victoria Lee (Leads); Chris Kuttenkeuler

Activity Morning Coordinator

Vince Pacifici

Student Advisors

Isabella Lopes, Nico Pacifici

Members-At-Large

Isra Bashir, Katie Brent, Anika Gupta, Neha Gupta, Mike McNally, Janice Pang

Host Venue Liaisons

Hillfield Strathallan College: Celeste Settle Mohawk College: Alec Harmer

Dana Jacobs

School Board Liaisons

BHNCDSB: Vacancy
GEDSB: Vacancy
HCDSB: Matt Kovacs
HDSB: Ingrid Scully
HWCDSB: Marc Trotta
HWDSB: Vacancy
Six Nations: Vacancy

School Boards:

BHNCDSB Brant Haldimand Norfolk Catholic District School Board

GEDSBGrand Erie District School BoardHCDSBHalton Catholic District School Board

HDSB Halton District School Board

HWCDSB Hamilton-Wentworth Catholic District School Board

HWDSB Hamilton-Wentworth District School Board

Please reach out (chair@basef.ca) if you would like join our team!



BASEF 2024 Schedule of Events

BASEF 2024 is being held at HILLFIELD STRATHALLAN COLLEGE ("HSC") and MOHAWK COLLEGE'S MCINTYRE PERFORMING ARTS CENTRE ("McIntyre Theatre") Fennell Campus. See the maps on the next pages.

Thursday, March 21st: On-Site Registration, Project Setup, & Safety Check

| 4:00-8:00 pm | Registration, set-up and safety checks. Note: valuables left in the gym overnight are left at the student's own risk! | HSC |
|--------------|---|-----|
|--------------|---|-----|

Friday, March 22nd: Activity Morning & Project Judging

| • | | |
|-------------------|---|-----|
| 10:00–10:20 am | Students arrive at HSC and are seated in the theatre for Activity Morning. Note: it is the responsibility of the student to arrange their own transportation to and from the venue. | |
| 10:45 am-12:15 pm | Activity Morning will feature presentations from: The Hamilton Amateur Astronomers, represented by John Gauvreau McMaster University Department of Chemistry & Chemical Biology, represented by Gillian Goward, Paul Harrison, and Heather Zalisko. | HSC |
| 12:15–1:00 pm | Students eat lunch at their projects. | |
| 1:00–4:00 pm | Judging interviews for BASEF students. BASEF participants must remain at their projects during judging. | |
| 4:00 pm | Students are dismissed and must arrange their own transportation home. | |

Saturday, March 23rd: Public Viewing

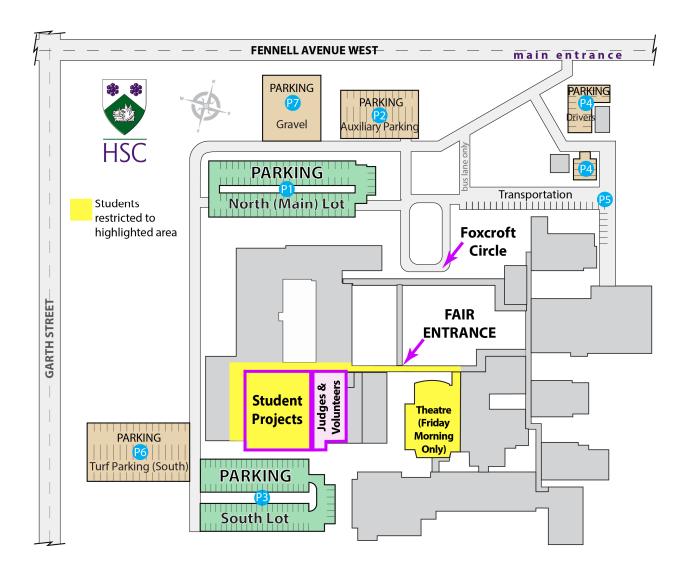
| 9:00 am-12:00 pm | Students are asked to be at their projects until the end of the viewing. <i>The Hamilton Amateur Astronomers</i> , represented by Sue MacLachlan, Jo Anne Salci, and Denise White, will have a booth and offer demonstrations of a telescope (weather-permitting). | HSC |
|------------------|--|-----|
| 12:00–12:15 pm | Project take-down. All projects <u>must</u> be removed by 12:15 pm. | |

Tuesday, March 26th: Awards Ceremony @ Mohawk College

| 6:30 pm | Seating opens for the Awards Ceremony | |
|---------------|--|---------------------|
| 7:00-9:30 pm | Awards Ceremony | McIntyre Theatre |
| 9:30–10:30 pm | Meeting with chaperones for trip winners and their parents | |



Map: Hillfield Strathallan College





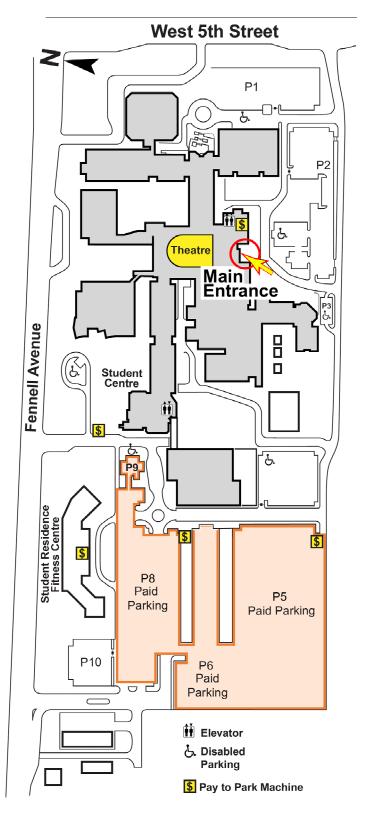
This digital program will be periodically updated over the course of the Fair to reflect the most up-to-date information. The most recent version of the program can be downloaded from our website at

www.basef.ca/program2024.

We have taken every effort to ensure that the information presented in this digital program is accurate. If you are aware of an error or omission, please let us know by contacting our Digital Program Lead at Ryan.LaRue@basef.ca.



Map: Mohawk College





Information for Parents

Congratulations on your decision to support your child's participation in BASEF! All BASEF student participants are rewarded with an enriching experience. Along with receiving a certificate of achievement, students gain the opportunity to meet like-minded individuals: BASEF judges, community stakeholders, other top students, and people working in the STEM field. In addition, BASEF gives cash prizes, awards, and scholarships. Our top winners earn the chance to participate in an expense-paid trip to either the national (CWSF) or international science fair (ISEF). Be sure to visit the BASEF website (www.basef.ca) throughout the year and subscribe to our social media (see below). You will find project pictures and abstracts from last year's fair, resource materials, updates from our BASEF winners as they compete at the national/international levels, and important information about the next Fair.

BASEF 2024 Quick Facts

- ► Location of Events: Projects will be set up in the HILLFIELD STRATHALLAN COLLEGE (HSC) Athletic Complex King and Siggi Gyms located at 299 Fennell Ave W, Hamilton. This is new for 2024! The Awards Ceremony will be held in the McIntyre Performing Arts Centre at MOHAWK COLLEGE, located at 135 Fennell Ave W, Hamilton. Parking considerations are highlighted below.
- ▶ **No Mask Mandate:** At the time of writing, BASEF 2024 will <u>not mandate</u> the use of a face mask at the Fair. In the spirit of being considerate towards others, we ask that you stay home if you are ill and wear a face mask if you have been ill recently. Attendees may choose to wear a face mask pursuant to other personal circumstances, as well.
- ▶ **Dress Code:** We suggest neat and casual, with the emphasis on "neat".
- ▶ Food Allergies and Medical Issues: We ask that you remind the BASEF volunteers at the Registration desk of any food allergies or special medical issues that pertain to your children. BASEF should be considered a public facility with regards to food allergies.
- ▶ **Revisions and Changes to the Program:** Any changes or revisions to this year's Fair will be posted on the BASEF website, added to this official program, and announced at the Fair. The latest version of this program can be downloaded from our website at www.basef.ca/program2024.

Parent Responsibilities: Day-by-Day

▶ Day 1: Registration & Setup. Thursday, March 21st, 2024 @ 4:00-8:00 pm

- Project setup is <u>only</u> on March 21st, 2024 from 4:00–8:00 p.m. at the *HILLFIELD STRATHALLAN COLLEGE* (HSC) Athletic Complex. The entire process typically takes less than an hour.
- Parents are encouraged to park in the North Lot (see map on pg. 8). If this lot is full, the South Lot is also available. Parking at HSC is free of charge. From there, you and your student(s) will carry their project into the HSC Athletic Complex. Volunteers and signage will help to guide you.
- Your child will visit a registration desk and find out their assigned display area.
- After the project is set up, one of our safety inspectors will ensure that the project meets all safety guidelines. Students <u>cannot leave</u> until their project has passed their safety check.
- Projects not set up by 8:00 pm will be deemed as "no shows" and will not be judged.



▶ Day 2: Student Arrival for Activity Morning. Friday, March 22nd, 2024 @ 10:00–10:20 am

- Parents must arrange transportation for student(s) to and from HSC. Activity Morning will start at 10:30 so we recommend that students arrive and are settled before that time. Please do not drop students off before 10:00 am as BASEF/HSC cannot facilitate the appropriate supervision.
- P You may use the "Foxcroft Circle" (see map on pg. 8) as a temporary drop-off zone. Note that parking inside the Circle is <u>not permitted</u> as it is a fire route.
- Volunteers and signage will guide arriving students to the HSC auditorium for an exciting morning of activities featuring the Hamilton Amateur Astronomers and the McMaster University Department of Chemistry & Chemical Biology.
- Following Activity Morning, students will have time to eat their lunches from 12:15 to 1:00 pm at their projects in the HSC Athletic Complex. There are no food vendors available onsite, so students must bring lunch with them. Note that utensils/ microwaves/etc. also will not be available.

▶ Day 2: Afternoon Judging. Friday, March 22nd, 2024 @ 1:00−4:00 pm

- Judging starts at 1:00 pm, sharp. Usually, students will be interviewed by at least three judges.
- Teachers and parents are not permitted on the gym floor during judging. Students may not receive any form of coaching from parents/teachers/etc. during this judging period.

▶ Day 2: Post-Judging Period. Evening of Friday, March 24th, 2023, beyond 4:00 pm

- After the judging period has finished at 4pm, students will be dismissed in an orderly fashion. Please make transportation arrangements for your student(s) to leave HSC promptly.
- P As before, parents can park in the HSC North Lot to pick up their students. Parking is not permitted in the Foxcroft Circle, but it can be used as a temporary pick-up zone (see map on pg. 8).
- The Fair is <u>not</u> open to students or the public during the evening of March 24th.

▶ Day 3: Public Viewing. Saturday, March 23rd, 2024, 9:00 am−12:00 pm

- Your student(s) should be at their projects in the HSC Athletic Complex for the Public Viewing period.
- We strongly recommend that you also attend the Public Viewing with your student(s). Better yet: invite your family and friends, too! It will give you an opportunity to view all of the great projects on display and to see your own student giving presentations for visitors.
- Tours of HSC will be offered for anyone who is interested. Weather-permitting, the Hamilton Amateur Astronomers will offer free demonstrations of the use of a telescope!
- Parking is free for everyone, and both the HSC North and South Lots should be used.
- Projects <u>may not be removed</u> until the end of the Public Viewing. You must arrange to take down your project <u>between 12:00–12:15 pm.</u> After this time, projects will be removed and discarded by the volunteer staff.

▶ **Awards Ceremony.** Tuesday, March 24th, 2024 @ 7:00–9:30 pm

- The Awards Ceremony is the culmination of the Fair where we recognize the hard work of students. It will be held in the McIntyre Theatre at MOHAWK COLLEGE at 7:00 pm, sharp.
- Paid evening parking at available at MOHAWK COLLEGE for the Awards Ceremony. Please pre-pay at one of the parking pay stations located in and around the Campus parking lots (see map on pg. 9).
- It is recommended to come early as seating is limited. Doors will open at 6:30 p.m.
- Students will be asked to sit near the front of the Theatre to facilitate the distribution of awards.
- Our Trip Award Winners and a parent are required to attend an information meeting immediately after the Awards Ceremony (approximately one hour).



BASEF 2024 Sponsors & Charitable Donors

General Funding Sponsors

| | / \ | |
|-------|-------------|--|
| Titla | (\$25,000+) | |
| | | |
| | | |

Primary Fluid Systems Inc.

Diamond (\$10,000+)

ArcelorMittal Dofasco

Platinum (\$5,000+)

Alectra Utilities McMaster University Mohawk College

Gold (\$2,500+)

D.E.N.M. Engineering

Hillfield Strathallan College

Silver (\$1,000+)

Bay Area Health Trust Burlington Hydro

Burlington Hydro Canadian Linen & Uniform Service

Halton Catholic District School Board

Halton District School Board

Hamilton-Wentworth Catholic
District School Board

Hamilton-Wentworth District School Board

Ontario Power Generation

Taylor Leibow Accountants & Advisors

Bronze (\$500+)

CareGo Tek

Hamilton Police Retirees'
Association

Mysys Ltd.

NewAE Technology Inc.

Rotary Club of Hamilton AM

Society of Tribologists & Lubrication Engineers-Hamilton Chapter

Synapse Life Science Consortium

WalterFedy

Friends (\$250+)

Electrical Contractors Association of Niagara Hamilton

Rotary Club of Ancaster AM

Talkit.ca



Charitable Donors

Banting & Best Level (\$1,000+)

Peter Child

Bondar Level (\$500+)

Steve & Cathy Hayman

Mantecon Partners

Peter & Sue Olynyk

Polanyi Level (\$200+)

Dan & Debbie Bowman

Renato & Enza De Tina

Nick & Helen Efthimiadis

Paul & Pam Lakin

John & Eleanor O'Flynn

Dr. Nicola Simmons

McGill Level (\$50+)

Linda Millar

Notes: Those donating in-kind services help us provide an exceptional experience for BASEF participants. Key donations can include: facility space, accounting, and teamwear. In addition to those listed above, BASEF also has donors who wish to remain anonymous.



"Many thanks to all the organizations and individuals that have supported BASEF this year! Their cash and in-kind general funding donations allowed us to continue to provide this event to as many of this region's youth as we have. It is very much appreciated.

Is your place of business built on science, applied science, mathematical or engineering foundations? Are you interested in improving youth capabilities in personal self-confidence, presentation, and communication skills? BASEF ignites sparks of interest in youth that leads them to become the future ready workforce of tomorrow.

I'm always willing to talk to more people about possible financial support for the fair. You or your company can support BASEF through direct charitable donations of cash, donations of securities through "Canada Helps", workplace giving through "Benevity", or in-kind donations of items like meeting spaces, printing, storage facilities, and airline tickets. My name is Susan Olynyk and I can be contacted at fundraising@basef.ca."

- Sue Olynyk, P.Eng., Fundraising Chair



BASEF 2024 Awards

ArcelorMittal Dofasco Merit Awards

Merit Awards recognize the tremendous amount of thought and effort that has gone into the projects entered in the Bay Area Science and Engineering Fair. They are the result of an extensive judging process undertaken by over 150 independent judging volunteers who have come forward from educational institutions, local government organizations, businesses, and industries in our regions. All participants in the Bay Area Science and Engineering Fair are eligible to win Merit Awards. The Awards are given to deserving projects at Junior (7/8), Intermediate (9/10), and Senior (11/12) levels in:



- ▶ Physical and Mathematical Sciences

Scoring for Merit Awards proceeds as follows:

- A score ≥ 90% or higher earns a Gold Medal and a cash award
- A score ≥ 80% (but less than 90%) earns a Silver Medal and a cash award
- > A score ≥ 75% (but less than 80%) earns a Bronze Medal and a cash award

Grand Awards

Primary Fluid Systems Pinnacle Awards

BASEF's Pinnacle Awards are presented to each of the top three projects in the fair. These awards are based on the project's Merit Award score. Each winner receives an engraved plaque. Trophies are sent to the winners' schools.



Best-in-Fair: \$1,000 2nd Best-in-Fair: \$800







3rd Best-in-Fair: \$500



Drs. Ranjan Sur and Monalisa Sur Award

The best Intermediate (9/10) or Senior (11/12) project at the fair. The winning student's school receives a plaque.



Roy Middleton Memorial Award

The best Junior (7/8) project at the fair. The winning student's school receives a plaque.



BASEF Committee Trophy

➤ This trophy is awarded to the elementary school accumulating the most points. Points are earned from the number projects entered from the Junior (7/8) level of each school and the projects earning Gold, Silver, and Bronze Merit Awards.



Herb Gildea Memorial Trophy

This trophy is awarded to the secondary school accumulating the most points. Points are earned from the number of projects entered from the Intermediate and Senior levels of each school and those projects earning Gold, Silver, and Bronze Merit Awards.





Interested in joining our team?

BASEF is always looking for new recruits to volunteer on our organizing committee! Our members have a wide range of backgrounds and skillsets which we need to run our annual fair: scientists, engineers, accountants, financial professionals, businesspeople, educators, and so on. If you would like to be a part of our dynamic team for BASEF 2025, please reach out to chair@basef.ca.



Grand Prize Trip Awards

2024 Regeneron International Science and Engineering Fair (ISEF)

▶ Up to five projects (depending on funding level) will be chosen from excellent exhibits at the secondary school level (Intermediate & Senior) to advance to ISEF, which will be held from May 11th-17th, 2024. Eligible winners of ISEF trip awards will receive an expense-paid trip to the Fair in Los Angeles, California to present their projects amongst some of the brightest young minds from around the world.



Sponsored By:









2024 Canada-Wide Science Fair (CWSF)

□ Up to 17 students (depending on funding level) will be chosen from excellent exhibits to advance to CWSF, which will be held May 25th-June 1st, 2024. All projects at BASEF 2024 are eligible to advance to CWSF. Winners of CWSF trip awards will receive an expense-paid trip to Ottawa, Ontario to present their projects.



Sponsored By:



















Special Awards



"Our sincere appreciation to the many community organizations, businesses, and individuals for the ongoing support and contributions in the success of BASEF 2024. Special Award donors and judges are extraordinary groups and individuals that have committed their generous awards and time to encouraging scientific thought and research in their specific area of interest and have been paramount to the success of our event.

This year, we are pleased to announce a total of 158 special awards, amounting to \$24,600 in cash and \$14,500 in academic scholarships. Your donations have played a crucial role in achieving this milestone, further solidifying BASEF's position as a platform that promotes excellence in scientific exploration.

BASEF 2024 sponsored by Primary Fluid Systems Inc. supports students in Grades 7 through 12 to explore and pursue careers in STEM. Your support inspires the next generation of professionals to make great future strides and contributions to these fields."

- Helen Efthimiadis, Special Awards Coordinator

Special Awards are given by organizations and groups to recognize deserving projects that deal with topics of interest to the donor. These organizations and groups are encouraged to provide their own judges for their awards. These judges are indicated to the right of the award listings. In cases where no external judges are recommended, BASEF is happy to provide its own judges for those awards. We appreciate the generosity of our Special Awards donors and judges!

| Special Awards | | Judges |
|------------------|---|---------------------|
| ArcelorMittal Do | ofasco Awards | Lead: Shannon Clark |
| Central T | rades & Services Department Award | Clayton MacNeil |
| Prize: | \$100 | • |
| Criteria: | A project that best displays the use of scientific principles in applying technology for the betterment of people or machines. | |
| Chemica | l Testing Award | Kristen Bloom |
| Prize: | \$100 | |
| Criteria: | A project that best uses chemical testing and/or chemical principles to solve a technical problem. | |
| Commer | cial Department Award | Shannon Clark |
| Prize: | \$100 | |
| Criteria: | A project that best uses commercial and business planning tools in developing a potentially new or improved commercial product. | |
| Engineer | ing Award | Justin Clappison |
| Prize: | \$100 | • • |
| Criteria: | A project that best uses engineering & maintenance technology principles and design to solve a technical problem. | |



Special Awards Judges ArcelorMittal Dofasco Awards, Continued... **Environment Award** Scott Anderson Prize: \$100 Shawna Lemire Criteria: A project that best uses physics, chemistry, or engineering to explore or solve a technical problem associated with environmental issues. Global R&D Hamilton Award for Outstanding Research Nicole Perna Prize: Criteria: A project that best uses investigative research & scientific principles to explore or solve a technical problem. Global R&D Hamilton Award for Technology Application Mayank Upadhyay Prize: \$100 Criteria: A project that best uses the innovative application of materials, products, processes or design principles. **Hot Mill Award** Chantel Ullyett Prize: \$100 Criteria: A project that best uses creative principles and design to solve a manufacturing or process problem. **Human Resources Training & Development Award** Victoria Smith Prize: Chris Willis Criteria: A project that best uses teaching and training techniques in explaining or exploring a technical problem. Information Systems Award Karthik Prize: \$100 Balasubramanian: Criteria: A project that best uses information systems and design Jonas Szajman to solve a technical problem. Ironmakina Award Husain Tapia Prize: \$100 A project that best uses the use of metallurgical or Criteria: material science principles to solve a technical problem. **Material Handling & Logistics Department Award** Aaron Dearman Prize: Criteria: A project that best displays the use of scientific principles in exploring or solving a problem related to material conveyance, transportation or logistics. **Medical Department Award** Frances Thompson Prize: \$100 Criteria: A project that best uses scientific principles in exploring or solving a problem related to human health issues. **Pickling and Cold Rolling Award** Hammad Ashfaq Prize: \$100 Criteria: A project that best displays the use of chemical or mechanical properties to explore or solve a technical problem. **Process Automation Award** Pedro Tondo Prize: Criteria: A project best uses process automation principles and design to solve a technical problem.



Special Awards Judges ArcelorMittal Dofasco Awards, Continued... **Product Development Business Process Award** Tyson Auger Prize: \$100 A project that best uses product development principles Criteria: and design in developing a new consumer product with commercial potential. **Quality Systems Award** Jaime Jewer Prize: \$100 Criteria: A project that best uses quality systems principles and design to solve a technical problem. Steelmakina Award Analinda Sanchez Prize: \$100 Morone: Criteria: A project that best uses engineering and materials Michael Kempe science principles to solve a technical problem. **Artistically Inspired Display Awards** Cathy Hayman Prize: Two awards of \$50 each Criteria: To the most artistically inspired display. Association for Iron & Steel Technology Northern Chapter Awards Shannon Clark Prize: 1st \$250 2nd \$150 3rd \$100 Criteria: For outstanding projects related to one of the following fields: metallurgy, materials science, chemical, electrical, mechanical, industrial, environmental, civil and computer engineering. **BASEF BASEF Inspiration Student Awards:** Prize: \$500 awards Criteria: Awarded based on merit judging marks to top projects that win \$250 or less in other prizes and have not previously won a BASEF Inspiration Award. **BASEF BASEF Inspiration Teacher Awards:** \$500 awards Prize: Criteria: Awarded to teachers of schools which are new* to BASEF. The teacher must have two or more projects displayed and judged at the Fair. The award is to be used in the classroom at the winning teacher's discretion. *Schools without BASEF projects for at least 5 years Bay Area Health Trust Scholarship/Paul Lakin Health Sciences Award Paul Lakin See "Scholarships" Canadian Institute of Mining, Metallurgy and Petroleum (Hamilton Shannon Clark **Branch) Awards** Prize: Two awards of \$100 each Criteria: Outstanding projects relating to mining, metallurgy and petroleum, any level.



Special Awards Judges Canadian Meteorological and Oceanographic Society Awards Steven Jacobs Prize: 1st \$100 2nd \$50 Each winner receives a one-year free CMOS Membership. Best projects in meteorological and/or oceanographic Criteria: sciences (weather, air quality, climate, climate changes and/or the oceans). **Canadian Nuclear Society (Golden Horseshoe Branch) Awards** Peter J. Kriemadis Two awards of \$125 each for intermediate or senior Razia Nushrat Prize: projects and two awards of \$75 each for junior projects. Projects relating to nuclear science and engineering, Criteria: energy research, or climate sciences. Chemical Institute of Canada – Hamilton Section Awards Don Barclay Three awards of \$100 each Tom Sutton Prize: Projects relating to chemistry, chemical engineering, or Criteria: chemical technology. **Conservation Halton Awards** Christine Bowen Two awards of \$100 each Prize: Carolyn Zanchetta Projects that contribute to environmental research, Criteria: protection, conservation, restoration or awareness by Halton students. **Dillon Consulting Limited** Nathan Field Science and Engineering Award Francesca Grisani Jenna Wild Prize: Criteria: Project showing excellence in science and/or engineering. **Biological Sciences Award** Prize: \$250 Criteria: Project showing excellence in biological sciences. Jim Casev **Doris Casey and Gwen Nicolls Disability Solutions Awards** Al Nicolls Prizes: Two awards of \$100 each Criteria: Most innovative and creative technical solutions focused on assisting individuals to overcome or compensate for physical or cognitive disabilities. Dr. Colin J.L. Lock Memorial Chemistry Award Shannon Buck Gillian Goward Prize: Criteria: A project involving chemistry, especially crystals. Anjilee Manhas Wesley Sanchez Abeera Sivarajah **Dr. Laura Blew Social Sciences Awards** Jim Casey Prize: Two awards of \$100 each Al Nicolls Criteria: Projects that best demonstrate understanding of the scientific process as it applies to social sciences issues. Dr. M. Doyle Biology Award **BASEF** Prize: \$250, a plaque, and a trophy for the winner's school Criteria: Best biology project.



Special Awards Judges Dr. Nicola Simmons Award in Cognition Studies Renato De Tina Prize: \$100 Criteria: An exemplary project in cognition studies (animals or humans). **Electrical Contractors Association of Niagara Hamilton Awards** Joe Kurpe Prize: Two awards of \$250 each Criteria: Projects displaying the best and safest use of electricity in the most creative manner. **Environmental Inspiration Award** Angela Ceccato Prize: \$250 Criteria: The best environmental project that addresses an environmental problem in an inspirational or innovative way. Amber Hann **Farncombe Family Digestive Health Research Awards** Two awards of \$250 each and a grand award of \$750. Liam Rondeau Prize: which includes a one-hour interview with one of Mark Wulczynski Farncombe's researchers to discuss further education and career opportunities. Projects that explore digestive health, related diseases or Criteria: general family nutrition through experimentation or indepth literature. **Firestone Institute for Respiratory Health Award** Ryan Singer \$250 and a tour of the research labs at the Firestone Prize: Mackenzie Thorpe Institute. Tran Zhou For the best senior project on lung health, air pollution, Criteria: allergy or respiratory infections. **Gowling WLG Innovation Awards** Derek Sheppard **Grand Winner** Prize. \$300 and a complimentary consultation with a patent or trademark agent at the Gowling WLG Hamilton office. Best project demonstrating potentially patentable subject Criteria: matter. Runner Up Prize: \$200 An excellent project demonstrating potentially Criteria: patentable subject matter. **Honourable Mention** Prize: Certificate Criteria: An excellent project demonstrating potentially patentable subject matter.



Special Awards Judges

Hamilton Academy of Dentistry Awards

Frank Stechey

Prizes: 1st \$250 2nd \$150 3rd \$100

Criteria: Intermediate or senior projects related to dentistry in

general; to one specific area of dentistry; or related to oral hard & soft tissues specifically; to some aspect of the

delivery of dentistry to the general (or specific)

population; or an aspect related to prevention of dental

disease. Also, any aspect of Personal Protective

Equipment related to dentistry.

Hamilton Association for the Advancement of Science, Literature & Art da Vinci Award

Peter Banting Bruce Farrand Herb Schellhorn

Prize: \$250

Criteria: Project that best combines personal initiative and

creativity with a sound, demonstrated understanding of

the scientific method.

Hamilton Wentworth Occasional Teacher Awards

Jim Casey

Environment and Education Award

Prize: \$50

Criteria: Junior project that most effectively educates others about

an environmental issue.

Healthy Lifestyles Award

Prize: \$50

Criteria: Junior project that most effectively educates others

regarding the role of nutrition and/or exercise in

maintaining a healthy lifestyle.

Presentation and Aesthetics Award

Prize: \$50

Criteria: Junior project that demonstrates a high level of visual

appeal, creativity, and overall quality of presentation.

Harrison Family Chemistry Award

Gillian Goward

Prize: \$100

Criteria: For a project that has significant chemistry content.

Hillfield Strathallan College Awards of Excellence

Peter Child

Life Sciences Award

Prize: \$100

Criteria: Junior project that best displays excellence in life

sciences.

Scientific Process Award

Prize: \$100

Criteria: Intermediate project that best demonstrates an

understanding of the scientific process.

Innovation Award

Prize: \$100

Criteria: Senior project that best displays innovation related to any

science or engineering.



Special Awards Judges IEEE (Institute of Electrical and Electronic Engineers) Hamilton Section Boguslaw Bochenski Awards Eduardo Gomez-Prize: Two awards of \$100 each Hennig Criteria: Best use of electronics in a science or engineering project. **Indigenous Peoples of Canada Scientific Study Awards** David Reed 2nd \$80 1st \$140 3rd \$80 Prize: Criteria: Projects demonstrating the application of established scientific methods to topics relevant to the culture, heritage or issues of the Indigenous peoples of Canada. **International Science & Engineering Affiliated Fair Awards** Isra Bashir Prize: Certificates and/or Medallions Dana Bee Criteria: Deserving intermediate or senior projects related to Anika Gupta topics of interest to the following Neha Gupta organizations: **American Psychological Association** For a project showing outstanding research in psychological science in the category of behavioural and social sciences or any category related to psychology. Ricoh USA, Inc. Award For an outstanding project that addresses issues of environmental responsibility and sustainable development. Society for In Vitro Biology Award For an outstanding Grade 11 project exhibiting in the areas of plant or animal in vitro biology or tissue culture. **U.S. Agency for International Development (USAID)** For an exceptional project that has the potential to make an impact on addressing international development challenges. Prize includes a Social Network Media Kit. **Yale Science & Engineering Association Award** For an outstanding Grade 11 project in computer science, engineering, physics or chemistry. James A. Winger Award sponsored by the Hamilton Amateur Sue MacLachlan Astronomers Jo Ann Salci Prizes: Two awards of \$200 each; one award for Grade 7 to 9 and Chris Streich one for Grade 10 to 12. Best projects demonstrating an understanding of a topic related to astronomy, physics, light pollution abatement, or space travel.

John W. Howard Materials Research Award

Renato de Tina

Prize: \$100

Criteria: A project demonstrating innovation in engineering

materials, especially concrete.



| Prize: Two awards of \$100 each Criteria: Best projects and presentations on a topic related to environmental toxicology, chemistry, pollution, contamination, remediation or environmental protection. Mahut-Brent Award for Young People in Science and Engineering Prize: \$100, certificate and a giant microbe Criteria: An outstanding project by a young person in science that demonstrates an excellent application of scientific thought and creativity towards a subject matter that the participant is passionate about. | Restivo n Ruan arajah Mahut m Buck oward anhas |
|---|--|
| Prize: \$100, certificate and a giant microbe Criteria: An outstanding project by a young person in science that demonstrates an excellent application of scientific thought and creativity towards a subject matter that the | n Buck oward anhas |
| | oward anhas |
| McMaster University Awards Department of Chemistry and Chemical Biology Award Prize: \$100 Criteria: An outstanding senior or intermediate project connected to chemistry or chemical biology. Shannon Bu Gillian Gowa Anjilee Manh Wesley Sanch Abeera Sivaraja | |
| Prize: \$250 Ryan LaRd Criteria: An outstanding intermediate or senior project Yuvrajsinh Soland demonstrating aspects of chemical engineering, particularly in the fields of biomaterials, polymer science, process systems design, or water and energy systems. | LaRue |
| McMaster University Faculty of Engineering Entrance Awards See "Scholarships" Emily Waldro | aldron |
| MGD Institute for Infectious Disease Research Awards Prizes: Three awards: one of \$50, one of \$100 and a grand prize of \$250, which includes a one-hour interview with a senior person at IIDR for the grand prize winner and their families. Maya George Kenneth Rachwals | |
| Criteria: Excellent senior projects in infectious disease, drug discovery or human health. School of Earth, Environment and Society Awards Earth and Environmental Sciences Award Prize: \$100 Criteria: Outstanding project in earth science or environmental science. | 3ernier |
| Geography Award Prize: \$100 Criteria: Outstanding project in geography or social science. Venture Academy Prize: Free registration for one week of summer camp for two projects. Criteria: Deserving intermediate/senior projects | chalos |



Special Awards Judges

Mechanical Contractors Association of Hamilton Niagara Award

Bill Patterson

Prize: \$250

Criteria: Best engineering project at the intermediate or senior

level.

Mohawk College Awards

Building & Construction Sciences Awards

Nathaniel Adie Tyler Sowden

Building Sciences AwardPrize: \$50

Criteria: Project related to building sciences, building

materials, or energy conservation in

structures.

Civil Engineering Award

Prize: \$50

Criteria: Project related to the field of civil

engineering.

Transportation Engineering Award

Prize: \$50

Criteria: Project related to planning, design, or

operation of any transportation mode or

facility.

Computer Science & Information Technology Excellence Awards

John Holloway

Brian Stefanchuk

Prize: Three awards of \$50 each

Criteria: Projects that demonstrate a thorough understanding of

computer application and design in today's world.

Electrical Engineering Technology Awards

Computer Engineering Technology Award

Prize: \$50

Criteria: A deserving project in computer engineering

technology.

Electrical Engineering Award

Prize: \$50

Criteria: A deserving project in electrical engineering

studies.

Energy Systems Award

Prize: \$50

Criteria: A deserving project in energy systems.

Mathematics Awards

Frosina Stojanovska-Pocuca;

Prize: Two awards of \$50 each, one at the Junior and one at the

Kathryn Vrhovnik

Senior level.

Criteria: Deserving projects in the category of mathematics or

statistics.

Nelson Steel Awards Sophia Blaschke

Prize: Two awards of \$150 each

Criteria: Outstanding junior projects related to two of the

following fields: steel, environmental or chemistry.



Vic Djurdjevic

Peter Child

Adam Weerdenburg

Special Awards Judges

New Health Scientist Award Jim Casey

Prize: \$50

Criteria: A worthy junior project showing good potential for

improving the health of our community.

Nikola Tesla Innovation Awards BASEF

Prize: Gold \$100 Silver \$50 Bronze \$50

Criteria: Projects that best display the most innovative application

of the body of knowledge associated with Nikola Tesla's work, and/or acknowledgement in the display of Nikola Tesla's contribution by way of his work and inventions.

Ola Lunyk-Child Memorial Health Awards

Prize: 1st \$250 2nd \$150 3rd \$100

Excellent projects related to any aspect of nursing, Criteria:

nursing research or other medically related fields.

Procor Engineering Awards Fron Gumabon

Prize: Junior \$50 Intermediate \$100 Senior \$150 Ivona Szczerbowicz

Excellent engineering projects. Criteria:

Laura Garrick The Research Institute of St. Joe's Hamilton, Health Research Awards Alana Penny

Prizes: Two awards of \$100 at the intermediate level

Two awards of \$50 at the junior level

Outstanding projects that use strong scientific principles Criteria:

in exploring or solving a problem related to human health issues and communicate the results of their

project through an effective visual display.

Rotary Club of Hamilton Stoney Creek Awards Jim Casey

Prize: 1st \$250 2nd \$150 3rd \$100 Mike Dunne Criteria: James McDonnell

Best three projects from schools situated in the Hamilton core, Stoney Creek, or by Indigenous students displaying

high academic achievement and striving to excel in

science and technology.

Royal Botanical Gardens Award Angela Ceccato

Prize: \$100 gift certificate from the RBG shop plus a 1-year RBG

family membership

Best project in plant or environmental sciences. Criteria:

Sanofi Biogenius Canada Award Braedon Cowbrough

Prize: \$100 and a certificate

Criteria: For an outstanding project related to biotechnology, the

use of biological systems to produce goods or services, or

life sciences.

Society of Tribologists & Lubrication Engineers – Hamilton Chapter Richard Schrama

Two awards of \$250 each Prize:

Projects that utilize the principles of tribology, (friction, Criteria:

wear and lubrication), to solve a technical problem.



Special Awards

Judges

Talkit.ca Computer Engineering Awards

George Geczy

Prize: 1st \$100 2nd \$50

Criteria: For outstanding projects using computer electronics or

software.

Water Environment Association of Ontario Award

Dean lamarino Amr Melligy

Criteria: For a project focused on innovative ideas for preserving

and/or enhancing Ontario's water environment.

Scholarships

Prize:

Bay Area Health Trust Scholarship/Paul Lakin Life Sciences Award

Prize: One \$1,500 Scholarship, to be redeemed upon acceptance and registration into any

undergraduate program at a Canadian post-secondary college or university. Pair

projects will split the award.

Criteria: An outstanding senior project in the Life Sciences category demonstrating scientific

excellence.

Hillfield Strathallan College Entrance Scholarship Award

Prize: One \$5,000 entrance scholarship toward tuition fees, to be redeemed upon

acceptance as a full-time senior school student entering Hillfield Strathallan College in any of grades 9 to 11 for the 2024-2025 academic year. Will be awarded to both

students in a pair project – maximum \$10,000 value.

Criteria: A deserving project demonstrating excellence in scientific learning.

McMaster University Faculty of Engineering Entrance Awards

Prize: Seven \$1,000 tuition awards, to be redeemed upon acceptance of admission to the

Faculty of Engineering. Pair projects will split the award.

Criteria: Projects demonstrating excellence in Science, Technology, Engineering or Math.

Mohawk College and Sheridan College – Award of Excellence Tuition Scholarships

Prize: Mohawk College and Sheridan College will provide a \$1,000 entrance award. The

scholarship may be used toward first year tuition upon the recipient's acceptance and registration in any full-time program at either Mohawk College or Sheridan College. If multiple scholarships are accumulated over more than one year, only one of these

scholarships may be used.

Criteria: All students earning BASEF 2024 Merit Award Medals (Gold, Silver, Bronze) will win this

scholarship.

University of Ottawa Entrance Scholarship

Prize: One \$1,000 entrance scholarship applied to tuition fees upon registration in an

undergraduate program in the Faculties of Engineering, Science, or Health Sciences at the University of Ottawa. (In the case of a pair project, each student will receive a \$1,000 admission scholarship if they register in appropriate undergraduate programs

at the University of Ottawa).

Criteria: The most deserving Senior project.



BASEF 2024 Merit Award Judges



"Merit judging is critical to the success of BASEF. Merit Judges include university faculty and scientists, industrial engineers and scientists, representatives of private research centers and agencies, medical researchers, and senior graduate and undergraduate university students as well as many retired professionals. This diversity of backgrounds provided valuable perspectives when evaluating the projects.

A new Merit Judging form was introduced in 2024. It consists of three criteria: Scientific Thought (45%), Scientific Communication (50%) and Student Engagement (5%). When judging scientific thought, our judges look for the design, analysis, and interpretation of the work presented. Scientific

communication includes the formal report, abstract, logbook or journal, interview, and display. Judges note the participants motivation, enthusiasm and overall understanding of the topic chosen when marking student engagement. Each project is judged independently by a maximum of four judges. Merit judges are always invited to provide feedback on the projects.

A sincere thank you to each Merit Judge and Category Chair for sharing their scientific expertise and supporting all BASEF student participants. Once again, I am impressed by the commitment of these volunteers.

I congratulate all the finalists for their outstanding projects, dedication to science fairs and enthusiasm. You are all winners!"

- Donna Stack-Durward, Judge-In-Chief

Q Indicates a merit judge who also serves as a safety inspector. Please contact our lead safety inspector at safety@basef.ca if you would like to serve as a safety inspector in the future.

Indicates a category chair. Please contact our judge-in-chief at <u>judging@basef.ca</u> if you would like to serve as a category chair in the future.

MERIT JUDGES 2024

Adli, Taranah *McMaster University*

Ahmed, Maisha The Hamilton Midwives

Akparah, Chinomnso (Chi Chi) *Bartek Ingredients*

Akparah, Eziuche National Bank of Canada

Andraous, Yara RBC
Arežina, Ana Veolia



Auld, Rosemarie Retired

Balaban, Mariana Norfolk County

QBarbera, LidiaMcMaster UniversityQBashir, IsraMcMaster UniversityQ■ Birch, NigelAlta Technology Ltd

Bochenski, Boguslaw Hydro One Networks Inc.

Botham, Jay McMaster University

Bowman, Dan Retired; City of Hamilton Police

Burchett, Rebecca McMaster University
Cheung, Tsz Wing McMaster University

Q Child, Peter Retired

Chzhen, Maria University of Toronto

Clapperton, Maya University of Western Ontario

Cowbrough, Braeden McMaster University
Cupido, Cynthia McMaster University
Czebe, Andy L3Harris Wescam

De Tina, Renato Retired; ArcelorMittal Dofasco

Dhaliwal, Sandra DS Dental/Desired Smiles

Dimonico, NicholasMcMaster UniversityDyer, BenjaminMcMaster University

Easo, Suzanne Hoffmann-La Roche Limited

ElChaar, Nancy *McMaster University*

Fisher, David Leanforge/Self-Employed

Q Forbes, James Retired

Q Forrest, Fraser *Retired; Stern Laboratories Inc.*

Freger, Shay

McMaster University

French, Craig

Octal Engineering

Alectra Utilities

Ghaffari, AydaHamilton-Wentworth District School Board

Greenberg, Sharonna Professor at McMaster University

Q Guyatt, Jessica Mohawk College

Harrison, Eric Retired

Hazelden, Linda Semi-Retired; Archdiocese of Toronto Catholic Charities



Hilal, Arwa University of Toronto

Q | Hill, Terry Retired City of Hamilton Police

Hol, Adrienne Avenue Physiotherapy

Holloway, John Mohawk College

Holt, Howard Retired; ArcelorMittal Dofasco

Howcroft, Kat McMaster University

Jamshed, Laiba McMaster University

Jathar, Amit OpenText

Q Jeung, Gordon Ontario Power Generation

Johnson, Ross Retired; Sandwell Consulting Engineers Ltd.

Johnson, Warren Retired

Johnson, Stephen Thermo Fisher Scientific

Jolie, Keith Consultant and Administrative Professional

Q Jurriaans, Marijke Greater Hamilton Health Network

Keller, MartinConservation HaltonKhullar, RishabhThomson ReutersKim, Kate KyuriUniversity of TorontoKlinck, HenryUniversity of Toronto

Kunwar, Ashim *McMaster University*

Kuszczak, ZachHydrogeologist at PalmerKuttenkeuler, PeterGemba Associates Inc

Lamb-Gervais, Sheilah Retired; Family Physician

LaRue, RyanSessional Faculty at McMaster University

LaRue, Peter *L3Harris*

Q ■ Lawlor, Daniel City of Hamilton
Lawson, Dave Niagara College

Lee, Victoria *McMaster University*

Lewis, Justin AVAR Environmental Inc.

Lyon, Rachel *McMaster University*

MacAulay, Miranda Meera Jacob Optometry Corporation

Mahut, Caroline AMPERe

Mahut, Andy Retired; Stelco Inc.

Malig, Monika Quadra Chemicals Inc



McNally, Mike Retired

Melhem, Sarah City of Hamilton

Mercik, Aleks PV Labs

Merlos, Erick S. City of Hamilton

Q Morin, Shane Retired

Nalyanya, Keith McMaster University

Niro, Gino EngOL Inc

Papuckoski, SimonL3Harris TechnologiesPepler, MeghanMcMaster University

Perez Rodriguez, Yuniel Alectra Utilities Corporation

Perono, GenevieveMcMaster UniversityPrevec, MadelineUniversity of TorontoRachwalski, KennethMcMaster University

Reale, Steve WalterFedy
Redding, Laurene BeiGene

Romanek, Virginia McMaster University

Roy-White, HaylieHamilton-Wentworth District School Board

Ruan, Celina McMaster University

Ruiz Blanco, Nelson Independent

Saenz de Miera, Mirnaly

Safranyos, Sharon

Sangueza, Julia

Saturnino, Joseph

CanmetMATERIALS

BeiGene Canada

Brock University

McMaster University

Q Schaefer, Janet Homemaker Schoenhardt, Mary Anne Birds Canada

Q Seneviratne, Salintha Mohawk College

Q Seto, Vanessa Hillfield Strathallan College
Seto, David UTEX Scientific Instruments Inc.

Sharma, Leah *McMaster University*

Sheel, GauravBruce PowerShepard, BenSelf-Employed

Shepard, Beverly

Simpson, Mark

Retired; Laboratory Biochemist

Retired; Electrical Engineer



Song, Michelle *McMaster University*

Stefanchuk, Brian Mohawk College

Steffler, Matt Habitat for Humanity

Stewart, Mark *McMaster Innovation Park*

Themeles, TomConestoga College, Armelo Engineering

Toth, Janice Retired; Credit Valley Hospital & Abbott Diagnostics

Tozer, David *M.T.R. Services Corp.*

Tuinema, Brian Germiphene Corporation

Tuinema, Billie Hamilton Health Sciences

Turna, Shantel Exploration Geologist

Vanderzwet , Lory Retired; Mohawk College Engineering Technology

Vidican, David *McMaster University*

Vidican, MihaelaBanking Industries, Financial Advisor, Mortgage Specialist

Q Walsh, Steven City of Hamilton Public Health Services

Wehrle, Paul Retired

Wilson, Anne-Marie Retired; Hamilton-Wentworth District School Board

Wilson, Wes John G. Cooke & Associates Ltd.

Wolfsgruber, Richard Retired
Wolfsgruber, Steve Alithya

Wood, Jane Retired; ArcelorMittal Dofasco

Wong, Kelly McMaster University
Wulczynski, Mark McMaster University

Q Young, Bruce St Joseph's Healthcare Hamilton

Young, Norman Retired; Wentworth Board of Education

Q Yueh, Jeffrey McMaster University
Zhao, Kevin McMaster University



BASEF 2024 Volunteers

We would like to thank all of our volunteers who help to make BASEF 2024 possible! Please contact <u>volunteers@basef.ca</u> if you would like to serve as a BASEF volunteer in the future.

Q Indicates a safety inspector

🚺 Indicates a member of the photography team

Agullana, Nicole Jessly

Al-Beer, Jumana

Asis, Ellen

- Bates, Al
- Bowdish, Ryan
- Buchanan, Bernard
 Chhetri, Sital Baruwal
 - Clapperton, Maya Hayhurst, Trevor
- Q Hayman, Cathy
- Q Hayman, Steve
- Q Keller-Olaman, Sue

Konrad-Ho, Lauren

Q Klinck, Michael

Kops, Rita

Novak, John

Sider, Abigail

Toth, Janice

Verma, Arjun

Wong, Kelly

Wood, Jane

Woods, Selma

Zhuang, Blake

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O Instagram: <u>www.instagram.com/BASEF</u> (@basef)

YouTube: www.youtube.com/user/TeamBASEF

LinkedIn: www.linkedin.com/company/bay-area-science-and-engineering-fair/

Pinterest: <u>www.pinterest.ca/basef</u>

Flickr: www.flickr.com/photos/team-basef

Blog: www.basef.ca/blog/



List of Student Exhibitors

School Boards Represented:

BHNCDSB Brant Haldimand Norfolk Catholic District School Board

GEDSBGrand Erie District School BoardHCDSBHalton Catholic District School Board

HDSB Halton District School Board

HWCDSB Hamilton-Wentworth Catholic District School Board

HWDSB Hamilton-Wentworth District School Board

IND Independent

The standard of the standard

Junior Level

| | JUNIOR P | ROJEC | TS (7/8) | | |
|--|--|-------------------|-----------------------------|--|--------|
| Name | Project Title | Project Number | Division | School | Board |
| & Abou- Assaleh, Emmalina | The Power and Potential of Electromagnetic Radiation | K06 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| Abra, Greydon | Let It Rain | L05 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| ് Abu dagga, Obaida | Homemade Tesla Coil | G03 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| Abunayyan, Sarah | The Mind Of A Killer | B15 | Health Sciences Human | Dr. David R Williams | HDSB |
| č Akwiwu, Zina | Are Fingerprint Patterns Inherited? | E01 | Health Sciences Human | St. Thomas the Apostle (Waterdown) | HWCDSB |
| & Alagukumaran, Diya | BEEP BEEP! Emphasizing on insulin pump malfunctions. | K03 | Health Sciences Human | Munn's Public School | HDSB |
| 🎖 Alden, Calla | Canine Intelligence | A11 | Life Sciences Non-Human | Ancaster Meadow | HWDSB |
| Alhussein, Halima | Popping Boba | H19 | Phys & Math Sci | Cathy Wever | HWDSB |



| JUNIOR PROJECTS (7/8) | | | | | |
|-------------------------------|---|-------------------|-----------------------------|---|-------|
| Name | Project Title | Project Number | Division | School | Board |
| Al-Khafaji, Mariam | The Mind Of A Killer | B15 | Health Sciences Human | Dr. David R Williams | HDSB |
| š Allarakhia, Imran | LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices | P18 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| 🎖 Alper, Ege | Smart Strike Badminton Buddy | K11 | Eng & Comp Sci | John William Boich Public School | HDSB |
| Aly, Youssef | Reaction Time | B04 | Health Sciences Human | Highview | HWDSB |
| Amankrah, Miles | Mold Removers | A15 | Biotech | Charles R. Beaudoin Public School | HDSB |
| Amer, Eshal | Power of the Pancreas | B09 | Health Sciences Human | Hawthorne Village Public School | HDSB |
| č Anand, Ananya | Can I create a device to help in vision assist for dogs? | K02 | Eng & Comp Sci | Hawthorne Village Public School | HDSB |
| Anhara, Asma | Einstein's theory of gravity | G14 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| č Arora, Rishibha | Geothermal Energy Powered Street Light | M07 | Eng & Comp Sci | John William Boich Public School | HDSB |
| X Arun, Mrittika | Home Remedy App for Common Illnesses - Cure All @ Home | K19 | Health Sciences Human | John William Boich Public School | HDSB |
| Ashoorion, Bardia | Anti stress bracelet | D03 | Health Sciences Human | John William Boich Public School | HDSB |
| Ashraf, Maahnoor | Shake it Up!: Investigating the Accuracy of a Simple Seismograph | N13 | Eng & Comp Sci | Al-Falah Islamic School | IND |
| Asif, Aleeza | OCD: A Personal Analysis | B05 | Health Sciences Human | Tiger Jeet Singh Public School | HDSB |
| Ataya, Issa | Klebsiella: Molecular Characterization & Discovering A Cure | E17 | Biotech | W. H. Morden Public School | HDSB |



| | JUNIOR PE | ROJEC | TS (7/8) | | |
|---------------------------------|---|-------------------|-----------------------------|---|--------|
| Name | Project Title | Project Number | Division | School | Board |
| Awobokun, Fope | Inflation: The Silent Pickpocket | B18 | Health Sciences Human | Oakville Christian School | IND |
| Babem, Timi | Pancreas Problems | B19 | Biotech | St. Martin of Tours | HWCDSB |
| ö Badarala, Lohitaksh | Evaluating machine learning models for classifying stars into the MK system using photometric data. | J06 | Eng & Comp Sci | Bruce Trail Public School | HDSB |
| Ballard, Conner | Waste to Wonder | G13 | Phys & Math Sci | Charles R. Beaudoin Public School | HDSB |
| Bamigbola, Teni | Electro-Heavy or Electro- Light? | H20 | Phys & Math Sci | Oakville Christian School | IND |
| 8 Banerjee, Nina | The E.A.B (Epilepsy Alert Bracelet) | J02 | Health Sciences Human | John William Boich Public School | HDSB |
| Banks, Charli | Criminal Minds | C18 | Health Sciences Human | Rolling Meadows Public School | HDSB |
| Barghouth, Samira | Popping Boba | H19 | Phys & Math Sci | Cathy Wever | HWDSB |
| Barlow, Patrick | What Happens To Marshmallows in Different Liquids | A12 | Phys & Math Sci | Highview | HWDSB |
| 8 Beecroft, Grayson | Affordable Emergency Housing | H01 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| 8 Belwalkar, Smira | The E.A.B (Epilepsy Alert Bracelet) | J02 | Health Sciences Human | John William Boich Public School | HDSB |
| 8 Berger, Emily | Mall Bacteria | A10 | Life Sciences Non-Human | Charles R. Beaudoin Public School | HDSB |
| 🎖 Betty, Hailey | Bio Breakdown | L04 | Biotech | Cathy Wever | HWDSB |
| 8 Bharj, Harnarain | Coat Rack Heater | J01 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| 🎖 Bhatti, Sofia | Sticky Knowledge | C19 | Health Sciences Human | Al-Falah Islamic School | IND |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|--------------------------------|---|-------------------|-----------------------------|--|--------|
| Name | Project Title | Project Number | Division | School | Board |
| Bliek, William | What Happens To Marshmallows in Different Liquids | A12 | Phys & Math Sci | Highview | HWDSB |
| Bognar, Avery | Sweet Tooth | C10 | Health Sciences Human | Highview | HWDSB |
| Boverhof, Maddy | The Road to Recovery: Hamstring vs. Quadricep Graft for ACL Reconstruction in Children | C12 | Health Sciences Human | Trinity Christian School | IND |
| Bowles, Joshua | Heated Traffic Light Module | N17 | Eng & Comp Sci | John William Boich Public School | HDSB |
| Brar, Ganeev | Aqualux - the 'Sweeter' Solution to Traffic Lights | K18 | Eng & Comp Sci | Charles R. Beaudoin Public School | HDSB |
| Budgell, Jake | Snow Away | M11 | Eng & Comp Sci | Rolling Meadows Public School Hawthorne | HDSB |
| Budram, Aven | Recycling Robot Parts | J03 | Eng & Comp Sci | Village Public School | HDSB |
| 🎖 Budz, Evan | Virtual Lifeguard: A Novel Al Approach to Drowning Prevention | N23 | Eng & Comp Sci | Charles R. Beaudoin Public School | HDSB |
| 8 Burgess, Charlotte | Which toothpaste works best? | D18 | Phys & Math Sci | W. H. Morden Public School | HDSB |
| Burns, Molly | X-inactive Marks The Spot For Tortoiseshell Cats | A13 | Life Sciences Non-Human | Ancaster Meadow | HWDSB |
| Cani, Vlera | Which toothpaste works best? | D18 | Phys & Math Sci | W. H. Morden Public School | HDSB |
| Castelli, Clare | Germs at School | A06 | Life Sciences Non-Human | St. Augustine | HWCDSB |
| Castelli, Simon | Germs at School | A06 | Life Sciences Non-Human | St. Augustine | HWCDSB |
| Chartrand, Arya | Sweet Tooth | C10 | Health Sciences Human | Highview | HWDSB |
| 6 Chaudhry, Umar | A SPARK ON THE OTHER SIDE: Which material conducts heat transfer the quickest? | F05 | Phys & Math Sci | Al-Falah Islamic School | IND |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|--------------------------------|--|-------------------|-----------------------------|---|--------|
| Name | Project Title | Project Number | Division | School | Board |
| č Chawla, Karthik | PROJECT DRONE: Disaster Recovery, Outreach for Natural Emergencies | N15 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| Chen, Karis | Screens before Sleep | C11 | Health Sciences Human | Dr. David R Williams | HDSB |
| ö Chen, Nina | Geothermal Energy Powered Street Light | M07 | Eng & Comp Sci | John William Boich Public School | HDSB |
| Connor, Nathan | Making a Cost Effective Laser Engraver | H06 | Eng & Comp Sci | Oakville Christian School | IND |
| Cook, Hanna | Most Effective Mouthwash | E16 | Biotech | Ancaster Meadow | HWDSB |
| Crawley, Liam | Pancreas Problems | B19 | Biotech | St. Martin of Tours | HWCDSB |
| Dagg, Sophie | Beauty Blender Bacteria | A17 | Life Sciences Non-Human | Charles R. Beaudoin Public School | HDSB |
| 8 Danda, Sahil | From Poop to Gas: Making Biogas and Cleaning it with Water | N08 | Biotech | W. H. Morden Public School | HDSB |
| o De Souza, Arya | Back to the Water - Creating 3D Printed Prosthetics for Painted Turtles | A05 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| ö Dear, Leah | Quick Scribe | P04 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| Dekker, Evan | Modern Secure Communications - libkeychain | L03 | Eng & Comp Sci | Charles R. Beaudoin Public School | HDSB |
| ŏ Di Nicola, Gabriel | Water Is Not Enough; Maintaining Electrolyte Balance During Illness | C14 | Phys & Math Sci | Our Lady of Peace | HWCDSB |
| Dirani, Lana | Einstein's theory of gravity | G14 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| o Dong, Heather | Convolutional Neural Networks: Radiologists of the Future | J19 | Health Sciences Human | W. H. Morden Public School | HDSB |
| Duncan, Emma | Beauty Blender Bacteria | A17 | Life Sciences Non-Human | Charles R. Beaudoin Public School | HDSB |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|------------------------------|--|-------------------|-----------------------------|--|-------|
| Name | Project Title | Project Number | Division | School | Board |
| Ö Durowoju, Hannah | Using artificial intelligence to improve observation in child and adolescent mental units | P14 | Eng & Comp Sci | Our Lady of Victory Elementary School | HCDSB |
| Dwarka, Eliana | Sugar Rush | E06 | Biotech | John William Boich Public School | HDSB |
| Elder, Ruby | Diy eco friendly lip oil | F18 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| Esho, Fifi | Decay on Display: The Sweet Truth About Sugary Drinks And Your Teeth | N06 | Health Sciences Human | Dr. David R Williams | HDSB |
| Evers, Ella | Detect and Protect | M17 | Earth & Env Sci | Rolling Meadows Public School | HDSB |
| 🎖 Faisal, Abiha | Caffeine Buzz and Sugar Rush: Exploring the Night's Hush | D11 | Health Sciences Human | Rattlesnake Point Public School | HDSB |
| Fan, Parker | The Gaming Effect | N04 | Health Sciences Human | Oakville Christian School | IND |
| ö Farhan, Anaum | Alumify | L15 | Earth & Env Sci | Rattlesnake Point Public School | HDSB |
| 6 Fayyaz, Alishba | Alumify | L15 | Earth & Env Sci | Rattlesnake Point Public School | HDSB |
| Fedsin, Justin | Can I convert static electricity to current electricity | H05 | Phys & Math Sci | Highview | HWDSB |
| 6 Fernandes, Aaliyah | Sweet as Sugar | F17 | Phys & Math Sci | Oakville Christian School | IND |
| Formela, Lily | Sugar Rush | E06 | Biotech | John William Boich Public School | HDSB |
| 6 Forrest, Emma | SSS - The Street Smart Safety App | K17 | Eng & Comp Sci | Balaclava | HWDSB |
| Gardanis, Panayioti | Can We Use Robots and Machines to Help Blind People | J20 | Eng & Comp Sci | Hawthorne Village Public School | HDSB |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|---------------------------------|--|-------------------|--------------------|--|--------|
| Name | Project Title | Project Number | Division | School | Board |
| 6 Gharbia, Aya | The Wi-Fi dilemma: Who Is Blocking My Signal? The effect of different building materials on Wi-Fi | G17 | Phys & Math Sci | Al-Falah Islamic School | IND |
| Gheva, Sarah | How much soap do you really need to get the oil off of your hands? | G20 | Phys & Math Sci | Rolling Meadows Public School | HDSB |
| ö Gilchrist, Jameson | MOTIV8-2-HYDR8: H2O FITNESS MOTIV8R | L02 | Eng & Comp Sci | St. Elizabeth Seton Elementary School | HCDSB |
| o Gomber, Aarunya | Seeker Bot | H03 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| Granka, Graclyn | Let It Rain | L05 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| ♂ Halim, Joshua | Reach for the Stars | N11 | Phys & Math Sci | Oakville Christian School | IND |
| Harrington, Neil | Can I convert static electricity to current electricity | H05 | Phys & Math Sci | Highview | HWDSB |
| 6 Hart, Nicholas | How Organic is Too Organic??? | E04 | Biotech | Charles R. Beaudoin Public School | HDSB |
| He, Ted | Urban Wind Energy | M05 | Eng & Comp Sci | Charles R. Beaudoin Public School | HDSB |
| Hill, Alivia | Alien Plants | M06 | Earth & Env Sci | St. Clare of Assisi | HWCDSB |
| 8 Horn, Ethan | E-Clip | M03 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| & Huang, Michelle | Solar Desalination Versus Other Filtration Methods | L10 | Phys & Math Sci | Cathy Wever | HWDSB |
| 6 Huang, Tiffany | Solar Desalination Versus Other Filtration Methods | L10 | Phys & Math Sci | Cathy Wever | HWDSB |
| Hume, Lucy | Alien Plants | M06 | Earth & Env Sci | St. Clare of Assisi | HWCDSB |
| d Humphreys, Elliot | GET A GRIP | F06 | Phys & Math Sci | Oakville Christian School | IND |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|-----------------------------|---|-------------------|-----------------------------|--|--------|
| Name | Project Title | Project Number | Division | School | Board |
| Imran, Myra | Love At First Sight | C04 | Health Sciences Human | Ancaster Meadow | HWDSB |
| Jagt, Dylan | Making a Cost Effective Laser Engraver | H06 | Eng & Comp Sci | Oakville Christian School | IND |
| 🎖 Jain, Tiara | AquaWise | M10 | Eng & Comp Sci | John William Boich Public School | HDSB |
| ö Javidi, Glareen | Optimal Watering Patterns for Sunflower Development | A14 | Life Sciences Non-Human | Munn's Public School | HDSB |
| John, Sophie | The Effects Of Social Media On Kids | C13 | Health Sciences Human | Ancaster Meadow | HWDSB |
| Johnson, Malcolm | Chewing the 5-Second rule | C16 | Phys & Math Sci | Tiger Jeet Singh Public School | HDSB |
| Jones, Abigale | Monitoring Glucose Levels | C05 | Health Sciences Human | Hawthorne Village Public School | HDSB |
| 8 Jones, Darius | MOTIV8-2-HYDR8: H2O FITNESS MOTIV8R | L02 | Eng & Comp Sci | St. Elizabeth Seton Elementary School | HCDSB |
| Joseph, Julia | Opticlip | H17 | Eng & Comp Sci | Our Lady of the Assumption | HWCDSB |
| Kahvaie-Zad, Nikki | The Science Behind Lucid Dreams | D09 | Health Sciences Human | Munn's Public School | HDSB |
| Kakan, Suvi | The Effects of Artificial Light on Marine Life | A01 | Earth & Env Sci | Munn's Public School | HDSB |
| ४ Kaliga, Varnika | DNA-myte Party | N02 | Life Sciences Non-Human | Sunningdale Public School | HDSB |
| Kang, Jace | Where should we Terraform? | M16 | Earth & Env Sci | Hawthorne Village Public School | HDSB |
| 🎖 Kar, Vivaan | The Alginate Advantage | F20 | Biotech | W. H. Morden Public School | HDSB |
| Kaur, Ashmeet | Run For The Greater Good | K13 | Eng & Comp Sci | John William Boich Public School | HDSB |



| JUNIOR PROJECTS (7/8) | | | | | | | |
|---------------------------------|--|-------------------|-----------------------------|--|--------|--|--|
| Name | Project Title | Project Number | Division | School | Board | | |
| Khan, Rameen | Answers to Aid Anopsia | K04 | Eng & Comp Sci | Rattlesnake Point Public School | HDSB | | |
| Khan, Shayaan | Field Goal! The Science Behind A Perfect Football Kick | M01 | Phys & Math Sci | Frank Panabaker South | HWDSB | | |
| & Khan, Wardah | Battle of the Stomach: Antacids vs Acid | D08 | Biotech | Al-Falah Islamic School | IND | | |
| 🎖 Kim, Nayune | The Double-Slit Experiment | G15 | Phys & Math Sci | Charles R. Beaudoin Public School | HDSB | | |
| X Kinsella, Anabella | EZ Dispenser | K07 | Eng & Comp Sci | St. Bernadette | HWCDSB | | |
| Kinzl, Palmer | Brilliant Bicycle Dynamo | L17 | Eng & Comp Sci | Rolling Meadows Public School | HDSB | | |
| Kiran, Yuti | Hospital Wait Time App | C07 | Health Sciences Human | John William Boich Public School | HDSB | | |
| Kolodenko, Nika | Turmeric and how it affects you. | E08 | Biotech | Munn's Public School | HDSB | | |
| & Kulasic, Zaid | Evaluation the Effectiveness of Insulation Materials | F07 | Phys & Math Sci | Al-Falah Islamic School | IND | | |
| 🎖 Lai, Brandon | Electrifying Objects | F03 | Phys & Math Sci | Oakville Christian School | IND | | |
| & LeBlanc, Jordan | A Novel System for Objective Clinical Assessment of Cold and Influenza Using Infrared Image Analysis | N24 | Health Sciences Human | St. Matthew Elementary School | HCDSB | | |
| Lee, Simon | Harmony in Glass: Building a Bioactive Terrarium | N01 | Earth & Env Sci | Our Lady of Victory Elementary School | HCDSB | | |
| ४ Li, Yuewen | Improving PDAC Prognosis: Novel Approach Utilising CRISPR- Mediated Gene Knockout for TME Disruption | E05 | Biotech | W. H. Morden Public School | HDSB | | |
| & Liaghati, Lily | Busier Bees: Increasing Productivity in Bees | A04 | Eng & Comp Sci | Munn's Public School | HDSB | | |



| | JUNIOR PE | ROJEC | TS (7/8) | | |
|------------------------------|--|-------------------|-----------------------------|---|--------|
| Name | Project Title | Project Number | Division | School | Board |
| T Liu, Katelynn | The Double-Slit Experiment | G15 | Phys & Math Sci | Charles R. Beaudoin Public School | HDSB |
| 6 Lotfi, Andrew | Green Clean | E09 | Biotech | Oakville Christian School | IND |
| MacLean, Myla | Criminal Minds | C18 | Health Sciences Human | Rolling Meadows Public School | HDSB |
| Maftoon, Armita | Physical models of patient heart valves for planning surgery | D04 | Health Sciences Human | Frank Panabaker South | HWDSB |
| Maftoon, Vianna | Physical models of patient heart valves for planning surgery | D04 | Health Sciences Human | Frank Panabaker South | HWDSB |
| Manoj, Advik | MacroDiet | D10 | Health Sciences Human | Oodenawi Public School | HDSB |
| Mansour, Tia | Diy eco friendly lip oil | F18 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| ४ Marrazzo, Lauren | Sweet Science: Exploring the World of Diabetes | B12 | Health Sciences Human | St. Clare of Assisi | HWCDSB |
| Maru, Shiv | Revolutionising Healthcare: One Atom at a Time | D07 | Health Sciences Human | Dr. David R Williams | HDSB |
| Matloubiaghdam, Agrin | To Vegan or Not to Vegan: Are we killing the planet? | M04 | Earth & Env Sci | Dr. David R Williams | HDSB |
| 8 Mawji, Ayaan | Smart Strike Badminton Buddy | K11 | Eng & Comp Sci | John William Boich Public School | HDSB |
| McElheron, Julianna | What Chemicals Cause Aggressive Behaviour | D06 | Health Sciences Human | Charles R. Beaudoin Public School | HDSB |
| McKerracher, Gavin | EPIC (Escapement Piezoelectric Impact Converter) | K01 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| Mejia Perfiliev, Sofia | Mall Bacteria | A10 | Life Sciences Non-Human | Charles R. Beaudoin Public School | HDSB |
| Memme, Rocco | Mold Removers | A15 | Biotech | Charles R. Beaudoin Public School | HDSB |



| | JUNIOR PE | ROJEC | TS (7/8) | | |
|-----------------------------|---|-------------------|-----------------------------|---------------------------------------|--------|
| Name | Project Title | Project Number | Division | School | Board |
| 8 Merchant, Sahana | The Power and Potential of Electromagnetic Radiation | K06 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| Mills-Hyde, Jahvon | How does a self-charging electric plane use wind power to help us and the world? | H14 | Eng & Comp Sci | Highview | HWDSB |
| ŏ Mithun, Joshua | EZ Dispenser | K07 | Eng & Comp Sci | St. Bernadette | HWCDSB |
| Montemayor, Brianna | Prop Magic (creating the room where it happened) | P09 | Eng & Comp Sci | St George- German Public School | GEDSB |
| ö Morales, Alena | Older than Osmosis | B16 | Health Sciences Human | Rolling Meadows Public School | HDSB |
| o Mousa, Rayan | Don't Get Rusty! | G10 | Phys & Math Sci | Al-Falah Islamic School | IND |
| Mrmak, Mila | RED VELVET CAKE: BAKING WITH AND WITHOUT RED FOOD COLOURING | G16 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| Munoz- Johnson, Vivien | CAN MY CAT STILL HEAR? | B20 | Life Sciences Non-Human | Highview | HWDSB |
| Muthukumarana, Dithira 🎖 | CO2 Free Ethanol Powered Cars? | L13 | Eng & Comp Sci | St. Matthew | HWCDSB |
| Muthy, Arav | Where should we Terraform? | M16 | Earth & Env Sci | Hawthorne Village Public School | HDSB |
| Myska, Sam | Snow Away | M11 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| Nabi, Safirun | HotWheels and Aerodynamix | G08 | Phys & Math Sci | Highview | HWDSB |
| ö Naidu, Mithru | LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices | P18 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| 🎖 Nair, Arshia | Fire that Fat! : Impact of Aerobic vs Anaerobic Exercise on Visceral Fat in Adolescents | B02 | Health Sciences Human | Tiger Jeet Singh Public School | HDSB |
| 8 Nastase, Sami | Refuge from Radars | H10 | Eng & Comp Sci | W. H. Morden Public School | HDSB |



| | JUNIOR PE | ROJEC | TS (7/8) | | |
|-------------------------------|---|-------------------|-----------------------------|--|-------|
| Name | Project Title | Project Number | Division | School | Board |
| 8 Ndibmun, Hanniel | Electrophoresis and Chromatography: Real Life Applications | G04 | Phys & Math Sci | Cathy Wever | HWDSB |
| Nhan, Aivy | Constructing a Rotating Solar Panel + How It Works | H04 | Eng & Comp Sci | Ancaster Meadow | HWDSB |
| Nicholls, Julia | Turmeric and how it affects you. | E08 | Biotech | Munn's Public School | HDSB |
| Okanla, Yomade | Bioplastics Unwrapped: Investigating the Properties of Bioplastics | E13 | Biotech | Our Lady of Victory Elementary School | HCDSB |
| Okpala, Chiazom | Intervention for ADHD (no meds included) | C20 | Health Sciences Human | Oakville Christian School | IND |
| O'Leary, Liam | Aqualux - the 'Sweeter' Solution to Traffic Lights | K18 | Eng & Comp Sci | Charles R. Beaudoin Public School | HDSB |
| Olumide, Fola | Harmony in Glass: Building a Bioactive Terrarium | N01 | Earth & Env Sci | Our Lady of Victory Elementary School | HCDSB |
| Olumide, Ladi | Bioplastics Unwrapped: Investigating the Properties of Bioplastics | E13 | Biotech | Our Lady of Victory Elementary School | HCDSB |
| Ongking, Carlo | How Does the Size & Shape of a Baseball Park Affect Batting Averages? | G09 | Phys & Math Sci | MacLachlan College | IND |
| o Orphanos, Rachael | Destructive Digestion: Foreign Objects in our Pets Digestive Tract | A20 | Life Sciences Non-Human | Hawthorne Village Public School | HDSB |
| Pan, Isabella | Revolutionising Healthcare: One Atom at a Time | D07 | Health Sciences Human | Dr. David R Williams | HDSB |
| Papade, Avani | Weathering Space Without Protection | D13 | Health Sciences Human | Dr. David R Williams | HDSB |
| 8 Parachin, Maya | The Frytastic Fry Fit | K16 | Eng & Comp Sci | Oakville Christian School | IND |
| Paranthaman, Vaisannya | Automated Waste Sorting System | J05 | Eng & Comp Sci | Rattlesnake Point Public School | HDSB |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|-----------------------------------|---|-------------------|-----------------------------|---------------------------------------|--------|
| Name | Project Title | Project Number | Division | School | Board |
| Parsons, Emaya | W.E. Hydrate | K12 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| Patel, Arohee | Guitar Strum Test | G18 | Phys & Math Sci | W. H. Morden Public School | HDSB |
| 8 Patel, Nevin | Green Clean | E09 | Biotech | Oakville Christian School | IND |
| Paul, Shayaan | Brilliant Bicycle Dynamo | L17 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| 8 Peart, Evelyn | Al Use In Determining Material Of Litter In Nature | J10 | Eng & Comp Sci | Tiger Jeet Singh Public School | HDSB |
| 8 Piccoli, Luca | Water Is Not Enough; Maintaining Electrolyte Balance During Illness | C14 | Phys & Math Sci | Our Lady of Peace | HWCDSB |
| Pietryszyn, Cohen | Magnetic Levitation | G12 | Phys & Math Sci | Rolling Meadows Public School | HDSB |
| ö Polyanska, Maria | Extending range of VHF/UHF transceivers by improving antenna efficiency for emergency communications | H15 | Eng & Comp Sci | Forest Trail Public School | HDSB |
| of Ponnambalam, Karthik | Investigating the use of a gelatin gel to prevent the breakage of fragile items | N09 | Phys & Math Sci | Hillfield Strathallan College | IND |
| 8 Prias, Mariana | Can humans distinguish Al-generated images from real photos? | K09 | Health Sciences Human | Highview | HWDSB |
| 8 Prokipczuk, Katherine | Light Pollution | M14 | Earth & Env Sci | Ancaster Meadow | HWDSB |
| Puri, Waris | Auto Hydrator | J08 | Eng & Comp Sci | Rattlesnake Point Public School | HDSB |
| 🎖 Qazi, Daniyal | From Pixels to Predictions: A Deep Learning Method to Detect Pneumonia in Chest X-Ray Images | P08 | Health Sciences Human | W. H. Morden Public School | HDSB |
| 🎖 Qazi, Zayn | From Pixels to Predictions: A Deep Learning Method to Detect Pneumonia in Chest X-Ray Images | P08 | Health Sciences Human | W. H. Morden Public School | HDSB |



| | JUNIOR PI | ROJEC | TS (7/8) | | |
|-----------------------------------|--|-------------------|-----------------------------|--|-------|
| Name | Project Title | Project Number | Division | School | Board |
| ở Qureshi, Ana | Dazzling in the Distance: How Does Light Intensity Change With Distance? | N12 | Phys & Math Sci | Al-Falah Islamic School | IND |
| Race, Elias | Reaction Time | B04 | Health Sciences Human | Highview | HWDSB |
| Rao, Musa | The Helping Arm | J07 | Eng & Comp Sci | John William Boich Public School | HDSB |
| 🎖 Rao, Rahul | The Alginate Advantage | F20 | Biotech | W. H. Morden Public School | HDSB |
| Ravulapati, Naga Shruthika | Carbon Farms - A Futuristic Solution to A Current Problem | L06 | Earth & Env Sci | Hawthorne Village Public School | HDSB |
| 8 Rechan, Anika C | DNA-myte Party | N02 | Life Sciences Non-Human | Sunningdale Public School | HDSB |
| Reddiar, Megha | Lobotomy V.S. Concussions | C09 | Health Sciences Human | Hawthorne Village Public School | HDSB |
| Reise, Miles | The Dehumidity Tent | C06 | Eng & Comp Sci | John William Boich Public School | HDSB |
| Roche- Tereskewitz, Addison | Animals VS Mental Health | E03 | Health Sciences Human | Rolling Meadows Public School | HDSB |
| 8 Rosien, Sophia | AquaTag | H07 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |
| Saad Eldin, Mahmoud | Flu Fighters 101 | D19 | Health Sciences Human | Al-Falah Islamic School | IND |
| Saadeldin, Tala | The Mighty Battle: Blood Clots Vs. Anticoagulants | D01 | Health Sciences Human | Al-Falah Islamic School | IND |
| Saeed, Ahmed | Homemade Tesla Coil | G03 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| Saenz-Rincon, Silvana | MedScanPro | D17 | Biotech | St. Elizabeth Seton Elementary School | HCDSB |
| Saleh, Fatima | Spectrum of Taste | D02 | Health Sciences Human | W. H. Morden Public School | HDSB |



| JUNIOR PROJECTS (7/8) | | | | | | |
|-----------------------------|---|-------------------|-----------------------------|---------------------------------------|--------|--|
| Name | Project Title | Project Number | Division | School | Board | |
| Salman, Sameeha | When life dims your lights, just add a Conductor! | F12 | Phys & Math Sci | Al-Falah Islamic School | IND | |
| Sayeed, Sehrish | Decay on Display: The Sweet Truth About Sugary Drinks And Your Teeth | N06 | Health Sciences Human | Dr. David R Williams | HDSB | |
| o Schubert, Kayla | Older than Osmosis | B16 | Health Sciences Human | Rolling Meadows Public School | HDSB | |
| Sels, Bridgette | AquaTag | H07 | Eng & Comp Sci | Rolling Meadows Public School | HDSB | |
| Seoh, Thomas | Stochastic Dynamics in Epidemiological Models: Exploration of Predictability Using SIR Frameworks | P12 | Health Sciences Human | W. H. Morden Public School | HDSB | |
| Shahid, Momin | Chewing the 5-Second rule | C16 | Phys & Math Sci | Tiger Jeet Singh Public School | HDSB | |
| o Sharma, Avaya | Who Are The Sic'est Oakvillians | B10 | Health Sciences Human | Oakville Christian School | IND | |
| Sharma, Seher | ART in the era of ARTificial Intelligence: Are we ready for it? | N19 | Eng & Comp Sci | W. H. Morden Public School | HDSB | |
| Sheik, Yusuf | Wind's Algorithm | K15 | Eng & Comp Sci | Tiger Jeet Singh Public School | HDSB | |
| Sheth, Rayna | Which AI Detects AI? | J16 | Eng & Comp Sci | W. H. Morden Public School | HDSB | |
| š Siddicky, Sarim | Vision Transformers (ViTs) for the Diagnosis of Diabetic Retinopathy | E18 | Health Sciences Human | W. H. Morden Public School | HDSB | |
| Small, Owen | SSS - The Street Smart Safety App | K17 | Eng & Comp Sci | Balaclava | HWDSB | |
| 8 Smith, Jared | CO2 Free Ethanol Powered Cars? | L13 | Eng & Comp Sci | St. Matthew | HWCDSB | |
| Solomon, Cleoneka | The Cool Clinostat | M20 | Life Sciences Non-Human | Cathy Wever | HWDSB | |
| Soofi, Uzair | Auto Hydrator | J08 | Eng & Comp Sci | Rattlesnake Point Public School | HDSB | |



| JUNIOR PROJECTS (7/8) | | | | | | | |
|------------------------------|---|-------------------|-----------------------------|--|--------|--|--|
| Name | Project Title | Project Number | Division | School | Board | | |
| S Sowdagar, Hiba | Role of Liquid Biopsy: Circulating Tumor Cells (CTCs) in Medical Oncology | B07 | Health Sciences Human | Ancaster Meadow | HWDSB | | |
| S rivastava, Daksh | Modeling Sea Surface Salinity and Temperature Impact on Phytoplankton & Whales: Canadian Atlantic | L16 | Earth & Env Sci | Pilgrim Wood Public School | HDSB | | |
| Stokes , Madelyn | Destructive Digestion: Foreign Objects in our Pets Digestive Tract | A20 | Life Sciences Non-Human | Hawthorne Village Public School | HDSB | | |
| Strickland, Georgia | You Want Fries With That? | H18 | Phys & Math Sci | Oakville Christian School | IND | | |
| 🎖 Su, Emma | Back to the Water - Creating 3D Printed Prosthetics for Painted Turtles | A05 | Eng & Comp Sci | W. H. Morden Public School | HDSB | | |
| 🎖 Su, Irene | Optimal Watering Patterns for Sunflower Development | A14 | Life Sciences Non-Human | Munn's Public School | HDSB | | |
| Sun, Micah | Supplements: Supportive or Scam? Short and Long term effects of supplements and risk of overdose. | C15 | Health Sciences Human | Hawthorne Village Public School | HDSB | | |
| č Szecsodi, Ben | Affordable Emergency Housing | H01 | Eng & Comp Sci | Rolling Meadows Public School | HDSB | | |
| 🎖 Tan, Siqi | Improving PDAC Prognosis: Novel Approach Utilising CRISPR- Mediated Gene Knockout for TME Disruption | E05 | Biotech | W. H. Morden Public School | HDSB | | |
| 🎖 Tayal, Jaylan | GreenHound - Your Personal Litter Tracker For a Greener Future | N18 | Eng & Comp Sci | John William Boich Public School | HDSB | | |
| Taylor, Kyrah | Opticlip | H17 | Eng & Comp Sci | Our Lady of the Assumption | HWCDSB | | |
| Thomas, Will | From Concept to Code | J14 | Eng & Comp Sci | St. Augustine | HWCDSB | | |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|-----------------------------|---|-------------------|-----------------------------|--|-------|
| Name | Project Title | Project Number | Division | School | Board |
| Timmins, Luke | Angles of refraction: Snell's law put into action | G02 | Phys & Math Sci | Our Lady of Victory Elementary School | HCDSB |
| Umah, Michelle | Solar Powered Water Desalination | G01 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| Urs, Janya | Turbine Powered Car | J17 | Eng & Comp Sci | John William Boich Public School | HDSB |
| Vander Wal, Evan | Exploring how viscosity and volume of a liquid affects the trajectory of a sphere | G19 | Phys & Math Sci | Dundas Central Public | HWDSB |
| Vidican , Jonathan | Chaos, break the wave! | J15 | Phys & Math Sci | St. Mary Elementary School | HCDSB |
| Vignesh , Bhavishyaa | Cosmic Fields (Advanced Lunar Food Production System) | A02 | Biotech | Post's Corners Public School | HDSB |
| Vivek, Bhav | Guitar Strum Test | G18 | Phys & Math Sci | W. H. Morden Public School | HDSB |
| Vu, Jayden | Angles of refraction: Snell's law put into action | G02 | Phys & Math Sci | Our Lady of Victory Elementary School | HCDSB |
| Vyas, Eshaan | Stochastic Dynamics in Epidemiological Models: Exploration of Predictability Using SIR Frameworks | P12 | Health Sciences Human | W. H. Morden Public School | HDSB |
| Wadehra, Raima | Dopamine levels- Humour versus tickles, which one releases more dopamine and why? | C03 | Health Sciences Human | Hawthorne Village Public School | HDSB |
| Wamatu, Nyawira | Detect and Protect | M17 | Earth & Env Sci | Rolling Meadows Public School | HDSB |
| Warmington, Matthew | How does a self-charging electric plane use wind power to help us and the world? | H14 | Eng & Comp Sci | Highview | HWDSB |
| 6 Warren, Tessa | Sweet as Sugar | F17 | Phys & Math Sci | Oakville Christian School | IND |



| | JUNIOR PF | ROJEC | TS (7/8) | | |
|--------------------------|--|-------------------|-----------------------------|--|-------|
| Name | Project Title | Project Number | Division | School | Board |
| Waseem, Nashra | Power of the Pancreas | B09 | Health Sciences Human | Hawthorne Village Public School | HDSB |
| ♉ Waseem, Zoha | Malicious Melanoma: Convolutional Neural Network's Accuracy in Diagnosing Malignant Melanoma | K10 | Health Sciences Human | Al-Falah Islamic School | IND |
| ö Waseem, Zoya | Pneumonia Detective: The Effectiveness of a Pneumonia Detection ML VS. Medical Practitioners | K20 | Health Sciences Human | Al-Falah Islamic School | IND |
| Welch, Callie | Have You Ever Felt Like You Were Being Watched | D05 | Health Sciences Human | Highview | HWDSB |
| West, Eli | Anti stress bracelet | D03 | Health Sciences Human | John William Boich Public School | HDSB |
| Willers, Toby | Heated Traffic Light Module | N17 | Eng & Comp Sci | John William Boich Public School | HDSB |
| 🎖 Wu, Ruofei | GreenHound - Your Personal Litter Tracker For a Greener Future | N18 | Eng & Comp Sci | John William Boich Public School | HDSB |
| Xing, Angel | Solar Powered Water Desalination | G01 | Phys & Math Sci | Ancaster Meadow | HWDSB |
| Yang, Claire | Screens before Sleep | C11 | Health Sciences Human | Dr. David R Williams | HDSB |
| 🎖 Yang, Zhuo | Automated Pharmaceutical Defect Detection Using Machine Vision | P07 | Eng & Comp Sci | W. H. Morden Public School | HDSB |
| Zeng, Joanna | The Effects of Artificial Light on Marine Life | A01 | Earth & Env Sci | Munn's Public School | HDSB |
| Zheng, Tony | The Gaming Effect | N04 | Health Sciences Human | Oakville Christian School | IND |
| Zheng, Wendy (Yawen) | W.E. Hydrate | K12 | Eng & Comp Sci | Rolling Meadows Public School | HDSB |



Intermediate Level

| | INTERMEDIATE | PRO. | JECTS (9 | /10) | |
|------------------------------------|---|-------------------|-----------------------------|--------------------------------------|-------|
| Name | Project Title | Project Number | Division | School | Board |
| ♂ Alsaadi, Bahaa Al Deen | Bits to Bedside: An Ingenious Exploration of Machine Learning in Triage Assessments | J12 | Health Sciences Human | Al-Falah Islamic School | IND |
| š Alsaadi, Zena | Bits to Bedside: An Ingenious Exploration of Machine Learning in Triage Assessments | J12 | Health Sciences Human | Al-Falah Islamic School | IND |
| 8 Barkman, Tristan | Coral Reefs and the Kellwasser Event: Unraveling the Devonian Extinction Mystery | L11 | Earth & Env Sci | Home Schooling | IND |
| Campbell, Isla | A new device of treating and preventing the damage of heart attacks, CASS | E20 | Biotech | Blyth Academy | IND |
| Chan Carusone, Senna | Illuminating Your Emotions: Using Symmetry in Electroencephalogram Data to Detect and Display Stress Levels | P15 | Health Sciences Human | Burlington Central High School | HDSB |
| Ö Dua, Shambhvi | Decoding Brainwaves: A Machine Learning Approach to Seizure Prediction | B14 | Health Sciences Human | White Oaks Secondary School | HDSB |
| č Efthimiadis, Anthony | Instant Skin Cancer Diagnosis: AI Hybrid Neural Networks with Precise Evolution Tracking | P11 | Eng & Comp Sci | Oakville Trafalgar High School | HDSB |
| lpwanshek, Gabriella | Mind & Cycle: Exploring the hormonal pathophysiology of catamenial epilepsy and potential treatments | N05 | Health Sciences Human | White Oaks Secondary School | HDSB |
| 3 Johnson, William | Assessing the Need for a United Nations' Space Sustainability Goal | L14 | Earth & Env Sci | Westdale Secondary School | HWDSB |
| Jovicevic, Teodora | Glucose in Various Substances and How it Affects the Body | G11 | Phys & Math Sci | Ancaster High | HWDSB |



| | INTERMEDIATE | E PRO | JECTS (9 | /10) | |
|--------------------------------|---|-------------------|-----------------------------|---|--------|
| Name | Project Title | Project Number | Division | School | Board |
| ४ Kudale, Arnnav | Recreator3D.com - Is recycling filament cheaper than buying spools? | P06 | Eng & Comp Sci | White Oaks Secondary School | HDSB |
| Kurji, Alina | Hydroponics: A Solution for the Food Insecure | N25 | Life Sciences Non-Human | Westmount Secondary School | HWDSB |
| 6 LeBlanc, Jacob | Development of a Novel Integrated System for Electric Vehicle Charging During Vehicle Operation | P02 | Eng & Comp Sci | Abbey Park High School | HDSB |
| 6 Lopes, Isabella | Expansion of the Cosmos part 2 | F02 | Phys & Math Sci | Bishop Ryan Secondary School | HWCDSB |
| 6 Luo, Bonnie | FlameWatch: A Real-Time TensorFlow and Edge TPU Powered Home Defense System | P05 | Eng & Comp Sci | White Oaks Secondary School | HDSB |
| 8 Marsh, Claire | The Gluten Sensor: Detecting Gluten in Food Using Artificial Intelligence and TinyML | B03 | Health Sciences Human | M. M. Robinson High School | HDSB |
| ४ Mehfil, Fiza | Detecting and Analyzing Exoplanet Atmospheres using K-Nearest- Neighbours Algorithm and OpenCV | N20 | Eng & Comp Sci | Milton District High School | HDSB |
| 8 Mehr, Ariana | Great Minds Think Alike! | N07 | Biotech | Bishop P. F. Reding Secondary School | HCDSB |
| Morash, Ella | The Psychology of Music: Understanding how music affects us and how we can use it to our advantage | B01 | Health Sciences Human | Blyth Academy | IND |
| 8 Pacifici, Nicholas | The PrepStep: A Mobile Health Platform to Detect Ventricular Cardiomyopathy in Athletes Using Al | H08 | Health Sciences Human | St. Mary Secondary School | HWCDSB |
| 🎖 Park, Jieun | Language Policies and Mass Psychology Within a Community of Practice Regarding Sacred Language | B11 | Health Sciences Human | Bishop Tonnos Secondary School | HWCDSB |



| | INTERMEDIATI | E PRO | JECTS (9 | /10) | |
|---|--|-------------------|-----------------------------|---|-------|
| Name | Project Title | Project Number | Division | School | Board |
| 6 Perlawar, Prathamesh | Green Solutions: Transforming Food Waste into Bioplastic | E10 | Biotech | White Oaks Secondary School | HDSB |
| 8 Powell, Luke | Flashify: An Innovative Flash Card Alternative | N21 | Eng & Comp Sci | Aldershot High School | HDSB |
| 8 Qin, Yuyang | How does the geometry and texture impact the stability of tires under extreme weather conditions | G06 | Phys & Math Sci | Hillfield Strathallan College | IND |
| ് Rajkumar, Raahith | Biofuel Bounty: Unveiling the Power of Waste Oils | E14 | Biotech | Hillfield Strathallan College | IND |
| 8 Rashid, Nabira | Investigating the Effect of Light Color on Solar Cell Voltage Output | F13 | Phys & Math Sci | White Oaks Secondary School | HDSB |
| 🎖 Rastogi, Maithili | Investigating the Effect of Light Color on Solar Cell Voltage Output | F13 | Phys & Math Sci | White Oaks Secondary School | HDSB |
| Salimi, Rida | Analyzing Cosmic Light Pollution by Comparing Different Coloured Filters | L09 | Earth & Env Sci | Garth Webb Secondary School | HDSB |
| S aravanan, Rakshan | The electrocorpulgraph: Can Al change auscultation? | E07 | Health Sciences Human | Ancaster High | HWDSB |
| 🎖 Shaiju, Julian | Great Minds Think Alike! | N07 | Biotech | Bishop P. F. Reding Secondary School | HCDSB |
| Sheel , Vedant | A Novel Approach to ASL Translation Using Al | N26 | Eng & Comp Sci | Waterdown District Secondary School | HWDSB |
| Tripathi, Eva | NephroGenesis: Unlocking the Secrets of Kidney Regeneration | E11 | Biotech | Elsie Macgill Secondary School | HDSB |
| 🎖 Truant, Kai | True Blue: A Safer Way to kill Bacteria and Viruses with Light | E19 | Biotech | Ancaster High | HWDSB |
| ४ Vargas- Saravanamuttu, Radha Maria | The Patterns that Give Us Life: The Role of Fractal Structure in Lung Function | C01 | Phys & Math Sci | Hillfield Strathallan College | IND |



| | INTERMEDIATE PROJECTS (9/10) | | | | | | | | |
|------------------------------|--|-------------------|-----------------------------|---------------------------------------|-------|--|--|--|--|
| Name | Project Title | Project Number | Division | School | Board | | | | |
| o Veljkovic, Filip | SODIS in Canada 2 - Works With Global Warming, too! | L20 | Earth & Env Sci | Corpus Christi Secondary School | HCDSB | | | | |
| Wang, Jasmine | Sparks | H02 | Eng & Comp Sci | Iroquois Ridge High School | HDSB | | | | |
| 🎖 Wang, Jiaqi | How does the geometry and texture impact the stability of tires under extreme weather conditions | G06 | Phys & Math Sci | Hillfield Strathallan College | IND | | | | |
| Zander, Leah | Blood Droplet Analysis: Investigating Blood Drop Characteristics for Crime Scene Reconstruction | L01 | Health Sciences Human | Appleby College | IND | | | | |
| 8 Zhang, Cody | Using Object Segmentation to Analyze Nutrient Content of Meals | H13 | Eng & Comp Sci | Abbey Park High School | HDSB | | | | |
| 🎖 Zhu, Daniel | Using Object Segmentation to Analyze Nutrient Content of Meals | H13 | Eng & Comp Sci | Abbey Park High School | HDSB | | | | |

Senior Level

| | SENIOR PRO | DJECT | S (11/12 |) | |
|----------------------------------|--|-------------------|-----------------------------|-------------------------------------|--------|
| Name | Project Title | Project Number | Division | School | Board |
| Anderson, Maya | Pandemic School Closures: Was it really worth it? | E02 | Health Sciences Human | Hillfield Strathallan College | IND |
| Badawy, Omar | Future Metropolis: Reimagining urban Transportation | K08 | Eng & Comp Sci | Abbey Park High School | HDSB |
| 8 Balakumar, Subakrish | A.L.T.R. 'Altering society, one litter at a time' | P01 | Eng & Comp Sci | Aldershot High School | HDSB |
| 8 Barbera, Katie | Sustainable Solutions: Exploring Enzyme-Infused Bioplastics for Environmental Impact Reduction | M02 | Eng & Comp Sci | Cathedral High School | HWCDSB |



| | SENIOR PRO | DJECT | S (11/12 | 2) | |
|-------------------------------------|--|-------------------|-----------------------------|--------------------------------------|-------|
| Name | Project Title | Project Number | Division | School | Board |
| 8 Blimkie, Kieran | Orebot Mk 1 | N16 | Eng & Comp Sci | Notre Dame Secondary School | HCDSB |
| Bountas, Kaitlin | Fight-Or-Flight | D16 | Health Sciences Human | Blyth Academy | IND |
| 8 Bourenane, Yassine | The Effects of Cyanobacteria on Root Growth of Allium Cepa | A03 | Life Sciences Non-Human | Ancaster High | HWDSB |
| Chen, Cici | Hemp: A Healthier Alternative to Disease- causing NPEOs in Modern Textiles | C08 | Phys & Math Sci | Oakville Trafalgar High School | HDSB |
| 6 Elraheb, Joy | Zinc Absorption by Plants: A Phytoremediation Approach | L18 | Earth & Env Sci | King's Christian Collegiate | IND |
| 🎖 Feng, Aileen | Systematic Review on The Potential of CircRNA as a Novel Biomarker For Pancreatic Cancer Diagnosis | D12 | Health Sciences Human | Oakville Trafalgar High School | HDSB |
| 🎖 Feng, Melin | Systematic Review on The Potential of CircRNA as a Novel Biomarker For Pancreatic Cancer Diagnosis | D12 | Health Sciences Human | Oakville Trafalgar High School | HDSB |
| Fergani, Sarah | Pandemic School Closures: Was it really worth it? | E02 | Health Sciences Human | Hillfield Strathallan College | IND |
| 6 Frolic-Smart, Artemisia | Effect of a seed's period of dormancy on the length of a radicle formed during germination | M13 | Life Sciences Non-Human | Westdale Secondary School | HWDSB |
| 6 Gendy, Marly | Investigating Potential Cure for Cystic Fibrosis Using Innovative Solutions | B17 | Health Sciences Human | King's Christian Collegiate | IND |
| 🎖 Hua, Nathan | Ethical Delusion on Morality and its Real World Impacts | B06 | Health Sciences Human | Aldershot High School | HDSB |
| 3 Jackson, Claire | Comparison of proteins in the Homo sapiens and Pan troglodyte's genome | A09 | Life Sciences Non-Human | Westdale Secondary School | HWDSB |



| | SENIOR PR | OJECT | S (11/12 | 2) | |
|--------------------------------------|--|-------------------|-----------------------------|---------------------------------------|---------|
| Name | Project Title | Project Number | Division | School | Board |
| Name | Accurately Forecasting a | Number | — DIVISIOII | <u> </u> | — Board |
| 🎖 Jarabana, Srihith | Dementia Diagnosis Using Protein Biomarkers and Quantum Machine Learning | B13 | Health Sciences Human | Abbey Park High School | HDSB |
| o Johnson, Katelyn | The Effects of Sodium Chloride on the Reproduction of Lemna Minor: A Model for Road Salt Run-Off | A08 | Earth & Env Sci | Westdale Secondary School | HWDSB |
| 🎖 Khan, Mohid | Harnessing the power of Peizoelectricity for Sustainable Energy | J11 | Eng & Comp Sci | Assumption College School | BHNCDSB |
| & LeBlanc, Maya | Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE | N03 | Health Sciences Human | Abbey Park High School | HDSB |
| & Lepischak, Katherine | Going South | A07 | Life Sciences Non-Human | Westdale Secondary School | HWDSB |
| % Makkar, Akshin | Weed-Watch: an Innovative Al-Based Ground Weed Detection System for Agricultural Practices | H12 | Eng & Comp Sci | King's Christian Collegiate | IND |
| 8 Maric, Luca | HHO Generator Efficiency: Optimizing conditions to maximize HHO gas | K05 | Eng & Comp Sci | King's Christian Collegiate | IND |
| Mitchell, Kiera | Modelling Spread and Infection Risk for COVID-19 in Hallway Scenarios | F09 | Phys & Math Sci | Delhi District Secondary School | GEDSB |
| 🎖 Nagasaki, Kibo | Bye-Bye Haber-Bosch | N10 | Phys & Math Sci | Mentor College | IND |
| 🎖 Nasr, Zeyad | Modelling the Trajectory of an Airborne Object Using Computer Simulation. Application for Basketball | N14 | Eng & Comp Sci | Dundas Valley Secondary School | HWDSB |
| ♂ O'Dell, Oscar | Snake versus Slime: Who can build the better network? | A19 | Life Sciences Non-Human | King's Christian Collegiate | IND |



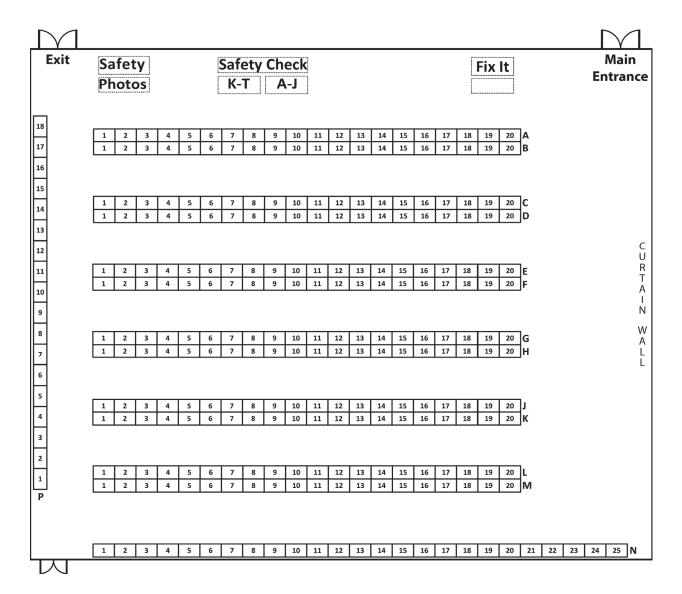
| | SENIOR PR | OJECT | S (11/12 | 2) | |
|-------------------------------------|---|---------|--------------------|--|---------|
| Nama | Duning st Title | Project | Division | Cabasal | Doord |
| Name | Project Title Negative Effects of Energy | Number | Division Health | School King's | Board |
| Olejniczak, Jacob | Drinks and Minimizing Them | C17 | Sciences Human | Christian Collegiate | IND |
| o Ouwendyk, Brodi | Stopping Potentially Hazardous Objects in Space with High-Velocity Spacecraft | F11 | Phys & Math Sci | Delhi District Secondary School | GEDSB |
| 8 Patial, Navraj | Harnessing the power of Peizoelectricity for Sustainable Energy | J11 | Eng & Comp Sci | Assumption College School | BHNCDSB |
| 8 Ponnambalam, Kadhir | An Innovative Method to Prevent Food Wastage Using an AI Based Multiple Linear Regression Model | J09 | Eng & Comp Sci | Hillfield Strathallan College | IND |
| & Quadry, Zoha Fatima | Using Luciferase to detect toxins that affect oxygen levels in the environment | A16 | Biotech | Abbey Park High School | HDSB |
| Raguz, Mark Anthony | Flying Car Proof of Concept: A Revolution In Future Land and Air Travel | N22 | Eng & Comp Sci | Holy Trinity Secondary School | HCDSB |
| 8 Rajkumar, Sahith | Herbal Heroes: Unveiling the Antibacterial Potential of Ayurvedic Medications Against Staphylococcus | E15 | Biotech | Hillfield Strathallan College | IND |
| 8 Rathod, Anish | Integrating A CNN With An Autonomous Drone To Facilitate Visible Water Pollution Monitoring | P10 | Eng & Comp Sci | Burlington Central High School | HDSB |
| Shaikh, Ali | AI in disaster and management | J04 | Eng & Comp Sci | Appleby College | IND |
| Simmons , Cordelia | Hydroplaning Detection and Prevention Using an Al Neural Network | P17 | Eng & Comp Sci | North Park Collegiate and Vocational School | GEDSB |
| S Song, Bohmie | Removing Pollution feat. Bacopa monnieri | M19 | Earth & Env Sci | Westdale Secondary School | HWDSB |
| 🎖 Song, Lily | Talk to the Hand | P16 | Eng & Comp Sci | North Park Collegiate and Vocational School | GEDSB |
| Sun, Anna | Testing and Comparing The Toxicity of Different Brands of Hair Dye | F01 | Phys & Math Sci | King's Christian Collegiate | IND |



| | SENIOR PR | OJECT | S (11/12 | 2) | |
|----------------------------|---|-------------------|-----------------------------|--------------------------------------|--------|
| Name | Project Title | Project Number | Division | School | Board |
| Suresh, Nitish | Ethical Delusion on Morality and its Real World Impacts | B06 | Health Sciences Human | Aldershot High School | HDSB |
| Szymala, Weronika | The Artificial Pancreas | D15 | Biotech | Bishop Ryan Secondary School | HWCDSB |
| T eng, Carmen | Advancing Astrophysical Insight: Multi-Survey Data Integration for Redshift Accuracy and Large-Scale | G07 | Phys & Math Sci | White Oaks Secondary School | HDSB |
| 🎖 Wahban, Alia | Redefining the Landscape of Hydrogen Safety using Innovative Gasochromic Technology | P03 | Eng & Comp Sci | Hillfield Strathallan College | IND |
| ४ Wang, Season | Plants Vs. Zombies: The Extraction of Fisetin from Different Forms of Strawberries | A18 | Life Sciences Non-Human | Oakville Trafalgar High School | HDSB |
| 🎖 Xu, William | Accessible microscopy! A cellphone microscope for high-resolution, large FOV, and high-speed imaging | P13 | Eng & Comp Sci | Dundas Valley Secondary School | HWDSB |
| 🎖 Yin, Brian | Plant Trait Identification Using Convolutional Neural Networks | M15 | Eng & Comp Sci | Iroquois Ridge High School | HDSB |
| č Zhang, Shangyi | A Two-Modal Robot for Adaptability in Diverse Environments With Rolling Locomotion and Walking Gait | J13 | Eng & Comp Sci | White Oaks Secondary School | HDSB |
| Zhao, Wendy | Hemp: A Healthier Alternative to Disease- causing NPEOs in Modern Textiles | C08 | Phys & Math Sci | Oakville Trafalgar High School | HDSB |



Project Floor Layout





BASEF 2024 Award Winners

BASEF Pinnacle Awards

BASEF's Pinnacle Awards are presented to each of the top three projects in the fair. These awards are based on the project's Merit Award score. Each winner receives an engraved plaque; trophies are awarded to the winner's schools.

Primary Fluid Systems Pinnacle Best in Fair



Maya LeBlanc

N03 Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE

Senior 11/12, Health Sciences Human

Abbey Park High School, Halton District School Board

Primary Fluid Systems Pinnacle Second Best in Fair



Anthony Efthimiadis

P11 Instant Skin Cancer Diagnosis: AI Hybrid Neural Networks with Precise Evolution Tracking

Intermediate 9/10, Eng & Comp Sci

Oakville Trafalgar High School, Halton District School Board

Primary Fluid Systems Pinnacle Third Best in Fair



Alia Wahban

P03 Redefining the Landscape of Hydrogen Safety using Innovative Gasochromic Technology

Senior 11/12, Eng & Comp Sci

Hillfield Strathallan College



Regeneron International Science and Engineering Fair

As an affiliated fair, BASEF can select high school projects to represent our region at the Regeneron International Science and Engineering Fair. This year, the Regeneron ISEF Fair will be held in Los Angeles, California from May 11th–17th, 2024. Congratulations to the BASEF Regeneron ISEF Team.

| Name | Project Number | Project Title | School | Board |
|-------------------------|-------------------|---|--|-------|
| Efthimiadis, Anthony | P11 | Instant Skin Cancer Diagnosis: AI Hybrid Neural Networks with Precise Evolution Tracking | Abbey Park High School | HDSB |
| LeBlanc, Maya | N03 | Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE | Abbey Park High School | HDSB |
| Song, Lily | P16 | Talk to the Hand | North Park Collegiate and Vocational School | GEDSB |
| Wahban, Alia | P03 | Redefining the Landscape of Hydrogen Safety using Innovative Gasochromic Technology | Hillfield Strathallan College | IND |
| Xu, William | P13 | Accessible microscopy! A cellphone microscope for high-resolution, large FOV, and high-speed imaging | Dundas Valley Secondary School | HWDSB |

Canada-Wide Science and Engineering Fair

Thanks to generous support of its general sponsors, each year BASEF selects students to represent our region at the Canada-Wide Science and Engineering Fair (CWSF). This year, the CWSF will be held in Ottawa, Ontario from May 25th–June 1st. Congratulations to the following students who represent BASEF at the CWSF.

| Name | Project Number | Project Title | School | Board |
|---------------------------|-------------------|--|---|-------|
| - Allarakhia, Imran | P18 | LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices | W. H. Morden Public School | HDSB |
| Alsaadi, Bahaa Al Deen | J12 | Bits to Bedside: An Ingenious Exploration of Machine Learning in Triage Assessments | Al-Falah Islamic School | IND |
| Alsaadi, Zena | J12 | Bits to Bedside: An Ingenious Exploration of Machine Learning in Triage Assessments | Al-Falah Islamic School | IND |
| Budz, Evan | N23 | Virtual Lifeguard: A Novel AI Approach to Drowning Prevention | Charles R. Beaudoin Public School | HDSB |



| Name | Project Number | Project Title | School | Board |
|-----------------------|-------------------|---|--|-------|
| Gendy, Marly | B17 | Investigating Potential Cure for Cystic Fibrosis Using Innovative Solutions | King's Christian Collegiate | IND |
| LeBlanc, Maya | N03 | Analysis of CD16+, CD16- and CD4+ T Cells to Identify Novel Gene Signatures and Diagnostics for SLE | Abbey Park High School | HDSB |
| Li, Yuewen | E05 | Improving PDAC Prognosis: Novel Approach Utilising CRISPR-Mediated Gene Knockout for TME Disruption | W. H. Morden Public School | HDSB |
| Nagasaki, Kibo | N10 | | Mentor College | IND |
| Naidu, Mithru | P18 | LiquiViz: Adaptive AI for 3D Object Detection and Semantic Segmentation in Vision Impairment Devices | W. H. Morden Public School | HDSB |
| O'Dell, Oscar | A19 | Snake versus Slime: Who can build the better network? | King's Christian Collegiate | IND |
| Pacifici, Nicholas | H08 | The PrepStep: A Mobile Health Platform to Detect Ventricular Cardiomyopathy in Athletes Using Al | St. Mary Secondary School | HWCD |
| Qazi, Daniyal | P08 | From Pixels to Predictions: A Deep Learning Method to Detect Pneumonia in Chest X-Ray Images | W. H. Morden Public School | HDSB |
| Qazi, Zayn | P08 | From Pixels to Predictions: A Deep Learning Method to Detect Pneumonia in Chest X-Ray Images | W. H. Morden Public School | HDSB |
| Saravanan, Rakshan | E07 | The electrocorpulgraph: Can Al change auscultation? | Ancaster High | HWDSB |
| Simmons, Cordelia | P17 | Hydroplaning Detection and Prevention Using an Al Neural Network | North Park Collegiate and Vocational School | GEDSB |
| Tan, Siqi | E05 | Improving PDAC Prognosis: Novel Approach Utilising CRISPR-Mediated Gene Knockout for TME Disruption | W. H. Morden Public School | HDSB |
| Zhang, Shangyi | J13 | A Two-Modal Robot for Adaptability in Diverse Environments With Rolling Locomotion and Walking Gait | White Oaks Secondary School | HDSB |



School Awards

BASEF Committee Trophy

This trophy is awarded to the elementary school accumulating the most points.

Herb Gildea Memorial Trophy

This trophy is awarded to the secondary school accumulating the most points.

White Oaks Secondary School (HDSB)





Merit & Special Award Winners

| Name | Project Number | - Award(s) | School | Board |
|---------------------------|-------------------|--|--|-------|
| Abou-Assaleh, Emmalina | K06 | BASEF Inspiration Student Award; Merit Awards – Silver; Nikola Tesla Innovation Awards – Bronze | W. H. Morden Public School | HDSB |
| Abu Dagga, Obaida | G03 | Electrical Contractors Association of Niagara Hamilton Awards; Nikola Tesla Innovation Awards – Gold | Ancaster Meadow | HWDSB |
| Akwiwu, Zina | E01 | Merit Awards – Bronze | St. Thomas the Apostle (Waterdown) | HWCD |
| Alagukumaran, Diya | K03 | Merit Awards – Bronze | Munn's Public School | HDSB |
| Alden, Calla | A11 | Merit Awards – Bronze | Ancaster Meadow | HWDSB |
| Allarakhia, Imran | P18 | Canada-Wide Science Fair Trip Award; Roy Middleton Memorial Award; Hamilton Association for the Advancement of Literature, Science & Art da Vinci Award; Hillfield Strathallan College Entrance Scholarship; Merit Awards – Gold; Mohawk College Electrical Engineering Technology Awards – Energy Systems Award | W. H. Morden Public School | HDSB |
| Alper, Ege | K11 | ArcelorMittal Dofasco Awards – Global R&D Hamilton Award for Technology Application | John William Boich Public School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|---------------------------|-------------------|--|---|-------|
| Alsaadi, Bahaa Al Deen | J12 | Canada-Wide Science Fair Trip Award; Merit Awards – Gold; Ola Lunyk-Child Memorial Health Science Award – Third | Al-Falah Islamic School | IND |
| Alsaadi, Zena | J12 | Canada-Wide Science Fair Trip Award; Merit Awards – Gold; Ola Lunyk-Child Memorial Health Science Award – Third | Al-Falah Islamic School | IND |
| Anand, Ananya | K02 | Merit Awards – Bronze | Hawthorne Village Public School | HDSB |
| Arora, Rishibha | M07 | ArcelorMittal Dofasco Awards – Pickling and Cold Rolling Award; Mohawk College Building & Construction Sciences Awards – Civil Engineering Award | John William Boich Public School | HDSB |
| Arun, Mrittika | K19 | Merit Awards – Bronze | John William Boich Public School | HDSB |
| Badarala, Lohitaksh | J06 | Merit Awards – Bronze | Bruce Trail Public School | HDSB |
| Balakumar, Subakrish | P01 | BASEF Inspiration Student Award; Merit Awards – Silver | Aldershot High School | HDSB |
| Banerjee, Nina | J02 | Doris Casey and Gwen Nicolls Disability Solutions Awards | John William Boich Public School | HDSB |
| Barbera, Katie | M02 | BASEF Inspiration Student Award; Merit Awards – Silver | Cathedral High School | HWCD |
| Barkman, Tristan | L11 | McMaster University School of Earth, Environment and Society – Earth and Environmental Sciences Award; Merit Awards – Bronze | Home Schooling | IND |
| Beecroft, Grayson | H01 | Merit Awards – Bronze | Rolling Meadows Public School | HDSB |
| Belwalkar, Smira | J02 | Doris Casey and Gwen Nicolls Disability Solutions Awards | John William Boich Public School | HDSB |
| Berger, Emily | A10 | Farncombe Family Digestive Health Research Awards; Merit Awards – Bronze | Charles R. Beaudoin Public School | HDSB |
| Betty, Hailey | L04 | Merit Awards – Bronze; Rotary Club of Hamilton Stoney Creek Awards – First Place | Cathy Wever | HWDSB |
| Bharj, Harnarain | J01 | ArcelorMittal Dofasco Awards – Engineering Award | Rolling Meadows Public School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|-------------------------|-------------------|--|---|-------|
| Bhatti, Sofia | C19 | Merit Awards – Bronze | Al-Falah Islamic School | IND |
| Blimkie, Kieran | N16 | ArcelorMittal Dofasco Awards – Material Handling & Logistics Department Award; Canadian Institute of Mining, Metallurgy and Petroleum (Hamilton Branch) Awards; Merit Awards – Silver | Notre Dame Secondary School | HCDSB |
| Bourenane, Yassine | A03 | BASEF Inspiration Student Award; Merit Awards – Silver | Ancaster High | HWDSB |
| Budz, Evan | N23 | Canada-Wide Science Fair Trip Award; Gowling WLG Innovation Awards – Runner-Up; Merit Awards – Silver; Ola Lunyk-Child Memorial Health Science Award – Second | Charles R. Beaudoin Public School | HDSB |
| Burgess, Charlotte | D18 | Merit Awards – Bronze | W. H. Morden Public School | HDSB |
| Cani, Vlera | D18 | Merit Awards – Bronze | W. H. Morden Public School | HDSB |
| Castelli, Clare | A06 | Merit Awards – Bronze | St. Augustine | HWCD |
| Castelli, Simon | A06 | Merit Awards – Bronze | St. Augustine | HWCD |
| Chan Carusone, Senna | P15 | Dr. Nicola Simmons Award in Cognition Studies; Merit Awards – Silver | Burlington Central High School | HDSB |
| Chaudhry, Umar | F05 | Canadian Nuclear Society (Golden Horseshoe Branch) Awards; Merit Awards – Bronze | Al-Falah Islamic School | IND |
| Chawla, Karthik | N15 | Merit Awards – Silver | W. H. Morden Public School | HDSB |
| Chen, Nina | M07 | ArcelorMittal Dofasco Awards – Pickling and Cold Rolling Award; Mohawk College Building & Construction Sciences Awards – Civil Engineering Award | John William Boich Public School | HDSB |
| Danda, Sahil | N08 | Chemical Institute of Canada – Hamilton Section Awards; Harrison Family Chemistry Award; Merit Awards – Silver | W. H. Morden Public School | HDSB |
| De Souza, Arya | A05 | BASEF Inspiration Student Award; Merit Awards – Silver | W. H. Morden Public School | HDSB |
| Dear, Leah | P04 | Mohawk College Computer Science & Information Technology Excellence Awards | Rolling Meadows Public School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|-------------------------|-------------------|--|--|-------|
| Di Nicola, Gabriel | C14 | ArcelorMittal Dofasco Awards – Global R&D Hamilton Award for Outstanding Research; Hamilton Wentworth Occasional Teacher Awards – Healthy Lifestyles Award; Merit Awards – Bronze; Rotary Club of Hamilton Stoney Creek Awards – Third Place | Our Lady of Peace | HWCD |
| Dong, Heather | J19 | Merit Awards – Bronze | W. H. Morden Public School | HDSB |
| Dua, Shambhvi | B14 | BASEF Inspiration Student Award; Doris Casey and Gwen Nicolls Disability Solutions Awards; Merit Awards – Silver | White Oaks Secondary School | HDSB |
| Durowoju, Hannah | P14 | Merit Awards – Bronze | Our Lady of Victory Elementary School | HCDSB |
| Efthimiadis, Anthony | P11 | ArcelorMittal Dofasco Awards – Information Systems Award; Farncombe Family Digestive Health Research Awards – Grand Award; Primary Fluid Systems Pinnacle Second Best in Fair; Hamilton Academy of Dentistry Awards – First Place; International Science & Engineering Affiliated Fair Awards – U.S. Agency for International Development (USAID); ISEF Trip Award; Merit Awards – Gold; Ola Lunyk-Child Memorial Health Science Award – First | Oakville Trafalgar High School | HDSB |
| Elraheb, Joy | L18 | Dillon Consulting Awards – Biological Sciences Award; Merit Awards – Bronze | King's Christian Collegiate | IND |
| Faisal, Abiha | D11 | Merit Awards – Bronze | Rattlesnake Point Public School | HDSB |
| Farhan, Anaum | L15 | ArcelorMittal Dofasco Awards – Environment Award; Canadian Institute of Mining, Metallurgy and Petroleum (Hamilton Branch) Awards; Merit Awards – Bronze | Rattlesnake Point Public School | HDSB |
| Fayyaz, Alishba | L15 | ArcelorMittal Dofasco Awards – Environment Award; Canadian Institute of Mining, Metallurgy and Petroleum (Hamilton Branch) Awards; Merit Awards – Bronze | Rattlesnake Point Public School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|----------------------------|-------------------|---|--|-------|
| Feng, Aileen | D12 | Merit Awards – Silver | Oakville Trafalgar High School | HDSB |
| Feng, Melin | D12 | Merit Awards – Silver | Oakville Trafalgar High School | HDSB |
| Fernandes, Aaliyah | F17 | Merit Awards – Bronze | Oakville Christian School | IND |
| Forrest, Emma | K17 | Merit Awards – Bronze | Balaclava | HWDSB |
| Frolic-Smart, Artemisia | M13 | Dr. M. Doyle Award; Merit Awards – Silver | Westdale Secondary School | HWDSB |
| Gendy, Marly | B17 | Canada-Wide Science Fair Trip Award; Merit Awards – Silver | King's Christian Collegiate | IND |
| Gharbia, Aya | G17 | Merit Awards – Silver; Mohawk College Computer Science & Information Technology Excellence Awards | Al-Falah Islamic School | IND |
| Gilchrist, Jameson | L02 | Merit Awards – Bronze | St. Elizabeth Seton Elementary School | HCDSB |
| Gomber, Aarunya | H03 | Merit Awards – Bronze | W. H. Morden Public School | HDSB |
| Halim, Joshua | N11 | Merit Awards – Bronze | Oakville Christian School | IND |
| Hart, Nicholas | E04 | Merit Awards – Bronze | Charles R. Beaudoin Public School | HDSB |
| Horn, Ethan | M03 | Merit Awards – Silver; Mohawk College Computer Science & Information Technology Excellence Awards | Rolling Meadows Public School | HDSB |
| Hua, Nathan | B06 | Dr. Laura Blew Social Sciences Awards | Aldershot High School | HDSB |
| Huang, Michelle | L10 | Merit Awards – Bronze | Cathy Wever | HWDSB |
| Huang, Tiffany | L10 | Merit Awards – Bronze | Cathy Wever | HWDSB |
| Humphreys, Elliot | F06 | Merit Awards – Bronze | Oakville Christian School | IND |
| Jackson, Claire | A09 | Merit Awards – Silver | Westdale Secondary School | HWDSB |
| Jain, Tiara | M10 | Merit Awards – Bronze; Water Environment Association of Ontario Award | John William Boich Public School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|--------------------|-------------------|--|--|-------|
| Jarabana, Srihith | B13 | BASEF Inspiration Student Award; Merit Awards – Silver | Abbey Park High School | HDSB |
| Javidi, Glareen | A14 | Conservation Halton Awards | Munn's Public School | HDSB |
| Johnson, Katelyn | A08 | Merit Awards – Bronze; University of Ottawa Admission Scholarship | Westdale Secondary School | HWDSB |
| Johnson, William | L14 | International Science & Engineering Affiliated Fair Awards – Ricoh USA, Inc.; Merit Awards – Bronze | Westdale Secondary School | HWDSB |
| Jones, Darius | L02 | Merit Awards – Bronze | St. Elizabeth Seton Elementary School | HCDSB |
| Kaliga, Varnika | N02 | Merit Awards – Bronze | Sunningdale Public School | HDSB |
| Kar, Vivaan | F20 | ArcelorMittal Dofasco Awards – Hot Mill Award; Merit Awards – Silver | W. H. Morden Public School | HDSB |
| Khan, Mohid | J11 | BASEF Inspiration Student Award; Merit Awards – Bronze | Assumption College School | BHNCD |
| Khan, Wardah | D08 | Merit Awards – Bronze | Al-Falah Islamic School | IND |
| Kim, Nayune | G15 | Merit Awards – Bronze | Charles R. Beaudoin Public School | HDSB |
| Kinsella, Anabella | K07 | ArcelorMittal Dofasco Awards – Process Automation Award; Merit Awards – Bronze | St. Bernadette | HWCD |
| Kudale, Arnnav | P06 | Merit Awards – Bronze | White Oaks Secondary School | HDSB |
| Kulasic, Zaid | F07 | John W. Howard Materials Research Award; Mohawk College Building & Construction Sciences Awards – Building Sciences Award | Al-Falah Islamic School | IND |
| Lai, Brandon | F03 | Merit Awards – Bronze | Oakville Christian School | IND |
| LeBlanc, Jacob | P02 | Merit Awards – Silver; Mohawk College Electrical Engineering Technology Awards – Computer Engineering Technology Award | Abbey Park High School | HDSB |
| LeBlanc, Jordan | N24 | McMaster University MGD Institute for Infectious Disease Research Awards; Merit Awards – Bronze | St. Matthew Elementary School | HCDSB |



| Name | Project Number | Award(s) | School | Board |
|-------------------------|-------------------|---|--|-------|
| LeBlanc, Maya | N03 | Canada-Wide Science Fair Trip Award; Drs. Ranjan Sur and Monalisa Sur Award; Primary Fluid Systems Pinnacle Best in Fair; ISEF Trip Award; Merit Awards – Gold; Mohawk College Mathematics Awards – Senior Award; Sanofi Biogenius Canada Award | Abbey Park High School | HDSB |
| Lepischak, Katherine | A07 | Merit Awards – Silver | Westdale Secondary School | HWDSB |
| Li, Yuewen | E05 | Canada-Wide Science Fair Trip Award; Merit Awards – Gold | W. H. Morden Public School | HDSB |
| Liaghati, Lily | A04 | Merit Awards – Bronze | Munn's Public School | HDSB |
| Liu, Katelynn | G15 | Merit Awards – Bronze | Charles R. Beaudoin Public School | HDSB |
| Lopes, Isabella | F02 | Merit Awards – Silver | Bishop Ryan Secondary School Oakville | HWCD |
| Lotfi, Andrew | E09 | Merit Awards – Bronze | Christian School | IND |
| Luo, Bonnie | P05 | Merit Awards – Silver; Talkit.ca Computer Engineering Awards – First Place | White Oaks Secondary School | HDSB |
| Makkar, Akshin | H12 | McMaster University Faculty of Engineering Entrance Awards | King's Christian Collegiate | IND |
| Maric, Luca | K05 | Canadian Nuclear Society (Golden Horseshoe Branch) Awards; Chemical Institute of Canada – Hamilton Section Awards | King's Christian Collegiate | IND |
| Marrazzo, Lauren | B12 | Merit Awards – Bronze; Rotary Club of Hamilton Stoney Creek Awards – Second Place | St. Clare of Assisi | HWCD |
| Marsh, Claire | B03 | Farncombe Family Digestive Health Research Awards; Mahut-Brent Award for Young People in Science and Engineering; Merit Awards – Bronze | M. M. Robinson High School | HDSB |
| Mawji, Ayaan | K11 | ArcelorMittal Dofasco Awards – Global R&D Hamilton Award for Technology Application | John William Boich Public School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|---------------------------|-------------------|--|---|-------|
| McKerracher, Gavin | K01 | Electrical Contractors Association of Niagara Hamilton Awards – Electrical Contractors Association of Niagara Hamilton Award; Merit Awards – Bronze | Rolling Meadows Public School | HDSB |
| Mehfil, Fiza | N20 | Hamilton Amateur Astronomers James A. Winger Award – Junior; Merit Awards – Silver | Milton District High School | HDSB |
| Mehr, Ariana | N07 | Merit Awards – Bronze | Bishop P. F. Reding Secondary School | HCDSB |
| Mejia Perfiliev, Sofia | A10 | Farncombe Family Digestive Health Research Awards; Merit Awards – Bronze | Charles R. Beaudoin Public School | HDSB |
| Merchant, Sahana | K06 | BASEF Inspiration Student Award; Merit Awards – Silver; Nikola Tesla Innovation Awards – Bronze | W. H. Morden Public School | HDSB |
| Mitchell, Kiera | F09 | Firestone Institute Respiratory Health Award; Merit Awards – Bronze | Delhi District Secondary School | GEDSB |
| Mithun, Joshua | K07 | ArcelorMittal Dofasco Awards – Process Automation Award; Merit Awards – Bronze | St. Bernadette | HWCD |
| Morales, Alena | B16 | Venture Academy at McMaster University Awards | Rolling Meadows Public School | HDSB |
| Mousa, Rayan | G10 | Association for Iron & Steel Technology Northern Chapter Awards – Third Place; Society of Tribologists & Lubrication Engineers – Hamilton Section Awards | Al-Falah Islamic School | IND |
| Muthukumarana, Dithira | L13 | Canadian Nuclear Society (Golden Horseshoe Branch) Awards; Mohawk College Building & Construction Sciences Awards – Transportation Award; Nelson Steel Awards | St. Matthew | HWCD |
| Nagasaki, Kibo | N10 | Canada-Wide Science Fair Trip Award; Chemical Institute of Canada – Hamilton Section Awards; Gowling WLG Innovation Award – Honourable Mention; McMaster University Department of Chemistry and Chemical Biology Award; Merit Awards – Gold | Mentor College | IND |



| Name | Project Number | Award(s) | School | Board |
|----------------------|-------------------|--|---------------------------------------|-------|
| Naidu, Mithru | P18 | Canada-Wide Science Fair Trip Award; Roy Middleton Memorial Award; Hamilton Association for the Advancement of Literature, Science & Art da Vinci Award; Hillfield Strathallan College Entrance Scholarship Award; Merit Awards – Gold; Mohawk College Electrical Engineering Technology Awards – Energy Systems Award | W. H. Morden Public School | HDSB |
| Nair, Arshia | B02 | Merit Awards – Bronze | Tiger Jeet Singh Public School | HDSB |
| Nasr, Zeyad | N14 | Merit Awards – Silver | Dundas Valley Secondary School | HWDSB |
| Nastase, Sami | H10 | BASEF Inspiration Student Award; Merit Awards – Silver | W. H. Morden Public School | HDSB |
| Ndibmun, Hanniel | G04 | Artistically Inspired Display Awards | Cathy Wever | HWDSB |
| O'Dell, Oscar | A19 | Bay Area Health Trust Scholarship / Paul Lakin Life Sciences Award; Canada-Wide Science Fair Trip Award; Merit Awards – Gold | King's Christian Collegiate | IND |
| Olejniczak, Jacob | C17 | McMaster University Faculty of Engineering Entrance Awards; Merit Awards – Bronze | King's Christian Collegiate | IND |
| Orphanos, Rachael | A20 | Hamilton Wentworth Occasional Teacher Awards – Presentation & Aesthetics Award | Hawthorne Village Public School | HDSB |
| Ouwendyk, Brodi | F11 | Hamilton Amateur Astronomers James A. Winger Award– Senior | Delhi District Secondary School | GEDSB |
| Pacifici, Nicholas | H08 | Canada-Wide Science Fair Trip Award; IEEE (Institute of Electrical and Electronic Engineers) Hamilton Section Awards; Merit Awards – Gold | St. Mary Secondary School | HWCD |
| Parachin, Maya | K16 | ArcelorMittal Dofasco Awards – Product Development Business Process Award | Oakville Christian School | IND |
| Park, Jieun | B11 | Dr. Laura Blew Social Sciences Awards; International Science & Engineering Affiliated Fair Awards – American Psychological Association; Merit Awards – Bronze | Bishop Tonnos Secondary School | HWCD |
| Patel, Nevin | E09 | Merit Awards – Bronze | Oakville Christian School | IND |



| Name | Project Number | Award(s) | School | Board |
|--------------------------|-------------------|--|-------------------------------------|-------|
| Patial, Navraj | J11 | BASEF Inspiration Student Award; Merit Awards – Bronze | Assumption College School | BHNCD |
| Peart, Evelyn | J10 | Merit Awards – Bronze; Nelson Steel Awards | Tiger Jeet Singh Public School | HDSB |
| Perlawar, Prathamesh | E10 | Merit Awards – Bronze | White Oaks Secondary School | HDSB |
| Piccoli, Luca | C14 | ArcelorMittal Dofasco Awards – Global R&D Hamilton Award for Outstanding Research; Hamilton Wentworth Occasional Teacher Awards – Healthy Lifestyles Award; Merit Awards – Bronze; Rotary Club of Hamilton Stoney Creek Awards – Third Place | Our Lady of Peace | HWCD |
| Polyanska, Maria | H15 | BASEF Inspiration Student Award; Merit Awards – Silver | Forest Trail Public School | HDSB |
| Ponnambalam, Kadhir | J09 | Merit Awards – Silver | Hillfield Strathallan College | IND |
| Ponnambalam, Karthik | N09 | Merit Awards – Bronze | Hillfield Strathallan College | IND |
| Powell, Luke | N21 | ArcelorMittal Dofasco Awards – Human Resources Training & Development Award; Merit Awards – Bronze | Aldershot High School | HDSB |
| Prias, Mariana | K09 | Merit Awards – Bronze | Highview | HWDSB |
| Prokipczuk, Katherine | M14 | Hamilton Wentworth Occasional Teacher Awards – Environment & Education Award | Ancaster Meadow | HWDSB |
| Qazi, Daniyal | P08 | ArcelorMittal Dofasco Awards – Ironmaking Award; Canada-Wide Science Fair Trip Award; Merit Awards – Gold | W. H. Morden Public School | HDSB |
| Qazi, Zayn | P08 | ArcelorMittal Dofasco Awards – Ironmaking Award; Canada-Wide Science Fair Trip Award; Merit Awards – Gold | W. H. Morden Public School | HDSB |
| Qin, Yuyang | G06 | Merit Awards – Bronze | Hillfield Strathallan College | IND |
| Quadry, Zoha Fatima | A16 | Chairs' Awards | Abbey Park High School | HDSB |
| Qureshi, Ana | N12 | Merit Awards – Bronze | Al-Falah Islamic School | IND |



| Name | Project Number | Award(s) | School | Board |
|-----------------------|-------------------|---|---|-------|
| Rajkumar, Raahith | E14 | Canadian Nuclear Society (Golden Horseshoe Branch) Awards; Merit Awards – Silver; Society of Tribologists & Lubrication Engineers – Hamilton Section Awards | Hillfield Strathallan College | IND |
| Rajkumar, Sahith | E15 | BASEF Inspiration Student Award; Merit Awards – Silver | Hillfield Strathallan College | IND |
| Rao, Rahul | F20 | ArcelorMittal Dofasco Awards – Hot Mill Award; Merit Awards – Silver | W. H. Morden Public School | HDSB |
| Rashid, Nabira | F13 | Merit Awards – Bronze | White Oaks Secondary School | HDSB |
| Rastogi, Maithili | F13 | Merit Awards – Bronze | White Oaks Secondary School | HDSB |
| Rathod, Anish | P10 | Dillon Consulting Awards – Science and Engineering Award; Laurentian Chapter of SETAC Awards; Merit Awards – Bronze | Burlington Central High School | HDSB |
| Rechan, Anika C | N02 | Merit Awards – Bronze | Sunningdale Public School | HDSB |
| Rosien, Sophia | H07 | Merit Awards – Bronze | Rolling Meadows Public School | HDSB |
| Saeed, Ahmed | G03 | Electrical Contractors Association of Niagara Hamilton Awards; Nikola Tesla Innovation Awards – Gold | Ancaster Meadow | HWDSB |
| Salman, Sameeha | F12 | Artistically Inspired Display Awards | Al-Falah Islamic School | IND |
| Saravanan, Rakshan | E07 | Canada-Wide Science Fair Trip Award; Merit Awards – Gold | Ancaster High | HWDSB |
| Schubert, Kayla | B16 | Venture Academy at McMaster University Awards | Rolling Meadows Public School | HDSB |
| Sels, Bridgette | H07 | Merit Awards – Bronze | Rolling Meadows Public School | HDSB |
| Shaiju, Julian | N07 | Merit Awards – Bronze | Bishop P. F. Reding Secondary School | HCDSB |
| Sharma, Avaya | B10 | New Health Scientist Award | Oakville Christian School | IND |



| Name | Project Number | Award(s) | School | Board |
|----------------------|-------------------|---|--|-------|
| Sheel, Vedant | N26 | ArcelorMittal Dofasco Awards – Steelmaking Award; Gowling WLG Innovation Grand Award; Hillfield Strathallan College Awards of Excellence – Scientific Process Award; Merit Awards – Bronze | Waterdown District Secondary School | HWDSB |
| Siddicky, Sarim | E18 | Merit Awards – Bronze | W. H. Morden Public School | HDSB |
| Simmons, Cordelia | P17 | Canada-Wide Science Fair Trip Award; Merit Awards – Silver; Mohawk College Electrical Engineering Technology Awards – Electrical Engineering Award | North Park Collegiate and Vocational School | GEDSB |
| Small, Owen | K17 | Merit Awards – Bronze | Balaclava | HWDSB |
| Smith, Jared | L13 | Canadian Nuclear Society (Golden Horseshoe Branch) Awards; Mohawk College Building & Construction Sciences Awards – Transportation Award; Nelson Steel Awards | St. Matthew | HWCD |
| Song, Bohmie | M19 | Conservation Halton Awards; Environmental Inspiration Award; Merit Awards – Silver | Westdale Secondary School | HWDSB |
| Song, Lily | P16 | ArcelorMittal Dofasco Awards – Commercial Department Award; ISEF Trip Award; McMaster University Faculty of Engineering Entrance Awards; Merit Awards – Gold | North Park Collegiate and Vocational School | GEDSB |
| Sowdagar, Hiba | B07 | Hamilton Academy of Dentistry Awards – Third Place | Ancaster Meadow | HWDSB |
| Srivastava, Daksh | L16 | Canadian Meteorological and Oceanographic Society (CMOS) Award – First; McMaster University School of Earth, Environment and Society – Geography Award | Pilgrim Wood Public School | HDSB |
| Stokes, Madelyn | A20 | Hamilton Wentworth Occasional Teacher Awards – Presentation & Aesthetics Award | Hawthorne Village Public School | HDSB |
| Su, Emma | A05 | BASEF Inspiration Student Award; Merit Awards – Silver | W. H. Morden Public School | HDSB |
| Su, Irene | A14 | Conservation Halton Awards | Munn's Public School | HDSB |
| Suresh, Nitish | B06 | Dr. Laura Blew Social Sciences Awards | Aldershot High School | HDSB |
| Szecsodi, Ben | H01 | Merit Awards – Bronze | Rolling Meadows Public School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|--|-------------------|--|--|-------|
| Szymala, Weronika | D15 | ArcelorMittal Dofasco Awards – Medical Department Award; Merit Awards – Bronze | Bishop Ryan Secondary School | HWCD |
| Tan, Siqi | E05 | Canada-Wide Science Fair Trip Award; Merit Awards – Gold | W. H. Morden Public School | HDSB |
| Tayal, Jaylan | N18 | BASEF Inspiration Student Award; Merit Awards – Silver | John William Boich Public School | HDSB |
| Teng, Carmen | G07 | Merit Awards – Bronze | White Oaks Secondary School | HDSB |
| Thomas, Will | J14 | Merit Awards – Silver; Talkit.ca Computer Engineering Awards – Second Place | St. Augustine | HWCD |
| Tripathi, Eva | E11 | Merit Awards – Bronze | Elsie Macgill Secondary School | HDSB |
| Truant, Kai | E19 | Dr. Colin J.L. Lock Memorial Chemistry Award; Merit Awards – Bronze | Ancaster High | HWDSB |
| Vargas- Saravanamuttu, Radha Maria | C01 | Merit Awards – Bronze | Hillfield Strathallan College | IND |
| Veljkovic, Filip | L20 | Canadian Meteorological and Oceanographic Society (CMOS) Award – Second; Merit Awards – Bronze | Corpus Christi Secondary School | HCDSB |
| Vidican, Jonathan | J15 | BASEF Inspiration Student Award; Merit Awards – Silver; Mohawk College Mathematics Awards – Junior Award; Nikola Tesla Innovation Awards – Silver | St. Mary Elementary School | HCDSB |
| Vignesh, Bhavishyaa | A02 | Merit Awards – Silver | Post's Corners Public School | HDSB |
| Wahban, Alia | P03 | ArcelorMittal Dofasco Awards – Chemical Testing Award; Association for Iron & Steel Technology Northern Chapter Awards – First Place; Grand Awards – Primary Fluid Systems Pinnacle Third Best in Fair; ISEF Trip Award; McMaster University Department of Chemical Engineering Award; Merit Awards – Gold | Hillfield Strathallan College | IND |
| Wang, Jiaqi | G06 | Merit Awards – Bronze | Hillfield Strathallan College | IND |
| Wang, Season | A18 | McMaster University MGD Institute for Infectious Disease Research Awards – Grand Award; Merit Awards – Bronze | Oakville Trafalgar High School | HDSB |



| Name | Project Number | Award(s) | School | Board |
|----------------|-------------------|--|--|-------|
| Warren, Tessa | F17 | Merit Awards – Bronze | Oakville Christian School | IND |
| Waseem, Zoha | K10 | Hamilton Academy of Dentistry Awards – Second Place; Procor Engineering Awards – Junior Award | Al-Falah Islamic School | IND |
| Waseem, Zoya | K20 | ArcelorMittal Dofasco Awards – Quality Systems Award; Hillfield Strathallan College Awards of Excellence – Life Sciences Award; McMaster University MGD Institute for Infectious Disease Research Awards; Merit Awards – Bronze | Al-Falah Islamic School | IND |
| Wu, Ruofei | N18 | BASEF Inspiration Student Award; Merit Awards – Silver | John William Boich Public School | HDSB |
| Xu, William | P13 | ArcelorMittal Dofasco Awards – Central Trades & Services Department Award; Association for Iron & Steel Technology Northern Chapter Awards – Second Place; Hillfield Strathallan College Awards of Excellence – Innovation Award; IEEE (Institute of Electrical and Electronic Engineers) Hamilton Section Awards; ISEF Trip Award; Merit Awards – Gold | Dundas Valley Secondary School | HWDSB |
| Yang, Zhuo | P07 | Merit Awards – Silver | W. H. Morden Public School | HDSB |
| Yin, Brian | M15 | Laurentian Chapter of SETAC Awards; Merit Awards – Silver; Royal Botanical Gardens Award | Iroquois Ridge High School | HDSB |
| Zhang, Cody | H13 | BASEF Inspiration Student Award; Merit Awards – Silver; Procor Engineering Awards – Intermediate Award | Abbey Park High School | HDSB |
| Zhang, Shangyi | J13 | Canada-Wide Science Fair Trip Award; International Science & Engineering Affiliated Fair Awards – Yale Science & Engineering Association; Mechanical Contractors Association Hamilton Niagara Award; Merit Awards – Gold; Procor Engineering Awards – Senior Award | White Oaks Secondary School | HDSB |
| Zhu, Daniel | H13 | BASEF Inspiration Student Award; Merit Awards – Silver; Procor Engineering Awards – Intermediate Award | Abbey Park High School | HDSB |



BASEF 2024 Champion Teacher Award

The Champion Teacher Award recognizes a STEM teacher who displays a remarkable ability to empower and excite student interest in science and actively promotes the Bay Area Science & Engineering Fair. The winner is selected by a panel of BASEF organizing committee members from among those nominated online by their peers, students, and their parents. The Award includes induction into the BASEF Champion Teacher Hall of Fame, a trophy, and \$500 for use in the winning teacher's classroom.

For the 2024 fair, we would like to recognize a teacher who fosters curiosity, provides support and encouragement, demonstrates enthusiasm towards learning, and provides each of her students with quality research skills in a rich, in-depth learning environment.



Allison Janssen – White Oaks Secondary School (Halton District School Board)

The nominator writes: "Mrs. Janssen's teaching style is very [kinesthetic] and experimental. Especially considering the IB physics program does not require or outline physical labs, her enthusiasm towards conceptual understanding through "physics toys" and thought experiments fosters curiosity in the class. She also provides lots of support and encouragement towards innovative experiments for the Internal Assessment (an IB-required physics report). Outside of the classroom, Mrs. Janssen has helped and encouraged my forays into electromagnetism, eventually culminating in a research project she recommended I submit at BASEF."

BASEF Inspiration Teacher Awards

BASEF Inspiration Teacher Awards are presented to teachers of schools which are new* to BASEF. The teacher must have two or more projects displayed and judged at the Fair. The award is to be used in the classroom at the winning teacher's discretion. *Schools without BASEF projects for at least 5 years

Cushing, Paul Holy Trinity Secondary School (HCDSB)

Kay, Gregory Rattlesnake Point Public School (HDSB)

Sawyer, Lenora Delhi District Secondary School (GEDSB)

Syed, Ijial Blyth Academy (IND)



Emergency Procedures

Hillfield Strathallan College

| In Case of Emergency: | > Dial 911 > Dial (905) 961-4977 for the Security Desk > Inform the nearest BASEF volunteer |
|------------------------------|--|
| Location: | 299 Fennell Ave West, Hamilton, ON, L9C 1G3 |
| Responder Directions: | Enter campus off Fennell Ave and follow signs to main entrance. A representative from BASEF will be waiting to direct EMS to the exact location. |
| Other Key HSC Phone Numbers: | College Main Line: (905) 389-1367 |

Mohawk College

| In Case of Emergency: | > Dial 55 on College phones > Dial 9-911 on College phone or 911 on Bell pay phones > Press the Emergency button on Bell pay phones > Press the button on emergency station intercom > Inform the nearest BASEF volunteer |
|--|---|
| Location | 135 Fennell Ave West, Hamilton, ON, L9C 0E5 |
| Responder Directions: | Contact College Security (Dial 55) who will handle directing first responders. |
| Other Key Mohawk College Phone Numbers: | Security Desk: 905-575-2003 OR (905)-575-2316 OR ext. 2003 |



Emergency Evacuation:

If you Smell Smoke:

• Call Campus Security immediately.

Upon Discovery of Fire (Flames):

- Leave fire area immediately and close doors behind you.
- Pull the nearest fire alarm.
- Evacuate the building via the nearest exit.
- Call Security or the appropriate emergency number.

Upon Activation of the Fire Alarm:

- Go to the nearest exit and leave the building.
- Close doors behind you.

Note:

- Do not use elevators or chair lifts.
- Use an alternative exit if you encounter smoke.
- If a person with a disability cannot be evacuated, assist them to a fire rated room such as an office or classroom that is away from smoke or fire, as close as possible to an exit. Preference should be given to rooms with two exits and a telephone or intercom.
- Notify Security and/or the Fire Department of their specific location.
- Do not re-enter the building until authorized by the Fire Department, Security, Staff, or Fire Wardens.

Emergency Lockdown:

Threat Inside the Building:

Upon hearing the voice message advising lockdown:

- Exit all common and open areas (including Library and cafeteria):
 - o Disperse... do not congregate in open areas.
 - Exit the building or go to a room or area where you feel safe to enter.
- If exit is not possible:
 - Enter or stay in a room or area where you feel safe.
 - o Close and secure doors if possible
 - o Turn out lights.
 - Cover windows and/or stay away from windows.
 - Silence cell phones/use text messaging only.
 - o Stay alert, quiet and out of sight.
 - Disregard fire alarm signal unless in immediate danger.
 - o Do not exit until "All Clear" signal is heard.

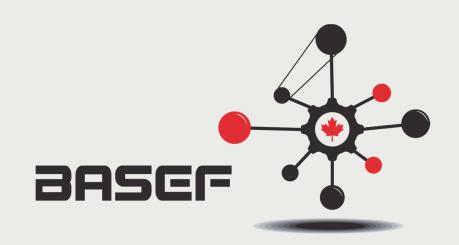
End of Lockdown:

 A recorded announcement of an "all clear" signal will be given to indicate the end of lockdown. Emergency Officials or College Security will conduct a door-to-door confirmation of this announcement.

Threat Outside the Building:

Hold and secure:

- The threat is outside and everyone remains inside the building.
- Notification will be communicated by a voice message.



BASEF 2024 wishes the best of luck to all participants. We hope to see you next year for BASEF 2025!