

York Region Science and Technology Fair 2026

Click here to visit our fair online: [ONLINE PROJECT BOARD DISPLAYS](#)



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Web: yrstf.info.yorku.ca



Welcome to YRSTF



Dear YRSTF Participants,

This has been an exciting week for Canadian science with astronaut Jeremy Hansen playing a pivotal role in the Artemis II mission and travelling the further away from Earth than any other human.

When speaking about the mission, Jeremy Hansen said:

“Canada’s representation on Artemis II is the result of decades of bold Canadian innovation, determination and collaboration. It stands as a testament to Canada’s integral place within the team behind the historic return to deep space.”

While that holds true for our return to deep space, it is equally true for Canadian science as a whole. That spirit of bold innovation, determination, and collaboration starts here with you—our young scientists.

The complex topics you have chosen to tackle, the thoughtful approach you have taken to make a difference in the world, and the infectious passion you show for your research reassure us that Canadian science is in good hands.

We hope that YRSTF 2026 is the beginning of a bold and exciting journey for each one of you. We hope that your participation in YRSTF will be a rewarding experience, nurturing your passion for discovery and your ability to make a difference in our future. Always remember the importance of staying curious, the thrill of learning something different, and the power of sharing your insights.

On behalf of all of us at YRSTF, we extend our best wishes for a successful and engaging fair!

Nathalie Rudner

Youth Science Canada Regional Coordinator - York Region

To the Young Scientists of Tomorrow:

Thank you for registering for the York Region Science and Technology Fair. Over 500,000 young scientists around the country are currently scrambling to gather data, analyze results, and prove hypotheses. Science is in the air!

By entering this year's YRSTF, you are participating in an unforgettable scientific experience that may teach you more about science and technology than any textbook. You are the scientists, engineers and technologists of the future.

From each of more than 50 regional fairs across Canada, a select group of students are chosen to attend the Canada Wide Science Fair and compete at a national level. However, every project, large or small, wins in the end. And after you have measured your results, graphed your last graph, glued your last diagram, all you will remember in the end is that you had fun and learned a lot about the topic you researched, and more importantly, yourself.

Meet some new friends, think laterally, and dream in colour. We welcome you to the York Region Science and Technology Fair.

Sincerely,

Carlos Paz-Soldan & Michael Cournoyea
(Founding Members)



April 10, 2026

Dear York Region Science and Technology Fair Scientists and Engineers,

This is the 12th year that York University has excitedly been preparing across many of our Divisions for your arrival. We can hardly believe that this year the YRSTF has finally come home to York Region and has settled into our Markham Campus. We are over the moon that registration this year has beaten past records and we are looking forward to hearing about the amazing projects you have all worked so hard innovating.

While York University proudly continues to be an actively engaged sponsor in the logistics of the Fair, this year we were beyond thrilled that Connected Minds has become a foundational sponsor. Connected Minds is a \$318.4-million research program led by York University in partnership with Queen's University that empowers science and technology researchers to transcend disciplinary silos to build a healthier and more just society. In addition, DIVERT Mental Health- a national mental health research training program funded by the Canadian Institutes of Health Research (and also centred at York) has also pitched in to support this event!

At York University, connecting with and supporting learning in our community is a critical piece of who we are. With our Markham campus now welcoming students and the York University School of Medicine in Vaughn officially breaking ground, we are honored to truly be the university of York Region! York University looks forward to supporting your academic journey, now and in the future.

Sincerely,

A handwritten signature in blue ink, appearing to read "R. Tsushima".

Dr. Robert Tsushima
Co-Chair, YRSTF@York Partnership
Chair, Department of Biology and Associate Professor

A handwritten signature in blue ink, appearing to read "Rebecca Pillai Riddell".

Dr. Rebecca Pillai Riddell, CPsych, FCAHS
Co-Chair, YRSTF@York Partnership
Tier 1 York Research Chair in Pain and Mental Health and Full Professor

Thank you to our Education Sponsors



The York Region District School Board and the York Catholic District School Board are proud supporters of the York Region Science and Technology Fair. By supporting the fair, they ensure that our fair is accessible to every student in a York Region public school who wishes to participate.



YRSTF appreciates their commitment to supporting the young scientists of tomorrow and their work to promote STEM education among our youth.



CONNECTED MINDS
Neural and Machine Systems
for a Healthy, Just Society

Mind Meets Machine: An AI Talk & Movie Night

**Friday, April 10, 2026
6:30 PM EST**



Elham Dolatabadi, PhD

Elham Dolatabadi, PhD, is an Assistant Professor and Tier 2 Connected Minds York research chair in Safe AI for Health Equity at York University. She is an emerging leader in machine learning (ML) for health and an affiliated faculty member at the Vector Institute. She also serves as the Lead of the Research Committee for Connected Minds. Dr. Dolatabadi has led multiple large-scale projects with hospitals, government bodies, and private-sector partners across Ontario and Canada. Her contributions to date have advanced the development of advanced ML and foundation models across six key areas: clinical diagnostic models, conversational AI, public health surveillance, algorithmic fairness, multimodal learning, and health-sensing technologies.



A journey into the heart of DeepMind, a leading AI lab, as it strives to unravel the mysteries of artificial general intelligence (AGI). Inside DeepMind's London headquarters, founder Demis Hassabis and his team are relentlessly pursuing the creation of AI that matches or surpasses human abilities on a wide range of tasks.



Schedule of Events

Friday, April 10th

4:30– 6:30 pm	Participants Register (2nd Floor Markham Campus) Project Set-Up and Safety Check (2nd Floor Markham Campus)
6:30 pm	Light Pizza Dinner (Atrium) - <i>RSVP required</i>
6:30 pm – 8:30 pm	Mind Meets Machine: An AI Talk and Movie Night with Dr. Elham Dolatabadi (Atrium)

Saturday, April 11th

8:15 am - 8:30 am	Participants check-in (2nd Floor Markham Campus)
8:30 am	Welcome address - YRSTF - Main Floor
9:00 am	Judging rounds – participants must remain at their projects during this time (2nd Floor)
11:30 pm	Students who have completed judging will begin lunch (Atrium)
12:00 pm-12:30 pm	Student Lunch (Atrium)
12:30 pm-1:00 pm	Special Presentation: Winners Make the Best Losers with Dr. Rebecca Pillai Riddell, DIVERT Mental Health
1:00 pm-3:30 pm	STEM Circuit @ York University - Around Campus
3:30 pm	Public Viewing of Projects - (2nd Floor)
5:00 pm	Awards Ceremony (Atrium) - Limit to 1 guest per student
6:15 pm	Clean up! Leave no Trace! Meeting for Canada-Wide Science Fair Winners and parents

Special Presentation
Saturday at 12:30 pm in the Atrium

DIVERT

MENTAL HEALTH

SANTÉ MENTALE

Winners Make the Best Losers

In universities, success is often measured in the awards you win and being touted as the best, the brightest, the fastest, and the first.

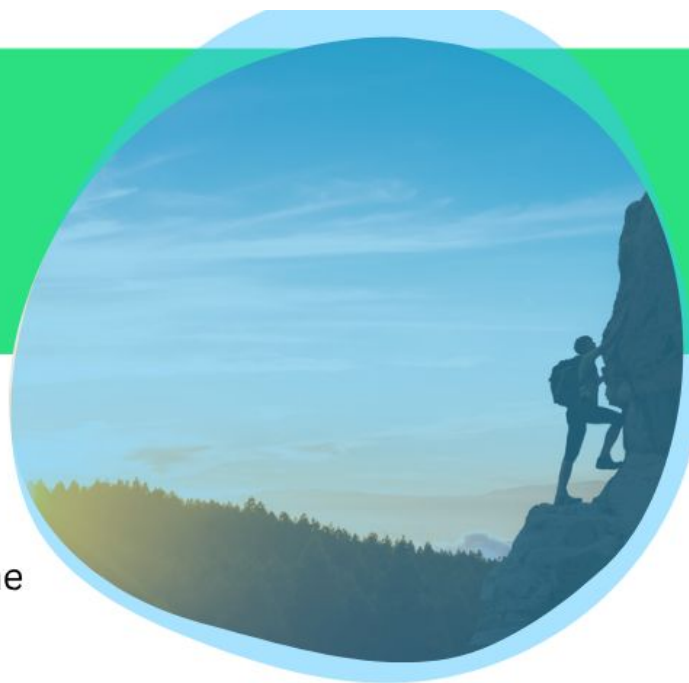
However, this hides the truth about what it really takes to survive and thrive in academia. Join Tier 1 York Research Chair, Dr. Rebecca Pillai Riddell for a conversation about success and more importantly failure through her personal journey and her lived experiences with marginalization. A talk for all career stages! YRSTF High School Scientists will learn about skills she developed and is developing to inoculate herself from the pervasive plague of imposter syndrome.



Dr. Rebecca Pillai Riddell, CPsych, FCAHS

Tier 1 York Research Chair in Pain and Mental Health

DIVERT Mental Health Nominated Principal Investigator



Saturday, April 11, 12:30pm
Markham Campus Atrium



Register as an Associate Fellow to access our learning management system and participate in **monthly webinar!**



For more details, please visit
<https://divertmentalhealth.ca>



Canadian Institutes of Health Research
Instituts de recherche en santé du Canada



Our Supporters

The York Region Science & Technology Fair would like to recognize all of our supporters who make the fair possible.

We are grateful to York University for their generous support by providing resources, catering, speakers, volunteers, and a fabulous experience for our participating students.

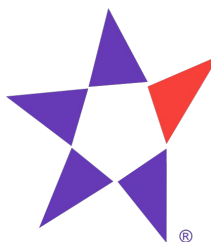
A special thank you to the City of Markham, City of Richmond Hill, and City of Vaughan for their support of this year's fair.

Finally, we would like to thank Youth Science Canada for providing the opportunity for our students to showcase their work at the national level.

We couldn't do it without them!

Please take the time to let them know you appreciate their support and how they are making an important contribution to the development of future!

YRSTF is proud to be affiliated with Youth Science Canada.



Youth Science Canada
Sciences jeunesse Canada

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OF THE**

**York Region
Science and Technology Fair**

**CONGRATULATIONS TO
ALL PARTICIPANTS &
WINNERS**



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CANADIAN**



OUR CHALLENGE AWARD and TRAVEL AWARD SPONSORS



Congratulations to all the incredible students showcasing your ideas today. Your curiosity, creativity and hard work are truly inspiring. Today's ideas are tomorrow's breakthroughs. Keep exploring, building, and pushing boundaries!



On behalf of Markham District Energy Inc. we congratulate all of the young sciences competing in YRSTF 2026. Your future is bright and we look forward to the differences you will make in your community and beyond.

Exhibitors



Agrawal, Dhriti	1204	Hashemi, Mehrad	8106
Agrawal, Aahana	4102	Hioe, Jonathan	7302
Akaljan, Anujan	2205	Hon, Cadence	8108
Ali, Julian	6101	Hsu, Victoria	7101
Alves Fernandes, Eva	2301	Jaffer, Layla	5104
Ansari, Aleeza	2104	Jonovich, Thalia	3106
Arora, Atharv	8201	Kam, Justin	7302
Baksht, Sofiya	7303	Kataria, Prem	7204
Bassiri, Kian	5210	Khan, Uroosa	3106
Ben Daniel, Sean	7201	Khandaker, Adem	3107
Bream, Nila	5102	Kim, Evelyn	TBD
Bu, Kathleen	5303	Kumana, Sahana	8101
Burton, Joshua	8105	Lam, Evan	4308
Casana, Alyssa	5302	Law, Anna	3202
Chan, Adrian	3303	Lazarchyk, Anton	1202
Chan, Hayden	1101	Le, Angelyn	8307
Chan, Henry	4101	Lee, Aaron	3102
Chandrakanthan, Saiyuri	5103	Lee, Brad	8203
Chark, Christian	5101	Lee, Theodore	8301
Chen, Kaley	2107	Leung, Isabelle	7101
Chen, Antai	5305	Leung, Ava	7105
Chen, Eason	8306	Leung, Owen	9101
Cheng, Mila	6201	Li, Orrick	6103
Cheung, Hailey	2101	Li, Christine	7205
Ching, Michael	3103	Li, Avelynn	8104
Choi, Vivienne	2103	Liu, Angela	2105
Chow, Braydon	5101	Liu, Hugo	4201
Chung, Theodora	2101	Liu, Richard	5201
Dai, Vicky	8301	Liu, Edward	7301
Dattoo, Aaliyah	3108	Liu, Zehan	9102
Daunt, Malin	8308	Lo, Sarah	8302
Diplas, Theodore	6101	Lu, Peter	8310
Duan, Athena	8204	Luk, Mason	2106
Feng, Megan	8104	Luo, Steven	5206
Gan, Peigi	4203	Mahmoudi, Nila	7104
Gharavi, Radin	5208	Mak, Allison	8108
Gharibnavaz, Adam	8304	Mali, Andrew	3105
Gopi Palamaner, Saahil	3301	Maris, Nathan	5207
Guiao, Aethan	3302	Mathanram, Shailan	7207
Gulati, Vihan	3101	Mi, Aaron	3107
Han, Qianhao	8303	Mishra, Ved	9101
Han, Nathan	8306	Moosavi, Seyed Sepehr	7206

Exhibitors



Muthukumar, Harshvardhini	8202	Tumanov, Anna	5202
Nalam, Maneesh	5203	Valavan, Chitra	7106
Narmathan, Abishai	7203	Valle, Sofia	2102
Navaneethan, Amira	7102	Vigneswaran, Suyas	8103
Ng, Liam	3103	Wan, Sandy	2107
Ng, Salus	7103	Wang, Erwin	1201
Nguyen, Truc Uyen Nga	3201	Wang, Hector	1205
Nosè, Eloise	5301	Wang, Yifan	1301
Oh, Ethan	4303	Wang, Benjamin	4306
Pakeerathan, Ashveka	5205	Wang, Amy	5204
Pan, Anna	5206	Wang, Laura	6201
Pan, Samuel	7107	Wang, Wen Xin	7202
Paraparan, Akilesh	7207	Wang, Ethan	8102
Patel, Karm	1203	Wasef, Kirollos	3305
Pei, Eason	3303	Watanabe, Sora	3304
Perri, Julian	8103	Wisebourt, Jonathan	6102
Pham, Sam	2201	Wong, Jasmine	5302
Prasaud, Tara	2203	Wong, Katelyn	7103
Pratheepan, Nilaa	1204	Wong, Reinette	7105
Pump, Jayda	2103	Wu Zheng, Alex	4203
Rajeevan, Yashnan	7207	Xu, Austin	1101
Ramachandren, Aathira	2204	Xu, Joshua	3104
Rathod, Tara	2105	Xu, Yan	7304
Rajeevan, Yashnan	7207	Xu, Kerou	8309
Robles, Rachael	8302	Yacowar, Eliana	2301
Rodin, David	4301	Yang, Yuheng	4308
Sadeghi, Paarsa	7106	Yarmohammad, Omer	2201
Selvarajah, Kaylee	5301	Ye, Bella	8309
Shah, Pranshi	1102	Yip, Tyler	3302
Shah, Sohum	4307	Yu, Jonathan	3305
Shandilya, Abhijay	8310	Zaidi, Alishba	5209
Sharma, Kabir	5203	Zamir, Avital	8107
Sharvanandha, Sushathve	5205	Zeng, Tyler	4305
Shen, Matthew	5304	Zhai, Jack	2202
Shi, Ben	4301	Zhang, Patrick	4304
Su, Zixuan	8305	Zhang, Kayla	5104
Suh, Hannah	TBD	Zhang, Elina	5303
Sui, Aaron	2205	Zhang, Eviee	8304
Sun, Eunice	8205	Zhang, Renee	7107
Syed, Emaan	4307	Zheng, Yuanda	4202
Tang, Leo	4305	Zhu, Adrian	3109

The City of Vaughan's Summer Company Program is back and ready to spark the next generation of young entrepreneurs!

In association with the Ministry of Economic Development, Job Creation and Trade, this program equips students with the skills, tools, mentorship and resources they need to launch – and grow – their own business. Participants will also have an opportunity to receive up to \$3,000 in provincial grant funding to start their businesses.



If you're a student entrepreneur between the ages of 15 and 29 years old, [apply online](#) before **Friday, April 17** to be considered!

**Calling all students -
Vaughan's Summer Company
program is back!**

vaughanbusiness.ca/Summer-Company



YRSTF 2026

by

the numbers

167

students



117

projects

45

judges

348

judging
interviews

37

schools

23

years of
YRSTF

11

years in
partnership
with York U

1st year
at Markham
Campus!

#YRSTF2026 Participants!

Have your say!! Which project is best in fair?

Cournoyea / Paz-Soldan Award

The \$50 “Cournoyea/Paz-Soldan Presenter’s Choice Award” is presented to the project that, in the eyes of the fair participants, is the best overall project.

Have your say!

Step1: Get your ballot! It will be distributed during judging rounds.

Step 2: Check out the projects. If you are not being judged, feel free to walk quietly around and visit your peer’s projects (Who are not being judged!). Please do not hover or listen in on other judging rounds! Be respectful of your peers being judged and make sure you are always at your project at the beginning of the judging round! You don’t want to miss it

Step 3: Once you have identified the winner, fill in your ballot and drop it in the box! Use the Exhibitor List on the next pages to identify the Project Number! (or the table card!)

Waiting for your judges??? Check out the online ProjectBoards! Try to like at least 10 projects and leave a positive encouraging comment for 5 people during the fair! Please be respectful in your comments!

**ONLINE PROJECT
BOARD DISPLAYS**



**Don't forget to get your photo taken at
the photobooth!!!**

10:30am - 12:30pm on Saturday!

Tag us on Social media:

#YRSTF2026

@YRSTFInfo

@YRSTF



List of Exhibits



1101 - Aerospace EngineARing

Austin Xu, Hayden Chan

Aerospace, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/226317>

1102 - Fluid shift in space: A smart compression suit

Pranshi Shah

Aerospace, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225875>

1201 - Duckweed Growth and Nutrient Recycling - Efficiency in Closed Ecological Systems for Space

Erwin Wang

Aerospace, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/226109>

1202 - Developing a machine learning model to discover active asteroids.

Anton Lazarchyk

Aerospace, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/221680>

1203 - Novel Radiation-Capture Spacecraft Shield for Deep-Space Exploration

Karm Patel

Aerospace, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/224692>

1204 - AeroCore: Let's Prevent a Plane Crash

Dhriti Agrawal, Nilaa Pratheepan

Aerospace, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/225753>

1205 - Effect of grid resolution on fluid simulation accuracy

Hector Wang

Aerospace, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/217425>

1301 - Beyond the Dart: Wind Tunnel Analysis of Biomimetic and Engineered Paper Aircraft Geometries

Yifan Wang

Aerospace, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/226037>

2101 - The Probiotic Journey: From Fridge to Gut

Theodora Chung, Hailey Cheung

Agriculture, Fisheries and Food, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224281>

2102 - Smart and Compostable Food Wrap: A Major Step For Reducing Waste

Sofia Valle

Agriculture, Fisheries and Food, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224667>

2103 - Pickling vs. Fermenting

Jayda Pump, Vivienne Choi

Agriculture, Fisheries and Food, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224866>

2104 - Not So Micro Plastics!

Aleeza Ansari

Agriculture, Fisheries and Food, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224891>

2105 - Neutralizing Soil Acidity After Acid Rain With Fruit Powders

Angela Liu, Tara Rathod

Agriculture, Fisheries and Food, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225366>

2106 - The affects of plant Damage: how do they react?

Mason Luk

Agriculture, Fisheries and Food, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225578>

List of Exhibits



2107 - From Cup to Compost: Biodegradable Packaging for Instant Ramen

Sandy Wan, Kaley Chen

Agriculture, Fisheries and Food, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225597>

2201 - Food Guardian: An Internet-Connected System for Automatic Food Spoilage Detection (IoT)

Sam Pham, Omer Yarmohammad

Agriculture, Fisheries and Food, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/217504>

2202 - Minimizing Pesticide Use Through VOC-Based Crop Monitoring

Jack Zhai

Agriculture, Fisheries and Food, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/225927>

2203 - STEM Fair 2026 - Salty Soil Stunts Plant Growth

Tara Prasaud

Agriculture, Fisheries and Food, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/225336>

2204 - Fishy Waters: An Evaluation of Oil Spills and Absorptions

Aathira Ramachandren

Agriculture, Fisheries and Food, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/225341>

2205 - FridgeOMeter

Aaron Sui, Anujan Akaljan

Agriculture, Fisheries and Food, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/224212>

2301 - Advancing Agriculture Practices: Turning Banana Peels Into Decomposable Plant Pots

Eva Alves Fernandes, Eliana Yacowar

Agriculture, Fisheries and Food, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/224074>

3101 - Vantedge - STEAM Fair Project by Vihan Gulati

Vihan Gulati

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225673>

3102 - Modeling and Predicting Invasive Species Tipping Points Through Scratch-Based Simulation

Aaron Lee

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225426>

3103 - Same Parent, Same Brain: Testing to see if siblings think alike

Michael Ching, Liam Ng

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225390>

3104 - 3D Infill Strength Test

Joshua Xu

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224176>

3105 - How Polarity Affects Electrostatic Precipitator Efficiency and Ozone Production

Andrew Mali

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225091>

3106 - AI VS HUMAN

Uroosa Khan, Thalia Jonovich

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224868>

3107 - Solar Powered Pedestrian Crossing Alarm for Stop Sign

Adem Khandaker, Aaron Mi

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225543>

List of Exhibits



3108 - Hot or Cold: Which Magnet Holds?

Aaliyah Datoo

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225870>

3109 - Development of an AI pathfinding system to facilitate asteroid PGE mining

Adrian Zhu

Curiosity and Ingenuity, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225746>

3201 - How Do Mindset and Willpower Affect Performance in Rhythmic Gymnastics Training?

Truc Uyen Nga Nguyen

Curiosity and Ingenuity, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/224379>

3202 - Using Haptics and Ultrasound to Measure Distances

Anna Law

Curiosity and Ingenuity, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/225101>

3301 - The Hidden Signature of Black Holes: Simulating X-rays from Accretion Flows

Saahil Gopi Palamaner

Curiosity and Ingenuity, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/224211>

3302 - A Green Clean: How Fabric Type and Stain Composition Affect Stain Removal

Aethan Guiao, Tyler Yip

Curiosity and Ingenuity, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/222508>

3303 - Resonance Reimagined: Engineering a Non-Invasive Acoustic Reflector for Sound Projection

Eason Pei, Adrian Chan

Curiosity and Ingenuity, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/223005>

3304 - Statistical Reconstruction of Local Dark Matter with ML, Maths, Stats

Sora Watanabe

Curiosity and Ingenuity, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225983>

3305 - Automatic Page Flipper

Kirollos Wasef, Jonathan Yu

Curiosity and Ingenuity, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225636>

4101 - Reducing wait times on 911 calls

Henry Chan

Digital Technology, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224869>

4102 - The Biomimetic Bridge: Robotic Rehabilitation Gloves

Aahana Agrawal

Digital Technology, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225123>

4201 - SnowNav | Precision-Guided Snow Removal Robot

Hugo Liu

Digital Technology, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/223691>

4202 - Speed Detective: Using AI to improve existing speed enforcement solutions.

Yuanda Zheng

Digital Technology, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/223605>

4203 - Bionic Heart

Peigi Gan, Alex Wu Zheng

Digital Technology, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/227058>

List of Exhibits



4301 - Hydro Aerosol Dimensional Array: An Interactive Interface

Ben Shi, David Rodin

Digital Technology, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225136>

4303 - Chess960-Based Encryption: A Novel Asymmetric Encryption Model

Ethan Oh

Digital Technology, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/218405>

4304 - Hidden Discrimination in AI: A Systematic Evaluation of Explainability-Based Detection Methods

Patrick Zhang

Digital Technology, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/224687>

4305 - NEXUS: A Multimodal Device for Deafblind Communication using Hybrid Dynamic Speaker Diarization

Leo Tang, Tyler Zeng

Digital Technology, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225995>

4306 - ALTA: the Adaptive Logit Trajectory Algorithm For Reducing Hallucinations In Large Language Models

Benjamin Wang

Digital Technology, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225831>

4307 - SafeGuardian: Decentralized AI-Driven Disaster Response Assistant

Emaan Syed, Sohumi Shah

Digital Technology, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225785>

4308 - FirstVoice: Giving Babies a Voice Before They Can Speak

Yuheng Yang, Evan Lam

Digital Technology, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/224382>

5101 - LunGuard | A Necklace Designed for the Early Detection of Lung Cancer

Braydon Chow, Christian Chark

Disease and Illness, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/222677>

5102 - Urine Luck! (Urine Detection Device)

Nila Bream

Disease and Illness, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224894>

5103 - Paper Tests + AI=Pancreatic Cancer Detection

Saiyuri Chandrakanthan

Disease and Illness, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/225026>

5104 - Can Nature Protect Our Lungs From Air Pollution?

Kayla Zhang, Layla Jaffer

Disease and Illness, Junior (Grade 7/8)

<https://partner.projectboard.world/ysc/project/224867>

5201 - Listening for Lung Cancer: Finding Key Voice Patterns and Understanding AI Decisions

Richard Liu

Disease and Illness, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/218013>

5202 - Selective Cell Death Using Spirulina

Anna Tumanov

Disease and Illness, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/224616>

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Maneesh Nalam, Kabir Sharma

Disease and Illness, Intermediate (Grade 9/10)

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5204 - Window to the Mind: AI-Powered Early Retinal Detection and Rational Drug Design for Alzheimer's

Amy Wang

Disease and Illness, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/224881>

5205 - Improving Efficiency of Tet-On/Tet-Off Systems Using Subpopulations for Precise Cancer Immunotherapy

Ashveka Pakeerathan, Sushathve Sharvanandha

Disease and Illness, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/224372>

5206 - Non-invasive Breath-based Biomarker Detection for Accessible Pancreatic Cancer Diagnosis

Steven Luo, Anna Pan

Disease and Illness, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/225373>

5207 - The Electronic Nose: Detecting Breath Biomarkers With Low-Cost Gas Sensors

Nathan Maris

Disease and Illness, Intermediate (Grade 9/10)

<https://partner.projectboard.world/ysc/project/225803>

5208 - Smart Spirometer: AI-Based Lung Monitoring

Radin Gharavi

Disease and Illness, Intermediate (Grade 9/10)

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5209 - MelanoScan AI: Using Artificial Intelligence to Detect Early Signs of Skin Cancer

Alishba Zaidi

Disease and Illness, Intermediate (Grade 9/10)

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5210 - Explainable Multimodal AI for Stroke Outcome Prediction via Confidence-Based Selective Prediction

Kian Bassiri

Disease and Illness, Intermediate (Grade 9/10)

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5301 - HemoTrack: A Colour-Changing Sticker for Blood Bag Monitoring

Kaylee Selvarajah, Eloise Nosè

Disease and Illness, Senior (Grade 11/12)

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5302 - Clasp-Assist: A Solution for Post-Stroke Patients facing Hand Dexterity Challenges

Jasmine Wong, Alyssa Casana

Disease and Illness, Senior (Grade 11/12)

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5303 - Identifying A Cisplatin Resistance Gene Signature and Proposing A Targeted ADC Therapeutic Strategy

Kathleen Bu, Elina Zhang

Disease and Illness, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225520>

5304 - A Multi-Omic "Digital Embryo" Framework to Model Early Human Preimplantation Development In Silico

Matthew Shen

Disease and Illness, Senior (Grade 11/12)

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5305 - Engineering TAP-Independent Antigen Presentation Reveals Tunable Control of pMHC Density

Antai Chen

Disease and Illness, Senior (Grade 11/12)

<https://partner.projectboard.world/ysc/project/225827>

6101 - Rhythm Recharge

Julian Ali, Theodore Diplas

Energy, Junior (Grade 7/8)

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Jonathan Wisebourt

Energy, Junior (Grade 7/8)

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Orrick Li

Energy, Junior (Grade 7/8)

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Mila Cheng, Laura Wang

Energy, Intermediate (Grade 9/10)

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Isabelle Leung, Victoria Hsu

Environment and Climate Change, Junior (Grade 7/8)

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Amira Navaneethan

Environment and Climate Change, Junior (Grade 7/8)

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7103 - Waste to Wonders! Floss Containers of Fruit Peel Plastics

Salus Ng, Katelyn Wong

Environment and Climate Change, Junior (Grade 7/8)

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7104 - Bioplastic Degradation: The Role of Microbes

Nila Mahmoudi

Environment and Climate Change, Junior (Grade 7/8)

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Reinette Wong, Ava Leung

Environment and Climate Change, Junior (Grade 7/8)

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Chitra Valavan, Paarsa Sadeghi

Environment and Climate Change, Junior (Grade 7/8)

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Samuel Pan, Renne Zhang

Environment and Climate Change, Junior (Grade 7/8)

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Sean Ben Daniel

Environment and Climate Change, Intermediate (Grade 9/10)

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Wen Xin Wang

Environment and Climate Change, Intermediate (Grade 9/10)

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7203 - Affordable Forecasting: Evaluating the Accuracy of a Low-Cost Arduino Weather Station

Abishai Narmathan

Environment and Climate Change, Intermediate (Grade 9/10)

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7204 - Can Mushrooms Eat Plastic? Testing Blue Oyster Fungi on Different Plastics

Prem Kataria

Environment and Climate Change, Intermediate (Grade 9/10)

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Christine Li

Environment and Climate Change, Intermediate (Grade 9/10)

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7206 - Which bioplastics can replace polyethylene plastic products?

Seyed Sepehr Moosavi

Environment and Climate Change, Intermediate (Grade 9/10)

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7207 - Fighting Wildfires in BC: Merging on the Ground Sensor Data With Open Source Satellite Imagery

Shailan Mathanram, Akilesh Paraparan, Yashnan Rajeevan

Environment and Climate Change, Intermediate (Grade 9/10)

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Edward Liu

Environment and Climate Change, Senior (Grade 11/12)

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Jonathan Hioe, Justin Kam

Environment and Climate Change, Senior (Grade 11/12)

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Sofiya Baksht

Environment and Climate Change, Senior (Grade 11/12)

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7304 - Coastal Risk Analyzer

Yan Xu

Environment and Climate Change, Senior (Grade 11/12)

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Sahana Kumana

Health and Wellness, Junior (Grade 7/8)

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8102 - Shoebox Science, Real-World Silence

Ethan Wang

Health and Wellness, Junior (Grade 7/8)

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8103 - The SureStep - Think Before You Step

Suyas Vigneswaran, Julian Perri

Health and Wellness, Junior (Grade 7/8)

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Megan Feng, Avelynn Li

Health and Wellness, Junior (Grade 7/8)

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8105 - The Connection Between Colours and Emotion

Joshua Burton

Health and Wellness, Junior (Grade 7/8)

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Mehrad Hashemi

Health and Wellness, Junior (Grade 7/8)

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Avital Zamir

Health and Wellness, Junior (Grade 7/8)

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Allison Mak, Cadence Hon

Health and Wellness, Junior (Grade 7/8)

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Atharv Arora

Health and Wellness, Intermediate (Grade 9/10)

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Harshvardhini Muthukumar

Health and Wellness, Intermediate (Grade 9/10)

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Brad Lee

Health and Wellness, Intermediate (Grade 9/10)

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Athena Duan

Health and Wellness, Intermediate (Grade 9/10)

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Eunice Sun

Health and Wellness, Intermediate (Grade 9/10)

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Theodore Lee, Vicky Dai

Health and Wellness, Senior (Grade 11/12)

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Rachael Robles, Sarah Lo

Health and Wellness, Senior (Grade 11/12)

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8303 - From Protection to Detection: A Smart Helmet for Impact Mitigation and Real-Time Brain Monitoring

Qianhao Han

Health and Wellness, Senior (Grade 11/12)

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8304 - Creatine Monohydrate and Adolescent Athletes: Perceptions and Evidence

Adam Gharibnavaz, Eviee Zhang

Health and Wellness, Senior (Grade 11/12)

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8305 - TSI-Weighted Harmonic Prioritization: Improving Music Perception for Cochlear Implant Users

Zixuan Su

Health and Wellness, Senior (Grade 11/12)

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Eason Chen, Nathan Han

Health and Wellness, Senior (Grade 11/12)

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Angelyn Le

Health and Wellness, Senior (Grade 11/12)

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Malin Daunt

Health and Wellness, Senior (Grade 11/12)

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Bella Ye, Kerou Xu

Health and Wellness, Senior (Grade 11/12)

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Abhijay Shandilya, Peter Lu

Health and Wellness, Senior (Grade 11/12)

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Ved Mishra, Owen Leung

Natural Resources, Junior (Grade 7/8)

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Zehan Liu

Natural Resources, Junior (Grade 7/8)

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TBD - Your Heart on your Wrist

Evelyn Kim, Hannah Suh

Health and Wellness, Junior (Grade 7/8)

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Special Awards and Prizes

Green Markham - A Healthier Community

In partnership with the City of Markham, projects by Markham students have been selected to represent YRSTF at the Markham Youth Science Exhibition on **April 25th, 2026**.

Special Awards and Prizes

York University Admission Scholarship	The Office of the Registrar and Division of Students at York University will award a \$2,000 entrance scholarship to a most deserving senior to encourage the winner(s) to pursue university studies at York University
University of Ottawa Admission Scholarship	The University of Ottawa \$1000 Admission Scholarship is awarded to the most deserving senior-level science fair project to encourage the winner(s) to pursue university sciences or technology studies.
Biology Innovation Award	This \$100 award recognizes a project that demonstrates exceptional creativity and out-of-the-box thinking in the application of biological sciences to non-medical challenges.
Vladimir Vernadsky Award	The \$100 award is presented in honour of the scientific endeavors of scientist Vladimir Vernadsky whose works have contributed to geology, geography, geosphere, biosphere and noosphere. This award is given to the project that reflects ideas that best support sustainable development.
Cournoyea / Paz-Soldan Award	The \$50 "Cournoyea/Paz-Soldan Presenter's Choice Award" is presented to the project that, in the eyes of the fair participants, is the best overall project.
YRSTF Challenge Awards (9 Awards) Sponsored by MDEI and Sofina	These \$100 awards are presented to the best project in each of the CWSF Challenge categories of: Aerospace, Agriculture, Fisheries, and Food, Curiosity and Ingenuity, Digital Technology, Disease and Illness, Energy, Environment and Climate Change, Health and Wellness, Natural Resources
Young Innovator's Award	This \$200.00 award is presented to an outstanding project that demonstrates innovative thinking.
AminoLab Promising Young Biologist Award	This book award sponsored by AminoLab recognizes a project that demonstrates potential in the biological sciences.
York University Spark Lab Summer Camp (Gr. 9-12)	One week at the Virtual Spark Lab Camp hosted by York University is awarded to a high-performing senior/ intermediate student project (1 student)
York University Science Explorations Summer Camp (Gr. 7-8)	One week at the Virtual Science Explorations (SciX) Summer Camp hosted by York University is awarded to a high performing junior project

Special Awards and Prizes

Environment Award in honour of Dr. Ray Clement	The \$200 "Environment Award" is given to a project judged to be the Best-in-Fair about any aspect of environmental science. The project may be an Innovation or Discovery project. The winning project will be that which is clear, concise, logical, and conducted according to the best principles of scientific investigation.
Physical Sciences Award	The \$100 "Physical Sciences Award" is given to a project judged to be the Best-in-Fair about any aspect of physical sciences, including physics, chemistry, astronomy, or Earth sciences. The project may be an Innovation or Discovery project; The winning project will be that which is clear, concise, logical, and conducted according to the best principles of scientific investigation.
YRSTF Communication and Presentation Award	This \$100 award is given to the project that demonstrates excellent communication skills through oral presentation, online video, and the physical display board.
EcoSpark 30th Anniversary Environmentalist Award	This \$300 award is presented to an outstanding project that addresses an environmental issue in any category whose findings have the potential to engage everyday community members in making a difference for the environment.
WEAO Award	This \$100 award will be awarded to a project focused on innovative ideas for preserving and/or enhancing the water environment in recognition that water is our most valuable resource that requires on-going efforts to manage it in a responsible and sustainable manner. This prize will be given to a top junior, intermediate, or senior project related to one or more of the following subject areas: water and wastewater treatment, stormwater management, biosolids energy and resource recovery, water reuse/ grey water systems, constructed wetlands, properties of water.
Canadian Meteorological and Oceanographic Society (CMOS) Award	This prize will be given to the best project in Meteorological and Oceanographic Sciences. This includes projects in weather, air quality, climate, climate change and the oceans. 2 awards: \$150-1st place, \$75.00 -2nd place
Home Innovation Award Sponsored by Evgeny Rosen	The \$50.00 "Home Innovation Award" is presented to a project that best demonstrates innovation in the area of home improvements and/or the development of sustainable homes.

In memoriam

Dr. Ray Clement 1951-2026



This year, the YRSTF lost one of its biggest champions. Involved since the beginning and holding the important role of Chief Judge, Dr. Ray Clement was an inspiration to the entire YRSTF Team and reminded us yearly of why we host the fair. He had a passion for science and believed in the impact of young scientists can make on our future. Dr. Clement was an inspiration to us all, reminding us about the importance of good science and powerful communication.

We will miss him!

**We would like to thank the sponsors on the following pages
for generously supporting student awards and door prizes**



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Graziella Sadler

Jim Rea

Patricia Rea

If you are interested or know someone who might be interested in sponsoring a prize for next year, please reach out to Nathalie Rudner at york@youthscience.ca.

Canada Wide Science Fair

Edmonton, AB, May 23 - May 30, 2026



This year's Gold Medal winners will be going to Edmonton to compete at the Canada Wide Science Fair!

We wish our winners the best of luck as they go on to represent York Region!



Participating Schools

The York Region Science and Technology Fair Organizing Committee would like to recognize the teachers, school sponsors, and schools who support and encourage their students' participation in YRSTF through a variety of different ways. Your support and encouragement help ensure that students have a successful experience at the fair and that we will continue to have student scientists in the future!

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St. Andrew's College
St. Augustine Catholic High School
St. Justin Martyr Elementary School
St. Robert Catholic High School
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Stephen Lewis Secondary School
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Town Centre Montessori Private Schools
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Appreciations

The fair is a passion project for many of our committee members. Without them, we would not be here! Thank you!

A special Thank You to

Nathalie Rudner - Youth Science Canada Regional Coordinator - York Region

Kim Hopper - Judging Coordinator

Michael Frankfort - Community Partnerships and Sponsorship

Dennis Stam - YRDSB Liaison

Marisa Benakis - YCDSB Liaison

Vanessa Quidayan - Private School Liaison

Joseph Ciccone - Safety Check and President

Karen Choo & Jennifer Shaffer - Setup and Safety Check

We would also like to recognize the efforts of some very important people who help make the fair happen! Without them, YRSTF would not be possible.

The YRSTF Organizing Committee would like to thank:

Our Judges - for taking the time from their busy weekend to judge. (Over 50 judges!!!)

Our Volunteers - for all of the miscellaneous tasks that needed to be done (Over 30 volunteers!!!)

Our Partners @ York University - A special thank you to Dr. Robert Tsushima, Dr. Rebecca Pillai Riddell, and Arianna for their unwavering support!

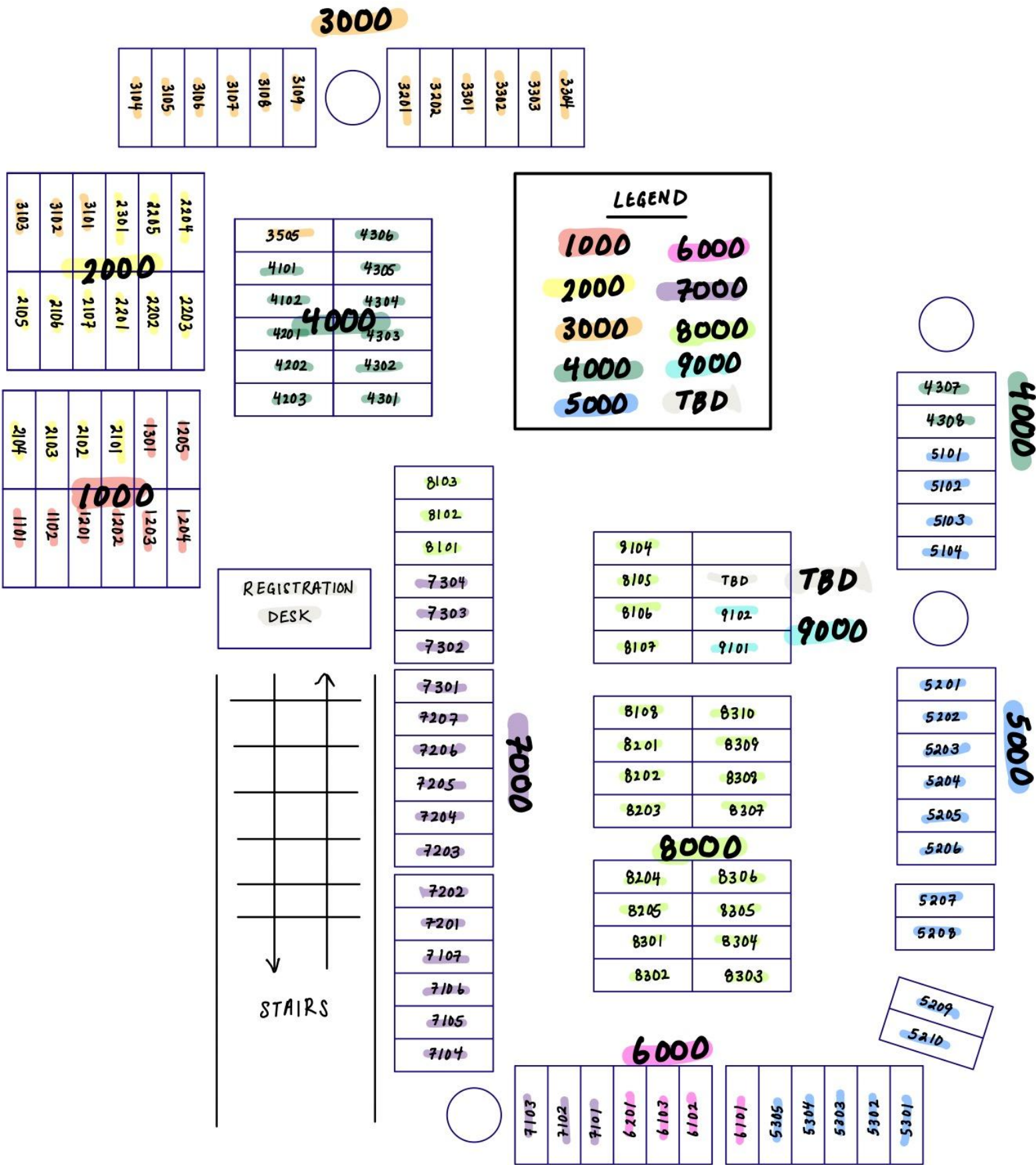
The Teachers - for encouraging and inspiring your students

All of the Parents/ Guardians/ Families – for supporting your young scientists in their scientific endeavors

Our YRSTF 2026 Scientists - for all your hard work and excitement that reminds us that our future is bright!

The staff and students at York University for all their support in making the event a success and providing students with an amazing experience on campus!

Exhibit Hall Map



Donations to YRSTF@YorkU



YRSTF ensure that 100% of donations directly support the participation of students in the Regional Fair, awards, and competition in the National Fair.

If you are interested in supporting YRSTF@YorkU, donations can be made through the “Make a Gift - York University” website/QR Code:

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