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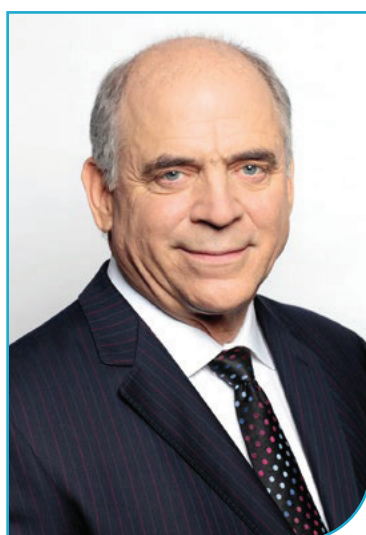
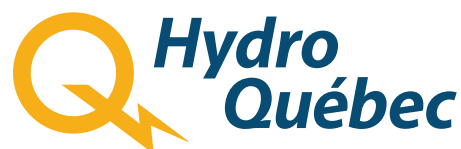
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**SUPER
EXPO
SCIENCES**
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FINALE QUÉBÉCOISE
DU 19 AU 21 AVRIL 2024
AU CÉGEP DU VIEUX MONTRÉAL



WELCOME

2024 Edition

HYDRO-QUÉBEC

Montréal Regional Science & Technology Fair

MICHAEL DOWNEY

President, EAST

Welcome to this year's Montreal Regional Science and Technology Fair. I would like to congratulate all of the participants for their hard work, passion and dedication that got each of you here to compete at the regional level. Scientists and technologists need to be experimenting, working together and talking to each other, in order to solve the many global issues facing the world today. Throughout the next few days, take the time to get to know your fellow competitors and try to learn a little something from everyone you meet. Pique your curiosity by having conversations on the many facets of today's world. Your perseverance, effort and enthusiasm make all of our futures look brighter. Good luck to everyone, and above all else have fun.

The Educational Alliance for Science and Technology (EAST) is a non-profit organization that promotes science and technology to young Quebecers through its numerous annual activities, such as the Montreal Regional Science & Technology Fair, the Junior and Senior CRC Robotics competition, the Young Citizens Conference and the International Science and Engineering Fair (ISEF).

Thanks to our major partners and sponsors, our volunteer-based organization will continue to INSPIRE, ENCOURAGE and ENABLE young minds in Quebec for years to come.

To find out more about our events, follow us on Facebook @aesteast and visit our website (www.sciencetech.ca).

Congratulations to all participants!

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EDUCATIONAL ALLIANCE FOR SCIENCE AND TECHNOLOGY



CHIEF JUDGE

2024 Edition

HYDRO-QUÉBEC

Montréal Regional Science & Technology Fair

HEATHER MCPHERSON, PhD

Science Teacher, Laval Senior Academy

Course Lecturer, Department of Integrated Studies in Education,
Faculty of Education, McGill University

We are thrilled to extend a warm welcome to all participants, educators, families, and science enthusiasts to the Hydro-Quebec Montreal Regional Science Fair and Technology Fair.

Congratulations to participants! Over the past months you embarked on a scientific journey that is a testament to your curiosity, creativity, and scientific exploration. By engaging with this work, you developed critical thinking and problem-solving skills as you persevered to overcome a multitude of challenges that are inherent in scientific and technological innovation. In the next three days, we will be celebrating your ingenuity and passion as you showcase your designs, experiments, and studies. Whether it's unraveling the mysteries of the natural or physical world, delving into the wonders of biology, or engineering and coding solutions for tomorrow's challenges, each exhibit represents a unique endeavor fueled by curiosity and dedication. The possibilities are limitless, and the future is waiting to be discovered!

During the science fair, let your imagination soar and your curiosity guide you. Engage with the brilliant minds behind each project, ask questions, and engage in conversations that ignite a passion for science.

We extend our deepest gratitude to all participants, mentors, volunteers, and sponsors whose support makes this event possible. Your dedication to fostering scientific inquiry and innovation is truly commendable.

Let us celebrate the scientific and technological exploration here in Laval! Enjoy your journey!

Warmly,

HEATHER MCPHERSON

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**SERGE-ÉDOUARD
JEANNITON**

Principal
Laval Senior Academy

We are thrilled to welcome the participants of the 2024 Montréal Regional Science and Technology Fair to Laval Senior Academy (LSA). Hosting the 64th edition fills the Sir Wilfrid Laurier School Board (SWLSB) with pride, knowing it will overflow with excitement and innovation.

We are proud of our exceptional Science concentration program at LSA and are honored to host students from 17 other high schools and CEGEPs, who will DARE SCIENCE with us. Let's embark on this journey together, celebrating the spirit of innovation and discovery that defines the essence of science.

Over the next three days, more than 125 talented students will share their knowledge, energy, and enthusiasm, promising an unforgettable experience. We wish all participants the best of luck and encourage you to embrace the opportunity to learn from one another.

We appreciate everyone who contributed to making this event possible, from our dedicated teachers and staff to our valued community partners.

May this event at LSA inspire you to continue to DARE SCIENCE in all your future endeavors.

Sincerely,

PAOLO GALATI

RUSSELL COPEMAN

SERGE-ÉDOUARD JEANNITON



COMMISSION SCOLAIRE SIR-WILFRID-LAURIER
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KEYNOTE SPEAKERS

2024 Edition

HYDRO-QUÉBEC

Montréal Regional Science & Technology Fair

AMANDA SCANGA MADISON ODABASSIAN

Amanda Scanga and **Madison Odabassian**, alumni of **Laval Senior Academy**, have both embarked on careers in healthcare. Best friends since high school, they share an enduring passion for science and medicine, navigating much of their academic journey by each other's side. From late-night study sessions to collaborative projects, Amanda and Madison have supported each other, fueling their aspirations and fostering resilience. Their friendship stands as a testament to the power of collaboration and camaraderie in the pursuit of scientific excellence.

Amanda began her studies at Dawson College in Health Science, and went on to complete a Bachelor's of Science in Pharmacology and Therapeutics at McGill University. In October 2023, Amanda graduated with a Master's of Science in Experimental Medicine at McGill University. Her research focused on investigating alternative treatment options for patients with obstructive sleep apnea and Parkinson's disease. Amanda is the published author of a literature review and original research article on the topic of sleep and Parkinson's disease. She is now a clinical research coordinator at the Royal Victoria Hospital where she works in the sleep laboratory of the Research Institute of the McGill University Health Center. As a member of the Respiratory Epidemiology & Clinical Research Unit, she collaborates with a team of sleep physicians and respirologists to conduct research projects involving sleep-disordered breathing and other respiratory illnesses.

Madison commenced her studies at Marianopolis College, followed by her pursuit of a Bachelor's degree in Anatomy and Cell Biology. In 2021, she embarked on a Master's program in Biomedical Engineering in the Diabetes Technology Lab within the Research Institute of the McGill University Health Center. During this time, she led a clinical trial investigating a closed-loop insulin delivery system for individuals with type 1 diabetes. Concurrently, in 2022, Madison began her medical studies at McGill University. As a medical student, she holds the roles of co-president of the McGill Teddy Bear Hospital and Student Space Officer for the McGill Medical Student's Society. Madison has three publications and is currently working on her thesis and the manuscript of her first, first-author original research article. With a keen interest in internal medicine or pediatrics, Madison is dedicated to both her passion for medicine and her commitment to mentoring the future generation of science enthusiasts.

Excited to share their journeys, Amanda and Madison reflect on navigating uncertainty, embracing change, overcoming rejection, and persisting through adversity to achieve their goals. They are eager to highlight the significance of friendships, collaboration, and community in personal and professional growth, emphasizing the importance of maintaining a positive work-life balance.

SCHEDULE

Sunday, March 24

SCIENCE FAIR SCHEDULE (Students and Chaperones)

9:30 a.m. - 12:00 p.m.	Exhibitors check-in and set-up	Exhibit Area
10:00 a.m. - 4:00 p.m.	Safety check of projects	Exhibit Area
12:00 - 1:00 p.m.	Opening Ceremony + Group Photo	Auditorium
1:00 - 4:00 p.m.	Open to the public Official photos taken at the Booth.	Exhibit Area
4:00 p.m.	Students may leave	

Exhibitors and chaperones can eat lunch at a time that suits them best. **No lunch will be provided.**

Monday, March 25

SCIENCE FAIR SCHEDULE (Students and Chaperones)

7:30 - 8:00 a.m.	Judge's registration and breakfast	Library
8:00 - 9:00 a.m.	Judge's briefing	Library
8:30 - 9:00 a.m.	Exhibitors check-in	Exhibit Area
9:00 a.m. - 12:00 p.m.	Judging of projects	Exhibit Area
12:00 - 2:00 p.m.	Judge's Lunch	Library
1:00 - 4:00 p.m.	Open to the public	Exhibit Area
3:00 - 4:00 p.m.	Teacher's meeting	Library

Exhibitors and chaperones can eat lunch at a time that suits them best. **No lunch will be provided unless reserved in advance with the MRSTF Coordinator.**

Tuesday, March 26

SCIENCE FAIR SCHEDULE (Students and Chaperones)

8:30 - 9:00 a.m.	Exhibitors check-in	Exhibit Area
9:00 a.m. - 4:00 p.m.	Open to the public	Exhibit Area
9:00 a.m. - 12:00 p.m.	Students will be placed on a rotation to take part in the Young Citizens Conference as well as have an opportunity to visit the other booths.	
4:00 - 5:00 p.m.	Exhibitors tear down exhibits.	Exhibit Area
5:00 p.m.	Doors open Auditorium	Auditorium
5:30 - 7:30 p.m.	Awards ceremony	Auditorium

Exhibitors and chaperones can eat lunch at a time that suits them best. **No lunch will be provided unless reserved in advance with the MRSTF Coordinator.**

Exhibitors and chaperones can eat dinner between 4:00 and 5:30p.m. **No dinner will be provided.**

EXHIBITORS

Category Legend

1 - Biological and Health Sciences • 2 - Engineering, Computer Science, Robotics Applications
3 - Environment and Ecosystems • 4 - Pure Sciences • 5 - Social Sciences and Social Networks

Booth	Student Name	School	Project Title	Project Type	Category
JUNIOR PROJECTS					
101	Daphne Di Marco	Laval Junior Academy	Pestalotiopsis microspora	Experiment	3
102	Marie-Pierre Tardif	Laval Junior Academy	How to measure Earth's size	Experiment	4
103	Galia Faust & Annael Cohen Tenondyi	Hebrew Academy	Sand Wave	Experiment	4
104	Daniel Bensoussan & Noam Bensoussan	Hebrew Academy	Seeing is Believing... or is it?	Experiment	4
105	Adam Hamdaqa	Pierrefonds Community High School	Guardian Helmet	Design	2
INTERMEDIATE PROJECTS					
106	Amelie Langlois	Laval Junior Academy	Soap vs. Bacteria	Experiment	1
107	Alishba Shah	Laval Junior Academy	What affects a person's lung capacity?	Experiment	1
108	Shireen Cale & Sadie Harris	Herzliah High	StyroSpore	Experiment	3
109	David Salasidis	Herzliah High	ProtoFlow	Design	2
110	Peter Katsepointes-Sampalis	North Star Academy	Wind Power - Sustainable Energy	Experiment	3
111	Gabrielle Tessier & Priya Kennedy	The Study	Solar Safe!	Design	1
112	Laura Caetano & Sabrina Hu	The Study	Solar Energy to Dye For	Experiment	3
113	Xinyi Zhang & April Sang Jia	The Study	ErgoCorrection Glove	Design	2
114	April Chen	The Study	Too Bright or Not to Blind	Experiment	2
115	Liam Ray & Max Kapusta	Selwyn House	Flame Wave	Experiment	4
116	Alex Tardif & Shawn Chen	Selwyn House	Moving Through the Air	Experiment	4
117	Lucas Cheung & Finlay MacMartin	Selwyn House	Lemon Cars	Experiment	4
118	Regan Forneck & Mathilda Keightley Karpati	Royal West Academy	Mold Growth Inhibition by Yeast Solutions on Baked Goods	Experiment	1
119	Anubhab Bhowmick & Srijith Pradeep Kumar	Royal West Academy	SmartFlow Traffic System	Design	2
120	Eolande Ma & Rebecca O'Neill	Royal West Academy	Sea the Future	Experiment	3
121	Abby Iny & Beatrice Reynolds	Royal West Academy	Powering Potential	Experiment	3
122	Talia Bouhadana & Tally Pisarevsky	Hebrew Academy	Hope for Soap	Experiment	4
123	Jacob Dahan & Aaron Hersson-Edery	Hebrew Academy	Finding the Light	Design	2
124	Aden Segal & Isaac Laredo	Hebrew Academy	Plant Power	Experiment	3
125	Eliav Sabbah	Hebrew Academy	The Tree of Light	Design	4
126	Florian Milner	Alexander von Humboldt German International School	Gaining access to locked computer	Design	2
127	Elias Kleineidam	Alexander von Humboldt German International School	What Common Paper Airplane Model is the Best?	Design	2
128	Yohann Abraham-Erhart	Alexander von Humboldt German International School	Detecting color blindness using brain signals	Experiment	1
129	Olivia Pridham & Maya Costa	Kuper Academy	Montreal Water: East vs. West	Experiment	1
130	Alexa Epure	Kuper Academy	Solar Panel Experiment	Experiment	4
131	Andy Nguyen & Hayden Ho	Kuper Academy	Clean Your Home in Style	Design	2

EXHIBITORS

Category Legend

1 - Biological and Health Sciences • 2 - Engineering, Computer Science, Robotics Applications
3 - Environment and Ecosystems • 4 - Pure Sciences • 5 - Social Sciences and Social Networks

Booth	Student Name	School	Title	Project Type	Category
132	Natalia Valente & Jasmine Thomas	Laval Senior Academy	Waste Wizard	Design	2
133	Milena Lucic & Kevin Deegan	Laval Senior Academy	The Password Converter	Design	2
134	Chiara Alongi & Dawnesha Hasrat	Laval Senior Academy	Hydro-Charger	Design	2
135	Annalia Gazzola	Laval Senior Academy	Plant Watering Solution	Design	3
136	Alexander Khairy & William Khairy	Loyola High	Riding the winds of change	Experiment	3
137	Sebastien Cernovitch	Loyola High	Flex and Protect: The effect of mobile design on splint performance	Experiment	2
138	Tameemah Nabil	Centennial Regional High	A 3D-Printed Intraoral Camera with AI-Enabled Cavity Detection for Oral Health Monitoring	Design	2
SENIOR PROJECTS					
139	Audrey Birnbaum & Megan Znaty	Herzliah High	Perceiving Without Seeing	Design	2
140	Shlomo Sorokin	Herzliah High	Terminal Copilot	Design	2
141	Olivia Cohen & Arielle Benarroch	Herzliah High	Wound Watcher	Design	1
142	Hannah Calderon	Herzliah High	Lichen-microplastics	Study	3
143	Rebecca Afriat & Benjamin Bohbot	Herzliah High	From pollution to solution	Design	4
144	Boaz Krivorot	Herzliah High	Rewing Up Efficiency	Design	2
145	Noam Levy & William Shlien	Herzliah High	Diabetes: A Path to Prevention	Experiment	1
146	Eytan Weill	Herzliah High	Voir par l'IA: Liberté Sensorielle	Design	2
147	Noah-Kai Shak & Nathaniel Sebag	Herzliah High	SSAMD	Design	2
148	Samuel Bengio De-Ocampo & Alexander Sabbah	Herzliah High	The Particle Vacuum	Experiment	4
149	Akiva Petel & Gideon Teltscher	Herzliah High	The Electric Touch	Design	2
150	Milo Sirico	Kells Academy	Superworm Breakdown	Experiment	3
151	Linnea Helbing-Mantovani	Kells Academy	A Sailor's Type of Turbine	Design	2
152	Alejandro Orive	Kells Academy	Nitinol in a exoskeleton	Design	2
153	Lyna Ben Khelifa & Charis Yuen Ching Luk	Kells Academy	Dealing with Diabetes: Artificial Pancreas	Design	2
154	Cynthia Tun & Thomas Kovalchuk	Kells Academy	Regen-Rock	Experiment	2
155	Malek Al Saffarini & Dongxu Fu	Kells Academy	Heat saver and reheating bag	Design	4
156	Sthefany He Chen	Kells Academy	Solar Energy Watering System	Design	3
157	Sayeh Nooriesfahani	Kells Academy	Do you wanna check your heart rate?	Design	1
158	Amélie Zurawski	Kells Academy	Homemade Vegan Dog Food	Experiment	1
159	Lily Jade Forget	Kells Academy	Burgers Beyond Beef	Experiment	1
160	Meichun Yan	The Study	2-Sided Growth Bottleneck	Design	5
161	Yuxuan Zheng & Yian Zhang	The Study	Rock'n'Roll: Signs of Stimming	Design	2

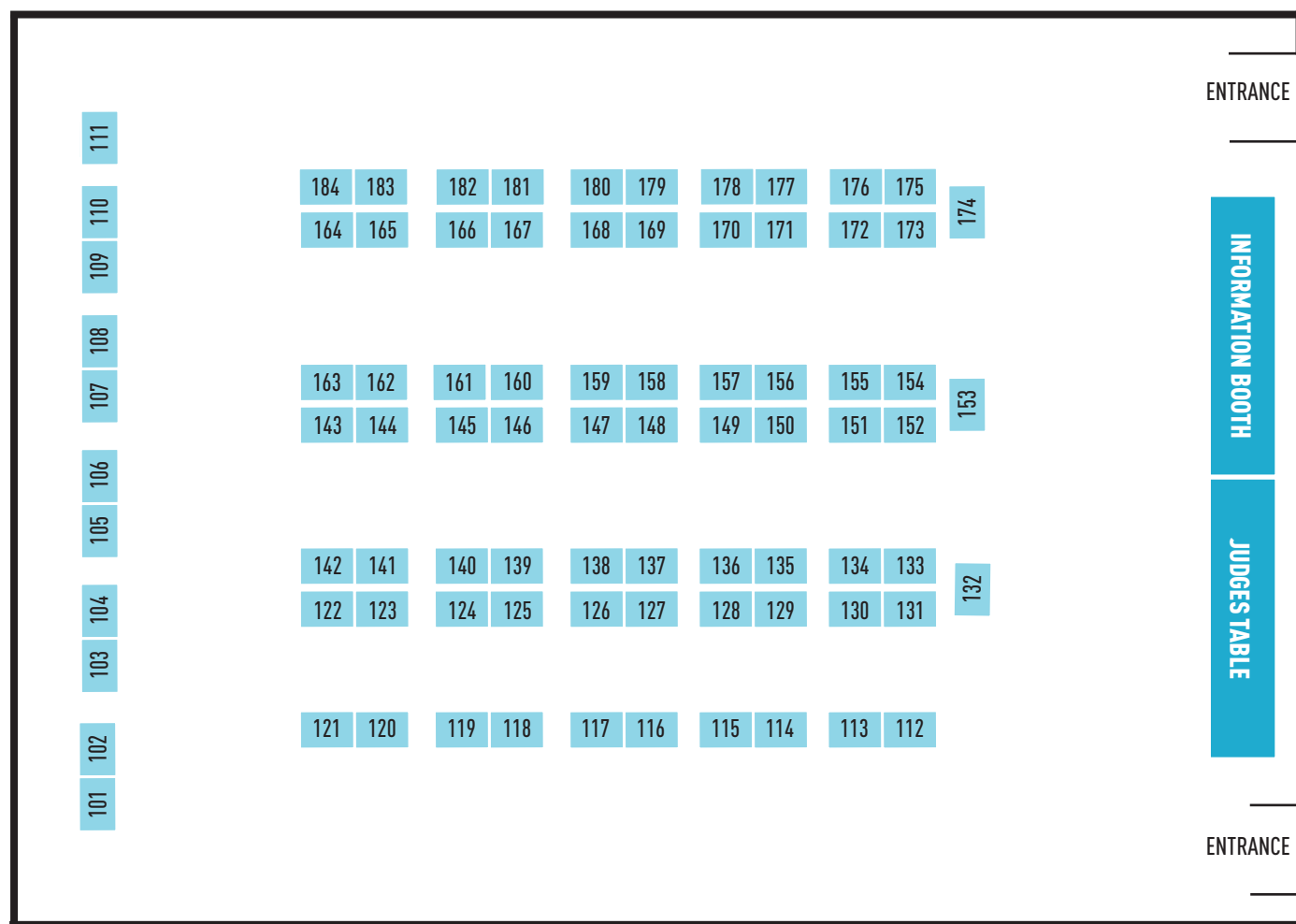
EXHIBITORS

Category Legend

1 - Biological and Health Sciences • 2 - Engineering, Computer Science, Robotics Applications
3 - Environment and Ecosystems • 4 - Pure Sciences • 5 - Social Sciences and Social Networks

Booth	Student Name	School	Project	Project Type	Category
162	Eliana Gasparrini	The Study	Doorway to Eco-Infrastructure	Design	2
163	Jacob Falvo-Schrider & Noah Vezina	Royal West Academy	Climate Compass	Design	2
164	Sae Ah Park & Sumin Woo	Royal West Academy	Pycocyanin: Bluer the Better	Experiment	1
165	Lauren Engo & Cassidy Engo	Royal West Academy	eCo2: Watt Matters	Experiment	3
166	Jake Gurevitch & Sophie Iny	Royal West Academy	Potato Plastic: A Fresh Starch	Experiment	3
167	Addison Lamontagne	Pierrefonds Community High School	The Closed Terrariums	Experiment	3
168	Jade Krackovitch-Pellatt	Pierrefonds Community High School	Spill Free: Water Clean	Design	3
169	Stephanie Cataldo & Khansa-Leena Joseph	Pierrefonds Community High School	Desalination by Reverse Osmosis	Design	2
170	Melissa Levine & Hannah Jaslovitz	Pierrefonds Community High School	Luminol Illumination	Experiment	4
171	Isolde McKay & Sophia Ross	Pierrefonds Community High School	HydroPure	Design	2
172	Abigail Faille & Madison Awasthi	Pierrefonds Community High School	Bacterial Insights: Unraveling the Significance of Antibiotics	Experiment	1
173	Lujain Hamdaqa	Pierrefonds Community High School	TouchVision: Enabling Independence Through BrailleBot	Design	2
174	Alexandra Bradley-Dull & Nicole Goodman	Miss Edgar's and Miss Cramp's	The EcoMunch Sticker	Design	3
175	Oliver Rusu	Sainte-Agathe Academy	The Battle of the Elements	Experiment	3
176	Saha Hasrat & Rashed Alsaraireh	Laval Senior Academy	Water Drop	Design	2
177	Clara Amini & Victoria Rodriguez	Laval Senior Academy	Eco Friendly Cooler	Design	3
178	Cedar Hendry	Laval Senior Academy	Paradox Project	Experiment	1
179	Nathan Aruna & Christos Velmachos	Laval Senior Academy	E.L.A.R.T. (Environmental Learning and Research Technology)	Design	2
180	Riley Wang	St. Thomas High	Making a video game from scratch	Design	2
181	Russell Novek	St. Thomas High	Turning Music Into an Image	Design	2
COLLEGE PROJECTS					
182	Laura Batal	Marianopolis College	Finding a Vaccine Against Hepatitis C: Challenges and Prospects	Study	1
183	Rahul Patel & Nathan Vong	Marianopolis College	The Biological Shield	Experiment	1
184	Shuhan Dong	Marianopolis College	Computing Model of Population Density and Carbon Cycle in a Simple Aquatic System	Design	3

EXHIBITOR FLOOR PLAN • Gyms 1 and 2



EVENT STATISTICS

PROJECT TYPE

Design	44
Experimentation	38
Study	2
Total	84

PROJECT CATEGORY

Biological & Health Sciences	17
Social Sciences & Social Networks	1
Environment and Ecosystems	21
Pure Sciences	12
Engineering, computer science, robotics applications	33

STUDENT DATA

Female	66
Male	64
Solo Projects	38
Duo Projects	46

LIST OF PARTICIPATING SCHOOLS

Alexander von Humboldt German International School	Miss Edgar's and Miss Cramp's
Centennial Regional High	North Star Academy
Hebrew Academy	Pierrefonds Community High School
Herzliah High	Royal West Academy
Kells Academy	Sainte-Agathe Academy
Laval Junior Academy	Selwyn House
Laval Senior Academy	St Thomas High
Loyola High	The Study
Marianopolis	

Thank you to all the participating schools and their dedicated teachers for encouraging these students to participate.
We look forward to seeing you next year.

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Thank you to all the Laval Senior Academy Staff, Parent & Student Volunteers who helped with this event.
We could not do it without you!

Many thanks to all of our judges who helped to evaluate the student projects.

SEE YOU NEXT YEAR!

MONTREAL REGIONAL SCIENCE AND TECHNOLOGY FAIR • MARCH 2025

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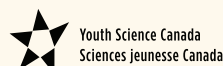
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- » Prix Chapitre Saint-Laurent ³
- » Prix du ministère des Transports et de la Mobilité durable
- » Prix Jeunesse en TI du Réseau ACTION TI - Niveau secondaire
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- » Bourse Jeune innovateur – ADRIQ
- » Prix Sanofi Biogenius Canada

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2. Finales régionales de Québec Chaudière-Appalaches, Montréal, Montérégie, Rive-Nord et Montreal Regional Science & Technology Fair

3. Finale régionale de Québec, Chaudière-Appalaches

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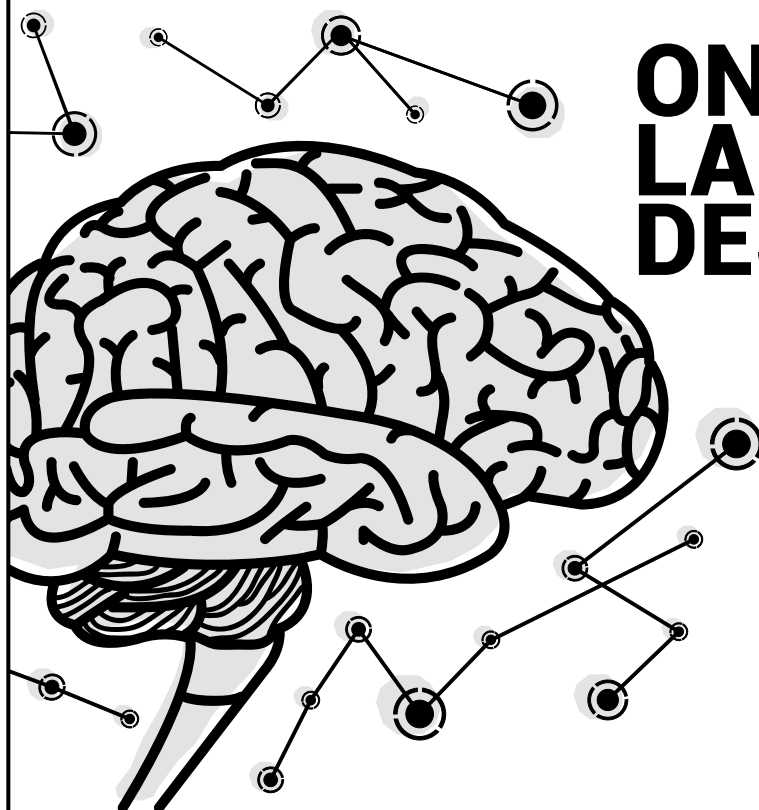
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