

Presenting partner

Hydro

Québec

EDUCATIONAL ALLIANCE FOR SCIENCE & TECHNOLOGY, REGIONAL FINAL PIERREFONDS COMMUNITY HIGH SCHOOL - MARCH 23-25, 2025

> Press Release For Immediate Release

#### Hydro-Québec Science Fair, Montreal Regional Science & Technology Fair Regional Final 2025 Secondary & Collegial Level

Several innovative projects rewarded!

Montreal, March 25, 2025 - The Hydro-Québec Science Fair, regional final of the Educational Alliance for Science & Technology (EAST) ended successfully today. During the award ceremony, the work of several exhibitors was rewarded with a value in scholarships and participation prizes of over \$15,000.

For three (3) days, we welcomed over 3,500 visitors who discovered the scientific projects of young people from different schools in the region. The public was able to talk to the 162 exhibitors, who were particularly proud of their projects.

During the awards ceremony, EAST, a member of the Technoscience Network and organizer of the event, highlighted and congratulated the talent of the next generation of regional scientists.

A project from Herzliah High School, with the theme of electricity wins first prize.

The Hydro-Québec First Prize, awarded to the best project in the competition, was presented to David Salasidis for their outreach project entitled "Blackout Blocker". Blackout Blocker is a current modulating device used to effectively reduce electricity consumption in households and businesses. The design uses a computer connected to current sensors and relays. The sensors measure the amount of electricity that is consumed by various electrical devices (outputs). The outputs are switched on and off based on the measured total current consumption with thresholds set by the user for each individual output. This device can prevent reaching or exceeding maximum building power and demand power, and can allow energy service providers to manage instances where the demand for electricity exceeds its ability to supply it.

Winners of the secondary and college level CURIUM OF BLD PUBLICATIONS AWARD Project: Blackout Blocker David Salasidis, Herzliah High School

Project: Sustainably Designed E-Bike Marc-Anthony Mourad, Laval Senior Academy

An event by



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Hydro-Québec SCIENCE FAIR	EDUCATIONAL ALLIANCE FOR SCIENCE & TECHNOLOGY, REGIONAL FINAL PIERREFONDS COMMUNITY HIGH SCHOOL - MARCH 23-25, 2025 ADRIQ Young Innovators Award Project: Blackout Blocker David Salasidis, Herzliah High School
	RÉSEAU ACTION TI-YOUTH AWARD IN INFORMATION TECHNOLOGY, COLLEGIAL LEVEL <b>Project: HASTE: Histology Automation for Swift Tissue Evaluation</b> Arielle Benarroch & Nathan Aruna, Dawson College
Presenting partner QHydro Québec	RÉSEAU ACTION TI-YOUTH AWARD IN INFORMATION TECHNOLOGY, SECONDARY LEVEL <b>Project: Sustainably Designed E-Bike</b> Marc-Anthony Mourad, Laval Senior Academy
An event by	MINISTÈRE DES TRANSPORTS ET DE LA MOBILITÉ DURABLE AWARD <b>Project: Sustainably Designed E-Bike</b> Marc-Anthony Mourad, Laval Senior Academy
ALLANCE POST LEVERAGE AND THE LEVERAGE AND THE CHARGE CARD	CANADIAN METEOROLOGICAL AND OCEANIC SOCIETY AWARD <b>Project: Al WaterBot</b> Varun Aadharsh Karthikeyan & Siddharth Mondal, Kuper Academy
	ORDER OF CHEMISTS OF QUEBEC AWARD <b>Project: Gut Instinct – Probiotic Growth</b> Qianyu Wang & Anna Maria Romanishyna, Royal West Academy
	ALCOA FOUNDATION AWARD Project: Eco-Sip Eleanor Chau & Marina de Carvalho, Miss Edgar's & Miss Cramp's School
Jointly organized with	YOUNG TALENT AWARD <b>Project: The Al Showdown</b> Adam Hamdaqa, Pierrefonds Community High School
	UNIVERSITÉ DE MONTRÉAL BURSARY <b>Project: Dementi Detect</b> Jesse Ifrah, Herzliah High School
	Project: Sustainably Designed E-Bike Marc-Anthony Mourad, Laval Senior Academy
	Educational Alliance for Science & Technnology - 220 Villeneuve St. W Montreal (Quebec) - H2T 2R7 Phone : (514) 264-7836 - <u>natasha.vitale@sciencetech.ca</u>

Hydro-Québec SCIENCE FAIR	EDUCATIONAL ALLIANCE FOR SCIENCE & TECHNOLOGY, REGIONAL FINAL PIERREFONDS COMMUNITY HIGH SCHOOL - MARCH 23-25, 2025 HYDRO-QUEBEC ENERGY AWARD Project: Blackout Blocker David Salasidis, Herzliah High School
Presenting partner QHydro Québec	MARIANOPOLIS COLLEGE SCIENCE AWARD <b>Project: Visual Attention and Performance</b> Elena Frappier-Temcheff, Sacred Heart School of Montreal <b>Project: Dirty Durability</b> Carver Secko & Filippo Navarra, Loyola High School <b>Project: Ferulic Acid and Vitamin C</b> Seokhyun Kwon & Sumin Woo, Royal West Academy
An event by	JOHN ABBOTT COLLEGE SCIENCE AWARD <b>Project: MEDImate: Don't Hesitate, Navigate First Aid!</b> Sophie Iny & Sae Ah Park, Royal West Academy DAWSON COLLEGE SCIENCE & TECHNOLOGY AWARD
ALLANCE FOR ALLANCE FOR ACTIVE AND ACTIVATION	Project: Declaring War on Deforestation Marie-Pierre Tardif, Laval Junior Academy CHAMPLAIN COLLEGE, ST. LAMBERT CAMPUS SCIENCE AWARD Project: Bio Battery Yelena Naeimi & Emily Xu, Miss Edgar's & Miss Cramp's School
Jointly organized with	VANIER COLLEGE SCIENCE AND TECHNOLOGY AWARD <b>Project: L'avenir de l'agriculture</b> Damian Lysowych & Aris Galanogeorgos, Loyola High School
PCHS To Strive To Seek To Find	SHAD CANADA PROGRAM SCHOLARSHIP <b>Project: Blackout Blocker</b> David Salasidis, Herzliah High School <b>Project: Visual Attention and Performance</b> Elena Frappier-Temcheff, Sacred Heart School of Montreal
	<ul> <li>Project: Sustainably Designed E-Bike</li> <li>Marc-Anthony Mourad, Laval Senior Academy</li> <li>Project: PILLpilot: An automatic pill dispenser</li> <li>Heli Patel &amp; Alysha Vania Azzahra, Pierrefonds Community High School</li> </ul>
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Hydro-Québec SCIENCE FAIR	EDUCATIONAL ALLIANCE FOR SCIENCE & TECHNOLOGY, REGIONAL FINAL PIERREFONDS COMMUNITY HIGH SCHOOL - MARCH 23-25, 2025 MCGILL UNIVERSITY – DEPARTMENT OF CHEMICAL ENGINEERING AWARD Project: Alarme bioluminescente marine Nathan Bailey & Thomas Wong, Loyola High School
	MCGILL UNIVERSITY – DEPARTMENT OF CIVIL ENGINEERING AWARD <b>Project: 200 Dollars Turbojet</b> Hanming Chen & Ziyi Fan, Kells Academy
Presenting partner	Project: Plant-Thing Mia Colette Passineau, Macdonald High School
	MCGILL UNIVERSITY – DEPARTMENT OF ELECTRICL & COMPUTER ENGINEERING AWARD <b>Project: Patient-Specific Artificial Intestine: Biomechanics of Auxetic</b> <b>Structures</b> Mingruifu Lin & Daniel Wei, Marianopolis College
An event by	Project: Catch the Motion Mariya Kazmi, Miss Edgar's & Miss Cramp's School
AEST EAST ALLINE FOR LEMENDALINE FLAT ALLINE FOR ALL ALLINE FOR ALL ALLINE FOR ALL ALLINE FOR ALL ALL ALLINE FOR ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	Project: ElectroLaunch Alexa Cipriani & Jake Gurevitch, Royal West Academy
EDUCATIONAL ALLIANCE FOR SCIENCE AND TECHNOLOGY	Project: LifeBand Monitor Oliver Rusu, Sainte-Agathe Academy
	MCGILL UNIVERSITY – DEPARTMENT OF MECHANICAL ENGINEERING AWARD <b>Project: Pill Popper</b> Maryam Kazmi, Miss Edgar's & Miss Cramp's School
Jointly organized with	<b>Project: Puck Launcher</b> Aidan Kerkhoven, Pierrefonds Community High School
	MCGILL UNIVERSITY – DEPARTMENT OF MINING & MATERIALS ENGINEERING AWARD <b>Project: Mapping Soil Organic Carbon Concentrations across Canada with</b> <b>Machine Learning</b> Bill Xu, Marianopolis College
	<b>Project: Dirty Durability</b> Carver Secko & Filippo Navarra, Loyola High School
	MCGILL UNIVERSITY – DEPARTMENT OF BIOENGINEERING AWARD <b>Project: HASTE: Histology Automation for Swift Tissue Evaluation</b>
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Hydro-Québec SCIENCE FAIR	EDUCATIONAL ALLIANCE FOR SCIENCE & TECHNOLOGY, REGIONAL FINAL PIERREFONDS COMMUNITY HIGH SCHOOL - MARCH 23-25, 2025 Arielle Benarroch & Nathan Aruna, Dawson College
	MCGILL UNIVERSITY – FACULTY OF ENGINEERING AWARD <b>Project: Dementi Detect</b> Jesse Ifrah, Herzliah High School
	Project: Sustainably Designed E-Bike Marc-Anthony Mourad, Laval Senior Academy
Presenting partner	Project: PILLpilot: An automatic pill dispenser Heli Patel & Alysha Vania Azzahra, Pierrefonds Community High School
Québec	Project: The Al Showdown Adam Hamdaqa, Pierrefonds Community High School
An event by	MCGILL UNIVERSITY – PROMOTING OPPORTUNITIES FOR WOMEN IN ENGINEERING (POWE) AWARD <b>Project: PILLpilot: An automatic pill dispenser</b> Heli Patel & Alysha Vania Azzahra, Pierrefonds Community High School
	MCGILL UNIVERSITY – FACULTY OF SCIENCE – ATMOSPHERIC AND OCEANIC SCIENCES AWARD <b>Project: Mapping Soil Organic Carbon Concentrations across Canada with</b> <b>Machine Learning</b> Bill Xu, Marianopolis College
	Project: Solar Stream: A Solar-Powered Water Heat Sophie Fecteau & Simone Sabourin, Pierrefonds Community High School
Jointly organized with	MCGILL UNIVERSITY – FACULTY OF SCIENCE – BIOLOGY AWARD <b>Project: Breathe-Easy: A Detection System for Vape Aerosols</b> Liam Abitbol, Herzliah High School
To Strive To Seek To Find	Project: Gut Instinct – Probiotic Growth Qianyu Wang & Anna Maria Romanishyna, Royal West Academy
	MCGILL UNIVERSITY – FACULTY OF SCIENCE – CHEMISTRY AWARD <b>Project: Ferulic Acid and Vitamin C</b> Seokhyun Kwon & Sumin Woo, Royal West Academy
	Project: Don't be salty Matej Blasch, Selwyn House School
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Hydro-Québec SCIENCE FAIR	EDUCATIONAL ALLIANCE FOR SCIENCE & TECHNOLOGY, REGIONAL FINAL PIERREFONDS COMMUNITY HIGH SCHOOL - MARCH 23-25, 2025 Project: Mobility Lift Maria Makri, Pierrefonds Community High School
	CONCORDIA UNIVERSITY – GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE AWARD <b>Project: Plasma Assisted Combustion</b> Siyu Zhang, Lower Canada College
Presenting partner QHydro Québec	CONCORDIA UNIVERSITY – GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE AWARD FOR A YOUNG WOMAN <b>Project: Thermo-science at the beach</b> Olivia Pereira & Ava Caruso, Laval Senior Academy
An event by	CONCORDIA UNIVERSITY ENTRANCE SCHOLARSHIP <b>Project: Blackout Blocker</b> David Salasidis, Herzliah High School
A CASA CASA CASA CASA CASA CASA CASA CA	<ul> <li>The competition continues: 22 will represent EAST at the 47th edition of the Super Expo-sciences Hydro-Québec, Quebec final.</li> <li>This year, the regional finals of Hydro-Québec Science Fair allow young scientists to present the fruits of their labor to a wide audience. A regional delegation, made up of 15 projects, will proudly represent EAST at the Super Expo-sciences Hydro-Québec, Québec final 2025. 22 exhibitors will enjoy this wonderful experience from April 11 to 13, 2025, at the Cégep du Vieux Montréal.</li> <li>Here are the winners who will represent the region next April:</li> </ul>
Jointly organized with	<ul> <li>Project: HASTE: Histology Automation for Swift Tissue Evaluation</li> <li>Arielle Benarroch &amp; Nathan Aruna, Dawson College</li> <li>Project: Beyond Words: Understanding the Role of Language in Healthcare</li> <li>Disparities</li> <li>Lauren Engo &amp; Cassidy Engo, Marianopolis College</li> <li>Project: Patient-Specific Artificial Intestine: Biomechanics of Auxetic</li> <li>Structures</li> </ul>
	Mingruifu Lin & Daniel Wei, Marianopolis College <b>Project: Blackout Blocker</b> David Salasidis, Herzliah High School Project: Demonti Datast
	Project: Dementi Detect Jesse Ifrah, Herzliah High School Project: When Earth Passes Gas
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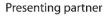


Raphael Ismailov, Lakeside Academy

**Project: Declaring War on Deforestation** Marie-Pierre Tardif, Laval Junior Academy

**Project: Sustainably Designed E-Bike** Marc-Anthony Mourad, Laval Senior Academy

**Project: Dirty Durability** Carver Secko & Filippo Navarra, Loyola High School





**Project: Eco-Sip** Eleanor Chau & Marina de Carvalho, Miss Edgar's & Miss Cramp's School

Project: Catch the Motion Mariya Kazmi, Miss Edgar's & Miss Cramp's School

**Project: PILLpilot: An automatic pill dispenser** Heli Patel & Alysha Vania Azzahra, Pierrefonds Community High School



AEST EAST Project: The Al Showdown Adam Hamdaqa, Pierrefonds Community High School

Project: MEDImate: Don't Hesitate, Navigate First Aid! Sophie Iny & Sae Ah Park, Royal West Academy

Project: LifeBand Monitor Oliver Rusu, Sainte-Agathe Academy

But the competition doesn't end there: the projects that stand out the most may be selected for the Canada-Wide Science Fair, which will take place from May 31 to June 7, 2025, in New Brunswick.

## Thanks to our partners

Jointly organized with



The Hydro-Québec Science Fair is a program of Réseau Technoscience and its member organizations. It is made possible by the support of Hydro-Québec, the presenting partner. This annual science competition is financially supported by the Ministère de l'Économie, de l'Innovation et de l'Énergie, through the NovaScience program. Réseau Technoscience also benefits from the support of major national partners such as the Fédération du personnel professionnel des universités et de la recherche (FPPU), and the Fondation Alcoa. Publications BLD is the media partner of the Hydro-Québec Science Fair.

At the Montreal Regional Science & Technology Fair, several regional partners also contributed to making the regional finals a success: Pierrefonds Community High School, Lester B. Pearson School Board, English Montreal School Board, Sir Wilfrid

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Laurier School Board, QAIS, McGill University, Concordia University, Champlain College Saint-Lambert, Vanier College, Marianopolis College, Dawson College and Shad Canada.

All information related to the Hydro-Quebec Science Fair is available on the website technoscience.ca.

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Presenting partner



# About the Educational Alliance for Science & Technology and Réseau Technoscience

The Educational Alliance for Science & Technology is a non-profit organization whose mission is to promote science and technology, especially among young people.

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With members across Quebec, Réseau Technoscience stimulates and transmits a passion for science, technology and innovation among young people, while encouraging the emergence of the next generation of scientists. Réseau Technoscience offers the following programs in particular: Expo-sciences, Défis technologiques, Les Débrouillards - Animations scientifiques and Les Innovateurs à l'école. It also distributes a number of science teaching kits and activities for primary and secondary schools. Visit the website technoscience.ca.

### About the NovaScience program

This program is designed to promote a greater understanding of science and technology among young people and the general public, and the development of the next generation of scientists and technologists.

### For further information



Jointly organized with

Natasha Vitale Director General, Educational Alliance for Science & Technology Cell: (514) E-mail: natasha.vitale@sciencetech.ca