

SUPER EXPO-SCIENCES HYDRO-QUÉBEC, QUEBEC FINAL 2024
Hydro-Québec First Prize awarded to the project
Detecting Colour Blindness Using Brain Signals, by Yohann Abraham-Erhart

Montreal, April 21, 2024 – At the close of the **2024 edition of the Super Expo-sciences Hydro-Québec**, held this weekend in collaboration with the cégep du Vieux Montréal, the members of the jury awarded the highest distinction, the **Hydro-Québec First Prize**, to the project ***Detecting Colour Blindness Using Brain Signals***, by **Yohann Abraham-Erhart**, a Secondary 2 student at the Alexander von Humboldt German International School in Baie-d'Urfé, near Montreal. Yohann walked away with a \$1,500 bursary, a trophy and a trip for two to Baie-James.

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Yohann sums up his experimental project as follows:

“My goal is to be able to detect colour blindness using an electroencephalogram (EEG) of the visual cortex. In a first step, I created a PowerPoint presentation that showed different colour combinations on a screen. Since I am colour blind, I could not tell the difference between certain colours. I used this information in the second step where I performed an EEG of the visual cortex to measure the brain waves in response to two types of stimuli: colour combinations where I can see a difference versus where I cannot see a difference.”

The judges underlined the project’s originality and its relevance both from a personal point of view and for society as a whole. The judges also highlighted the young prize-winner's talent for popularization, as well as the quality of the prototype he presented.

In addition to the Hydro-Québec First Prize, the winner also received the following awards:

- Participation in the 2024 Canada-Wide Science Fair
- Réseau Technoscience Intermediate Gold Medal, accompanied by a \$500 bursary from Fasken
- Concordia University Award: \$4,000 university scholarship

The awards ceremony also rewarded the work of many other participants by distributing over \$150,000 in prizes and bursaries.

This year, the 6 gold medalists in their respective classes will represent Quebec at the Canada-Wide Science Fair, to be held in Ottawa from May 25 to June 1, 2024.

Summaries of the projects presented at the Super Expo-sciences Hydro-Québec, Quebec final 2024, are available at technoscience.ca.

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All information about the Hydro-Québec Expo-sciences is available at technoscience.ca. Find Expo-sciences on [Facebook](#) and [Instagram](#). To make sure you don't miss anything, just follow the #osezscience keyword.

Thanks to our valued partners

The Hydro-Québec Expo-sciences is a program of Réseau Technoscience and its member organizations. Expo-sciences is made possible by the support of Hydro-Québec, the

presenting partner. This annual scientific competition is financially supported by the ministère de l'Économie, de l'Innovation et de l'Énergie, through the NovaScience program. The Technoscience Network also enjoys the support of major national partners such as the Fédération du personnel professionnel des universités et de la recherche (FPPU), the Alcoa Foundation, Fasken, Université Laval's Faculty of Science and Engineering, and Ubisoft. Publications BLD is a media partner of the Hydro-Québec Science Fairs.

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Source
Réseau Technoscience

Information and management of interviews

Clara Guillemin
COPTICOM
438-226-3262
cguillemin@copticom.ca

About Réseau Technoscience

With members across Quebec, the Réseau Technoscience's mission is to stimulate and transmit a passion for science, technology and innovation among young people, while encouraging the emergence of the next generation of scientists. Each year, nearly 150,000 young people at primary, secondary and college levels are reached by its various programs: Expo-sciences, Défis technologiques, Les Débrouillards – Animations scientifiques, l'Odyssée de l'objet and Innovateurs à l'école et à la bibliothèque. The Réseau Technoscience also distributes a number of science teaching kits and activities for primary and secondary schools. Réseau Technoscience programs are financially supported by the ministère de l'Économie, de l'Innovation et de l'Énergie, through the NovaScience program.

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.

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