

CONGRATULATIONS / FÉLICITATIONS!

2025 STUDENT PRIZE WINNERS / GAGNANTS DES PRIX POUR LES ÉTUDIANT(E)S 2025

2025 CAP HIGH SCHOOL-CÉGEP PRIZE EXAM NATIONAL WINNERS / L'EXAMEN DU SECONDAIRE OU COLLÉGIAL DE L'ACP – GAGNANTS À L'ÉCHELLE NATIONALE 2025

First prize / Premier prix	William Ma	Strathcona Composite High School, AB
Second prize / Deuxième prix	Wuhua Zhu	London International Academy, ON
Third prize / Troisième prix	Robert Yang	Walter Murray Collegiate, SK

2025 CANADA-WIDE SCIENCE FAIR PRIZES / PRIX DE L'EXPO-SCIENCES PANCANADIENNE 2025

The 2025 Canada-Wide Science Fair was held in Fredericton, NB from May 31 to June 7. This year the CAP sponsored one prize in the Senior category.



SENIOR CAP PHYSICS PRIZE – JERONE ARRISTAN AND ALAN GABRIEL, TORONTO, ON

Project: Utilizing Electromagnetic Systems for Hybrid Space Launches

Abstract: Our project is geared towards hybrid electromagnetic launches for energy efficiency and long term usage. Through electronically timed electromagnets, speed is attained without chemical propellants. The launch track involves coil windings and accurate distancing between solenoids with controlled sensory data and input voltage for accurate power cycling. To reduce atmospheric drag and friction, the launch track is placed within a vacuum tube with a graphene coating on the guided rail to reduce friction on the payload. Alongside internal tests, additional research and

proportionality calculations allowed for scalability and efficiency rate comparisons of initial phases with traditional launch systems.