

Frontenac, Lennox and Addington Science Fair

FLASF 2022 AWARD WINNERS

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Best of Fair Awards

Honourable Mention Plaques

(#2210) Canoe believe it?
Student: Misha van Anders
School: Calvin Park Public School

(#2309) Walking on Thin Ice
Student: Ryan Layton-Matthews
School: Calvin Park Public School

Bronze Plaque and Trophy

(#4101) Exposure to glyphosate-based herbicide and zebrafish fin regeneration
Student: Parmin Sedigh
School: Loyalist Collegiate and Vocational Institute

Silver Plaque and Trophy

(#2401) Discovery of Novel Gene Biomarkers to Improve CAR-T Cell Immunotherapy for Pancreatic Adenocarcinoma
Student: Anjali Patel
School: Calvin Park Public School

Gold Plaque and Queen's University Trophy

(#2315) Roofing for a Green Future
Student: Sebastien Menard
School: King's Town School



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Divisional Award Winners

Human Health Science Division Awards - Primary Age Category

Honourable Mention

(#1405) The Sounds of Concentration
Student: Kian Thakrar
School: Lakeshore School

Bronze Medals

(#1402) How Your Blood Type, Ethnicity, and Eye Colour Intertwine
Student: Kahvian Omrani
School: Lakeshore School

(#1403) Does Music Soothe Anxiety?
Student: Jayani Patel
School: Lakeshore School

Silver Medal

(#1404) Exploring the Mind's Musical Side
Student: Shreeya Darbar
School: Lakeshore School

Gold Medal

(#1406) What are the Silver Linings of COVID-19 for Elementary School Age Children?
Student: Allison Hanna
School: Kingston Christian School

Life and Earth Sciences Division Awards - Primary Age Category

Bronze Medal

(#1104) Edible Utensils
Student: Jackson Louie
School: Lakeshore School

Silver Medals

(#1102) Reducing Climate Change One Bite at a Time
Student: Erika Kabin
School: Lakeshore School



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(#1103) Wind Turbines and Wind Tunnels
Student: Dylan Williams
School: King's Town School

Gold Medal

(#1105) Project Martian
Student: Chloe Jugroot
School: King's Town School

Physical and Mathematical Sciences Division Award - Primary Age Category

Honourable Mention

(#1201) Flawed Flour or Fantastic Flour
Student: Brooke Berry
School: Lakeshore School



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Computing and Engineering Division Awards - Junior Age Category

Honourable Mention

(#2312) The Rainwheel
Student: Wylder Ballantyne
School: Calvin Park Public School

Bronze Medal

(#2316) Click Now!
Student: Echo Middaugh
School: Calvin Park Public School

Silver Medals

(#2311) The Touch Screen VS The Silver Screen
Student: Cade Sleeth
School: Calvin Park Public School

(#2313) Prosthetic Arms
Student: Sid Kumar
School: Lakeshore School

Gold Medals

(#2309) Walking on Thin Ice
Student: Ryan Layton-Matthews
School: Calvin Park Public School

(#2315) Roofing for a Green Future
Student: Sebastien Menard
School: King's Town School



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Human Health Science Division Awards - Junior Age Category

Honourable Mentions

(#2403) On the relationship between dreams and wellbeing

Student: Valerie Sun
School: Calvin Park Public School

(#2410) I CAN'T HEAR YOU!

Students: Luqmaan Brewster and Sharaf Karim
School: Calvin Park Public School

Bronze Medals

(#2405) Girls' Anxiety During the Pandemic

Student: Priya Jugoon
School: Calvin Park Public School

(#2406) The Extraordinary Duel - Dye vs Quantum Dots: Tracking its Effectiveness in Regards to Lymphoma

Student: Fareeshay Sohail
School: Calvin Park Public School

(#2424) Does presentation of food affect taste?

Student: Tvisha Pavagadhi
School: Calvin Park Public School

(#2426) What affect do my emotional states have on my body?

Student: Sage McEneany
School: Calvin Park Public School

(#2433) How COVID-19 Variants are Affecting the World

Student: Joyce Pu
School: Calvin Park Public School

Silver Medal

(#2411) Building an Artificial Pancreas

Student: Sofia de Bettignies
School: King's Town School



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Gold Medals

(#2401) Discovery of Novel Gene Biomarkers to Improve CAR-T Cell Immunotherapy for Pancreatic Adenocarcinoma

Student: Anjali Patel
School: Calvin Park Public School

(#2425) Testing the effectiveness of antimicrobial scrubs in a medical setting: Are they worth the money?

Students: Annabelle Mastorakos and Sadie Michelutti
School: Calvin Park Public School

Life and Earth Sciences Division Awards - Junior Age Category

Honourable Mentions

(#2102) Beyond Our Planet | A Study On the Possibility of Alien Life

Student: Oona Berger
School: Calvin Park Public School

(#2110) Plant Tea Party

Student: Thomas Ripmeester
School: Calvin Park Public School

(#2126) The Plates of Change

Student: Svara Patel
School: Lakeshore School

Bronze Medal

(#2129) Hydroponics & Tackling Food Security 2.0

Student: Wyatt Bailey
School: Calvin Park Public School

Silver Medals

(#2128) Water You Drinking?

Student: Zoe Nicholson
School: King's Town School

(#2133) Up or Out: An Investigation into the Energy Use of Vertical Farms

Student: Ethan Tian
School: Calvin Park Public School



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Gold Medals

(#2106) In the Minds of Horses: Colour
Students: Ines Koepl and Sarah Webster
School: Calvin Park Public School

(#2121) Will the Most Alcohol Beat Them All?
Student: Emily Nault
School: Calvin Park Public School

Physical and Mathematical Sciences Division Awards - Junior Age Category

Honourable Mentions

(#2202) Absorption of Radiant Energy by Different Colours
Student: Sebastian Amador Murillo
School: Calvin Park Public School

(#2205) Coiled Motors: Efficient or a Waste?
Student: Liam Heiden
School: Calvin Park Public School

Bronze Medal

(#2211) Bang - Imploding Cans to Understand Particle Theory
Student: Max Meleschuk
School: Calvin Park Public School

Silver Medal

(#2203) Positron Annihilation and Rocket Containment (PARC)
Student: Jacob Frank
School: Calvin Park Public School

Gold Medal

(#2215) Optimised Designs for Vertical Loops
Student: Jesse Baillie
School: Calvin Park Public School



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All Division Awards - Intermediate Age Category

Honourable Mention

(#3303) Codage du code stratégique de César, incryptage simple et effectif

Students: Tony D'Alessio and Émil Yanis Fotso-Fokam

School: École Secondaire Marie-Rivier

Silver Medals

(#3101) Sécurité routière: bactéries luminescentes

Student: Stephanie Bodog

School: École Secondaire Marie-Rivier

(#3302) Voulez-vous être attrapé par ce monsieur? Secure ton mot de passe!

Students: Blake Conod and William Levesque

School: École Secondaire Marie-Rivier

Gold Medal

(#3401) Enhanced Detection of Aggression in Alzheimer's Disease by Quantum Dots

Student: Ashmaan Sohail

School: Home School

All Division Awards - Senior Age Category

Silver Medal

(#4202) How extending a flute's head joint affects the tuning of the flute

Student: Jonah Davidson-Harden

School: Loyalist Collegiate and Vocational Institute

Gold Medals

(#4101) Exposure to glyphosate-based herbicide and zebrafish fin regeneration

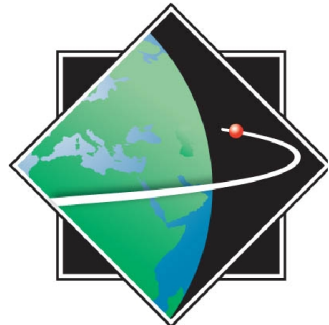
Student: Parmin Sedigh

School: Loyalist Collegiate and Vocational Institute

(#4201) Investigation on the Acoustical Signatures of Wind Turbine Noise

Student: Addison Wu

School: Loyalist Collegiate and Vocational Institute



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2022 Special Award Winners

ACFOMI Michel Sarrazin Award

\$50 Cash Prize and Certificate

(#3101) Sécurité routière: bactéries luminescentes

Student: Stephanie Bodog

School: École Secondaire Marie-Rivier

Bespoke Skin MD Award in Health Sciences

Anatomy textbook, \$50 Book Gift Card and Certificate

(#3401) Enhanced Detection of Aggression in Alzheimer's Disease by Quantum Dots

Student: Ashmaan Sohail

School: Home School

Canadian Science Fair Journal Peer Awards – Primary Category

STEM Book Prizes and Certificates

(#1103) Wind Turbines and Wind Tunnels

Student: Dylan Williams

School: King's Town School

(#1105) Project Martian

Student: Chloe Jugroot

School: King's Town School

Canadian Science Fair Journal Peer Awards – Junior Category

STEM Book Prizes and Certificates

(#2102) Beyond Our Planet | A Study On the Possibility of Alien Life

Student: Oona Berger

School: Calvin Park Public School

(#2202) Absorption of Radiant Energy by Different Colours

Student: Sebastian Amador Murillo

School: Calvin Park Public School

(#2301) Building a Simple CO2 Monitor

Student: Matthew Kabin

School: Calvin Park Public School



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(#2309) Walking on Thin Ice
Student: Ryan Layton-Matthews
School: Calvin Park Public School

Canadian Science Fair Journal Peer Award – Intermediate and Senior Categories

STEM Book Prize and Certificate

(#4202) How extending a flute's head joint affects the tuning of the flute
Student: Jonah Davidson-Harden
School: Loyalist Collegiate and Vocational Institute

City of Kingston - Best Environmental Project Award

\$100 Cash Prize

(#2129) Hydroponics & Tackling Food Security 2.0
Student: Wyatt Bailey
School: Calvin Park Public School

INVISTA (Canada) Award for Innovation and Principled Entrepreneurship – Primary Category

\$100 Cash Prize

(#1104) Edible Utensils
Student: Jackson Louie
School: Lakeshore School

INVISTA (Canada) Awards for Innovation and Principled Entrepreneurship – Junior Category

\$250 Cash Prize

(#2203) Positron Annihilation and Rocket Containment (PARC)
Student: Jacob Frank
School: Calvin Park Public School
(#2309) Walking on Thin Ice
Student: Ryan Layton-Matthews
School: Calvin Park Public School



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INVISTA (Canada) Awards for Innovation and Principled Entrepreneurship – Junior Category Runners-Up

\$175 Cash Prize

(#2303) Smart Bin: An automatic waste sorting system

Student: Shail Patel

School: Calvin Park Public School

(#2315) Roofing for a Green Future

Student: Sebastien Menard

School: King's Town School

INVISTA (Canada) Award for Innovation and Principled Entrepreneurship – Intermediate Category

\$350 Cash Prize

(#3101) Sécurité routière: bactéries luminescentes

Student: Stephanie Bodog

School: École Secondaire Marie-Rivier

Kingston Field Naturalists Award

Book Gift Certificate

(#1101) Pellet Dissection

Student: Toby Nuttall

School: King's Town School

Ontario Association of Certified Engineering Technicians and Technologists (OACETT) Award

\$100 Cash Prize and Certificate

(#2303) Smart Bin: An automatic waste sorting system

Student: Shail Patel

School: Calvin Park Public School

Professional Engineers of Ontario Award - 1st Place

\$300 Cash Prize

(#4201) Investigation on the Acoustical Signatures of Wind Turbine Noise

Student: Addison Wu

School: Loyalist Collegiate and Vocational Institute



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Professional Engineers of Ontario Award - 2nd Place

\$200 Cash Prize

(#2309) Walking on Thin Ice

Student: Ryan Layton-Matthews

School: Calvin Park Public School

Professional Engineers of Ontario Award - 3rd Place

\$100 Cash Prize

(#2303) Smart Bin: An automatic waste sorting system

Student: Shail Patel

School: Calvin Park Public School

Queen's University Department of Biology Awards

\$50 Book Prizes

(#1105) Project Martian

Student: Chloe Jugroot

School: King's Town School

(#2106) In The Minds of Horses: Colour

Students: Ines Koepl and Sarah Webster

School: Calvin Park Public School

(#4101) Exposure to glyphosate-based herbicide and zebrafish fin regeneration

Student: Parmin Sedigh

School: Loyalist Collegiate and Vocational Institute

Queen's University Department of Biology Eco-Adventure Camp Award

Week at Eco-Adventure Camp Certificate

(#2210) Canoe Believe it?

Student: Misha van Anders

School: Calvin Park Public School



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Queen's University Department of Biomedical and Molecular Sciences Award for Medicines, Drugs and Food

\$60 Cash Prize, a Certificate and a tour of Biomedical and Molecular Sciences at Queen's (#3401) Enhanced Detection of Aggression in Alzheimer's Disease by Quantum Dots

Student: Ashmaan Sohail
School: Home School

Queen's University Department of Biomedical and Molecular Sciences Awards for the Amazing Human Body

\$60 Cash Prizes, a Certificate and a tour of Biomedical and Molecular Sciences at Queen's (#2408) The "Five-Second Rule's" Effect on Bacteria Growth on Foods

Student: Freja Jowett
School: Calvin Park Public School

(#2411) Building an Artificial Pancreas

Student: Sofia de Bettignies
School: King's Town School

Queen's University Department of Biomedical and Molecular Sciences Awards for the Microscopic World

\$60 Cash Prizes, a Certificate and a tour of Biomedical and Molecular Sciences at Queen's (#2412) Caffeine - The Effects It Has on the Human Body

Student: Rofaida Elkhmri
School: Calvin Park Public School

(#2418) Hydroponic Farming

Student: Hannah Medd
School: Calvin Park Public School

Queen's University Department of Chemistry Award

\$200 Cash Prize

(#2104) Clean, Green, Energy Machine - the relationship between Photosynthesis and ATP

Students: Amanda Hussey and Shayon Majumdar
School: Calvin Park Public School



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Queen's University Department of Geography and Planning Explore Camp Award

Week at Explore Camp Certificate
(#1102) Reducing Climate Change One Bite at a Time
Student: Erika Kabin
School: Lakeshore School

Queen's University Department of Mechanical and Materials Engineering Award

\$100 Cash Prize
(#2210) Canoe Believe it?
Student: Misha van Anders
School: Calvin Park Public School

Queen's University Department of Pathology and Molecular Medicine Award - 1st Place

\$100 Cash Prize and Certificate
(#1403) Does Music Soothe Anxiety?
Student: Jayani Patel
School: Lakeshore School

Queen's University Department of Pathology and Molecular Medicine Award - 2nd Place

\$75 Cash Prize and Certificate
(#2407) Dissociative Identity Disorder (DID) Research Study
Student: Liam Lomax
School: Calvin Park Public School

Queen's University Department of Pathology and Molecular Medicine Award - 3rd Place

\$50 Cash Prize and Certificate
(#2420) The Silent Disease: Osteoporosis
Student: Riya Patel
School: Lakeshore School



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Queen's University Department of Physics, Engineering Physics and Astronomy Awards

(#2207) Effects on Magnetism
Student: Charlie Walker
School: Calvin Park Public School

(#2215) Optimised Designs for Vertical Loops
Student: Jesse Baillie
School: Calvin Park Public School

Queen's University School of Computing Award

\$100 Cash Prize

(#2303) Smart Bin: An automatic waste sorting system
Student: Shail Patel
School: Calvin Park Public School

Queen's University School of Environmental Studies Awards

\$50 Book Prizes

(#1102) Reducing Climate Change One Bite at a Time
Student: Erika Kabin
School: Lakeshore School

(#2128) Water You Drinking?
Student: Zoe Nicholson
School: King's Town School

(#2133) Up or Out: An Investigation into the Energy Use of Vertical Farms
Student: Ethan Tian
School: Calvin Park Public School

(#2315) Roofing for a Green Future
Student: Sebastien Menard
School: King's Town School



Frontenac, Lennox and Addington Science Fair

Queen's University Engineering Society Science Quest Award

Week at Science Quest Camp Certificate

(#2316) [Click Now!](#)

Student: Echo Middaugh
School: Calvin Park Public School

Queen's University Engineering Society Science Quest Award

Week at Girls' Quest Camp Certificate

(#2302) Revolutionizing Modern Freight Transportation with Zero Carbon Emissions

Student: Addison Mildenberger
School: Calvin Park Public School

Queen's University Engineering Society Science Quest Award

Week at Eco Camp Certificate

(#2309) Walking on Thin Ice

Student: Ryan Layton-Matthews
School: Calvin Park Public School

Royal Military College of Canada Department of Military Psychology and Leadership Awards

\$50 Book Prizes

(#1405) The Sounds of Concentration

Student: Kian Thakrar
School: Lakeshore School

(#2201) Their Battle Will Be Legendary: Finding The Relationship Between Maze
Dimensions And Difficulty

Student: Jack Venditti
School: Calvin Park Public School

(#2405) Girls' Anxiety During the Pandemic

Student: Priya Jugoon
School: Calvin Park Public School



Frontenac, Lennox and Addington Science Fair

Sanofi Biogenius Canada Award

\$100 Cash Prize

(#2401) Discovery of Novel Gene Biomarkers to Improve CAR-T Cell Immunotherapy for Pancreatic Adenocarcinoma

Student: Anjali Patel

School: Calvin Park Public School

St. Lawrence College Behavioural Science Award

\$100 Cash Prize

(#1102) Reducing Climate Change One Bite at a Time

Student: Erika Kabin

School: Lakeshore School

St. Lawrence College Faculty of Applied Science Award

\$100 Cash Prize

(#4101) Exposure to glyphosate-based herbicide and zebrafish fin regeneration

Student: Parmin Sedigh

School: Loyalist Collegiate and Vocational Institute

St. Lawrence College Health Science Award

\$100 Cash Prize

(#2425) Testing the effectiveness of antimicrobial scrubs in a medical setting: Are they worth the money?

Students: Annabelle Mastorakos and Sadie Michelutti

School: Calvin Park Public School

St. Lawrence College President's Award

\$100 Cash Prize

(#2315) Roofing for a Green Future

Student: Sebastien Menard

School: King's Town School

St. Lawrence College Research Department Award

\$100 Cash Prize

(#2128) Water You Drinking?

Student: Zoe Nicholson

School: King's Town School



Frontenac, Lennox and Addington Science Fair

The Leo Enright Award for Astronomy

\$100 Cash Prize and Book: Explore the Universe Guide

(#1105) Project Martian

Student: Chloe Jugroot

School: King's Town School

University of Ottawa Entrance Scholarship Award

\$1000 Entrance Scholarship

(#4101) Exposure to glyphosate-based herbicide and zebrafish fin regeneration

Student: Parmin Sedigh

School: Loyalist Collegiate and Vocational Institute