

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix de La Fondation actuarielle du Canada

Junior

Sponsor: La fondation actuarielle du Canada
500 \$ en argent comptant et un certificat

Matthew Kabin – Frontenac, Lennox & Addington – ON
Fractal Encryption: Securing anything with Sierpiński triangles

Prix de La Fondation actuarielle du Canada

Intermédiaire

Sponsor: La fondation actuarielle du Canada
750 \$ en argent comptant et un certificat

Artash Nath – Toronto – ON
The Silence of Canadian Cities: Seismic Impact of COVID-19 Lockdowns

Prix de La Fondation actuarielle du Canada

Sénior

Sponsor: La fondation actuarielle du Canada
1 000 \$ en argent comptant et un certificat

Michael Xu – Calgary Youth – AB
Multi-Agent AI System for Emergency Vehicle Preemption

Prix du Centre Beaty pour la découverte des espèces

Sénior

Sponsor: Musée canadien de la nature
1 000 \$ en argent, certificat et adhésion familiale du Musée canadien de la nature pour un an

Margaret Krawciw – Vancouver Island – BC
Meddling Microplastics : A Study of the Interactions of Microalgae and Microplastics

Prix de l'Association canadienne d'acoustique

Sénior

Sponsor: L'Association canadienne d'acoustique
1 000 \$, en argent comptant, un certificat et un abonnement au périodique trimestriel de l'Association canadienne de l'acoustique

Rohan Mehta – Simcoe County – ON
UAV Natural Disaster Detection and Human Search - Eagle i

Prix de la Société canadienne des clinico-chimistes

Sénior

Sponsor: La Société canadienne des clinico-chimistes
1 000 \$ en argent comptant et un certificat

Ethan Chan – Greater Vancouver – BC
Spinal Solution: Developing an electronic device to detect cerebrospinal fluid in the emergency room

Prix du concours junior canadien au sujet de l'eau, à Stockholm

Sénior

Sponsor: Les associations membres canadiennes de la WEF, l'Association canadienne des eaux potables et Jacobs
Participation au concours junior au sujet de l'eau présenté en ligne du 2 au 24 août 2021, pour l'élève ou les élèves du projet gagnant afin de représenter le Canada au Concours junior international au sujet de l'eau, à Stockholm. Le second et le troisième recevront chacun un prix de 300 \$.

Margaret Krawciw – Vancouver Island – BC
Meddling Microplastics : A Study of the Interactions of Microalgae and Microplastics

Taya Lee – Vancouver Island – BC
Recycling Oil From Contaminated Water Using Azolla filiculoides to Create a Biodiesel Blend

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix du jeune chercheur canadien

Sénior

Sponsor: Éditions Science Canada et « STEM Fellowship »

1 000 \$ en argent comptant et un certificat et une occasion de soumettre le projet à un examen par les pairs et de bénéficier de conseils du comité éditorial de la revue STEM Fellowship, un processus qui aboutira à la publication du projet dans la revue STEM Fellowship des Éditions Sciences Canada, le plus important éditeur scientifique au Canada.

Christoff Lee – Calgary Youth – AB

Apoptosis: a link between atrazine and decline in Daphnia magna reproduction

Prix en physique de l'ACP

Junior

Sponsor: Association canadienne des physiciens et physiciennes

500 \$ en argent comptant et un certificat

Téo L'Italien – Districts francophones du Nouveau-Brunswick – NB

Le réjuvenateur de marqueurs

Prix en physique de l'ACP

Intermédiaire

Sponsor: Association canadienne des physiciens et physiciennes

750 \$ en argent comptant et un certificat

Mitchell Clapperton – Bay Area – ON

The Creation & Optimization of a Wake Mitigation Device Using Computational Fluid Dynamics

Prix en physique de l'ACP

Sénior

Sponsor: Association canadienne des physiciens et physiciennes

1 000 \$ en argent comptant et un certificat

Adam Patton – Cariboo Mainline – BC

The Shapes of the Future - Increasing Electrode Efficiency in Electrolysis for Hydrogen Production

Prix Carlson Wagonlit

Junior

Sponsor: Carlson Wagonlit Travel

500 \$ en argent comptant et un certificat

Elise Munro – Strait – NS

Running on Air

Prix du Centre pour la durabilité du nucléaire canadien

Intermédiaire

Sponsor: Centre pour la durabilité du nucléaire canadien

750 \$ en argent comptant et un certificat

Hardit Singh – Waterloo-Wellington – ON

Specular: A Comprehensive Teleophthalmology Platform for People Centered Eyecare

Prix deutraMed pour l'innovation en chimie

Junior

Sponsor: deutraMed Inc.

500 \$ en argent comptant et un certificat

Tyson Neufeld – Northern British Columbia – BC

Microbial Fuel Cells for Improved Contaminated Soil Clean UP and Bio-Electricity Generation

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix de l'innovation en génie

Sénior

Sponsor: L'Institut canadien des ingénieurs
1 000 \$ en argent comptant et un certificat

Sarvnaz Ale Mohammad, Jin Schofield – York – ON

ConchShell: A Wearable ASL Translator Leveraging Novel Machine Learning and Computer Vision

Prix d'excellence en astronomie

Junior

Sponsor: La Société royale d'astronomie du Canada
Un télescope, un certificat et un abonnement d'un an à la SRAC

Aiyaan Faisal – Manitoba Schools Science Symposium – MB

Mea Satelles

Prix d'excellence en astronomie

Intermédiaire

Sponsor: La Société royale d'astronomie du Canada
Un télescope, un certificat et un abonnement d'un an à la SRAC

Silas Eastwood – Halifax – NS

Revolution Evolution: The Design Evolution of a Space Qualified Reaction Wheel

Prix de First Nations University of Canada (Université des Premières Nations du Canada)

Junior

Sponsor: First Nations University of Canada
500 \$ en argent comptant et un certificat

Eboni Samaha – Cariboo Mainline – BC

Medicinal Benefits of Aboriginal Plants

Prix de créativité en génie Future Motion

Intermédiaire

Sponsor: Future Motion, Inc.
750 \$ en argent comptant et un certificat et un Onewheel + XR

Luca Menard – Frontenac, Lennox & Addington – ON

An investigation into the potential of airfoils in producing extra propulsion for bicycles

Prix de créativité en génie Future Motion

Sénior

Sponsor: Future Motion, Inc.
1 000 \$ en argent comptant et un certificat et un Onewheel + XR

Zachary Ireland – Manitoba Schools Science Symposium – MB

Theoretical Solutions to the Dangers of Nuclear Power

Prix « Intact » pour la résilience aux changements climatiques

Junior

Sponsor: Intact Corporation financière
500 \$ en argent comptant et un certificat

Veronica Guo – Greater Vancouver – BC

A Novel Approach to Decomposing Polystyrene

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix « Intact » pour la résilience aux changements climatiques

Intermédiaire

Sponsor: Intact Corporation financière
750 \$ en argent comptant et un certificat

Emma Palmer – Simcoe County – ON

Silicate Solutions: Testing the Effects of Mineral Silicate Paint as an Insulation

Prix « Intact » pour la résilience aux changements climatiques

Sénior

Sponsor: Intact Corporation financière
Une somme de 1 000 \$ en argent comptant et une visite virtuelle de l'Université de Waterloo et du Centre Intact sur l'adaptation aux changements climatiques, le principal centre de recherche canadien sur la résilience au changement climatique, à Waterloo (Ontario).

Cynthia Cui – North-West New Brunswick – NB

Flood Resilience Lab

Prix de l'École d'été internationale pour les jeunes physiciens

Sénior

Sponsor: l'Institut Périmètre pour la physique théorique
Un certificat et Le prix consiste en une bourse complète pour participer à l'École d'été internationale pour les jeunes physiciens 2021 (ISSYP 2021) du 19 au 30 juillet.

Zachary Ireland – Manitoba Schools Science Symposium – MB

Theoretical Solutions to the Dangers of Nuclear Power

Prix de la fondation « Nutriments pour la vie »

Intermédiaire

Sponsor: Nutrients for Life Foundation Canada
750 \$ en argent comptant et un certificat

Alex Lea – Central Interior British Columbia – BC

Soil Remineralization - Increasing Nutrient Levels and Bio-Mass in Pasture Grasses

Prix de l'énergie renouvelable

Junior

Sponsor: Ontario Power Generation
500 \$ en argent comptant et un certificat

Ethan Chase – Greater Vancouver – BC

Wave Energy

Prix de l'énergie renouvelable

Intermédiaire

Sponsor: Ontario Power Generation
750 \$ en argent comptant et un certificat

Calvin Karthik – Peterborough – ON

A Mighty Mushroom and the Power of Poop : Testing Biogas Production using Spent Mushroom Substrate Phase 2

Prix de l'énergie renouvelable

Sénior

Sponsor: Ontario Power Generation
1 000 \$ en argent comptant et un certificat

Taya Lee – Vancouver Island – BC

Recycling Oil From Contaminated Water Using Azolla filiculoides to Create a Biodiesel Blend

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix S.M. Blair Family Foundation

Junior

Sponsor: S.M. Blair Family Foundation
500 \$ en argent comptant et un certificat

Cindy Cheng – Waterloo-Wellington – ON
A Modular Multi-Functional Wound Dressing

Prix S.M. Blair Family Foundation

Intermédiaire

Sponsor: S.M. Blair Family Foundation
750 \$ en argent comptant et un certificat

Mitchell Clapperton – Bay Area – ON
The Creation & Optimization of a Wake Mitigation Device Using Computational Fluid Dynamics

Prix S.M. Blair Family Foundation

Sénior

Sponsor: S.M. Blair Family Foundation
1 000 \$ en argent comptant et un certificat

Ethan Chan – Greater Vancouver – BC
Spinal Solution: Developing an electronic device to detect cerebrospinal fluid in the emergency room

Bourse d'étude Shad Canada

Intermédiaire

Sponsor: Shad Canada
Certificat et bourse de 1 000 \$ pour couvrir les frais de participation au programme Shad en juillet 2022

Islay Graham – Bluewater – ON
DL-T Sandwich (EX-25): A Prototype to Eat Waste Heat

Ishan Leung – South Fraser – BC
Stuck In The Middle With You: A Project on Crossing The Midline

Bruce Porter – Yukon Stikine – YT
Microplastic in Lake Fishes of Southern Yukon and Northern Stikine: A Baseline

Prix de la Société statistique du Canada

Intermédiaire

Sponsor: Société statistique du Canada
750 \$ en argent comptant et un certificat

Aarushi Bhargava – Calgary Youth – AB
The Effect of Weather on Solar Electricity Generation

Prix de la Société statistique du Canada

Sénior

Sponsor: Société statistique du Canada
1 000 \$ en argent comptant et un certificat

Allison Engo – Réseau Technoscience – QC
Saved on the Fly

Prix pour l'agriculture durable

Junior

Sponsor: 4-H du Canada
500 \$ en argent comptant et un certificat

Sophie Filion, Chloe Filion – Niagara – ON
The Automated Chicken Coop

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix pour l'innovation Ted Rogers

Intermédiaire

Sponsor: Rogers Communications Inc.

Certificat et bourse d'études complètes pour participer au Camp d'entraînement virtuel lié aux STIM de l'Université York et de Sciences jeunesse Canada en août 2021

Abel Diress, Adam Mulugeta – Ottawa – ON

Developing a Non-Invasive Inexpensive Biosensor to Predict Heart Disease

Mac Dykeman – 4-H Canada – 4H

An Innovative Approach to Reducing Biosecurity in Hatching

Paul Lee – Bay Area – ON

Development of a 3D Cursor for Robotic Arm Programming Optimization

Shayan Mahmood – Thames Valley – ON

Predicting Blood Glucose Levels in Diabetic Patients using Neural Networks

Shaun Plassery – Peterborough – ON

Phytoremediation of Crude Oil: Effect of Rhizobium and Kelp on Soybean & Wheat under Oil Stress (v2)

Patricia Rea – York – ON

BioGrade Yeast: Protecting Martian Biofactories with a Novel cfAFP-501-CcMreB Polymer

Henry Zhao – Greater Vancouver – BC

Quadruped Robot with Rough Terrain Traversal

Prix pour l'innovation Ted Rogers

Sénior

Sponsor: Rogers Communications Inc.

Certificat et bourse d'études complètes pour participer au Camp d'entraînement virtuel lié aux STIM de l'Université York et de Sciences jeunesse Canada en août 2021

Daniel Kornyo – Northern Vancouver Island – BC

EnviroHerp - Challenging Traditional Vivariums

Sabrina Mogus – Bay Area – ON

ViQ: A Wearable Sonic Vibrotactile Stimulation and Cueing Device for Individuals with Parkinson's

Michaela Stillwell, Antonia Tannert – Central Interior British Columbia – BC

Straws: Impact and Solution

Bourse de recherche de premier cycle de l'Université d'Ottawa

Sénior

Sponsor: Université d'Ottawa, Faculté des sciences

11 500 \$ research scholarship et certificat

Vansh Sethi – Ottawa – ON

A Novel Method to Predict TCR Constructs for Specific Disease Biomarkers using Deep Learning

Prix de génie de l'Université de Toronto

Intermédiaire

Sponsor: University of Toronto, Faculty of Applied Science & Engineering

Certificat et une bourse complète pour participer au défi de génie de la faculté des sciences appliquées et de génie pendant une semaine à l'été 2021. Il s'agit d'un programme virtuel en ligne d'une semaine.

Mac Dykeman – 4-H Canada – 4H

An Innovative Approach to Reducing Biosecurity in Hatching

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix de génie de l'Université de Toronto

Sénior

Sponsor: University of Toronto, Faculty of Applied Science & Engineering

Certificat et une bourse complète pour participer au défi de génie de la faculté des sciences appliquées et de génie pendant une semaine à l'été 2021. Il s'agit d'un programme virtuel en ligne d'une semaine.

Sarvnaz Ale Mohammad, Jin Schofield – York – ON

ConchShell: A Wearable ASL Translator Leveraging Novel Machine Learning and Computer Vision

Bourse d'études pour le camp d'entraînement en entrepreneuriat lié aux STIM de l'Université York

Intermédiaire

Sponsor: York University, Lassonde School of Engineering

Certificat et bourse d'études complètes pour participer au Camp d'entraînement virtuel lié aux STIM de l'Université York et de Sciences jeunesse Canada en août 2021

Hardit Singh – Waterloo-Wellington – ON

Specular: A Comprehensive Teleophthalmology Platform for People Centered Eyecare

Bourse d'études pour le camp d'entraînement en entrepreneuriat lié aux STIM de l'Université York

Sénior

Sponsor: York University, Lassonde School of Engineering

Certificat et bourse d'études complètes pour participer au Camp d'entraînement virtuel lié aux STIM de l'Université York et de Sciences jeunesse Canada en août 2021

Braxton Chan – East Kootenay – BC

Long-term results of a Novel surgical procedure for Osteochondral Defects

Andrew Mao – Toronto – ON

Rapid Detection of Concussions

Prix d'excellence - bronze

Junior

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Peter Alexis, Adrian Mak – Toronto – ON

Cracking the Radiation Code

Thomas Andersen – Central Okanagan – BC

Testing Sugar Levels in Popular Beverages

Carissa Belhomme, Darcie Fortier – Peace Country – AB

Sense Assumption

Noah Bryan – York – ON

Hand Washing Always Wins, But Why at the Cost of Dry Damaged Skin?

Rory Cohen – Simcoe County – ON

Digital Sensors In VR

Kevin Cornell – South-East New Brunswick – NB

The Better SCUBA Tank

Raipartap Curry – Fraser Valley – BC

Smart Parking

Carson Dalpke – Greater Vancouver – BC

Passive solar heating - Ancient civilizations used it, we can do it too!

Caleb Dawson – Bluewater – ON

Slow and Steady - Capillary Action

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Anabella Ferrari, Emma Sun – Halifax – NS

Distraction Reaction: The Truth Behind Multitasking

Sacha Fleury-Allen, Lucia Gastiazoro – Pacific Northwest – BC

The Spread of the Invasive Yellow Floating Heart: The root of the problem

Swas Ghosh – Northern British Columbia – BC

What pretty garments can be seen the best by dangerous drivers

Analiese Hall, Andrew Muratov – Toronto – ON

Wor-Ease Away: Reassuring Parents by Aiding in the Identification of Childhood Viral Rashes

Orpa Hawlader – Eastern Newfoundland – NL

Surface Tension on Floating Objects and Cheerios Effect

Dianna Hu – Vancouver Island – BC

Self-watering Plant Pot

Aylan Kachebi – Réseau Technoscience – QC

Les secrets de l'univers

Jonathan Leung – Greater Vancouver – BC

A Comparison of 2 Health Assessment Methods for Prunus cerasifera 'Atropurpurea'

Trissy Liu – Thames Valley – ON

The Kind Words Project

Diederik Luyt – Thames Valley – ON

Nano But Mighty: A Study of Lipid Nanoparticle Size and Function

Davin MacAskill – South-East New Brunswick – NB

Les oiseaux et la météo

Nathaniel Martin – Manitoba Schools Science Symposium – MB

Can Manitoban Crops Feed the World After Global Warming Changes Our Soil?

Abhinav Menon – Saskatoon – SK

Search for the Suitable Sodium-Ion Battery (2020)

Advai Nair – Northern British Columbia – BC

Fluoride: Good Or Bad?

Eva Salomons – Thames Valley – ON

Heating Things Up

Eboni Samaha – Cariboo Mainline – BC

Medicinal Benefits of Aboriginal Plants

Anniya Saran – Edmonton – AB

Envirodemic

Viduni Siriwardana – Greater Vancouver – BC

Energy Synthesis from Recycled Aluminum Beverage Containers

Kay Spencer – Lethbridge – AB

Pennies From Heaven

Cassidy Vieira – Winnipeg Schools – MB

My Hands are Clean. True or False?

Tara Zhan – Greater Vancouver – BC

MotionDx: Creating an Effective and Affordable Smart Pill Bottle

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Prix d'excellence - bronze

Intermédiaire

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Affaan Abid – Saskatoon – SK

Application of Spectral Analysis: A Novel Approach for Detecting Gastrointestinal Bleeding

Maya Achuthan – Edmonton – AB

A Novel Approach to CFTR Gene-Editing Through CRISPR-Cas9 Technology in Cystic Fibrosis

Oliver Baker – Annapolis Valley – NS

*Blue Mussels (*Mytilus edulis*) as Bioindicators of Plastic Contamination*

Aarushi Bhargava – Calgary Youth – AB

The Effect of Weather on Solar Electricity Generation

Antoine Blais – Réseau Technoscience – QC

Protéine Prometteuse

Pauline Botros – York – ON

A Novel Approach Towards Constructing Bioplastic Out of Natural Waste

Vera Chen – North-West New Brunswick – NB

A Novel Way to Measure Blood Electrolytes and Metabolites

Abel Diress, Adam Mulugeta – Ottawa – ON

Developing a Non-Invasive Inexpensive Biosensor to Predict Heart Disease

Justin Du – Greater Vancouver – BC

Characteristics Generation of Canadian PV Arrays by Machine Learning

Samantha Glenday – Frontier Schools – MB

Is Bio-plastic Our Future?

Islay Graham – Bluewater – ON

DL-T Sandwich (EX-25): A Prototype to Eat Waste Heat

Paola Fernanda Guzmán Pérez, Valeria Johana Vera Aviles – Mexico

DPS (Drug Protection Substance)

David Harris – Northwestern Ontario – ON

The Effects of the Cost of a Golf Ball on the Coefficient of Drag

Connor Jantzi – Waterloo-Wellington – ON

Detecting Disaster - Preventing Devastation

Debasri Jena – Southeast Alberta – AB

Dehydration Sensor

Angad Khattra – Toronto – ON

Emotion detection completed by Artificial Intelligence

Samuel Kostousov – Calgary Youth – AB

Braille E-Reader - A Proof of Concept

Alexis Kuo – Vancouver Island – BC

Exploring an Affordable and Sustainable Approach to Enhance the Effectiveness of Non-medical Masks

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Alex Lea – Central Interior British Columbia – BC
Soil Remineralization - Increasing Nutrient Levels and Bio-Mass in Pasture Grasses

Mehar Mago – Northwestern Ontario – ON
Status of Mental Health of Thunder Bay Residents During COVID-19

Marissa Magsino – Manitoba Schools Science Symposium – MB
*Optimal environmental conditions maximizing the biodegradation of polystyrene using *Tenebrio molitor**

Annika Matusch – Sudbury – ON
Cleaning up the Great Pacific Garbage Patch: Designing a Sustainable System Using Pyrolysis

Tri Nguyen – Central Alberta Rotary – AB
Automation in action - Establishing autonomous vehicle networking systems

Mark Norregaard – 4-H Canada – 4H
A Corrosion Comparison of Agricultural Disinfectants on Metals

Ria Patel – Ottawa – ON
The Final Countdown: how much longer until quantum computers become the next cybersecurity threat

Bruce Porter – Yukon Stikine – YT
Microplastic in Lake Fishes of Southern Yukon and Northern Stikine: A Baseline

Charlotte Quin – Vancouver Island – BC
Growth and Feed Consumption of Chicks supplemented by Commercial Feed and Sunflower Sprouts

Kevin Shao – Thames Valley – ON
A Novel Three-Dimensional Choreography of the Three-Body Problem Based on the Periodic Figure Eight

Ken Shibata – Toronto – ON
The Properties of Face Masks

Aarushi Vasal – Wood Buffalo – AB
Yeast In Bioremediation

Edward Xiong – Sudbury – ON
Autonomous Prevention of Bus Overcrowding and Mask Detection

Prix d'excellence - bronze

Sénior

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Aunum Abid – Saskatoon – SK
Downstream Targets of the p63 Gene and Their Roles in Oral Squamous Cell Carcinomas

Mazin Al-Ani, Adam Taback – Toronto – ON
Ocean Acidification and Buffers: A Homemade Solution

Livi Allen – Eastern Newfoundland – NL
Effect of Light Color on the Rate of Photosynthesis

Ronan Blattner – Central Interior British Columbia – BC
*Behavioural Changes and Communication in *formica fusca* colonies*

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Braxton Chan – East Kootenay – BC

Long-term results of a Novel surgical procedure for Osteochondral Defects

Cynthia Cui – North-West New Brunswick – NB

Flood Resilience Lab

Sebastian Gallegos, María Talamantes Cruz – Mexico

Phytochemical evaluation of different extracts of Bougainvillea spectabilis

Rakshit Galwa – North-West New Brunswick – NB

Impacts of Climate Change-Induced Seawater Inundation on an Agriculturally Important Soil Bacterium

Jakub Gierus – Calgary Youth – AB

Artificially Intelligent Agents for Bargaining with Private Information

Marcus Grillo – Northwestern Ontario – ON

Biofuel: A Greenhouse Gas Reducer

Amy Harrison – Bay Area – ON

The Future of Xenotransplantation

Owen Hildebrand – Niagara – ON

Investigating the Prominence of Lake Ontario Polymer Pollution via Macroplastic Recovery

Nancy Hu – Calgary Youth – AB

Development of a Software-based Method to Predict the Binding Strength of Covid-19 Mutations

Daniel Kornlyo – Northern Vancouver Island – BC

EnviroHerp - Challenging Traditional Vivariums

Arnav Kumar – Calgary Youth – AB

Prognosing Idiopathic Pulmonary Fibrosis with Machine Learning

Christoff Lee – Calgary Youth – AB

Apoptosis: a link between atrazine and decline in Daphnia magna reproduction

Jessica Livingstone – Peterborough – ON

A Mountain of Technofossils: Is This the Hill We Want to Die On?

Andrew Mao – Toronto – ON

Rapid Detection of Concussions

Maricin Marsolais Hernandez – Thames Valley – ON

The Effect of Insulin Lispro & Sucrose on Soybean Plant Resistance to Chilling Temperatures

Éliane Masson – Réseau Technoscience – QC

La santé pour 2,8 millions

Ariane Morency – Réseau Technoscience – QC

À votre sangté!

Reza Mozaffaripour – Thames Valley – ON

Automatic Estimation of Diagnostic Biomarkers for Myocardial Infarction of Left Ventricular Tissue

Jodh Singh Nahal – Cariboo Mainline – BC

Complete Remission of Chronic Diseases & Improvement in Risk Factors: 1-Year Experimental Case Study

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Greatman Okonkwo – Niagara – ON

VICS (Visual Impairment Companion System)

Hayden Persad – West Kootenay & Boundary – BC

Development of a Pathogen Barrier Device For Use in Hands-Only CPR

Kiran Prasad – Lambton County – ON

A Study on Anxiety, Depression and Technology Use of Older Adults during the COVID-19 Pandemic

Andrew Pun – Toronto – ON

A Hands-Free Neural Network Telesurgery Robot Controlled By Active Sensor-Fusion of Video & EMG Data

Nick Qiu – Eastern Newfoundland – NL

Computational Determination of the Common Vibrational Modes Responsible for Sweetness in 14 Differen

Michaela Stillwell, Antonia Tannert – Central Interior British Columbia – BC

Straws: Impact and Solution

Graydon Strachan – Winnipeg Schools – MB

Machine Learning Based Weather Cell Temperature Prediction

Robin Yadav – South Fraser – BC

Wildfire Drone Automation Using Deep Learning

Prix d'excellence - argent

Junior

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Amina Arif – Saskatoon – SK

Genetically Redesigned Tree Structures

Ethan Chase – Greater Vancouver – BC

Wave Energy

Nicholas Cheng, Daniel Guan – Toronto – ON

Drink Healthy with Less Bacteria

Aiyaan Faisal – Manitoba Schools Science Symposium – MB

Mea Satelles

Madeleine Galuga – Ottawa – ON

Découvertes dynamiques

Joti Gokaraju – Saskatoon – SK

Designing A New Flexible Electronic Substrate

Emily Jing – York – ON

Cover Me Treasure From Porch Pirates Arr!

Matthew Kabin – Frontenac, Lennox & Addington – ON

Fractal Encryption: Securing anything with Sierpiński triangles

Maryam Khanum – Northern British Columbia – BC

Enzyme Catalyzed Reactions

Téo L'Italien – Districts francophones du Nouveau-Brunswick – NB

Le réjuvenateur de marqueurs

Récipiendaires des prix

Expo-sciences pancanadienne 2021

Virtuelle – Ottawa (Ontario)



Louis Low – Bay Area – ON

Does Annoying Repetitive Sound Have an Influence on Training Effectiveness?

Krisana MacLeod – South-East New Brunswick – NB

Burning Iron - A Substitute for Carbon Based Fuels

Morgan McCourt – Bay Area – ON

Maskeria: Determining Wearing Time & Bacterial Contamination of Masks with & without Toothbrushing

Matthew Moi – Greater Vancouver – BC

Do Compostable Bags Live Up To Their Name

Tyson Neufeld – Northern British Columbia – BC

Microbial Fuel Cells for Improved Contaminated Soil Clean UP and Bio-Electricity Generation

Rowan Sutcliffe Dummitt – Peterborough – ON

Impact of Covid-19 Public Health Messaging Techniques on Adolescents

Keira Van Vliet – Calgary Youth – AB

Bioremediation of Controlled Oil Spill with Microbes

Vihaan Vashishtha – Bay Area – ON

Can We Grow Plants on Mars?

Logan Vickerson – Calgary Youth – AB

Out of the Landfill and Into the Dishwasher

Nathan Yeung – South Fraser – BC

Hyperfocus: A New Kind of Timer

Prix d'excellence - argent

Intermédiaire

Sponsor: Sciences jeunesse Canada

Médaille et un certificat

Celina Casiano, Nathaniel Casiano – Manitoba Schools Science Symposium – MB

Clean Water for All: A Sustainable and Affordable Solution

Keanu Chan – East Kootenay – BC

Novel universal Design Internal Spine Concept (NuDISC)

Mitchell Clapperton – Bay Area – ON

The Creation & Optimization of a Wake Mitigation Device Using Computational Fluid Dynamics

Krish Desai – Peel – ON

Convolutional Neural Network Ophthalmoscope for Retinal Disease Detection

Ava Fischer – Simcoe County – ON

Bee Posi: Developing an app-based solution to counteract negative screen habits

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Coagulation of Polyethylene Terephthalate (PET) Microplastics: Which Coagulant Works Best?

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Adam Patton – Cariboo Mainline – BC

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Emily Robb – Western Manitoba – MB

Grow Big or Grow Home: A Two-Year Study on Economical & Sustainable Hydroponic Yield Facilitation

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A Novel Method to Predict TCR Constructs for Specific Disease Biomarkers using Deep Learning

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Alert! – A Photosensitive Epilepsy Caution System

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The relationship between sea surface temperature and phytoplankton abundance

Efe Tascioglu – Toronto – ON

Text To Braille

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Prevention of Agrobacterium Tumor Invasion in Plants and VIR Gene Expression - Mathematical Models

Catalina van der Raadt – Calgary Youth – AB

The Effects of EGFR Mutations in Tumours on the Outcome of an Abscopal Effect

Michael Xu – Calgary Youth – AB

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Julian Hall – Waterloo-Wellington – ON
Meow!! Analysis of the Benefits of the Feline Laser Toy

Cooper LeSavage – Bluewater – ON
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Nolan McKay – Calgary Youth – AB
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CoroShield: A Physical Distancing Evaluator for the Visually Impaired

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Silas Eastwood – Halifax – NS
Revolution Evolution: The Design Evolution of a Space Qualified Reaction Wheel

Calvin Karthik – Peterborough – ON
A Mighty Mushroom and the Power of Poop : Testing Biogas Production using Spent Mushroom Substrate Phase 2

Paul Lee – Bay Area – ON
Development of a 3D Cursor for Robotic Arm Programming Optimization

Ishan Leung – South Fraser – BC
Stuck In The Middle With You: A Project on Crossing The Midline

Artash Nath – Toronto – ON
The Silence of Canadian Cities: Seismic Impact of COVID-19 Lockdowns

Patricia Rea – York – ON
BioGrade Yeast: Protecting Martian Biofactories with a Novel cfAFP-501-CcMreB Polymer

Hardit Singh – Waterloo-Wellington – ON
Specular: A Comprehensive Teleophthalmology Platform for People Centered Eyecare

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Carlynn Davidson – Winnipeg Schools – MB

Examining the Correlation Between Extracellular Vesicles and Aging

Catherine Diyakonov – Greater Vancouver – BC

Battling Oxidative Stress: The Effects of Nano-Antioxidants on Oxidizing Agent Exposure

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A Novel Evaluation of the Mutagenicity of E-cigarette Liquid and Vapour on Yeast Cells

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A Vector-Field Based Tool for Avian Mobility in Patchy Mechanistic Models of Early Pathogenic Spread

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Recycling Oil From Contaminated Water Using Azolla filiculoides to Create a Biodiesel Blend

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Vansh Sethi – Ottawa – ON

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