

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Best Project Award

Sponsor: BlackBerry
Award, \$10,000 cash

Adam Noble [19] – Peterborough ON
Silver Nano-Particle Therapy: A New Cure For Cancer

Platinum Award - Best Intermediate Project

Sponsor: BlackBerry
Award, \$5,000 cash

Alexander Deans [16] – Windsor ON
iAid: A Novel Navigation Device for the Visually Impaired

Platinum Award - Best Junior Project

Sponsor: BlackBerry
Award, \$5,000 cash

Harishitaa Prithiviraj [14] – Chignecto West NS
Divided We Fade, United We Cure!!!

Western University Scholarship

Gold Medallist - \$4000 Entrance Scholarship

Sponsor: Western University

An Entrance Scholarship of \$4000 is offered to each winner of a Gold Medal; \$2000 to each winner of a Silver Medal; and \$1000 to each winner of a Bronze Medal.

Daniel O'Reilly [13] – Central Interior British Columbia BC
Another One Bites the Dust - Part 2

Yassine Bouanane [18] – Montréal CLS QC
Un gant pour malvoyants

Duncan Stothers [15] – Greater Vancouver BC
The F.I.R.S.T. Frame (Front Impact Reduction SysTem) for Commuter Bicycles

Alexandria Schraenkler [15] – Renfrew County ON
Nyctalopia - Out of the Darkness

Alexander Deans [16] – Windsor ON
iAid: A Novel Navigation Device for the Visually Impaired

Mac Wong [12] – Winnipeg Schools MB
Building a Low-Cost Semimicro Balance

Pierre Clapperton Richard [16], **Francis-Olivier Couture** [16] – Saguenay-Lac Saint-Jean QC
EffiClasse : l'école du futur

Samantha Stuart [16] – Simcoe County ON
Project Unlike: A Novel Psychometric Screener to Quantify Facebook Overuse

Edward Wang [16] – Peel ON
Enhancing Demographic and Path-Based Analysis Using 3D Video Content Analysis

Daniel Mogilny [14] – York ON
tw-Lexa: A Social Media Analysis Algorithm

Michael Xu [17] – Manitoba Schools Science Symposium MB
A Unique Mouse Model to Understand Human Disease Progression from MDS to

Adam Noble [19] – Peterborough ON
Silver Nano-Particle Therapy: A New Cure For Cancer

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Janice Pang [15] – Greater Vancouver BC <i>Inflammation in Pancreatic Islets: Contribution of Islet Macrophages</i>
Andrew Schulz [15] – Central Interior British Columbia BC <i>Achieving Accuracy in SMBG</i>
Jessica Broder [13] – Central Okanagan BC <i>The Nose Knows</i>
Chloe Devoy [13] – Lethbridge AB <i>Résistance ou pestilence</i>
Ajantha Nadesalingam [14] – Toronto ON <i>The Active ingredient Turmeric: the Double-Edged Sword</i>
Harishitaa Prithiviraj [14] – Chignecto West NS <i>Divided We Fade, United We Cure!!!</i>
Paddy Bogart [13], Christopher Cusinato [12] – Toronto ON <i>Hockey and Bacteria Share the Same Bag</i>
Alim Parhar [13], Safal Parhar [12] – Greater Vancouver BC <i>Does Turmeric Enhance the Regeneration of Planaria maculata?</i>
Joshua MacDonald [17], Lucas Oyeniran [17] – North Bay ON <i>Triple E: The Cattail Way!</i>
Julia Sarty [16] – Halifax NS <i>Assessing Environmental Toxicities: Amphibians as Bioindicators</i>
Lauren Reid [17] – Durham ON <i>New compound MnO₂+PPy increases redox reactions to improve capacitive</i>
Meagan Fabel [17] – Windsor ON <i>Fun in the Sun! Increasing Grätzel Cell Efficiency Using Diatom Frustules</i>
Ann Makosinski [15] – Vancouver Island BC <i>The Hollow Flashlight</i>
Varsha Jayasankar [16] – Niagara ON <i>Identification of Novel Anti-Microbial Compounds in Curcuma amada</i>
Catharine Bowman [14] – Bay Area ON <i>Just The Right Light-An Investigation Using Bright/Dark Illumination Principles</i>
Andrea Chan [15], Matt Treble [16] – Vancouver Island BC <i>See, Say, Do - A Plan to Improve Reading Comprehension in Young Readers</i>
Louis-Philippe Huard [13] – Saguenay-Lac Saint-Jean QC <i>Douleur et distraction</i>
Alaina Ng [13] – Rideau-St. Lawrence ON <i>Phast Phalanges</i>

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Silver Medallist - \$2000 Entrance Scholarship

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Olivier Cloutier [16] – Est du Québec QC <i>Autopsie d'une extinction</i>

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Nathan Kuehne [15] – Vancouver Island BC <i>Biochar Optimization for Plant Growth</i>
Shannon MacLennan [15] – Strait NS <i>Sow With Gypsum; Grow With Gypsum</i>
Kelly Yang [13] – Northwestern Ontario ON <i>H2S turns flowering energy to growing new leaves</i>
Neil Kelley [13], Gavin Kerr [13] – Prince Edward Island PE <i>Medicines from Sea Squirts</i>
Anam Rizvi [17] – Wood Buffalo AB <i>Automating the Diagnosis of Heart Conditions</i>
Vicki Kleu [16] – Vancouver Island BC <i>Fully Biodegradable Adsorbent Pads to Clean Small Scale Marine Oil Spills</i>
Teal Manners [13], Sarika Sudhakar [15] – Lambton County ON <i>ChewGlu</i>
Roman Kozak [14] – Niagara ON <i>Sign Language Translator: A Human Interface Device</i>
Connor Gran [15] – Sudbury ON <i>REFLEX: The Auto Pilot</i>
Jesse Plamondon [13] – Northern British Columbia BC <i>The EZ B Controlled Rover 5 Robot for Detecting H2S</i>
Aidan Aird [13] – York ON <i>Advanced Aerodynamic Aircraft Wing System</i>
Alyssa Bunce [14] – Yukon/Stikine YT <i>Pressure Points: A New Way To Manage Stress?</i>
Kathleen Myatt [13] – Bluewater ON <i>Light My Fire</i>
Malcolm Mann [14] – South Shore NS <i>Tubercles on Sailboat Rudders: A Whale of an Idea?</i>
Alex Tomala [15] – Bay Area ON <i>MIPE: Microprocessor with Integrated Programmable Execution units</i>
Katherine Sirois [15] – Montérégie QC <i>Pour faire chuter les chutes!</i>
Vivian Li Ge Yang [13], Kelvin Zhang [13] – Greater Vancouver BC <i>Controlling Telerobots over the Web using Natural User Interface (Kinect)</i>
Shreyas Devalapurkar [17] – Manitoba Schools Science Symposium MB <i>Effect of Differential Molecular Weight Proteins in Rescue of Oxidative Damage</i>
Jielin Lu [17] – Niagara ON <i>Effects of Language Fluency and Priming: An EEG Study</i>
Atulya Madhavan [17] – Calgary Youth AB <i>Efficacy of Inhibitors In Cataract Suppression</i>
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Quand un et un font trois!
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- Ishan Aditya** [18] – Bay Area ON
Skeletal Muscle Inflammatory Cytokine Expression Predicts Metabolic Disease Risk
-
- Abhishek Chakraborty** [14] – Manitoba Schools Science Symposium MB
Effects of Folic Acid on Senescence and Migration of HeLa Cells
-
- Abhinav Dhingra** [16] – Manitoba Schools Science Symposium MB
Ellagic Acid Selectively Inhibits Cardiotoxic Effects of Chemotherapy Drug
-
- Karim Ghandour** [15] – Montréal CLS QC
Une présence mortelle?
-
- Lina Bensaidane** [16], **Kamille Leclair** [16] – Québec et Chaudière-Appalaches QC
Un effet phénolménal!
-
- Elizabeth Suen** [14] – Greater Vancouver BC
Effect of Soft Tissue on Torsional and Compressional Strength of Porcine Spines
-
- Qasim Ali** [15] – Edmonton AB
Brighten the Taste
-
- Baneet Braich** [14] – Fraser Valley BC
Asbestos in Swift Creek
-
- Marianne Drolet-Sénéchal** [14] – Estrie QC
Langage, histoire d'enfants?
-
- Zaïna Souit** [11] – Aborigène Québec Autochtone QC
Le tabagisme et la capacité fonctionnelle respiratoire
-
- Nicole Green** [13] – Central Alberta AB
Brain Candy: The Influence Of Stimulation On Your Cognitive Brain Function
-
- Bekir Buyukkocabas** [18] – Toronto ON
Utilizing Bioassays to Explore the Effects Mediated by Cigarette Butts on Plants
-
- Aaron Buckley** [18], **Daniel Penner** [18] – Waterloo-Wellington ON
The Spots in the Lots
-
- Karishini Ramamoorthi** [17], **Smruthi Ramesh** [16] – Peel ON
Prunus armeniaca: The Non-Toxic Shoreline Oil Spill Cleaner
-
- Naima Raza** [16] – Lambton County ON
Efficient Wastewater Denitrification using Simultaneous Bacterial Degradation

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Laurence Emery [14] – Peterborough ON <i>Airport Ice Protection... Helping the environment take off or crash & burn?</i>
Terra Lanteigne [14] – Halifax NS <i>Particulates MATTER: Can a catalyst prevent PM from going up in smoke?</i>
Theresa DeCola [16] – Quinte ON <i>Dreissenid Mussels – Nutrient Bio-accumulators</i>
Rushi Gandhi [13], Saharsh Hariharan [13] – Peel ON <i>Purification of Indoor Air Through Absorption of Volatile Organic Compounds</i>
Aspen Lillywhite [14] – Chinook Country AB <i>Freshwater Flow Effects On Cleanup of Potential Oil Spills</i>
Elizabeth Schulz [13] – Central Interior British Columbia BC <i>Reducing Populations of <i>Lymnae stagnalis</i></i>
Kelvin Leung [14] – Renfrew County ON <i>Wind Turbine Blade Design and Optimization</i>
Nicole Ticea [14] – Greater Vancouver BC <i>Rain, Rain, Go Away: The Piezoelectric Roof Tile</i>
Quentin Golsteyn [15] – Lethbridge AB <i>L'électricité au robinet</i>
Catherine Beaudin [12] – Ottawa ON <i>High Efficiency Solar Thermal Collector</i>
Jason Fan [17] – Bay Area ON <i>Saving the World - One Ligand at a Time: Novel <i>Streptococcus pneumoniae</i> Ligand</i>
Kelly Dong [16], Max Reed [17] – Waterloo-Wellington ON <i>The Effects of Hypoxia on Embryonic Development</i>
Kiri Daust [15] – Pacific Northwest BC <i>Going Dotty: The Distribution and Effects of Rust on Highbush Cranberry</i>
Nicole Schmidt [13] – Calgary Youth AB <i>Double Bubble, Boil and Trouble</i>
Helen Czapor [14] – Sudbury ON <i>Of Prime Importance - Testing For Prime And Composite Numbers</i>
Neha Gulati [13] – Niagara ON <i>The Future of Math Fact Mastery</i>
Nikhil Patil [14] – Waterloo-Wellington ON <i>Subliminal Stimuli - Can You Be Subliminally Misled?</i>

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Adamo Young [16] – Ottawa ON <i>Emerging <i>Fusarium</i> chemotypes: Threats to Crop Production</i>
Eloïse Chakour [17], Laurence Leblond [17] – Québec et Chaudière-Appalaches QC <i>Ça pousse dans le JELL-O!</i>

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Josie Mielhausen [18] – Bluewater ON

Reducing E. coli From The Inside Out

Kyle Potts [16] – Simcoe County ON

Flexural and Flammability Properties of Straw-Plastic Composites

Jada Baumann [15], **Kaylee Hill** [14] – Prairie Valley SK

Egg Shells = No Bacteria

Deeksha Kundapur [15] – Saskatoon SK

Carbohydrate Selection for Diet Management, Weight Control, and Disease

John Duynisveld [14] – Chignecto East NS

This Little Piggy Got Oregano

Tahir Shamji [13] – Ottawa ON

How Strong are your Clothes?

Sean Stothers [12], **William Stothers** [12] – Greater Vancouver BC

How Does Your Olla Grow?

Érika Blackburn-Verreault [20] – Saguenay-Lac Saint-Jean QC

Le son qui nous guide

Bennett Leong [17] – Calgary Youth AB

Deicing by Design

Marc-Antoine Georgiev [16] – Montérégie QC

Turboréacteur turbocompressé

Rémy Rodrigue [16], **Nicolas Tanguay** [16] – Québec et Chaudière-Appalaches QC

Cruise Control 2.0

Melissa Chopcian [16] – Lambton County ON

Improved Methods for Robotic Eye Surgery

Jerry Chen [18] – London District ON

Improved Robotic Watering System

Farouk Selouani [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB

UTUS : un système universel pour la stadification automatique du cancer

Rosaele Tremblay [18] – East Kootenay BC

Black Ice Vehicle Detector

Owen Bai [14], **Callum Mitchell** [15] – Northwestern Ontario ON

Lignin: Thermal Insulation

Gurmeen Banipal [16], **Charanpreet Mahal** [15] – Fraser Valley BC

Sensing the Way

Anna Verkhovskaya [14] – Calgary Youth AB

“Thing” The Robotic Arm

Ji Hun Kuk [14] – Lethbridge AB

Write To An A+

Kelsie Emisch [15] – Northern Saskatchewan SK

Aqua Pura: Water Purification with Household Materials

Justine Hansen [14] – Greater Vancouver BC

He Huffed, He Puffed

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Rebecca Verlaan [16] – Toronto ON

Véleau

William Preston [16] – Niagara ON

Nomadic Furniture

Ben Friesen [14] – Niagara ON

A System for the Passive Modification of the Wavelength of Light in a Greenhouse

Clay Patton [15] – Northwest Saskatchewan SK

The Cow Swatter

Garrison Fox [14] – Parkland SK

Reduce, Recoil, Reload, Redone!

Katherine Teeter [14] – Bluewater ON

Storm Surge: The Catastrophic Wave Diminution System

Nicolaas Doyle [12] – Niagara ON

Jammed Up! Investigating a Universal Jamming Gripper

Danilla Xing [13] – Ottawa ON

Lace It Up

Jack Lott [13] – Frontenac, Lennox & Addington ON

Bench the Bacteria: A Radical Sanitizing System

Sarah Scott [14] – Lambton County ON

A Compost Cure for Cold Canadian Climates

Jordan Funk [12] – Saskatchewan Chinook SK

You Can't Beat Free Heat

Krishshain Nathan [13] – Annapolis Valley NS

Automatic CPR Device

Theo Willows [12] – Bay Area ON

Atlast A Proper Controller

Declan Mowle [13] – Bluewater ON

A.R.O.C Anti-Rollover Car

Caroline Mahut [14] – Bay Area ON

Groundeffect Aircrafts: Is it a more energy efficient way to travel?

Katie Brent [14] – Bay Area ON

MARTHA: Medication Automated Reminder Technological Health Assistant

Toni Spilfogel [13] – Toronto ON

Minute Mania

Neelam Reddy [13] – Edmonton AB

Skype on Wheels

Aaron Howe [13] – Canadian Rockies AB

QR for the ER

Dimalka Ranasinghe [16] – River Valley NB

Antimicrobial and Cytotoxicity Activity of Centella asiatica

Aaron Prosper [17] – Mi'kmaq First Nation NS

Diabetes in the Mi'kmaq Population - Why such high rates?

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-
- Alex Ianta** [16] – Chignecto East NS
eyeScale: A Food Recognition System
-
- Isabelle Labeca-Gordon** [17] – Toronto ON
A Holistic Treatment for Recurring Cystitis
-
- Lauren Chan** [17] – Toronto ON
Targeting Slit-2 Robo Signaling as a Novel Therapy for Diabetic Nephropathy
-
- Hannah Boone** [16] – Eastern Newfoundland NL
Tea Time! A Breast Cancer Treatment? Green tea + omega-3 effects on cell growth
-
- Maithili Udupa** [17] – Wood Buffalo AB
Exercise for an Embryo!
-
- Jeong Ho Jang** [18] – London District ON
Gene Therapy for Epilepsy
-
- Cathy Tie** [17] – Peel ON
Characterizing RNF20 and RNF40 in Class Switching of B Cells
-
- Linda Lu** [17] – Waterloo-Wellington ON
Antioxidants Induce Severe Death to Human Normal Cells
-
- Madison Meehan** [16] – Montreal QC
Can Imodium Affect Glioma?
-
- Lilia Brahim** [15] – Côte-Nord QC
Alternative essentielle II
-
- Mattea Lee** [14], **Bristol Lewis** [15] – Calgary Youth AB
Ease Your Workout with Electrolytes
-
- Rachael McPhail** [15] – Northern British Columbia BC
To Play or Not To Play - Act II
-
- Aleksa Bjelogrić** [14] – London District ON
Arduino Based Medical Emergency Response System
-
- Kevala Van Volkenburg** [16] – Northern British Columbia BC
An Analysis of Bacteria on Drinking Fountains
-
- Adriana Bell** [15], **Natasha Poley** [15] – Toronto ON
Bacteria Hysteria
-
- Mohamad Kadri** [15] – London District ON
The Effect of Various Vitamins and Free Radicals on Seed Germination
-
- Tamara Radovic** [15] – Edmonton AB
Shaking Up the Salt Intake
-
- Amit Scheer** [14] – Ottawa ON
Overproduction of Reactive Oxygen Species: A Principal Cause of Cancer
-
- Emma DeLong** [12] – Fundy NB
The Spin Zone
-
- Esther Boersma** [14] – Bluewater ON
The Birth Order Connection
-
- Emma Hoover** [13] – Waterloo-Wellington ON
Plants That Bug Superbugs

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Eduard Brenninkmeijer [12], Blake Correia [13] – Bay Area ON
Is Your Water Pure?

Mycah De Jong [13] – Bay Area ON
Intellectual Interference

Camilla Cazalais [16] – Outaouais QC
Pergélisol : bombe climatique

Megan Nantel [18] – Greater Vancouver BC
Wild Diesel Destroyers

Kate Berger [18], Jasveen Brar [18] – Southeast Alberta AB
Environmental Distribution of Giardia and Cryptosporidium

Hannah Landry [17] – Chignecto West NS
Eggshells: Simple, Practical, Cost Efficient Remedy to Address Cadmium Pollution

Alex Rhee [16] – Peel ON
Using an 'Infinite' Energy Source to Disinfect Water

Hannah Miles [16] – Halifax NS
Coral Growth Under Artificial Light Sources

Alex Margaritescu [15], Cynthia Tran [14] – Toronto ON
Green Against Green: Bio-herbicides

Madeleine Yeomans [14] – North Bay ON
Micro-Matter, Macro-Mystery

Monica Xu [14], Nicole Zhao [14] – York ON
The Coconut Factor

Charles-Antoine Massad [14] – Montérégie QC
Ouir pour vivre

Victoria Platzer [13] – Northern British Columbia BC
They've Invaded!

Charlène Golsteyn [13] – Lethbridge AB
Marc de café, marre de jeter!

Roi Levy [13] – Toronto ON
The Effect of Temperature, Salinity and pH on Brine Shrimp Hatching Success

Graham Bohm [14] – Bay Area ON
Evading Erosion: Which Plants Are Effective at Controlling Shoreline Erosion?

Ted Stuart [14] – Simcoe County ON
Fishy Filters: Reducing Phosphorus Levels in Lakes & Rivers in Central Ontario

Kaitlyn Stockley [17], Jared Trask [18] – Eastern Newfoundland NL
Biodiesel Production Can Be a Fishy Business

Navarre Hebb [17] – Annapolis Valley NS
The Little Tube that Breathes Iron

Brandon Greenall [14] – Pacific Northwest BC
Upcycling: The Pop Can Solar Heater

Tristen Franc [14], Shelton Paul [15] – Prince Albert & Northeast Saskatchewan SK
Wind Energy

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Sabrina Hundal [15] – Peel ON

H2O: A Novel Energy Source

Stephane Chenard [16], **Brendan Samek** [16] – Peace Country AB

Piezoelectric Generator

Sierra Oakes [14] – South Shore NS

Opposites Make a Powerful Difference

Dylan Layton-Matthews [12] – Frontenac, Lennox & Addington ON

Hull of a Good Design

Olivia Cardillo [13], **Erika MacInnis** [14] – Montreal QC

Hold On to Your Hats!

Tyler Barban [12], **Joshua Rouleau** [13] – Algoma Rotary ON

Hot or Cold?

Nicole Poirier [13] – Halifax NS

Biogas from Biomass - Producing Energy From Waste Organic Material

Electra Millar [13] – Sudbury ON

Under Pressure

Abhi Gupta [13] – Windsor ON

A Mechanical Sunflower that Turns With The Sun

Kc Mooney [12] – Yukon/Stikine YT

Don't Let It Out!

Nathan Benson [17] – Saskatchewan Chinook SK

Long Term Effects of Hyper Gravity on Plant Growth

Neria Aylward [17] – Eastern Newfoundland NL

Building a Better Horseshoe

Zoe Dingeman [16], **Mahta Samani** [17] – Calgary Youth AB

Plagiarism: How Much and Why?

Beatrice Glickman [16] – Montreal QC

I Swear to Tell the Truth

Kyle Plamondon [16] – Northern British Columbia BC

Simulating The Formation and Evolution of Galactic Star Cluster Hyades

Emily Chemnitz [18] – Niagara ON

Rat Vocalization in Social Encounters

Ashlesha Deshpande [17], **Heli Patel** [17] – Wood Buffalo AB

Get Your Vote On!

William Enlow [17] – Québec et Chaudière-Appalaches QC

Des protéines et des plantes!

Duncan MacDougall [18] – Annapolis Valley NS

The Effect of Color on Memory Retention

Victor Ling [16] – London District ON

Crater Morphology as an Indicator of Martian Subsurface Ice

Brandon Doucette [17] – Conseil scolaire acadien provincial (CSAP) NS

Casiers bondés de homards

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Adrian Au [15], Christian Au [13] – Rideau-St. Lawrence ON
Hit Me With Your Best Shot

Étienne Beaulac [16] – Mauricie, Centre-du-Québec QC
Quantifier le non quantifiable

James Lees [15] – Chignecto East NS
A Star in the Hands of Humanity

Devika Vishwanath [14] – South Fraser BC
Refracting Rays

Alicia Macmillan [15] – Chignecto West NS
Electro-Grow

Kaylee Hayko [16] – Regina SK
Wonders of Waste

Nish Singh [13] – Waterloo-Wellington ON
Gosh, My House Keeps Moving!

Madison Kieffer [14] – Fundy NB
Heating it Up! Finding the Specific Solution

Victoria Taylor [12] – Central Alberta AB
Sugar in the Classroom - A Placebo-Controlled, Double-Blind Experiment

Connor MacLean [14] – Sudbury ON
Using a Gravity Well As A Simulation 2.0: Planets Orbiting a Binary Star System

Shruthi Bandi [12], Hailey Brake [12] – Prince Edward Island PE
How are Microorganisms Useful to Humans?

Jaedyn Ness [13] – Pacific Northwest BC
Coloured Cups of Cocoa

Brielle Lillywhite [12] – Chinook Country AB
How Fast Does Your Ride Glide?

University of Ottawa Entrance Scholarship

Senior Gold Medallist - \$4,000 Entrance Scholarship

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The Effects of Hypoxia on Embryonic Development

Kiri Daust [15] – Pacific Northwest BC

Going Dotty: The Distribution and Effects of Rust on Highbush Cranberry

University of Ottawa Entrance Scholarship

Senior Bronze Medallist - \$1000 Entrance Scholarship

Sponsor: University of Ottawa

The University of Ottawa offers entrance scholarships of \$4,000 to each gold medal winning senior finalist; \$2,000 to each silver medal winning senior finalist; and \$1,000 to each bronze medal winning senior finalist.

Adamo Young [16] – Ottawa ON

Emerging Fusarium chemotypes: Threats to Crop Production

Eloïse Chakour [17], Laurence Leblond [17] – Québec et Chaudière-Appalaches QC

Ça pousse dans le JELL-O!

Josie Mielhausen [18] – Bluewater ON

Reducing E. coli From The Inside Out

Kyle Potts [16] – Simcoe County ON

Flexural and Flammability Properties of Straw-Plastic Composites

Érika Blackburn-Verreault [20] – Saguenay-Lac Saint-Jean QC

Le son qui nous guide

Bennett Leong [17] – Calgary Youth AB

Deicing by Design

Marc-Antoine Georgiev [16] – Montérégie QC

Turboréacteur turbocompressé

Rémy Rodrigue [16], Nicolas Tanguay [16] – Québec et Chaudière-Appalaches QC

Cruise Control 2.0

Melissa Chopcian [16] – Lambton County ON

Improved Methods for Robotic Eye Surgery

Jerry Chen [18] – London District ON

Improved Robotic Watering System

Farouk Selouani [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB

UTUS : un système universel pour la stadification automatique du cancer

Rosaele Tremblay [18] – East Kootenay BC

Black Ice Vehicle Detector

Dimalka Ranasinghe [16] – River Valley NB

Antimicrobial and Cytotoxicity Activity of Centella asiatica

Aaron Prosper [17] – Mi'kmaq First Nation NS

Diabetes in the Mi'kmaq Population - Why such high rates?

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



-
- Alex Ianta** [16] – Chignecto East NS
eyeScale: A Food Recognition System
-
- Isabelle Labeca-Gordon** [17] – Toronto ON
A Holistic Treatment for Recurring Cystitis
-
- Lauren Chan** [17] – Toronto ON
Targeting Slit-2 Robo Signaling as a Novel Therapy for Diabetic Nephropathy
-
- Hannah Boone** [16] – Eastern Newfoundland NL
Tea Time! A Breast Cancer Treatment? Green tea + omega-3 effects on cell growth
-
- Maithili Udupa** [17] – Wood Buffalo AB
Exercise for an Embryo!
-
- Jeong Ho Jang** [18] – London District ON
Gene Therapy for Epilepsy
-
- Cathy Tie** [17] – Peel ON
Characterizing RNF20 and RNF40 in Class Switching of B Cells
-
- Linda Lu** [17] – Waterloo-Wellington ON
Antioxidants Induce Severe Death to Human Normal Cells
-
- Camilla Cazalais** [16] – Outaouais QC
Pergélisol : bombe climatique
-
- Megan Nantel** [18] – Greater Vancouver BC
Wild Diesel Destroyers
-
- Kate Berger** [18], **Jasveen Brar** [18] – Southeast Alberta AB
Environmental Distribution of Giardia and Cryptosporidium
-
- Hannah Landry** [17] – Chignecto West NS
Eggshells: Simple, Practical, Cost Efficient Remedy to Address Cadmium Pollution
-
- Alex Rhee** [16] – Peel ON
Using an 'Infinite' Energy Source to Disinfect Water
-
- Kaitlyn Stockley** [17], **Jared Trask** [18] – Eastern Newfoundland NL
Biodiesel Production Can Be a Fishy Business
-
- Navarre Hebb** [17] – Annapolis Valley NS
The Little Tube that Breathes Iron
-
- Nathan Benson** [17] – Saskatchewan Chinook SK
Long Term Effects of Hyper Gravity on Plant Growth
-
- Neria Aylward** [17] – Eastern Newfoundland NL
Building a Better Horseshoe
-
- Zoe Dingeman** [16], **Mahta Samani** [17] – Calgary Youth AB
Plagiarism: How Much and Why?
-
- Beatrice Glickman** [16] – Montreal QC
I Swear to Tell the Truth
-
- Kyle Plamondon** [16] – Northern British Columbia BC
Simulating The Formation and Evolution of Galactic Star Cluster Hyades
-
- Emily Chemnitz** [18] – Niagara ON
Rat Vocalization in Social Encounters

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Ashlesha Deshpande [17], Heli Patel [17] – Wood Buffalo AB
Get Your Vote On!

William Enlow [17] – Québec et Chaudière-Appalaches QC
Des protéines et des plantes!

Duncan MacDougall [18] – Annapolis Valley NS
The Effect of Color on Memory Retention

Victor Ling [16] – London District ON
Crater Morphology as an Indicator of Martian Subsurface Ice

Brandon Doucette [17] – Conseil scolaire acadien provincial (CSAP) NS
Casiers bondés de homards

University of Manitoba Entrance Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: University of Manitoba

The Office of the Vice-President (Research) at the University of Manitoba offers a renewable entrance scholarship for students who have been awarded a Gold Medal for a senior project at the Youth Science Canada's - Canada-Wide Science Fair.

The award is renewable, at the same value, in the second year of study provided that the recipient:

1. continues to be enrolled full-time (minimum 24 credit hours) in any faculty or school, excepting the Faculty of Graduate Studies;

Yassine Bouanane [18] – Montréal CLS QC
Un gant pour malvoyants

Pierre Clapperton Richard [16], Francis-Olivier Couture [16] – Saguenay-Lac Saint-Jean QC
EffiClasse : l'école du futur

Samantha Stuart [16] – Simcoe County ON
Project Unlike: A Novel Psychometric Screener to Quantify Facebook Overuse

Edward Wang [16] – Peel ON
Enhancing Demographic and Path-Based Analysis Using 3D Video Content Analysis

Michael Xu [17] – Manitoba Schools Science Symposium MB
A Unique Mouse Model to Understand Human Disease Progression from MDS to

Adam Noble [19] – Peterborough ON
Silver Nano-Particle Therapy: A New Cure For Cancer

Joshua MacDonald [17], Lucas Oyeniran [17] – North Bay ON
Triple E: The Cattail Way!

Lauren Reid [17] – Durham ON
New compound MnO₂+PPy increases redox reactions to improve capacitive

Meagan Fabel [17] – Windsor ON
Fun in the Sun! Increasing Grätzel Cell Efficiency Using Diatom Frustules

Varsha Jayasankar [16] – Niagara ON
Identification of Novel Anti-Microbial Compounds in Curcuma amada

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



UBC Science (Vancouver) Entrance Award

Senior Gold Medallist - \$4000 Entrance Scholarship

Sponsor: The University of British Columbia (Vancouver)

A UBC Vancouver Science entrance scholarship is offered, \$4,000 to each senior gold medalist and \$2,000 to each senior silver medalist. To be eligible for the scholarships, finalists must be admitted to the UBC Faculty of Science (Vancouver campus) and register directly from secondary school. Winners who are in grade eleven may defer the award for one year.

Yassine Bouanane [18] – Montréal CLS QC

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Fun in the Sun! Increasing Grätzel Cell Efficiency Using Diatom Frustules

Varsha Jayasankar [16] – Niagara ON

Identification of Novel Anti-Microbial Compounds in Curcuma amada

UBC Science (Vancouver) Entrance Award

Senior Silver Medallist - \$2000 Entrance Scholarship

Sponsor: The University of British Columbia (Vancouver)

A UBC Vancouver Science entrance scholarship is offered, \$4,000 to each senior gold medalist and \$2,000 to each senior silver medalist. To be eligible for the scholarships, finalists must be admitted to the UBC Faculty of Science (Vancouver campus) and register directly from secondary school. Winners who are in grade eleven may defer the award for one year.

Olivier Cloutier [16] – Est du Québec QC

Autopsie d'une extinction

Anam Rizvi [17] – Wood Buffalo AB

Automating the Diagnosis of Heart Conditions

Vicki Kleu [16] – Vancouver Island BC

Fully Biodegradable Adsorbent Pads to Clean Small Scale Marine Oil Spills

Shreyas Devalapurkar [17] – Manitoba Schools Science Symposium MB

Effect of Differential Molecular Weight Proteins in Rescue of Oxidative Damage

Jielin Lu [17] – Niagara ON

Effects of Language Fluency and Priming: An EEG Study

Atulya Madhavan [17] – Calgary Youth AB

Efficacy of Inhibitors In Cataract Suppression

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Nihad Ladoul [17], Layla Takche [16] – Montréal CLS QC
Une huile contre la scoliose!

David Drouin [19] – Québec et Chaudière-Appalaches QC
Quand un et un font trois!

Dareen El-Sayed [17] – Winnipeg Schools MB
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Mitochondrial Dysfunction as a Factor in the Progression of Alzheimer's Disease

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Bekir Buyukkocabas [18] – Toronto ON
Utilizing Bioassays to Explore the Effects Mediated by Cigarette Butts on Plants

Aaron Buckley [18], Daniel Penner [18] – Waterloo-Wellington ON
The Spots in the Lots

Karishini Ramamoorthi [17], Smruthi Ramesh [16] – Peel ON
Prunus armeniaca: The Non-Toxic Shoreline Oil Spill Cleaner

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Dalhousie University Faculty of Science Entrance Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: Dalhousie University, Faculty of Science

A Dalhousie University Faculty of Science entrance scholarship of \$5,000 is offered to each gold medal winning senior finalist. A Dalhousie University Faculty of Science entrance scholarship of \$2,500 is offered to each silver medal winning senior finalist.

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Canada-Wide Science Fair 2013

Lethbridge, Alberta



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Dalhousie University Faculty of Science Entrance Scholarship

Senior Silver Medallist - \$2500 Entrance Scholarship

Sponsor: Dalhousie University, Faculty of Science

A Dalhousie University Faculty of Science entrance scholarship of \$5,000 is offered to each gold medal winning senior finalist. A Dalhousie University Faculty of Science entrance scholarship of \$2,500 is offered to each silver medal winning senior finalist.

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Canada-Wide Science Fair 2013

Lethbridge, Alberta



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Going Dotty: The Distribution and Effects of Rust on Highbush Cranberry

Excellence Award - Senior

Gold Medal

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

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Varsha Jayasankar [16] – Niagara ON

Identification of Novel Anti-Microbial Compounds in Curcuma amada

Excellence Award - Intermediate

Gold Medal

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

Duncan Stothers [15] – Greater Vancouver BC

The F.I.R.S.T. Frame (Front Impact Reduction SysTem) for Commuter Bicycles

Alexandria Schraenkler [15] – Renfrew County ON

Nyctalopia - Out of the Darkness

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Alexander Deans [16] – Windsor ON

iAid: A Novel Navigation Device for the Visually Impaired

Daniel Mogilny [14] – York ON

tw-Lexa: A Social Media Analysis Algorithm

Janice Pang [15] – Greater Vancouver BC

Inflammation in Pancreatic Islets: Contribution of Islet Macrophages

Andrew Schulz [15] – Central Interior British Columbia BC

Achieving Accuracy in SMBG

Julia Sarty [16] – Halifax NS

Assessing Environmental Toxicities: Amphibians as Bioindicators

Ann Makosinski [15] – Vancouver Island BC

The Hollow Flashlight

Catharine Bowman [14] – Bay Area ON

Just The Right Light-An Investigation Using Bright/Dark Illumination Principles

Andrea Chan [15], **Matt Treble** [16] – Vancouver Island BC

See, Say, Do - A Plan to Improve Reading Comprehension in Young Readers

Excellence Award - Junior

Gold Medal

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

Daniel O'Reilly [13] – Central Interior British Columbia BC

Another One Bites the Dust - Part 2

Mac Wong [12] – Winnipeg Schools MB

Building a Low-Cost Semimicro Balance

Jessica Broder [13] – Central Okanagan BC

The Nose Knows

Chloe Devoy [13] – Lethbridge AB

Résistance ou pestilence

Ajantha Nadesalingam [14] – Toronto ON

The Active ingredient Turmeric: the Double-Edged Sword

Harishitaa Prithviraj [14] – Chignecto West NS

Divided We Fade, United We Cure!!!

Paddy Bogart [13], **Christopher Cusinato** [12] – Toronto ON

Hockey and Bacteria Share the Same Bag

Alim Parhar [13], **Safal Parhar** [12] – Greater Vancouver BC

Does Turmeric Enhance the Regeneration of Planaria maculata?

Louis-Philippe Huard [13] – Saguenay-Lac Saint-Jean QC

Douleur et distraction

Alaina Ng [13] – Rideau-St. Lawrence ON

Phast Phalanges

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Excellence Award - Senior

Silver Medal

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

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Autopsie d'une extinction

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Kelly Dong [16], **Max Reed** [17] – Waterloo-Wellington ON

The Effects of Hypoxia on Embryonic Development

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Kiri Daust [15] – Pacific Northwest BC
Going Dotty: The Distribution and Effects of Rust on Highbush Cranberry

Excellence Award - Intermediate

Silver Medal

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

Nathan Kuehne [15] – Vancouver Island BC
Biochar Optimization for Plant Growth

Shannon MacLennan [15] – Strait NS
Sow With Gypsum; Grow With Gypsum

Teal Manners [13], **Sarika Sudhakar** [15] – Lambton County ON
ChewGlu

Roman Kozak [14] – Niagara ON
Sign Language Translator: A Human Interface Device

Connor Gran [15] – Sudbury ON
REFLEX: The Auto Pilot

Alex Tomala [15] – Bay Area ON
MIPE: Microprocessor with Integrated Programmable Execution units

Katherine Sirois [15] – Montérégie QC
Pour faire chuter les chutes!

Abhishek Chakraborty [14] – Manitoba Schools Science Symposium MB
Effects of Folic Acid on Senescence and Migration of HeLa Cells

Abhinav Dhingra [16] – Manitoba Schools Science Symposium MB
Ellagic Acid Selectively Inhibits Cardiotoxic Effects of Chemotherapy Drug

Karim Ghandour [15] – Montréal CLS QC
Une présence mortelle?

Lina Bensaidane [16], **Kamille Leclair** [16] – Québec et Chaudière-Appalaches QC
Un effet phénolména!

Elizabeth Suen [14] – Greater Vancouver BC
Effect of Soft Tissue on Torsional and Compressional Strength of Porcine Spines

Qasim Ali [15] – Edmonton AB
Brighten the Taste

Naima Raza [16] – Lambton County ON
Efficient Wastewater Denitrification using Simultaneous Bacterial Degradation

Laurence Emery [14] – Peterborough ON
Airport Ice Protection... Helping the environment take off or crash & burn?

Terra Lanteigne [14] – Halifax NS
Particulates MATTER: Can a catalyst prevent PM from going up in smoke?

Theresa DeCola [16] – Quinte ON
Dreissenid Mussels – Nutrient Bio-accumulators

Kelvin Leung [14] – Renfrew County ON
Wind Turbine Blade Design and Optimization

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Nicole Ticea [14] – Greater Vancouver BC
Rain, Rain, Go Away: The Piezoelectric Roof Tile

Quentin Golsteyn [15] – Lethbridge AB
L'électricité au robinet

Excellence Award - Junior

Silver Medal

Sponsor: Youth Science Canada
Medal, \$300 cash & certificate

Kelly Yang [13] – Northwestern Ontario ON
H2S turns flowering energy to growing new leaves

Neil Kelley [13], **Gavin Kerr** [13] – Prince Edward Island PE
Medicines from Sea Squirts

Jesse Plamondon [13] – Northern British Columbia BC
The EZ B Controlled Rover 5 Robot for Detecting H2S

Aidan Aird [13] – York ON
Advanced Aerodynamic Aircraft Wing System

Alyssa Bunce [14] – Yukon/Stikine YT
Pressure Points: A New Way To Manage Stress?

Kathleen Myatt [13] – Bluewater ON
Light My Fire

Malcolm Mann [14] – South Shore NS
Tubercles on Sailboat Rudders: A Whale of an Idea?

Vivian Li Ge Yang [13], **Kelvin Zhang** [13] – Greater Vancouver BC
Controlling Telerobots over the Web using Natural User Interface (Kinect)

Baneet Braich [14] – Fraser Valley BC
Asbestos in Swift Creek

Marianne Drolet-Sénéchal [14] – Estrie QC
Langage, histoire d'enfants?

Zaï nab Souit [11] – Aboriginal Québec Autochtone QC
Le tabagisme et la capacité fonctionnelle respiratoire

Nicole Green [13] – Central Alberta AB
Brain Candy: The Influence Of Stimulation On Your Cognitive Brain Function

Rushi Gandhi [13], **Saharsh Hariharan** [13] – Peel ON
Purification of Indoor Air Through Absorption of Volatile Organic Compounds

Aspen Lillywhite [14] – Chinook Country AB
Freshwater Flow Effects On Cleanup of Potential Oil Spills

Elizabeth Schulz [13] – Central Interior British Columbia BC
*Reducing Populations of *Lymnae stagnalis**

Catherine Beaudin [12] – Ottawa ON
High Efficiency Solar Thermal Collector

Nicole Schmidt [13] – Calgary Youth AB
Double Bubble, Boil and Trouble

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Helen Czapor [14] – Sudbury ON
Of Prime Importance - Testing For Prime And Composite Numbers

Neha Gulati [13] – Niagara ON
The Future of Math Fact Mastery

Nikhil Patil [14] – Waterloo-Wellington ON
Subliminal Stimuli - Can You Be Subliminally Misled?

Excellence Award - Senior

Bronze Medal

Sponsor: Youth Science Canada
Medal, \$100 cash & certificate

Adamo Young [16] – Ottawa ON
Emerging Fusarium chemotypes: Threats to Crop Production

Eloïse Chakour [17], **Laurence Leblond** [17] – Québec et Chaudière-Appalaches QC
Ça pousse dans le JELL-O!

Josie Mielhausen [18] – Bluewater ON
Reducing E. coli From The Inside Out

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Flexural and Flammability Properties of Straw-Plastic Composites

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Deicing by Design

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Turboréacteur turbocompressé

Rémy Rodrigue [16], **Nicolas Tanguay** [16] – Québec et Chaudière-Appalaches QC
Cruise Control 2.0

Melissa Chopcian [16] – Lambton County ON
Improved Methods for Robotic Eye Surgery

Jerry Chen [18] – London District ON
Improved Robotic Watering System

Farouk Selouani [17] – Districts francophones du Nouveau-Brunswick (DFNB) NB
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Dimalka Ranasinghe [16] – River Valley NB
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Aaron Prosper [17] – Mi'kmaq First Nation NS
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-
- Cathy Tie** [17] – Peel ON
Characterizing RNF20 and RNF40 in Class Switching of B Cells
-
- Linda Lu** [17] – Waterloo-Wellington ON
Antioxidants Induce Severe Death to Human Normal Cells
-
- Camilla Cazalais** [16] – Outaouais QC
Pergélisol : bombe climatique
-
- Megan Nantel** [18] – Greater Vancouver BC
Wild Diesel Destroyers
-
- Kate Berger** [18], **Jasveen Brar** [18] – Southeast Alberta AB
Environmental Distribution of Giardia and Cryptosporidium
-
- Hannah Landry** [17] – Chignecto West NS
Eggshells: Simple, Practical, Cost Efficient Remedy to Address Cadmium Pollution
-
- Alex Rhee** [16] – Peel ON
Using an 'Infinite' Energy Source to Disinfect Water
-
- Kaitlyn Stockley** [17], **Jared Trask** [18] – Eastern Newfoundland NL
Biodiesel Production Can Be a Fishy Business
-
- Navarre Hebb** [17] – Annapolis Valley NS
The Little Tube that Breathes Iron
-
- Nathan Benson** [17] – Saskatchewan Chinook SK
Long Term Effects of Hyper Gravity on Plant Growth
-
- Neria Aylward** [17] – Eastern Newfoundland NL
Building a Better Horseshoe
-
- Zoe Dingeman** [16], **Mahta Samani** [17] – Calgary Youth AB
Plagiarism: How Much and Why?
-
- Beatrice Glickman** [16] – Montreal QC
I Swear to Tell the Truth
-
- Kyle Plamondon** [16] – Northern British Columbia BC
Simulating The Formation and Evolution of Galactic Star Cluster Hyades
-
- Emily Chemnitz** [18] – Niagara ON
Rat Vocalization in Social Encounters
-
- Ashlesha Deshpande** [17], **Heli Patel** [17] – Wood Buffalo AB
Get Your Vote On!
-
- William Enlow** [17] – Québec et Chaudière-Appalaches QC
Des protéines et des plantes!

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Duncan MacDougall [18] – Annapolis Valley NS

The Effect of Color on Memory Retention

Victor Ling [16] – London District ON

Crater Morphology as an Indicator of Martian Subsurface Ice

Brandon Doucette [17] – Conseil scolaire acadien provincial (CSAP) NS

Casiers bondés de homards

Excellence Award - Intermediate

Bronze Medal

Sponsor: Youth Science Canada

Medal, \$100 cash & certificate

Jada Baumann [15], **Kaylee Hill** [14] – Prairie Valley SK

Egg Shells = No Bacteria

Deeksha Kundapur [15] – Saskatoon SK

Carbohydrate Selection for Diet Management, Weight Control, and Disease

Owen Bai [14], **Callum Mitchell** [15] – Northwestern Ontario ON

Lignin: Thermal Insulation

Gurmeen Banipal [16], **Charanpreet Mahal** [15] – Fraser Valley BC

Sensing the Way

Anna Verkhovskaya [14] – Calgary Youth AB

"Thing" The Robotic Arm

Ji Hun Kuk [14] – Lethbridge AB

Write To An A+

Kelsie Emisch [15] – Northern Saskatchewan SK

Aqua Pura: Water Purification with Household Materials

Justine Hansen [14] – Greater Vancouver BC

He Huffed, He Puffed

Rebecca Verlaan [16] – Toronto ON

Véleau

William Preston [16] – Niagara ON

Nomadic Furniture

Ben Friesen [14] – Niagara ON

A System for the Passive Modification of the Wavelength of Light in a Greenhouse

Clay Patton [15] – Northwest Saskatchewan SK

The Cow Swatter

Garrison Fox [14] – Parkland SK

Reduce, Recoil, Reload, Redone!

Katherine Teeter [14] – Bluewater ON

Storm Surge: The Catastrophic Wave Diminution System

Katie Brent [14] – Bay Area ON

MARTHA: Medication Automated Reminder Technological Health Assistant

Madison Meehan [16] – Montreal QC

Can Imodium Affect Glioma?

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Lilia Brahimi [15] – Côte-Nord QC
Alternative essentielle II

Mattea Lee [14], **Bristol Lewis** [15] – Calgary Youth AB
Ease Your Workout with Electrolytes

Rachael McPhail [15] – Northern British Columbia BC
To Play or Not To Play - Act II

Aleksa Bjelogric [14] – London District ON
Arduino Based Medical Emergency Response System

Kevala Van Volkenburg [16] – Northern British Columbia BC
An Analysis of Bacteria on Drinking Fountains

Adriana Bell [15], **Natasha Poley** [15] – Toronto ON
Bacteria Hysteria

Mohamad Kadri [15] – London District ON
The Effect of Various Vitamins and Free Radicals on Seed Germination

Tamara Radovic [15] – Edmonton AB
Shaking Up the Salt Intake

Amit Scheer [14] – Ottawa ON
Overproduction of Reactive Oxygen Species: A Principal Cause of Cancer

Hannah Miles [16] – Halifax NS
Coral Growth Under Artificial Light Sources

Alex Margaritescu [15], **Cynthia Tran** [14] – Toronto ON
Green Against Green: Bio-herbicides

Madeleine Yeomans [14] – North Bay ON
Micro-Matter, Macro-Mystery

Monica Xu [14], **Nicole Zhao** [14] – York ON
The Coconut Factor

Brandon Greenall [14] – Pacific Northwest BC
Upcycling: The Pop Can Solar Heater

Tristen Franc [14], **Shelton Paul** [15] – Prince Albert & Northeast Saskatchewan SK
Wind Energy

Sabrina Hundal [15] – Peel ON
H2O: A Novel Energy Source

Stephane Chenard [16], **Brendan Samek** [16] – Peace Country AB
Piezoelectric Generator

Sierra Oakes [14] – South Shore NS
Opposites Make a Powerful Difference

Adrian Au [15], **Christian Au** [13] – Rideau-St. Lawrence ON
Hit Me With Your Best Shot

Étienne Beaulac [16] – Mauricie, Centre-du-Québec QC
Quantifier le non quantifiable

James Lees [15] – Chignecto East NS
A Star in the Hands of Humanity

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Devika Vishwanath [14] – South Fraser BC
Refracting Rays

Alicia Macmillan [15] – Chignecto West NS
Electro-Grow

Kaylee Hayko [16] – Regina SK
Wonders of Waste

Excellence Award - Junior

Bronze Medal

Sponsor: Youth Science Canada
Medal, \$100 cash & certificate

John Duynisveld [14] – Chignecto East NS
This Little Piggy Got Oregano

Tahir Shamji [13] – Ottawa ON
How Strong are your Clothes?

Sean Stothers [12], **William Stothers** [12] – Greater Vancouver BC
How Does Your Olla Grow?

Nicolaas Doyle [12] – Niagara ON
Jammed Up! Investigating a Universal Jamming Gripper

Danilla Xing [13] – Ottawa ON
Lace It Up

Jack Lott [13] – Frontenac, Lennox & Addington ON
Bench the Bacteria: A Radical Sanitizing System

Sarah Scott [14] – Lambton County ON
A Compost Cure for Cold Canadian Climates

Jordan Funk [12] – Saskatchewan Chinook SK
You Can't Beat Free Heat

Krishshain Nathan [13] – Annapolis Valley NS
Automatic CPR Device

Theo Willows [12] – Bay Area ON
Atlast A Proper Controller

Declan Mowle [13] – Bluewater ON
A.R.O.C Anti-Rollover Car

Caroline Mahut [14] – Bay Area ON
Groundeffect Aircrafts: Is it a more energy efficient way to travel?

Toni Spilfogel [13] – Toronto ON
Minute Mania

Neelam Reddy [13] – Edmonton AB
Skype on Wheels

Aaron Howe [13] – Canadian Rockies AB
QR for the ER

Emma DeLong [12] – Fundy NB
The Spin Zone

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Esther Boersma [14] – Bluewater ON

The Birth Order Connection

Emma Hoover [13] – Waterloo-Wellington ON

Plants That Bug Superbugs

Eduard Brenninkmeijer [12], **Blake Correia** [13] – Bay Area ON

Is Your Water Pure?

Mycah De Jong [13] – Bay Area ON

Intellectual Interference

Charles-Antoine Massad [14] – Montérégie QC

Ouir pour vivre

Victoria Platzer [13] – Northern British Columbia BC

They've Invaded!

Charlène Golsteyn [13] – Lethbridge AB

Marc de café, marre de jeter!

Roi Levy [13] – Toronto ON

The Effect of Temperature, Salinity and pH on Brine Shrimp Hatching Success

Graham Bohm [14] – Bay Area ON

Evading Erosion: Which Plants Are Effective at Controlling Shoreline Erosion?

Ted Stuart [14] – Simcoe County ON

Fishy Filters: Reducing Phosphorus Levels in Lakes & Rivers in Central Ontario

Dylan Layton-Matthews [12] – Frontenac, Lennox & Addington ON

Hull of a Good Design

Olivia Cardillo [13], **Erika MacInnis** [14] – Montreal QC

Hold On to Your Hats!

Tyler Barban [12], **Joshua Rouleau** [13] – Algoma Rotary ON

Hot or Cold?

Nicole Poirier [13] – Halifax NS

Biogas from Biomass - Producing Energy From Waste Organic Material

Electra Millar [13] – Sudbury ON

Under Pressure

Abhi Gupta [13] – Windsor ON

A Mechanical Sunflower that Turns With The Sun

Kc Mooney [12] – Yukon/Stikine YT

Don't Let It Out!

Nish Singh [13] – Waterloo-Wellington ON

Gosh, My House Keeps Moving!

Madison Kieffer [14] – Fundy NB

Heating it Up! Finding the Specific Solution

Victoria Taylor [12] – Central Alberta AB

Sugar in the Classroom - A Placebo-Controlled, Double-Blind Experiment

Connor MacLean [14] – Sudbury ON

Using a Gravity Well As A Simulation 2.0: Planets Orbiting a Binary Star System

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Shruthi Bandi [12], Hailey Brake [12] – Prince Edward Island PE
How are Microorganisms Useful to Humans?

Jaedyn Ness [13] – Pacific Northwest BC
Coloured Cups of Cocoa

Brielle Lillywhite [12] – Chinook Country AB
How Fast Does Your Ride Glide?

Challenge Award - Resources

Senior

Sponsor: Youth Science Canada
\$1,000 cash & certificate

Olivier Cloutier [16] – Est du Québec QC
Autopsie d'une extinction

Challenge Award - Resources

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Shannon MacLennan [15] – Strait NS
Sow With Gypsum; Grow With Gypsum

Challenge Award - Resources

Junior

Sponsor: Youth Science Canada
\$500 cash & certificate

Daniel O'Reilly [13] – Central Interior British Columbia BC
Another One Bites the Dust - Part 2

Challenge Award - Innovation

Senior

Sponsor: BlackBerry
\$1,000 cash & certificate

Yassine Bouanane [18] – Montréal CLS QC
Un gant pour malvoyants

Challenge Award - Innovation

Intermediate

Sponsor: BlackBerry
\$750 cash & certificate

Alexander Deans [16] – Windsor ON
iAid: A Novel Navigation Device for the Visually Impaired

Challenge Award - Innovation

Junior

Sponsor: BlackBerry
\$500 cash & certificate

Mac Wong [12] – Winnipeg Schools MB
Building a Low-Cost Semimicro Balance

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Challenge Award - Information

Senior

Sponsor: Intel of Canada, Ltd.
\$1,000 cash & certificate

Pierre Clapperton Richard [16], Francis-Olivier Couture [16] – Saguenay-Lac Saint-Jean QC
EffiClasse : l'école du futur

Challenge Award - Information

Intermediate

Sponsor: Intel of Canada, Ltd.
\$750 cash & certificate

Daniel Mogilny [14] – York ON
tw-Lexa: A Social Media Analysis Algorithm

Challenge Award - Information

Junior

Sponsor: Intel of Canada, Ltd.
\$500 cash & certificate

Vivian Li Ge Yang [13], Kelvin Zhang [13] – Greater Vancouver BC
Controlling Telerobots over the Web using Natural User Interface (Kinect)

Challenge Award - Health

Senior

Sponsor: Canadian Institutes of Health Research
\$1,000 cash & certificate

Adam Noble [19] – Peterborough ON
Silver Nano-Particle Therapy: A New Cure For Cancer

Challenge Award - Health

Intermediate

Sponsor: Canadian Institutes of Health Research
\$750 cash & certificate

Janice Pang [15] – Greater Vancouver BC
Inflammation in Pancreatic Islets: Contribution of Islet Macrophages

Challenge Award - Health

Junior

Sponsor: Canadian Institutes of Health Research
\$500 cash & certificate

Harishitaa Prithiviraj [14] – Chignecto West NS
Divided We Fade, United We Cure!!!

Challenge Award - Environment

Senior

Sponsor: Encana Corporation
\$1,000 cash & certificate

Joshua MacDonald [17], Lucas Oyeniran [17] – North Bay ON
Triple E: The Cattail Way!

Challenge Award - Environment

Intermediate

Sponsor: Encana Corporation
\$750 cash & certificate

Julia Sarty [16] – Halifax NS
Assessing Environmental Toxicities: Amphibians as Bioindicators

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Challenge Award - Environment

Junior

Sponsor: Encana Corporation
\$500 cash & certificate

Elizabeth Schulz [13] – Central Interior British Columbia BC
*Reducing Populations of *Lymnae stagnalis**

Challenge Award - Energy

Senior

Sponsor: Youth Science Canada
\$1,000 cash & certificate

Meagan Fabel [17] – Windsor ON
Fun in the Sun! Increasing Grätzel Cell Efficiency Using Diatom Frustules

Challenge Award - Energy

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Ann Makosinski [15] – Vancouver Island BC
The Hollow Flashlight

Challenge Award - Energy

Junior

Sponsor: Youth Science Canada
\$500 cash & certificate

Catherine Beaudin [12] – Ottawa ON
High Efficiency Solar Thermal Collector

Challenge Award - Discovery

Senior

Sponsor: Youth Science Canada
\$1,000 cash & certificate

Varsha Jayasankar [16] – Niagara ON
*Identification of Novel Anti-Microbial Compounds in *Curcuma amada**

Challenge Award - Discovery

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Catharine Bowman [14] – Bay Area ON
Just The Right Light-An Investigation Using Bright/Dark Illumination Principles

Challenge Award - Discovery

Junior

Sponsor: Youth Science Canada
\$500 cash & certificate

Alaina Ng [13] – Rideau-St. Lawrence ON
Phast Phalanges

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



University of Ottawa Undergraduate Research Scholarship Award

Sponsor: University of Ottawa, Faculty of Science

The recipient will work with scientists and take part in important scientific discoveries during two consecutive summers. In the summer preceding the first year of studies in an undergraduate program at the Faculty of Science, University of Ottawa, the recipient will earn \$3,750 as a research assistant to one of the world class professors. If the recipient is successful in his/her first year of studies, the research experience will be extended to a second summer, during which he/she will earn \$6,250.

Isabelle Labeca-Gordon [17] – Toronto ON

A Holistic Treatment for Recurring Cystitis

Statistical Society of Canada Award

Sponsor: Statistical Society of Canada

\$1000 cash & certificate

Samantha Stuart [16] – Simcoe County ON

Project Unlike: A Novel Psychometric Screener to Quantify Facebook Overuse

Statistical Society of Canada and Biostatistics Section Award

Sponsor: Statistical Society of Canada and Biostatistics Section

\$750 cash & certificate

Janice Pang [15] – Greater Vancouver BC

Inflammation in Pancreatic Islets: Contribution of Islet Macrophages

S.M. Blair Family Foundation Award

Senior

Sponsor: S.M. Blair Family Foundation

\$1000 cash & certificate

Lauren Reid [17] – Durham ON

New compound MnO₂+PPy increases redox reactions to improve capacitive

S.M. Blair Family Foundation Award

Intermediate

Sponsor: S.M. Blair Family Foundation

\$750 cash & certificate

Alexander Deans [16] – Windsor ON

iAid: A Novel Navigation Device for the Visually Impaired

S.M. Blair Family Foundation Award

Junior

Sponsor: S.M. Blair Family Foundation

\$500 cash & certificate

Aidan Aird [13] – York ON

Advanced Aerodynamic Aircraft Wing System

Renewable Energy Award

Senior

Sponsor: Ontario Power Generation

\$1000 cash & certificate

Meagan Fabel [17] – Windsor ON

Fun in the Sun! Increasing Grätzel Cell Efficiency Using Diatom Frustules

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Renewable Energy Award

Intermediate

Sponsor: Ontario Power Generation
\$750 cash & certificate

Nicole Ticea [14] – Greater Vancouver BC
Rain, Rain, Go Away: The Piezoelectric Roof Tile

Renewable Energy Award

Junior

Sponsor: Ontario Power Generation
\$500 cash & certificate

Abhi Gupta [13] – Windsor ON
A Mechanical Sunflower that Turns With The Sun

The Manning Innovation Achievement Award

Sponsor: Ernest C. Manning Awards Foundation

Eight projects will each receive a \$500 cash award. Four of these Manning Innovation Achievement Award winners will also be announced as winners of \$4000 Manning Young Canadian Innovation Awards (to be presented at a later date).

Yassine Bouanane [18] – Montréal CLS QC
Un gant pour malvoyants

Pierre Clapperton Richard [16], **Francis-Olivier Couture** [16] – Saguenay-Lac Saint-Jean QC
EffiClasse : l'école du futur

Samantha Stuart [16] – Simcoe County ON
Project Unlike: A Novel Psychometric Screener to Quantify Facebook Overuse

David Drouin [19] – Québec et Chaudière-Appalaches QC
Quand un et un font trois!

Adam Noble [19] – Peterborough ON
Silver Nano-Particle Therapy: A New Cure For Cancer

Brian Laight [17] – Ottawa ON
A Sindbis Virus short-hairpin RNA Screen to Increase Virus Replication in Cancer

Meagan Fabel [17] – Windsor ON
Fun in the Sun! Increasing Grätzel Cell Efficiency Using Diatom Frustules

Varsha Jayasankar [16] – Niagara ON
Identification of Novel Anti-Microbial Compounds in Curcuma amada

The Manning Innovation Achievement Award and \$4000 Manning Young Canadian Innovation Award

Sponsor: Ernest C. Manning Awards Foundation

Eight projects will each receive a \$500 cash award. Four of these Manning Innovation Achievement Award winners will also be announced as winners of \$4000 Manning Young Canadian Innovation Awards (to be presented at a later date).

Pierre Clapperton Richard [16], **Francis-Olivier Couture** [16] – Saguenay-Lac Saint-Jean QC
EffiClasse : l'école du futur

David Drouin [19] – Québec et Chaudière-Appalaches QC
Quand un et un font trois!

Adam Noble [19] – Peterborough ON
Silver Nano-Particle Therapy: A New Cure For Cancer

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Meagan Fabel [17] – Windsor ON

Fun in the Sun! Increasing Grätzel Cell Efficiency Using Diatom Frustules

International Summer School for Young Physicists Award

Sponsor: Perimeter Institute for Theoretical Physics

The award consists of a full scholarship to participate in the International Summer School for Young Physicists 2013 (ISSYP 2013) from July 7–20, an intensive two week enrichment program that will introduce the student to the fascinating picture of our universe as seen through the eyes of contemporary physicists: from the bizarre quantum world of atoms and subatomic particles to black holes, warped spacetime and the expanding universe. The student will also interact with professional physicists at Perimeter Institute in small group mentoring sessions, participate in field trips to leading experimental science laboratories, and forge new friendships with like minded young people from around the world. The scholarship includes room and board and travel expenses to and from the Institute. Total value \$3,500.

Kyle Plamondon [16] – Northern British Columbia BC

Simulating The Formation and Evolution of Galactic Star Cluster Hyades

Canadian Stockholm Junior Water Prize

Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Xylem

One all expense paid trip to Stockholm, Sweden, August 31 - September 5, 2013, for one student to represent Canada at the International Stockholm Junior Water Prize Competition. Up to three projects selected at the CWSF will be invited to submit an essay summary of their projects. One winner will then be chosen to represent Canada at the Stockholm Junior Water Prize Competition. The two-runners-up will each receive a \$300 cash prize.

Ankur Shahi [16] – Northwestern Ontario ON

Kraft Lignin: A Novel Solution to Oil Spill Recovery using Industrial Waste

Joshua MacDonald [17], **Lucas Oyeniran** [17] – North Bay ON

Triple E: The Cattail Way!

Hannah Landry [17] – Chignecto West NS

Eggshells: Simple, Practical, Cost Efficient Remedy to Address Cadmium Pollution

Toronto Research Chemicals - Weizmann Canada Award for Scientific Achievement

Sponsor: Toronto Research Chemicals and Weizmann Canada

The award provides for participation in the summer science program at the Weizmann Institute in Israel, including registration fee and return airfare (Toronto–Israel–Toronto). The dates of the Weizmann summer science program are July 1–31, 2013. Total value \$4,700.

Adam Noble [19] – Peterborough ON

Silver Nano-Particle Therapy: A New Cure For Cancer

Canadian Commission for UNESCO - Science for Peace and Development (MILSET ESI) Award

Sponsor: Canadian Commission for UNESCO

The winner will participate in Expo-Sciences Internationale (ESI), a non-competitive international science fair organized by the International Movement for Leisure Activities in Science and Technology (MILSET - French acronym), to be held September 14-20, 2013 in Abu Dhabi, United Arab Emirates, and will receive a certificate. Total value \$5000.

Kyle Potts [16] – Simcoe County ON

Flexural and Flammability Properties of Straw-Plastic Composites

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



Australian National Youth Science Forum Award

Sponsor: National Youth Science Forum Australia

The Australian delegation to the CWSF selects one or two grade 10/secondary IV Canadian finalists to invite to the 12-day National Youth Science Forum (NYSF) at the Australian National University in Canberra in January 2014. All expenses within Australia are covered by the NYSF, but as part of the program, participants are expected to raise the funds to cover their travel. The NYSF focuses on encouraging the achievement of excellence and the development of communication and interpersonal skills for careers in science, engineering and technology. It also fosters discussion of and interest in major national and global issues and emphasizes the importance of maintaining continuing active interests in sport, arts and music.

Jared Schenkels [16] – Chignecto West NS

Reduction of Vibrations in Emergency Ski Patrol Toboggans

Rhea Deshpande [15] – Toronto ON

Chlorella Can Cure: "Eat it, Beat it"

Shaylin Pillay [15], **Janelle Salm** [16] – Regina SK

The Effect of Various Wavelengths of Light on Yeast

The Actuarial Foundation of Canada Award

Senior

Sponsor: The Actuarial Foundation of Canada

\$1000 cash & certificate

Yassine Bouanane [18] – Montréal CLS QC

Un gant pour malvoyants

Samantha Stuart [16] – Simcoe County ON

Project Unlike: A Novel Psychometric Screener to Quantify Facebook Overuse

The Actuarial Foundation of Canada Award

Intermediate

Sponsor: The Actuarial Foundation of Canada

\$750 cash & certificate

Daniel Mogilny [14] – York ON

tw-Lexa: A Social Media Analysis Algorithm

Pieter VanLeeuwen [14] – Prince Edward Island PE

Muscle + Determination = Vitesse

The Actuarial Foundation of Canada Award

Junior

Sponsor: The Actuarial Foundation of Canada

\$500 cash & certificate

Helen Czapor [14] – Sudbury ON

Of Prime Importance - Testing For Prime And Composite Numbers

Connor MacLean [14] – Sudbury ON

Using a Gravity Well As A Simulation 2.0: Planets Orbiting a Binary Star System

CSSE Engineering Innovation Award

Senior

Sponsor: Canadian Society for Senior Engineers

\$1000 cash & certificate

Melissa Chopcian [16] – Lambton County ON

Improved Methods for Robotic Eye Surgery

Award Recipients

Canada-Wide Science Fair 2013

Lethbridge, Alberta



CSSE Engineering Innovation Award

Junior

Sponsor: Canadian Society for Senior Engineers
\$500 cash & certificate

Vivian Li Ge Yang [13], Kelvin Zhang [13] – Greater Vancouver BC
Controlling Telerobots over the Web using Natural User Interface (Kinect)

Carlson Wagonlit Award

Sponsor: Carlson Wagonlit Travel
\$500 cash & certificate

Malcolm Mann [14] – South Shore NS
Tubercles on Sailboat Rudders: A Whale of an Idea?

CAP Physics Prize

Sponsor: Canadian Association of Physicists
\$1000 cash & certificate.

Victor Ling [16] – London District ON
Crater Morphology as an Indicator of Martian Subsurface Ice

Canadian Society for Medical Laboratory Science Award

Sponsor: Canadian Society for Medical Laboratory Science
\$750 cash & certificate

Lilia Brahim [15] – Côte-Nord QC
Alternative essentielle II

Canadian Acoustical Association Award

Sponsor: Canadian Acoustical Association
\$1000 cash & certificate plus subscription to the Canadian Acoustical Association's quarterly journal

Érika Blackburn-Verreault [20] – Saguenay-Lac Saint-Jean QC
Le son qui nous guide

Award for Excellence in Astronomy

Intermediate

Sponsor: Royal Astronomical Society of Canada
\$750 cash & certificate plus a one year membership to RASC

Samin Dolatabadi [15] – Southeast Alberta AB
From Cosmic Rays: Matter and Anti-Matter

Award for Excellence in Astronomy

Junior

Sponsor: Royal Astronomical Society of Canada
\$500 cash & certificate plus a one year membership to RASC

Connor MacLean [14] – Sudbury ON
Using a Gravity Well As A Simulation 2.0: Planets Orbiting a Binary Star System