

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Best Project Award

Sponsor: Research in Motion Limited
Award, \$10,000 cash

Laurent Joli-Coeur [16] – Montréal CLS QC
La quête de l'ombre jovienne

Platinum Award - Best Senior Project

Sponsor: Research in Motion Limited
Award, \$5,000 cash

Eric LeGresley [16] – Fraser Valley BC
Computational Methods for the Screening of Novel Neuraminidase Inhibitors

Platinum Award - Best Intermediate Project

Sponsor: Research in Motion Limited
Award, \$5,000 cash

Laurent Joli-Coeur [16] – Montréal CLS QC
La quête de l'ombre jovienne

Platinum Award - Best Junior Project

Sponsor: Research in Motion Limited
Award, \$5,000 cash

Maya Burhanpurkar [13] – Simcoe County ON
Uncovering the Cardiac and Gastrointestinal Safety of Two Amyloid- β Inhibitors

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.

Kelcie Miller-Anderson [18] – Calgary Youth AB
Mycoremediation of the Oil Sands

Eric LeGresley [16] – Fraser Valley BC
Computational Methods for the Screening of Novel Neuraminidase Inhibitors

Christoph Vetter [18] – Strait NS
Can Tires Provide an Alternative to Furnace Oil?

Jennifer Csele [16] – Niagara ON
A Novel Cold Cathode Source For Determining Lead Contamination

Dan Alferov [15] – London District ON
Perception of Natural Colour

Jamil Merali [15] – North Bay ON
"Shoe" Me the Haptic Way

Raymond Wang [14] – Greater Vancouver BC
Smart Knee Assistant

Cove McConnell [13] – Frontenac, Lennox & Addington ON
Tubercles: The Leading Edge of Wing Design

Terra Lanteigne [14] – Halifax NS
Cold Play: What will keep the puck cold for the entire play?

Shane Hickman [14] – Niagara ON
Plug & Play Multi-Sensor Platform For Emergency Assist Robot

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Adelina Corina Cozma [17] – York ON
Novel Learning in the Brain: Insights from Neuroimaging & Augmentative Training

Diana Bark [18], **Neesha Persad** [17] – Edmonton AB
Pounding Cancer with PTEN

Weige Zhao [18] – Toronto ON
Enhancing Chemotherapy

Madeline Stever [16] – Peterborough ON
Sunscreen: The Good, The Bad And The Metallic Taste In My Mouth - Part 3

Avinash Pandey [15] – Waterloo-Wellington ON
Improving Compliance to Lifesaving Medications

Janice Pang [14] – Greater Vancouver BC
Pre-exposing RAW264.7 Macrophages to Microbial Product, PAM3CSK4

Harishitaa Prithiviraj [13] – Chignecto West NS
A Sniff A Day, Let the Memory Stay!!!

Kate Berger [17], **Jasveen Brar** [17] – Kiwanis Southeast Alberta AB
Environmental Distribution of Giardia and Cryptosporidium

Simone Adam [16], **Laurence Dubé** [16] – Québec et Chaudière-Appalaches QC
Un champignon emballant!

Hayley Marie Todesco [16] – Calgary Youth AB
Tailings Transformation: Microbial Bioremediation of Oil Sands Tailings

Laurence Emery [14] – Peterborough ON
Bioindicators Reveal the Most Eco-Friendly Road Salt Part 2

Aspen Lillywhite [13] – Chinook Country AB
Arctic Offshore Drilling & Temperature Effects on Cleanup of Potential Oil Spill

Yassine Bouanane [17] – Rive-Nord QC
Soleil, où es-tu?

Mikaela Preston [16] – York ON
BioHydrogen Fuel from Photosynthetic Bacteria: Studying Single Stage Reactors

Carlos Xu [17] – Greater Vancouver BC
Gravito-Meissner Effect in Neutron Star Systems

Alexandra Ficht [17] – Waterloo-Wellington ON
A Study of the Leaf Striping in Barley

Laurent Joli-Coeur [16] – Montréal CLS QC
La quête de l'ombre jovienne

Victor Ling [16] – London District ON
Gold Nanoparticles for Targeted Cancer Treatment

Christian Au [12] – Rideau-St. Lawrence ON
BBs: Ballistics gone Bio

Maya Burhanpurkar [13] – Simcoe County ON
Uncovering the Cardiac and Gastrointestinal Safety of Two Amyloid- β Inhibitors

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Silver Medallist - \$2000 Entrance Scholarship

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Jacinthe Mc Lean [16], **Marie-Ève Mc Lean** [17] – Montérégie QC

Renouv-eau

Janelle Tam [17] – Waterloo-Wellington ON

Nanocrystalline Cellulose: A Renewable Antioxidant

Tim Carlielle [18] – Central Alberta AB

The SkiBreeze - A Ski Innovation

Aditya Mohan [15], **Gayashan Tennakoon** [15] – Ottawa ON

Algal Biofuels: A Greener Solution

Madison Ricard [17] – Edmonton AB

From The Ground Up Pt III

Brandon Whitley [17] – Frontenac, Lennox & Addington ON

The Living Wall: An Educational Innovation

Usman Kamran [18] – Wood Buffalo AB

The Acousto-Thermal Effect

Jerry Chen [17] – London District ON

Robotic Watering System

Ramaneek Gill [18], **Edward Wang** [15] – Peel ON

Enhancing the User-Immersive Experience with a Natural User Interface

Jessie MacAlpine [17] – London District ON

Callelo: a novel bioherbicide

Kelly Zheng [17] – Saskatoon SK

Helping the Grain Industry: Developing a RT-PCR based purity test for Durum

Simon Lemay-Lauzière [16] – Québec et Chaudière-Appalaches QC

Rubik2D2

Amanda Wong [15] – Winnipeg Schools MB

Constructing an Infrared Camera Touchscreen

Arjun Nair [16] – Calgary Youth AB

A Novel Study Exploring Photothermal Therapy for Protein Denaturation in Cancer

Alexander Deans [15] – Windsor ON

iBELT: Training the Ear to See!

Kyle Potts [15] – Simcoe County ON

The Little Piggy With The Right Idea, I "Wood" Build A House From Straw

Nicholas Barrett [16] – Cape Breton NS

On My Whistle: A Command System for Hearing Impaired Soccer Players

Madison Kieffer [13] – Fundy NB

Raise it to a Boil! Calculating Calories

Helen Czapor [13] – Sudbury ON

Do You Feel Lucky?

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Rachel Alexandra Shadoff [14] – Peel ON

Vortex Cooling

Keaton Woods Chadwick [14] – Peel ON

The Efficient 2-Stroke Engine

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

Pro.Tech.Neck: The Future of Hockey Neck Guards

Candace Brooks-Da Silva [13] – Windsor ON

Quick! Sound the Alarm: Rescuing Objects From A Non-Newtonian Fluid

Savanna Grace Enright [14] – Renfrew County ON

Milk Replacer Metering and Mixing Station

Maddie LaClaire [15], **Nicole Larson** [16] – Alberta Central East AB

Your Health and Five 'S' Home Screening

Ashley Bell [17], **Laura Kim** [19] – Manitoba Schools Science Symposium MB

Using Nuclear Matrix to Detect Colorectal Cancer Cells

Sarah Julia Hyslop [17] – Calgary Youth AB

The Road to Novel Antibiotics

Rebecca Marie Todesco [18] – Calgary Youth AB

Airborne Attack: Phase Two

Lisa Marie Di Vona [17] – York ON

Identification of New Aurora Kinase Inhibitors: Treatment of Human Neuroblastoma

Minuoja Chandramohan [16] – Montréal CLS QC

Du cacao pour une peau saine!

Gerry Nour Chamaa [16], **Manu Rangaya** [15] – Estrie QC

Immunofluorescence

Louis-Charles Desbiens [16], **Vincent Maltais** [17] – Saguenay-Lac Saint-Jean QC

Le mystère de K5

Sujay Nagaraj [15] – Calgary Youth AB

Finding Cures for Childhood Brain Tumors

Kevala Van Volkenburg [15] – Northern British Columbia BC

Finding a Better Brain Booster

Ankita Saxena [16] – Calgary Youth AB

Understand-ING Replicative Senescence

Aisha Lillywhite [15] – Chinook Country AB

Bacterial Presence and Contamination of Washed Hands After Using Air Hand Dryers

Abhishek Chakraborty [13] – Manitoba Schools Science Symposium MB

Effects of Folic Acid on Cellular Senescence

Catharine Bowman [14] – Bay Area ON

Get a Grip on It!

Jacob Newkirk [13] – Yukon/Stikine YT

Mythbusting Mouth Guards

Mikayla Berger [14] – Lethbridge AB

Do Re Mi - The Effect of Auditory Stimuli on Memory

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Claire Bertens [14], Brooklyn McDonald [14] – Central Alberta AB
Crush That Thrush

Dylan McFadden [14] – Simcoe County ON
To Clench, or Not to Clench

Moriah Harvey [17] – Northwestern Ontario ON
CH₃CH₂OH-white latex paint as an antifouling agent

Arnaud Desrosiers [19] – Montréal CLS QC
Bioremédiation des nanotubes de carbone multiparois

Rachel Brown [19], Katie Van der Sloot [18] – Kiwanis Southeast Alberta AB
Triclosan: Double Danger Take 2

Meagan Haugen-Koechl [15] – Northern British Columbia BC
Feeding the Bees: A Seasonal Protein Analysis for Bumblebees of the Peace

Varsha Jayasankar [16] – Niagara ON
Plantibiotics: A "CACE" Study

Archita Adluri [16] – Eastern Newfoundland NL
How pure is it?

Graham Bohm [13] – Bay Area ON
From Salted Streets to Salty Streams

Skye Preston [14] – York ON
Enhancing Wetland Bioremediation

Elora Weiler [13] – East Parry Sound ON
Carbon Fingerprint

Avery Dextrase [14] – Peterborough ON
Where the Butterflies Roam

Moaz Rashad [18] – Regina SK
*Optimizing Environmental Factors in *C. reinhardtii* Based Hydrogen Bioreactors*

Karishini Ramamoorthi [16], Smruthi Ramesh [15] – Peel ON
Prunus Armeniaca: the Fuel of the Future

Brittney Allen [18] – Fundy NB
I'm Lichen It! Biotic de-Stress Foliar Spray

Anna O'Grady [18] – Eastern Newfoundland NL
Unveiling Dark Matter: A Study of Dark Matter and its Effects on Galaxy Clusters

Emily O'Reilly [15] – Central Interior British Columbia BC
The Effects of Prunus armeniaca (apricot kernel) on HeLa Cancer Cells

Daniel O'Reilly [12] – Central Interior British Columbia BC
Another One Bites The Dust

Bryant Schroeder [14] – Chinook Country AB
Differentiating the Potential for Injury between Hardball and Softball

Ty Godfrey [14] – Canadian Rockies AB
Can UV What Birds See?

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Sarah Maccallum [19] – Chignecto East NS

Super Plants: Seed Preconditioning in Bok Choy Plants to Increase Crop Yield

Zeyu Liu [17] – Calgary Youth AB

A Novel Approach to Electromagnetic Bearing Systems

Nick Johnston [17] – South Fraser BC

Unspoken Speech Detection Using a Non-Invasive Brain Computer Interface

Karl Zimmermann [17] – Algoma Rotary ON

The Algal Alternative: A Biofuel Investigation

Angela Gaiero [18], **Jerry Han** [18] – Niagara ON

Autonomous Gamma and Beta Radiation Detection and Mapping Robot

Jocelyn Tanton [17] – East Kootenay BC

Wheelchair Bowling Ramp

Ellen Song [18] – Annapolis Valley NS

Fruit Flavour: The Double Benefit of Aroma Volatile Treatments

Tiange Li [18] – Toronto ON

Adjustable Circular Cutter for Baseplates in the Ostomy Pouching System

Tyler Bennett [17] – Toronto ON

Up, Up and Away-A wind Tunnel Experiment

Colin Hooper [17] – Cape Breton NS

Automated Personal Trainer

Alex Bercik [14], **Erik Bercik** [16] – Bay Area ON

A Novel Rooftop Wind Turbine for Convenient Residential Use

Benjamin Chisholm [16] – Conseil scolaire acadien provincial (CSAP) NS

La Suspension Magnétique

Dareen El-Sayed [16] – Winnipeg Schools MB

Antibiotic Activity in Oregano

Chris Lansang [15], **Annie Marie Ross** [15] – St. James-Assiniboia MB

Multitasking: Leave it to the Computer

Noah Bergmann [15] – Cariboo Mainline BC

Musical Modulations: The Modex Reloaded

Ann Makosinski [15] – Vancouver Island BC

The Piezoelectric Flashlight

Alex Rhee [15] – Peel ON

O-O-O: Making it Last with Ozone

Adrian Au [15], **Nathan Heuvel** [16] – Rideau-St. Lawrence ON

Exhaustive Energy

Theresa DeCola [15] – Quinte ON

Interplanetary Shipping 3

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Carl Shen [14], Gary Shen [14] – London District ON
Smartphone-Based Fall Detection

Mireille Salloum [15] – Ottawa ON
Absorption des couches

Prakriti Pratijit [15] – Saskatoon SK
Constructing Economical and Durable Rural Roads using Stabilized Soils

Soumya Srinivasan [14] – Ottawa ON
A Reliable, Portable, Monitoring Device for the Prevention of Accidental Drownin

Andy Glendinning [14] – Durham ON
A Better Gripper

Molly Boyle [14] – Fundy NB
A Slippery Situation

Kylee Hickey [13] – Fraser Valley BC
Kippypult

Diba Shojaeigoradel [14] – York ON
Using High Voltage Source for Low Voltage Load

Elizabeth Suen [14] – Greater Vancouver BC
What's Holding you Back?

John Laamanen [13] – Sudbury ON
Magnetic Motor: Potential Clean Energy

Megan Gran [13] – Sudbury ON
Trashbot: The Path of the Future

Marika Moskalyk [14] – Sudbury ON
BioFabric

Tevin Devasagayam [13] – Toronto ON
Color Changing Car

Taggart McMillan [14] – Prairie Valley SK
Smart Start

Benoît Corriveau [17] – Estrie QC
Discours des mots ou des maux?

Logan Burns [17], Robert Fournier [17] – Rideau-St. Lawrence ON
Distraction Factor

Collin Fair [17] – Central Alberta AB
Alternative Text Entry

Gurmeen Kaur Banipal [15], Charanpreet Mahal [15] – Fraser Valley BC
Revealing the Invisible World of Radon

Qasim Ali [15] – Edmonton AB
Lighten the Pressure

Edmund Zamora [13] – Bay Area ON
Double Trouble: The Effects of Multitasking and the Dangers of Distracted Driving

Tray MacDonald [15], Callum Pickles [14] – Cape Breton NS
File ScanX

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Alexander Rey [19] – Bay Area ON

More than Just Brushing

Farouk Selouani [16] – Districts francophones du Nouveau-Brunswick (DFNB) NB

DiagP53: un classificateur génétique pour le diagnostic du cancer du sein

Sakeena Panju [18] – York ON

The Prick of a Finger

Maggie Wang [17] – Greater Vancouver BC

Magnolia: Effects on Breast Cancer Cells

Rachel McLay [17] – Bluewater ON

The Effects of Vitamin D on Muscle Function

Savannah LeBlanc [18] – Strait NS

Eenie Meenie Miny Mo

Lucas Zeer-Wanklyn [18] – Central Okanagan BC

Don't Sweat It: Measuring Biofeedback

Xinyang Young Zhou [17] – London District ON

Comparison of Contemporary and Original Norms of the Alberta Infant Motor Scale

Cosmin Dutescu [17], **Emerson Grabke** [17] – Toronto ON

The Depth Of A Movement

Sarah Winsor [17] – Eastern Newfoundland NL

Can Your Diet Prevent Alzheimer's? The effects of Lysine on APP Processing

Tannya Cai [16] – Ottawa ON

Effect of Curcumin on RSV Replication and Virus Induced Cytokine Production

Shreyas Devalapurkar [16] – Manitoba Schools Science Symposium MB

The Effect of Oxidative Stress on Protein Profile of Cells

Eran Ittah [16], **David Lasry** [16] – Montreal QC

A Change of Heart

Alison Schwenk [15], **Sarah Sheppard** [14] – Greater Vancouver BC

Soccer and shoes: the un-toe-Id story

Rachael McPhail [15] – Northern British Columbia BC

To Play or Not To Play?

Mikaela Cockney-MacNeil [16] – Beaufort-Delta NT

Are You Sure?

Fiona Weaver [15] – East Parry Sound ON

Stop Talking Dirty

Shaylee McGuire [15], **Andrea Wong** [16] – Fraser Valley BC

TeloMice: The Effects of Telomere Enhancing Products on Mice

Arjuna Yusuf [16] – Bay Area ON

The Effect of Baroque Music and Silent Sitting on Concentration

Sam Stuart [15] – Simcoe County ON

The Twitter VS Facebook 2012

Tamar Sifri [14] – Montreal QC

The Battle Against Aging

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-
- Jiaying (Carol) He** [14], **Bennett Tan** [13] – Greater Vancouver BC
Can Antioxidants prevent free radical damage, and possibly extend life?
-
- Kaushar Mahetaji** [14] – Bay Area ON
Corresponding With the Brain
-
- Miranda Sherell** [14] – West Kootenay & Boundary BC
Mixed Signals: Are the Synesthetes Among Us?
-
- Carina Fascinato** [13] – Bluewater ON
Family Spines
-
- Ethan Milne** [14] – Avon Maitland-Huron Perth ON
The Power of the Placebo
-
- Xing Yi Liu** [12] – Toronto ON
Block Those Rays!
-
- Rashmini Shunmugam** [14] – Western Manitoba MB
Mind blowing Heart thumping Finger Snapping . . . Gaming!
-
- Mark van der Velden** [14] – Simcoe County ON
Concussion Minimization
-
- Jessie Beaulieu** [19] – Côte-Nord QC
Polyrecyclage II
-
- Kais Khimji** [17], **Preston Lim** [17] – Greater Vancouver BC
The Golden Fleece: Innovative ways to clean up oil
-
- Taylor Laekeman** [18], **Amy Lin** [17] – Niagara ON
The Viability of Immobilized Enzyme as a Biocatalyst
-
- Nicole Gastle** [17], **Savannah Massimo** [17] – Peterborough ON
A Fibrous Answer to Oil Spills?
-
- John Mikhaeil** [16] – Bay Area ON
Detoxification of Jatropha oil-Cake from Phorbol esters
-
- Ankur Shahi** [16] – Northwestern Ontario ON
Biochar: A Low Cost Solution for Water Treatment Using Industrial Waste
-
- Mackenzie Finch** [16] – Cariboo Mainline BC
Drinking Water: An Environmental Filtration System
-
- Dawson Heggstad** [14], **Harlan Wutzke** [15] – Saskatoon SK
Clean-All
-
- Katherine Evans** [15] – Vancouver Island BC
From Tank to Tap: Are Carcinogens Being Introduced into Piers Island Water?
-
- Peter Issekutz** [15] – Halifax NS
Finding Natural Fire Retardant Solutions
-
- Shannon MacLennan** [15] – Strait NS
Can You Give Cleaning A Greener Meaning?
-
- Adamo Young** [16] – Ottawa ON
*War of the Wasps: comparing the parasitism effectiveness of the wasps *D. insular**
-
- Eleonore Day** [14], **Vincent Girard** [15] – Toronto ON
Keeping It Old School!

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-
- Ossama Mahmoud** [14] – London District ON
Natural chelating agents cleaning our environment
-
- Olivia Cerilli** [13] – Bay Area ON
Paw Prints Through the Forest: Tracking Grey Wolves in Superior National Forest
-
- Michaela Crea** [14] – North Bay ON
Experimental Grout
-
- Amelia Krelove** [13] – Simcoe County ON
Here Today, Gone CO2morrow
-
- Chantal Surette** [17] – Conseil scolaire acadien provincial (CSAP) NS
Énergie lunaire? un appareil unique pour capter l'énergie dans les marées
-
- Dustin Riley** [18] – Greater Vancouver BC
Energy densities of fuels produced from plastic that has undergone thermal depol
-
- Hayley Whelan** [18] – Prince Edward Island PE
Wind Turbine Noise Stress and Immune Function
-
- Stéphanie Clavet** [19], **Benoit Petit** [19] – Abitibi-Témiscamingue QC
Bananiers : Un défi équatorien
-
- Kaitlyn Stockley** [17], **Jared Trask** [17] – Eastern Newfoundland NL
Shedding Light on Microalgae to Biofuel Production in Cold Environments
-
- Cathy Tie** [16], **Katina Zheng** [16] – Peel ON
Bioethanol Research: Here Today, Here Tomorrow
-
- Meagan Fabel** [16] – Windsor ON
Fun in the Sun - Improving the Efficiency of Grätzel Cells
-
- Brynn Charron** [16] – Windsor ON
Wind Amplification in a Multi-Stage System: Let's Amp Up the Power! Part 2
-
- Shifa Hayat** [16] – Greater Vancouver BC
Fermented Wastes Rule and They Make... Fuel?!
-
- Pelly Vincent-Braun** [13] – Yukon/Stikine YT
iPod Hydro Charger
-
- Adrian Hucal** [13] – Bay Area ON
Where Does the Wind Test Best?
-
- Patrick Sem** [12] – York ON
What is the optimal design to harness wind, solar & thermal energy?
-
- Christian Besoiu** [14] – Calgary Youth AB
Homemade Biodiesel
-
- Katherine Teeter** [14] – Bluewater ON
Alternative Current: The Third World Electrical System
-
- Charlène Golsteyn** [12] – Lethbridge AB
Boue = Electricite?!
-
- Elizabeth Aarts** [13] – Avon Maitland-Huron Perth ON
Reduce, Recycle, Reuse
-
- Alex Chlysta** [17] – Vancouver Island BC
Minds & Media: Does Screen Time Affect School Performance?

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Benjamin Friedman [17] – Cariboo Mainline BC
A Turn for the Better

Briony Merritt [17], **Ellen Withers** [18] – Halifax NS
Creative Capacity: Discovering the Education Path to Divergent Thinking

Nathan Benson [17], **Alex Sletten** [18] – Saskatchewan Chinook SK
Coil Guns

Ashlesha Deshpande [16], **Heli Patel** [16] – Wood Buffalo AB
Dress to Impress!

Aiden Schenkels [17] – Chignecto West NS
Sleep on This

Olivier Cloutier [16] – Est du Québec QC
Périr la bouche grande ouverte

Andrea Chan [15], **Matthew Treble** [15] – Vancouver Island BC
Big or Small; Narrow or Wide: Text Presentation for Early Readers

Meg Cumming [14], **Breanna Gowe** [15] – Central Okanagan BC
An Iota of Colour on Io

Kiri Daust [15] – Pacific Northwest BC
Measuring Melodies: Does Pattern Predict Preference?

Julia Sarty [15] – Halifax NS
Staying Aligned: Basic Ballet Necessities Under Scrutiny

Cameron Lidkea [13] – Sunset Country ON
Striking Difference

Lauren Wood [14] – Sudbury ON
Sudden Impact

Neha Gulati [12] – Niagara ON
Reflex: Get Your Facts Straight

Iain Green [14] – Annapolis Valley NS
How Much Is This Going to Hurt? The Effect of Temperature on Paintballs

Andrew Ilyas [13], **Nikhil Patil** [13] – Waterloo-Wellington ON
Optical Illusions - Does Colour Affect the Illusion?

Patrick Fraser [14] – Avon Maitland-Huron Perth ON
The Confinable Cosmos

Madeleine Yeomans [14] – North Bay ON
What Moves Us

University of Ottawa Entrance Scholarship

Senior Gold Medallist - \$4,000 Entrance Scholarship

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Enhancing Chemotherapy

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Callelo: a novel bioherbicide

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Sarah MacCallum [19] – Chignecto East NS
Super Plants: Seed Preconditioning in Bok Choy Plants to Increase Crop Yield

Zeyu Liu [17] – Calgary Youth AB
A Novel Approach to Electromagnetic Bearing Systems

Nick Johnston [17] – South Fraser BC
Unspoken Speech Detection Using a Non-Invasive Brain Computer Interface

Karl Zimmermann [17] – Algoma Rotary ON
The Algal Alternative: A Biofuel Investigation

Angela Gaiero [18], **Jerry Han** [18] – Niagara ON
Autonomous Gamma and Beta Radiation Detection and Mapping Robot

Jocelyn Tanton [17] – East Kootenay BC
Wheelchair Bowling Ramp

Ellen Song [18] – Annapolis Valley NS
Fruit Flavour: The Double Benefit of Aroma Volatile Treatments

Tiange Li [18] – Toronto ON
Adjustable Circular Cutter for Baseplates in the Ostomy Pouching System

Tyler Bennett [17] – Toronto ON
Up, Up and Away-A wind Tunnel Experiment

Colin Hooper [17] – Cape Breton NS
Automated Personal Trainer

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Benoît Corriveau [17] – Estrie QC <i>Discours des mots ou des maux?</i>
Logan Burns [17], Robert Fournier [17] – Rideau-St. Lawrence ON <i>Distraction Factor</i>
Collin Fair [17] – Central Alberta AB <i>Alternative Text Entry</i>
Alexander Rey [19] – Bay Area ON <i>More than Just Brushing</i>
Farouk Selouani [16] – Districts francophones du Nouveau-Brunswick (DFNB) NB <i>DiagP53: un classificateur génétique pour le diagnostic du cancer du sein</i>
Sakeena Panju [18] – York ON <i>The Prick of a Finger</i>
Maggie Wang [17] – Greater Vancouver BC <i>Magnolia: Effects on Breast Cancer Cells</i>
Rachel McLay [17] – Bluewater ON <i>The Effects of Vitamin D on Muscle Function</i>
Savannah LeBlanc [18] – Strait NS <i>Eenie Meenie Miny Mo</i>
Lucas Zeer-Wanklyn [18] – Central Okanagan BC <i>Don't Sweat It: Measuring Biofeedback</i>
Xinyang Young Zhou [17] – London District ON <i>Comparison of Contemporary and Original Norms of the Alberta Infant Motor Scale</i>
Cosmin Dutescu [17], Emerson Grabke [17] – Toronto ON <i>The Depth Of A Movement</i>
Sarah Winsor [17] – Eastern Newfoundland NL <i>Can Your Diet Prevent Alzheimer's? The effects of Lysine on APP Processing</i>
Tannya Cai [16] – Ottawa ON <i>Effect of Curcumin on RSV Replication and Virus Induced Cytokine Production</i>
Jessie Beaulieu [19] – Côte-Nord QC <i>Polyrecyclage II</i>
Kais Khimji [17], Preston Lim [17] – Greater Vancouver BC <i>The Golden Fleece: Innovative ways to clean up oil</i>
Taylor Laekeman [18], Amy Lin [17] – Niagara ON <i>The Viability of Immobilized Enzyme as a Biocatalyst</i>
Nicole Gastle [17], Savannah Massimo [17] – Peterborough ON <i>A Fibrous Answer to Oil Spills?</i>
John Mikhaeil [16] – Bay Area ON <i>Detoxification of Jatropha oil-Cake from Phorbol esters</i>
Chantal Surette [17] – Conseil scolaire acadien provincial (CSAP) NS <i>Énergie lunaire? un appareil unique pour capter l'énergie dans les marées</i>
Dustin Riley [18] – Greater Vancouver BC <i>Energy densities of fuels produced from plastic that has undergone thermal depol</i>

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Hayley Whelan [18] – Prince Edward Island PE
Wind Turbine Noise Stress and Immune Function

Stéphanie Clavet [19], **Benoit Petit** [19] – Abitibi-Témiscamingue QC
Bananiers : Un défi équatorien

Kaitlyn Stockley [17], **Jared Trask** [17] – Eastern Newfoundland NL
Shedding Light on Microalgae to Biofuel Production in Cold Environments

Alex Chlysta [17] – Vancouver Island BC
Minds & Media: Does Screen Time Affect School Performance?

Benjamin Friedman [17] – Cariboo Mainline BC
A Turn for the Better

Briony Merritt [17], **Ellen Withers** [18] – Halifax NS
Creative Capacity: Discovering the Education Path to Divergent Thinking

Nathan Benson [17], **Alex Sletten** [18] – Saskatchewan Chinook SK
Coil Guns

Ashlesha Deshpande [16], **Heli Patel** [16] – Wood Buffalo AB
Dress to Impress!

Aiden Schenkels [17] – Chignecto West NS
Sleep on This

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;

Kelcie Miller-Anderson [18] – Calgary Youth AB
Mycoremediation of the Oil Sands

Eric LeGresley [16] – Fraser Valley BC
Computational Methods for the Screening of Novel Neuraminidase Inhibitors

Christoph Vetter [18] – Strait NS
Can Tires Provide an Alternative to Furnace Oil?

Adelina Corina Cozma [17] – York ON
Novel Learning in the Brain: Insights from Neuroimaging & Augmentative Training

Diana Bark [18], **Neesha Persad** [17] – Edmonton AB
Pounding Cancer with PTEN

Weige Zhao [18] – Toronto ON
Enhancing Chemotherapy

Kate Berger [17], **Jasveen Brar** [17] – Kiwanis Southeast Alberta AB
Environmental Distribution of Giardia and Cryptosporidium

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Yassine Bouanane [17] – Rive-Nord QC
Soleil, où es-tu?

Carlos Xu [17] – Greater Vancouver BC
Gravito-Meissner Effect in Neutron Star Systems

Alexandra Ficht [17] – Waterloo-Wellington ON
A Study of the Leaf Striping in Barley

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.

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Gravito-Meissner Effect in Neutron Star Systems

Alexandra Ficht [17] – Waterloo-Wellington ON
A Study of the Leaf Striping in Barley

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.

Jacinthe Mc Lean [16], **Marie-Ève Mc Lean** [17] – Montérégie QC
Renouv-eau

Janelle Tam [17] – Waterloo-Wellington ON
Nanocrystalline Cellulose: A Renewable Antioxidant

Tim Carlielle [18] – Central Alberta AB
The SkiBreeze - A Ski Innovation

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Madison Ricard [17] – Edmonton AB

From The Ground Up Pt III

Brandon Whitley [17] – Frontenac, Lennox & Addington ON

The Living Wall: An Educational Innovation

Usman Kamran [18] – Wood Buffalo AB

The Acousto-Thermal Effect

Jerry Chen [17] – London District ON

Robotic Watering System

Ramaneek Gill [18], **Edward Wang** [15] – Peel ON

Enhancing the User-Immersive Experience with a Natural User Interface

Jessie MacAlpine [17] – London District ON

Callelo: a novel bioherbicide

Kelly Zheng [17] – Saskatoon SK

Helping the Grain Industry: Developing a RT-PCR based purity test for Durum

Ashley Bell [17], **Laura Kim** [19] – Manitoba Schools Science Symposium MB

Using Nuclear Matrix to Detect Colorectal Cancer Cells

Sarah Julia Hyslop [17] – Calgary Youth AB

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Lisa Marie Di Vona [17] – York ON

Identification of New Aurora Kinase Inhibitors: Treatment of Human Neuroblastoma

Moriah Harvey [17] – Northwestern Ontario ON

CH₃CH₂OH-white latex paint as an antifouling agent

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Bioremediation des nanotubes de carbone multiparois

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Moaz Rashad [18] – Regina SK

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Brittney Allen [18] – Fundy NB

I'm Lichen It! Biotic de-Stress Foliar Spray

Anna O'Grady [18] – Eastern Newfoundland NL

Unveiling Dark Matter: A Study of Dark Matter and its Effects on Galaxy Clusters

Dalhousie University Faculty of Science Entrance Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: Dalhousie University

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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Computational Methods for the Screening of Novel Neuraminidase Inhibitors

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Charlottetown, PEI



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Carlos Xu [17] – Greater Vancouver BC

Gravito-Meissner Effect in Neutron Star Systems

Alexandra Ficht [17] – Waterloo-Wellington ON

A Study of the Leaf Striping in Barley

Dalhousie University Faculty of Science Entrance Scholarship

Senior Silver Medallist - \$2500 Entrance Scholarship

Sponsor: Dalhousie University

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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Renouv-eau

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Nanocrystalline Cellulose: A Renewable Antioxidant

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Using Nuclear Matrix to Detect Colorectal Cancer Cells

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Canada-Wide Science Fair 2012

Charlottetown, PEI



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CH₃CH₂OH-white latex paint as an antifouling agent

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I'm Lichen It! Biotic de-Stress Foliar Spray

Anna O'Grady [18] – Eastern Newfoundland NL

Unveiling Dark Matter: A Study of Dark Matter and its Effects on Galaxy Clusters

Excellence Award - Senior

Gold Medal

Sponsor: Youth Science Canada

Medal, \$1500 cash & certificate

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Soleil, où es-tu?

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Alexandra Ficht [17] – Waterloo-Wellington ON

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Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Excellence Award - Intermediate

Gold Medal

Sponsor: Youth Science Canada
Medal, \$1500 cash & certificate

Jennifer Csele [16] – Niagara ON

A Novel Cold Cathode Source For Determining Lead Contamination

Dan Alferov [15] – London District ON

Perception of Natural Colour

Jamil Merali [15] – North Bay ON

"Shoe" Me the Haptic Way

Madeline Stever [16] – Peterborough ON

Sunscreen: The Good, The Bad And The Metallic Taste In My Mouth - Part 3

Avinash Pandey [15] – Waterloo-Wellington ON

Improving Compliance to Lifesaving Medications

Simone Adam [16], **Laurence Dubé** [16] – Québec et Chaudière-Appalaches QC

Un champignon emballant!

Hayley Marie Todesco [16] – Calgary Youth AB

Tailings Transformation: Microbial Bioremediation of Oil Sands Tailings

Mikaela Preston [16] – York ON

BioHydrogen Fuel from Photosynthetic Bacteria: Studying Single Stage Reactors

Laurent Joli-Coeur [16] – Montréal CLS QC

La quête de l'ombre jovienne

Victor Ling [16] – London District ON

Gold Nanoparticles for Targeted Cancer Treatment

Excellence Award - Junior

Gold Medal

Sponsor: Youth Science Canada
Medal, \$1500 cash & certificate

Raymond Wang [14] – Greater Vancouver BC

Smart Knee Assistant

Cove McConnell [13] – Frontenac, Lennox & Addington ON

Tubercles: The Leading Edge of Wing Design

Terra Lanteigne [14] – Halifax NS

Cold Play: What will keep the puck cold for the entire play?

Shane Hickman [14] – Niagara ON

Plug & Play Multi-Sensor Platform For Emergency Assist Robot

Janice Pang [14] – Greater Vancouver BC

Pre-exposing RAW264.7 Macrophages to Microbial Product, PAM3CSK4

Harishitaa Prithiviraj [13] – Chignecto West NS

A Sniff A Day, Let the Memory Stay!!!

Laurence Emery [14] – Peterborough ON

Bioindicators Reveal the Most Eco-Friendly Road Salt Part 2

Aspen Lillywhite [13] – Chinook Country AB

Arctic Offshore Drilling & Temperature Effects on Cleanup of Potential Oil Spill

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Christian Au [12] – Rideau-St. Lawrence ON
BBs: Ballistics gone Bio

Maya Burhanpurkar [13] – Simcoe County ON
Uncovering the Cardiac and Gastrointestinal Safety of Two Amyloid- β Inhibitors

Excellence Award - Senior

Silver Medal

Sponsor: Youth Science Canada
Medal, \$700 cash & certificate

Jacinthe Mc Lean [16], **Marie-Ève Mc Lean** [17] – Montérégie QC
Renouv-eau

Janelle Tam [17] – Waterloo-Wellington ON
Nanocrystalline Cellulose: A Renewable Antioxidant

Tim Carlielle [18] – Central Alberta AB
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Madison Ricard [17] – Edmonton AB
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Usman Kamran [18] – Wood Buffalo AB
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Jerry Chen [17] – London District ON
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Arnaud Desrosiers [19] – Montréal CLS QC
Bioremédiation des nanotubes de carbone multiparois

Rachel Brown [19], **Katie Van der Sloot** [18] – Kiwanis Southeast Alberta AB
Triclosan: Double Danger Take 2

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Brittney Allen [18] – Fundy NB

I'm Lichen It! Biotic de-Stress Foliar Spray

Anna O'Grady [18] – Eastern Newfoundland NL

Unveiling Dark Matter: A Study of Dark Matter and its Effects on Galaxy Clusters

Excellence Award - Intermediate

Silver Medal

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

Aditya Mohan [15], **Gayashan Tennakoon** [15] – Ottawa ON

Algal Biofuels: A Greener Solution

Simon Lemay-Lauzière [16] – Québec et Chaudière-Appalaches QC

Rubik2D2

Amanda Wong [15] – Winnipeg Schools MB

Constructing an Infrared Camera Touchscreen

Arjun Nair [16] – Calgary Youth AB

A Novel Study Exploring Photothermal Therapy for Protein Denaturation in Cancer

Alexander Deans [15] – Windsor ON

iBELT: Training the Ear to See!

Kyle Potts [15] – Simcoe County ON

The Little Piggy With The Right Idea, I "Wood" Build A House From Straw

Nicholas Barrett [16] – Cape Breton NS

On My Whistle: A Command System for Hearing Impaired Soccer Players

Maddie LaClaire [15], **Nicole Larson** [16] – Alberta Central East AB

Your Health and Five 'S' Home Screening

Minuoja Chandramohan [16] – Montréal CLS QC

Du cacao pour une peau saine!

Gerry Nour Chamaa [16], **Manu Rangaya** [15] – Estrie QC

Immunofluorescence

Louis-Charles Desbiens [16], **Vincent Maltais** [17] – Saguenay-Lac Saint-Jean QC

Le mystère de K5

Sujay Nagaraj [15] – Calgary Youth AB

Finding Cures for Childhood Brain Tumors

Kevala Van Volkenburg [15] – Northern British Columbia BC

Finding a Better Brain Booster

Ankita Saxena [16] – Calgary Youth AB

Understand-ING Replicative Senescence

Aisha Lillywhite [15] – Chinook Country AB

Bacterial Presence and Contamination of Washed Hands After Using Air Hand Dryers

Meagan Haugen-Koechl [15] – Northern British Columbia BC

Feeding the Bees: A Seasonal Protein Analysis for Bumblebees of the Peace

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Varsha Jayasankar [16] – Niagara ON

Plantibiotics: A "CACE" Study

Archita Adluri [16] – Eastern Newfoundland NL

How pure is it?

Karishini Ramamoorthi [16], **Smruthi Ramesh** [15] – Peel ON

Prunus Armeniaca: the Fuel of the Future

Emily O'Reilly [15] – Central Interior British Columbia BC

The Effects of Prunus armeniaca (apricot kernel) on HeLa Cancer Cells

Excellence Award - Junior

Silver Medal

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

Madison Kieffer [13] – Fundy NB

Raise it to a Boil! Calculating Calories

Helen Czapor [13] – Sudbury ON

Do You Feel Lucky?

Rachel Alexandra Shadoff [14] – Peel ON

Vortex Cooling

Keaton Woods Chadwick [14] – Peel ON

The Efficient 2-Stroke Engine

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

Pro.Tech.Neck: The Future of Hockey Neck Guards

Candace Brooks-Da Silva [13] – Windsor ON

Quick! Sound the Alarm: Rescuing Objects From A Non-Newtonian Fluid

Savanna Grace Enright [14] – Renfrew County ON

Milk Replacer Metering and Mixing Station

Abhishek Chakraborty [13] – Manitoba Schools Science Symposium MB

Effects of Folic Acid on Cellular Senescence

Catharine Bowman [14] – Bay Area ON

Get a Grip on It!

Jacob Newkirk [13] – Yukon/Stikine YT

Mythbusting Mouth Guards

Mikayla Berger [14] – Lethbridge AB

Do Re Mi - The Effect of Auditory Stimuli on Memory

Claire Bertens [14], **Brooklyn McDonald** [14] – Central Alberta AB

Crush That Thrush

Dylan McFadden [14] – Simcoe County ON

To Clench, or Not to Clench

Graham Bohm [13] – Bay Area ON

From Salted Streets to Salty Streams

Skye Preston [14] – York ON

Enhancing Wetland Bioremediation

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Elora Weiler [13] – East Parry Sound ON
Carbon Fingerprint

Avery Dextrase [14] – Peterborough ON
Where the Butterflies Roam

Daniel O'Reilly [12] – Central Interior British Columbia BC
Another One Bites The Dust

Bryant Schroeder [14] – Chinook Country AB
Differentiating the Potential for Injury between Hardball and Softball

Ty Godfrey [14] – Canadian Rockies AB
Can UV What Birds See?

Excellence Award - Senior

Bronze Medal

Sponsor: Nuclear Waste Management Organization
Medal, \$300 cash & certificate

Sarah Maccallum [19] – Chignecto East NS
Super Plants: Seed Preconditioning in Bok Choy Plants to Increase Crop Yield

Zeyu Liu [17] – Calgary Youth AB
A Novel Approach to Electromagnetic Bearing Systems

Nick Johnston [17] – South Fraser BC
Unspoken Speech Detection Using a Non-Invasive Brain Computer Interface

Karl Zimmermann [17] – Algoma Rotary ON
The Algal Alternative: A Biofuel Investigation

Angela Gaiero [18], **Jerry Han** [18] – Niagara ON
Autonomous Gamma and Beta Radiation Detection and Mapping Robot

Jocelyn Tanton [17] – East Kootenay BC
Wheelchair Bowling Ramp

Ellen Song [18] – Annapolis Valley NS
Fruit Flavour: The Double Benefit of Aroma Volatile Treatments

Tiange Li [18] – Toronto ON
Adjustable Circular Cutter for Baseplates in the Ostomy Pouching System

Tyler Bennett [17] – Toronto ON
Up, Up and Away-A wind Tunnel Experiment

Colin Hooper [17] – Cape Breton NS
Automated Personal Trainer

Benoît Corriveau [17] – Estrie QC
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Distraction Factor

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Alternative Text Entry

Alexander Rey [19] – Bay Area ON
More than Just Brushing

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DiagP53: un classificateur génétique pour le diagnostic du cancer du sein

Sakeena Panju [18] – York ON
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Rachel McLay [17] – Bluewater ON
The Effects of Vitamin D on Muscle Function

Savannah LeBlanc [18] – Strait NS
Eenie Meenie Miny Mo

Lucas Zeer-Wanklyn [18] – Central Okanagan BC
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Comparison of Contemporary and Original Norms of the Alberta Infant Motor Scale

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The Depth Of A Movement

Sarah Winsor [17] – Eastern Newfoundland NL
Can Your Diet Prevent Alzheimer's? The effects of Lysine on APP Processing

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Effect of Curcumin on RSV Replication and Virus Induced Cytokine Production

Jessie Beaulieu [19] – Côte-Nord QC
Polyrecyclage II

Kais Khimji [17], **Preston Lim** [17] – Greater Vancouver BC
The Golden Fleece: Innovative ways to clean up oil

Taylor Laekeman [18], **Amy Lin** [17] – Niagara ON
The Viability of Immobilized Enzyme as a Biocatalyst

Nicole Gastle [17], **Savannah Massimo** [17] – Peterborough ON
A Fibrous Answer to Oil Spills?

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Detoxification of Jatropha oil-Cake from Phorbol esters

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Énergie lunaire? un appareil unique pour capter l'énergie dans les marées

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Energy densities of fuels produced from plastic that has undergone thermal depol

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Wind Turbine Noise Stress and Immune Function

Stéphanie Clavet [19], **Benoit Petit** [19] – Abitibi-Témiscamingue QC
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Kaitlyn Stockley [17], **Jared Trask** [17] – Eastern Newfoundland NL
Shedding Light on Microalgae to Biofuel Production in Cold Environments

Alex Chlysta [17] – Vancouver Island BC
Minds & Media: Does Screen Time Affect School Performance?

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Benjamin Friedman [17] – Cariboo Mainline BC
A Turn for the Better

Briony Merritt [17], **Ellen Withers** [18] – Halifax NS
Creative Capacity: Discovering the Education Path to Divergent Thinking

Nathan Benson [17], **Alex Sletten** [18] – Saskatchewan Chinook SK
Coil Guns

Ashlesha Deshpande [16], **Heli Patel** [16] – Wood Buffalo AB
Dress to Impress!

Aiden Schenkels [17] – Chignecto West NS
Sleep on This

Excellence Award - Intermediate

Bronze Medal

Sponsor: Nuclear Waste Management Organization
Medal, \$300 cash & certificate

Alex Bercik [14], **Erik Bercik** [16] – Bay Area ON
A Novel Rooftop Wind Turbine for Convenient Residential Use

Benjamin Chisholm [16] – Conseil scolaire acadien provincial (CSAP) NS
La Suspension Magnétique

Dareen El-Sayed [16] – Winnipeg Schools MB
Antibiotic Activity in Oregano

Chris Lansang [15], **Annie Marie Ross** [15] – St. James-Assiniboia MB
Multitasking: Leave it to the Computer

Noah Bergmann [15] – Cariboo Mainline BC
Musical Modulations: The Modex Reloaded

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

Alex Rhee [15] – Peel ON
O-O-O: Making it Last with Ozone

Adrian Au [15], **Nathan Heuvel** [16] – Rideau-St. Lawrence ON
Exhaustive Energy

Theresa DeCola [15] – Quinte ON
Interplanetary Shipping 3

Carl Shen [14], **Gary Shen** [14] – London District ON
Smartphone-Based Fall Detection

Mireille Salloum [15] – Ottawa ON
Absorption des couches

Prakriti Pratijit [15] – Saskatoon SK
Constructing Economical and Durable Rural Roads using Stabilized Soils

Gurmeen Kaur Banipal [15], **Charanpreet Mahal** [15] – Fraser Valley BC
Revealing the Invisible World of Radon

Qasim Ali [15] – Edmonton AB
Lighten the Pressure

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



-
- Shreyas Devalapurkar** [16] – Manitoba Schools Science Symposium MB
The Effect of Oxidative Stress on Protein Profile of Cells
-
- Eran Ittah** [16], **David Lasry** [16] – Montreal QC
A Change of Heart
-
- Alison Schwenk** [15], **Sarah Sheppard** [14] – Greater Vancouver BC
Soccer and shoes: the un-toe-Id story
-
- Rachael McPhail** [15] – Northern British Columbia BC
To Play or Not To Play?
-
- Mikaela Cockney-MacNeil** [16] – Beaufort-Delta NT
Are You Sure?
-
- Fiona Weaver** [15] – East Parry Sound ON
Stop Talking Dirty
-
- Shaylee McGuire** [15], **Andrea Wong** [16] – Fraser Valley BC
TeloMice: The Effects of Telomere Enhancing Products on Mice
-
- Arjuna Yusuf** [16] – Bay Area ON
The Effect of Baroque Music and Silent Sitting on Concentration
-
- Sam Stuart** [15] – Simcoe County ON
The Twitter VS Facebook 2012
-
- Ankur Shahi** [16] – Northwestern Ontario ON
Biochar: A Low Cost Solution for Water Treatment Using Industrial Waste
-
- Mackenzie Finch** [16] – Cariboo Mainline BC
Drinking Water: An Environmental Filtration System
-
- Dawson Heggstad** [14], **Harlan Wutzke** [15] – Saskatoon SK
Clean-All
-
- Katherine Evans** [15] – Vancouver Island BC
From Tank to Tap: Are Carcinogens Being Introduced into Piers Island Water?
-
- Peter Issekutz** [15] – Halifax NS
Finding Natural Fire Retardant Solutions
-
- Shannon MacLennan** [15] – Strait NS
Can You Give Cleaning A Greener Meaning?
-
- Adamo Young** [16] – Ottawa ON
*War of the Wasps: comparing the parasitism effectiveness of the wasps *D. insular**
-
- Eleonore Day** [14], **Vincent Girard** [15] – Toronto ON
Keeping It Old School!
-
- Cathy Tie** [16], **Katina Zheng** [16] – Peel ON
Bioethanol Research: Here Today, Here Tomorrow
-
- Meagan Fabel** [16] – Windsor ON
Fun in the Sun - Improving the Efficiency of Grätzel Cells
-
- Brynn Charron** [16] – Windsor ON
Wind Amplification in a Multi-Stage System: Let's Amp Up the Power! Part 2
-
- Shifa Hayat** [16] – Greater Vancouver BC
Fermented Wastes Rule and They Make... Fuel?!

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Olivier Cloutier [16] – Est du Québec QC

Périr la bouche grande ouverte

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

Big or Small; Narrow or Wide: Text Presentation for Early Readers

Meg Cumming [14], **Breanna Gowe** [15] – Central Okanagan BC

An Iota of Colour on Io

Kiri Daust [15] – Pacific Northwest BC

Measuring Melodies: Does Pattern Predict Preference?

Julia Sarty [15] – Halifax NS

Staying Aligned: Basic Ballet Necessities Under Scrutiny

Excellence Award - Junior

Bronze Medal

Sponsor: Nuclear Waste Management Organization
Medal, \$300 cash & certificate

Soumya Srinivasan [14] – Ottawa ON

A Reliable, Portable, Monitoring Device for the Prevention of Accidental Drownin

Andy Glendinning [14] – Durham ON

A Better Gripper

Molly Boyle [14] – Fundy NB

A Slippery Situation

Kylee Hickey [13] – Fraser Valley BC

Kippypult

Diba Shojaeigoradel [14] – York ON

Using High Voltage Source for Low Voltage Load

Elizabeth Suen [14] – Greater Vancouver BC

What's Holding you Back?

John Laamanen [13] – Sudbury ON

Magnetic Motor: Potential Clean Energy

Megan Gran [13] – Sudbury ON

Trashbot: The Path of the Future

Marika Moskalyk [14] – Sudbury ON

BioFabric

Tevin Devasagayam [13] – Toronto ON

Color Changing Car

Taggart McMillan [14] – Prairie Valley SK

Smart Start

Edmund Zamora [13] – Bay Area ON

Double Trouble: The Effects of Multitasking and the Dangers of Distracted Driving

Tray MacDonald [15], **Callum Pickles** [14] – Cape Breton NS

File ScanX

Tamar Sifri [14] – Montreal QC

The Battle Against Aging

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Jiaying (Carol) He [14], **Bennett Tan** [13] – Greater Vancouver BC
Can Antioxidants prevent free radical damage, and possibly extend life?

Kaushar Mahetaji [14] – Bay Area ON
Corresponding With the Brain

Miranda Sherell [14] – West Kootenay & Boundary BC
Mixed Signals: Are the Synesthetes Among Us?

Carina Fascinato [13] – Bluewater ON
Family Spines

Ethan Milne [14] – Avon Maitland-Huron Perth ON
The Power of the Placebo

Xing Yi Liu [12] – Toronto ON
Block Those Rays!

Rashmini Shunmugam [14] – Western Manitoba MB
Mind blowing Heart thumping Finger Snapping . . . Gaming!

Mark van der Velden [14] – Simcoe County ON
Concussion Minimization

Ossama Mahmoud [14] – London District ON
Natural chelating agents cleaning our environment

Olivia Cerilli [13] – Bay Area ON
Paw Prints Through the Forest: Tracking Grey Wolves in Superior National Forest

Michaela Crea [14] – North Bay ON
Experimental Grout

Amelia Krelove [13] – Simcoe County ON
Here Today, Gone CO2morrow

Pelly Vincent-Braun [13] – Yukon/Stikine YT
iPod Hydro Charger

Adrian Hucal [13] – Bay Area ON
Where Does the Wind Test Best?

Patrick Sem [12] – York ON
What is the optimal design to harness wind, solar & thermal energy?

Christian Besoiu [14] – Calgary Youth AB
Homemade Biodiesel

Katherine Teeter [14] – Bluewater ON
Alternative Current: The Third World Electrical System

Charlène Golsteyn [12] – Lethbridge AB
Boue = Electricite?!

Elizabeth Aarts [13] – Avon Maitland-Huron Perth ON
Reduce, Recycle, Reuse

Cameron Lidkea [13] – Sunset Country ON
Striking Difference

Lauren Wood [14] – Sudbury ON
Sudden Impact

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Neha Gulati [12] – Niagara ON
Reflex: Get Your Facts Straight

Iain Green [14] – Annapolis Valley NS
How Much Is This Going to Hurt? The Effect of Temperature on Paintballs

Andrew Ilyas [13], **Nikhil Patil** [13] – Waterloo-Wellington ON
Optical Illusions - Does Colour Affect the Illusion?

Patrick Fraser [14] – Avon Maitland-Huron Perth ON
The Confinable Cosmos

Madeleine Yeomans [14] – North Bay ON
What Moves Us

Gold Medal - International

Sponsor: Youth Science Canada
Medal and a certificate

Hao-Lun Hsu [19], **Shih-Ting Hsu** [18] – Taiwan, R.O.C.
Thylakoid-Sensitized Solar Cell Using Shade Plants and Sunny Plants

Challenge Award - Resources

Senior

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

Kelcie Miller-Anderson [18] – Calgary Youth AB
Mycoremediation of the Oil Sands

Challenge Award - Resources

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Aditya Mohan [15], **Gayashan Tennakoon** [15] – Ottawa ON
Algal Biofuels: A Greener Solution

Challenge Award - Innovation

Senior

Sponsor: Research in Motion Limited
\$1,000 cash & certificate

Eric LeGresley [16] – Fraser Valley BC
Computational Methods for the Screening of Novel Neuraminidase Inhibitors

Challenge Award - Innovation

Intermediate

Sponsor: Research in Motion Limited
\$750 cash & certificate

Dan Alferov [15] – London District ON
Perception of Natural Colour

Challenge Award - Innovation

Junior

Sponsor: Research in Motion Limited
\$500 cash & certificate

Shane Hickman [14] – Niagara ON
Plug & Play Multi-Sensor Platform For Emergency Assist Robot

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Challenge Award - Information

Senior

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

Logan Burns [17], Robert Fournier [17] – Rideau-St. Lawrence ON
Distraction Factor

Challenge Award - Information

Intermediate

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

Maddie LaClaire [15], Nicole Larson [16] – Alberta Central East AB
Your Health and Five 'S' Home Screening

Challenge Award - Information

Junior

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

Edmund Zamora [13] – Bay Area ON
Double Trouble: The Effects of Multitasking and the Dangers of Distracted Driving

Challenge Award - Health

Senior

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

Weige Zhao [18] – Toronto ON
Enhancing Chemotherapy

Challenge Award - Health

Intermediate

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

Avinash Pandey [15] – Waterloo-Wellington ON
Improving Compliance to Lifesaving Medications

Challenge Award - Health

Junior

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

Janice Pang [14] – Greater Vancouver BC
Pre-exposing RAW264.7 Macrophages to Microbial Product, PAM3CSK4

Challenge Award - Environment

Senior

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

Kate Berger [17], Jasveen Brar [17] – Kiwanis Southeast Alberta AB
Environmental Distribution of Giardia and Cryptosporidium

Challenge Award - Environment

Intermediate

Sponsor: Encana Corporation
\$750 cash & certificate

Hayley Marie Todesco [16] – Calgary Youth AB
Tailings Transformation: Microbial Bioremediation of Oil Sands Tailings

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Challenge Award - Environment

Junior

Sponsor: Encana Corporation
\$500 cash & certificate

Laurence Emery [14] – Peterborough ON
Bioindicators Reveal the Most Eco-Friendly Road Salt Part 2

Challenge Award - Energy

Senior

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

Yassine Bouanane [17] – Rive-Nord QC
Soleil, où es-tu?

Challenge Award - Energy

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Mikaela Preston [16] – York ON
BioHydrogen Fuel from Photosynthetic Bacteria: Studying Single Stage Reactors

Challenge Award - Energy

Junior

Sponsor: Youth Science Canada
\$500 cash & certificate

Elizabeth Aarts [13] – Avon Maitland-Huron Perth ON
Reduce, Recycle, Reuse

Challenge Award - Discovery

Senior

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

Carlos Xu [17] – Greater Vancouver BC
Gravito-Meissner Effect in Neutron Star Systems

Challenge Award - Discovery

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Laurent Joli-Coeur [16] – Montréal CLS QC
La quête de l'ombre jovienne

Challenge Award - Discovery

Junior

Sponsor: Youth Science Canada
\$500 cash & certificate

Maya Burhanpurkar [13] – Simcoe County ON
Uncovering the Cardiac and Gastrointestinal Safety of Two Amyloid- β Inhibitors

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



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.

Maggie Wang [17] – Greater Vancouver BC

Magnolia: Effects on Breast Cancer Cells

Statistical Society of Canada Award

Sponsor: Statistical Society of Canada

\$1000 cash & certificate

Julia Ziyue Peng [17] – Regina SK

The Environmental Impact and Bioaccumulation of Pollutants in Wascana Creek

Statistical Society of Canada and Biostatistics Section Award

Sponsor: Statistical Society of Canada and Biostatistics Section

\$750 cash & certificate

Shifa Hayat [16] – Greater Vancouver BC

Fermented Wastes Rule and They Make... Fuel?!

S.M. Blair Family Foundation Award

Senior

Sponsor: S.M. Blair Family Foundation

\$1000 cash & certificate

Christoph Vetter [18] – Strait NS

Can Tires Provide an Alternative to Furnace Oil?

S.M. Blair Family Foundation Award

Intermediate

Sponsor: S.M. Blair Family Foundation

\$750 cash & certificate

Jennifer Csele [16] – Niagara ON

A Novel Cold Cathode Source For Determining Lead Contamination

S.M. Blair Family Foundation Award

Junior

Sponsor: S.M. Blair Family Foundation

\$500 cash & certificate

Raymond Wang [14] – Greater Vancouver BC

Smart Knee Assistant

Renewable Energy Award

Senior

Sponsor: Ontario Power Generation

\$1000 cash & certificate

Keltie Murdoch [17] – East Kootenay BC

GeoAir

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Renewable Energy Award

Intermediate

Sponsor: Ontario Power Generation
\$750 cash & certificate

Cathy Tie [16], Katina Zheng [16] – Peel ON

Bioethanol Research: Here Today, Here Tomorrow

Renewable Energy Award

Junior

Sponsor: Ontario Power Generation
\$500 cash & certificate

Charlène Golsteyn [12] – Lethbridge AB

Boue = Electricite?!

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).

Kelcie Miller-Anderson [18] – Calgary Youth AB

Mycoremediation of the Oil Sands

Zeyu Liu [17] – Calgary Youth AB

A Novel Approach to Electromagnetic Bearing Systems

Usman Kamran [18] – Wood Buffalo AB

The Acousto-Thermal Effect

Jocelyn Tanton [17] – East Kootenay BC

Wheelchair Bowling Ramp

Eric LeGresley [16] – Fraser Valley BC

Computational Methods for the Screening of Novel Neuraminidase Inhibitors

Adelina Corina Cozma [17] – York ON

Novel Learning in the Brain: Insights from Neuroimaging & Augmentative Training

Diana Bark [18], Neesha Persad [17] – Edmonton AB

Pounding Cancer with PTEN

Carlos Xu [17] – Greater Vancouver BC

Gravito-Meissner Effect in Neutron Star Systems

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).

Kelcie Miller-Anderson [18] – Calgary Youth AB

Mycoremediation of the Oil Sands

Eric LeGresley [16] – Fraser Valley BC

Computational Methods for the Screening of Novel Neuraminidase Inhibitors

Adelina Corina Cozma [17] – York ON

Novel Learning in the Brain: Insights from Neuroimaging & Augmentative Training

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



Carlos Xu [17] – Greater Vancouver BC
Gravito-Meissner Effect in Neutron Star Systems

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 2012 (ISSYP 2012) from July 12–28, 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 \$3500.

Benjamin Friedman [17] – Cariboo Mainline BC
A Turn for the Better

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 25–30, 2012, 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.

Jessie Beaulieu [19] – Côte-Nord QC
Polyrecyclage II

Arnaud Desrosiers [19] – Montréal CLS QC
Bioremédiation des nanotubes de carbone multiparois

Nicole Gastle [17], **Savannah Massimo** [17] – Peterborough ON
A Fibrous Answer to Oil Spills?

The Canadian Society for the Weizmann Institute of Science Scholarships

Joseph W. and Joel Anthony Leon Kerbel Scholarship

Sponsor: The Canadian Society for the Weizmann Institute of Science (Weizmann Canada)
The scholarship 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 2–27, 2012. Total scholarship value \$9,400.

Kelly Zheng [17] – Saskatoon SK
Helping the Grain Industry: Developing a RT-PCR based purity test for Durum

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 August 15-21, 2013 in Abu Dhabi, United Arab Emirates, and will receive a certificate. Total value \$5000.

Yassine Bouanane [17] – Rive-Nord QC
Soleil, où es-tu?

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



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 2013. 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.

Eran Ittah [16], David Lasry [16] – Montreal QC

A Change of Heart

Simone Adam [16], Laurence Dubé [16] – Québec et Chaudière-Appalaches QC

Un champignon emballant!

The Actuarial Foundation of Canada Award

Senior

Sponsor: The Actuarial Foundation of Canada
\$1000 cash & certificate

Alexander Rey [19] – Bay Area ON

More than Just Brushing

Chang Su [19] – Calgary Youth AB

"Pineing" for the Future

The Actuarial Foundation of Canada Award

Intermediate

Sponsor: The Actuarial Foundation of Canada
\$750 cash & certificate

Arjun Nair [16] – Calgary Youth AB

A Novel Study Exploring Photothermal Therapy for Protein Denaturation in Cancer

Theresa DeCola [15] – Quinte ON

Interplanetary Shipping 3

The Actuarial Foundation of Canada Award

Junior

Sponsor: The Actuarial Foundation of Canada
\$500 cash & certificate

Ossama Mahmoud [14] – London District ON

Natural chelating agents cleaning our environment

Maya Burhanpurkar [13] – Simcoe County ON

Uncovering the Cardiac and Gastrointestinal Safety of Two Amyloid- β Inhibitors

Discovery Channel Math Award

Sponsor: Discovery Channel
\$750 cash & certificate

Robyn Vivian [14] – Central Newfoundland NL

Let's Cross That Bridge When We Come to It

CSSE Engineering Innovation Award

Senior

Sponsor: Canadian Society for Senior Engineers
\$1000 cash & certificate

Keltie Murdoch [17] – East Kootenay BC

GeoAir

Award Recipients

Canada-Wide Science Fair 2012

Charlottetown, PEI



CSSE Engineering Innovation Award

Junior

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

Alexander Drover [13], **Jack Lott** [13] – Frontenac, Lennox & Addington ON
Pro.Tech.Neck: The Future of Hockey Neck Guards

Carlson Wagonlit Award

Sponsor: Carlson Wagonlit Travel
\$500 cash & certificate

Aidan Aird [13] – York ON
Subsonic Open-Circuit Wind Tunnel

CAP Physics Prize

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

Anna O'Grady [18] – Eastern Newfoundland NL
Unveiling Dark Matter: A Study of Dark Matter and its Effects on Galaxy Clusters

Canadian Society for Medical Laboratory Science Award

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

Sujay Nagaraj [15] – Calgary Youth AB
Finding Cures for Childhood Brain Tumors

Canadian Acoustical Association Award

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

Usman Kamran [18] – Wood Buffalo AB
The Acousto-Thermal Effect

Award for Excellence in Astronomy

Junior

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

Patrick Fraser [14] – Avon Maitland-Huron Perth ON
The Confinable Cosmos