

63rd NIAGARA REGIONAL SCIENCE AND ENGINEERING FAIR

Student Name	Partner Name	Title
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SPECIAL AWARDS

Science Process Awards

Winter Loewen		Peck-tacular Colour Test
Maverick Smith		Les moteurs: lesquels sont les plus fiables?
Sanjana Bhandari		Bioplastics: A Way to Save the World

Brock University Applied Health Science Award *NEW AWARD*

Indi Williams		À vos marques, prêt, réagir
Maya Sternin		Seat Position As a Measure of Dynamic Recovery in Rowing

Brock University Engineering Award * NEW AWARD*

Ajit Kaur		Brain Circulation: When Blood Thickens and Arteries Narrow
Ghadeer Al-Salami		The Bus Seat Alert System
Bryce Dywan		An Affordable, Off-Grid Ventilation System for Reducing Indoor Air Pollution from Cooking Fires
Maya Sternin		Seat Position As a Measure of Dynamic Recovery in Rowing

Business and Professional Women of Niagara Falls Award

Narmeen Syed		AptCare: A Digital Health Prototype App
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Ontario Association of Certified Engineering Technicians and Technologists Award (OACETT Niagara Chapter)

Matthias Lodewyk		Automated Four-Fuel System for Small Engines
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Manian Memorial Award

Sophie Clattenburg		Evaluating Bio-coagulant Efficiency: Sustainable Alternatives to Alum for Microplastic Removal from Water
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Sikamani Memorial Award

Maele Marcheterre		It's Getting Hot In Here
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SPECIAL AWARDS continued

Niagara Peninsula Fruit & Vegetable Growers Association Award

Imamah Khan		Breast Cancer: Studying the broccoli growth and the germination in seeds
Skylar Lilley		How Different Water Types Affect Succulent Growth, Photosynthesis and Protein Levels?

Ontario Tender Fruit Marketing Board Award

Avi Joshi		From Root to Fruit: Polyphenol Oxidase Management in Plants to Improve Food Security
Sichen Lu		Genetic Comparison of Seeded and Seedless Grape Varieties Using DNA Markers

Elementary Teacher's Federation of Ontario (ETFO) Award

Avery Sowton		Filtration Station
Zoey Harasty		The Spike Study
Liam Cousineau		Pneumatic Power
Indi Williams		À vos marques, prêt, réagir

Brock University Earth Science Award

Philippe Procter	Abel Rochichaud-Nagy	Une tornade dans une boîte
Madeline Chliszczyk	Audrey Romansky	Stars and Constellations and Why They Matter

Brock University Social Sciences Award

Leela Tupman		Insight Or Indoctrination
Ethan Pang		Recycling Knowledge, Behavior, And The Impact Of Station Design On Sorting Accuracy

Brock University Psychology Award

Georgia Smith	Jessica Nguyen	Operation Optimism
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SPECIAL AWARDS continued

Brock University Mathematics and Statistics Award

Hania Dar	Eshal Ramzan	Dire Consequences: Releasing a Super Predator
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Brock University Biology Award

Avi Joshi		From Root to Fruit: Polyphenol Oxidase Management in Plants to Improve Food Security
Humza Syed		Plants and Gases
Laura Palumbo		Green Eggs and Solar-Powered Salamanders: How Symbiotic Algae Detox Ammonia in Spotted Salamander Embryos

Brock University Chemistry Award

Miangué Karambal	Emily Vocal	Chaud ou Froid, Quelle temperature impacte la vitesse de la production de biogaz
Nehal Amini	Miracle Asingya	Teeth vs Beverages
Marlowe Seymoure	Adelaide Lewicki	Makeup Removers

Brock University Physics Award

Walker Curtis		Up Up and Away!
Liam Cousineau		Pneumatic Power

Accipiter Radar Technologies Award for Engineering Innovation

Matthias Lodewyk		Automated Four-Fuel System for Small Engines
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Club Richelieu Niagara Falls Award

Indi Williams		À vos marques, prêt, réagir
Riley Fournier	Sofie Rouleau	Vidéos virales et grains fatals: On a testé la vérité sur le maïs soufflé!

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SPECIAL AWARDS continued

Ontario Institute of Agrology, Niagara Branch Award

Annika Peters	Eviyan Kosuta	Glow and Grow: How does light colour affect plant growth?
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Water Environmental Association of Ontario (WEAO) Award

Sophie Clattenburg		Evaluating Bio-coagulant Efficiency: Sustainable Alternatives to Alum for Microplastic Removal from Water
Ella Olivieri		What's In Your Wash?!

Mancuso Chemicals Award

Brandon Aleksiejuk		The Eggsperiment
Bronwyn Minor		Scrub Science

Dr. Marijane Doyle Award

Sunny Lovell		Comparative analysis of fully sequenced Y chromosomes reveals genomic insights.
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Innovation Science Award

Amaya Sahota		Plant Derived Vascular Scaffolds for Post Mastectomy Lactation Restoration: A Regenerative Approach to Mammary Duct Reconstruction
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Ontario Power Generation Award

Liam Cousineau		Pneumatic Power
Matthew Sourdos		Proof the hydrogen is the next super fuel
Amelia Cousineau		Stop the Spark
Matthias Lodewyk		Automated Four-Fuel System for Small Engines

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SPECIAL AWARDS continued

IEEE Prize for Basic Electricity and Magnetism

Bryce Dywan		An Affordable, Off-Grid Ventilation System for Reducing Indoor Air Pollution from Cooking Fires
Matthias Lodewyk		Automated Four-Fuel System for Small Engines

James Draper Memorial Award

Sophie Clattenburg		Evaluating Bio-coagulant Efficiency: Sustainable Alternatives to Alum for Microplastic Removal from Water
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Statistical Science Award

Jakob Teatro-Andrea	Jack Graveline	Flamecast
Akshat Saxena		Early detection of plant stress and disease using AI

Niagara-on-the-Lake Rotary Club Award

Sanjana Bhandari		Bioplastics: A Way to Save the World
Emilio Ciocca		Jolly Eggs
Amelia Cousineau		Stop the Spark
Matthias Lodewyk		Automated Four-Fuel System for Small Engines

Professional Engineers of Ontario Award

Muhammad Taha		Disaster Safe Home
Bryce Dywan		An Affordable, Off-Grid Ventilation System for Reducing Indoor Air Pollution from Cooking Fires

Muslim Medical Association of Canada - Niagara Chapter Award

Amaya Sahota		Plant Derived Vascular Scaffolds for Post Mastectomy Lactation Restoration: A Regenerative Approach to Mammary Duct Reconstruction
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MERIT AWARDS (CERTIFICATES, MEDALLIONS)

OPG	JUVENILE	Honourable Mention
Winter Loewen		Peck-tacular Colour Test
Addy Macdonald		Quelle crème pour peau sèche est la plus efficace?
Humza Syed		Plants and Gases

OPG	JUVENILE	Bronze Medal
Alex LeBlanc		Designing an Automatic Chicken Coop Door
Walker Curtis		Up Up and Away!

OPG	JUVENILE	Silver Medal
Giorgia Cargnelli		Too Fat to Foam
Jemma Arnold		Snow's Dirty Secret

NRSEF	JUNIOR	Honourable Mention
Scout Donaldson		Blood Balance
Herly Colin		Enviro-sense
Akshat Saxena		Early detection of plant stress and disease using AI
Jacob Vanderkooy		Can You Build It?
Graydon Berardi		How Well Can You Balance? How Surface, Vision, and Head Position Affect Your Stability

NRSEF	JUNIOR	Bronze Medal
Jemma Van Schaik		AI In Preventative Medicine
Avani Zastepa		Life on a Snowflake
Bronwyn Minor		Scrub Science
Jannah Watson		Ripe is Right!

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MERIT AWARDS (CERTIFICATES, MEDALLIONS) continued

NRSEF	JUNIOR	Silver Medal
Avi Joshi		From Root to Fruit: Polyphenol Oxidase Management in Plants to Improve Food Security

Niagara College	INTERMEDIATE	Silver Medal
Sunny Lovell		Comparative analysis of fully sequenced Y chromosomes reveals genomic insights.

Brock Faculty MS	SENIOR	Bronze Medal
Chloe St. Pierre		Protective Effects of Natural Coatings Against Acid Erosion on Enamel Analogues: A Comparative Experiment

Brock Faculty MS	SENIOR	Silver Medal
Maya Sternin		Seat Position As a Measure of Dynamic Recovery in Rowing

SCHOOL AWARDS

Juvenile: Studio T3 Engineering PLLC Award

Winner: St. Ann Catholic Elementary School (Pe) and Central Public Elementary School

Junior: "Junior School Award"

Winner: McKay Public Elementary School

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Brock University Entrance Scholarships

Laura Palumbo		Green Eggs and Solar-Powered Salamanders: How Symbiotic Algae Detox Ammonia in Spotted Salamander Embryos
Chloe St. Pierre		Protective Effects of Natural Coatings Against Acid Erosion on Enamel Analogues: A Comparative Experiment
Amaya Sahota		Plant Derived Vascular Scaffolds for Post Mastectomy Lactation Restoration: A Regenerative Approach to Mammary Duct Reconstruction

NRSEF Plaque for Outstanding Science Fair Teacher

Winner: Mr. Wesley Stonos, McKay Public Elementary School

MERIT AWARD WINNERS

Juvenile Gold Medal & Ontario

Imamah Khan		Breast Cancer: Studying the broccoli growth and the germination in seeds
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Junior Gold Medal & Junior Category Trophy

Sophie Clattenburg		Evaluating Bio-coagulant Efficiency: Sustainable Alternatives to Alum for Microplastic Removal from Water
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Intermediate Gold Medal & Niagara College Trophy

No gold awarded

Senior Gold Medal & Brock Faculty of Mathematics and Science Trophy

Laura Palumbo		Green Eggs and Solar-Powered Salamanders: How Symbiotic Algae Detox Ammonia in Spotted Salamander Embryos
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Team Niagara - Canada Wide Science Fair

Sophie Clattenburg		Evaluating Bio-coagulant Efficiency: Sustainable Alternatives to Alum for Microplastic Removal from Water
Avi Joshi		From Root to Fruit: Polyphenol Oxidase Management in Plants to Improve Food Security
Sunny Lovell		Comparative analysis of fully sequenced Y chromosomes reveals genomic insights.
Laura Palumbo		Green Eggs and Solar-Powered Salamanders: How Symbiotic Algae Detox Ammonia in Spotted Salamander Embryos
Maya Sternin		Seat Position As a Measure of Dynamic Recovery in Rowing

NRSEF Best in Fair Award

Sophie Clattenburg		Evaluating Bio-coagulant Efficiency: Sustainable Alternatives to Alum for Microplastic Removal from Water
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