61st Annual Vancouver Island Regional Science Fair



Vancouver Island Regional Science Fair (VIRSF) and the Society for the Advancement of Young Scientists (SAYS) would like to thank you for joining and congratulating our brilliant young scientists who participated in the regional science fair this year!

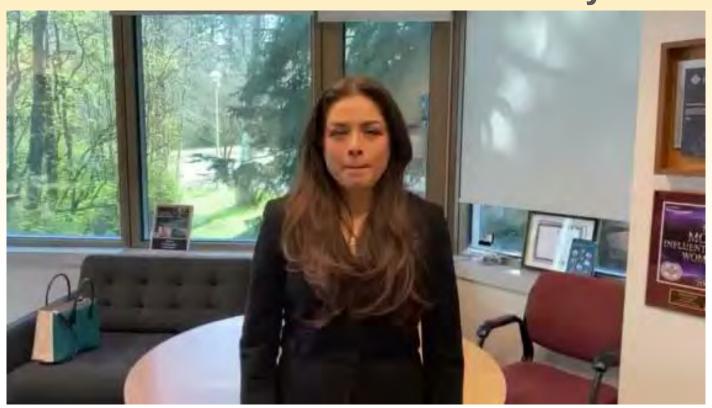


To begin, we would like to invite Science Associate Dean of Research at the University of Victoria, Dr Laura Cowen for a territorial acknowledgement and words for this year's participants.



The Dean of the Faculty of Engineering and Computer Science at the University of Victoria, Dr. Mina Hoorfar also has some kind words for our participants this year.

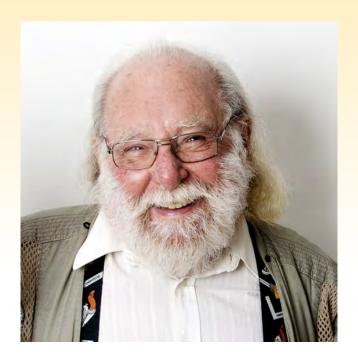




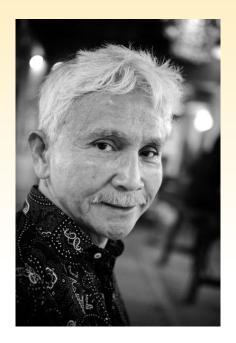
The Honourable Jennifer Whiteside, Minister of Education and Child Care would also like to extend congratulations to our participants on behalf of the Government of BC.



Before we get started with awards, we are going to take a moment to acknowledge a few of the great contributors to VIRSF and SAYS who we have lost this year



Murray W Enkin OC 29 May 1924 – 06 June 2021



Onofre (Jim) Geminiano DVM 02 May 1942 – 27 March 2021



Reginald H Mitchell PhD 01 September 1943 – 23 May 2021

We would like to thank the following sponsors:



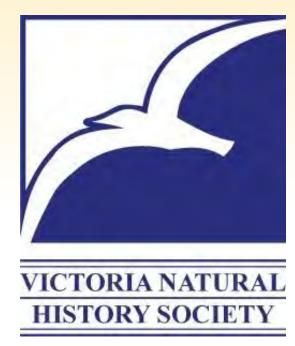
We would like to thank the following sponsors:



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We would like to thank the following sponsors:











Canadian Meteorological and Oceanographic Society



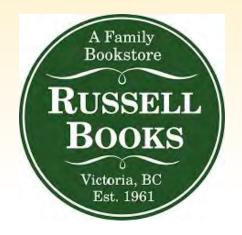
SCMO

Société canadienne de météorologie et d'océanographie



We would like to thank the following sponsors:









SINCE 1982

We would like to thank the following sponsors:







VICTORIA **Butterfly** GARDENŚ

We would also like to give many thanks to the additional sponsors who have donated other awards

They will be indicated on their respective awards



Something new this year!

Instead of ribbons—this year the Chair of Faculty of Mechanical Engineering at the University of Victoria, Brad Buckham, had his team create the 3D printed trophies that some of you will be receiving!!





Science Fair Foundation of British Columbia Awards

These awards and prizes are allocated to VIRSF from the Science Fair Foundation of BC



BC Agriculture in the Classroom Award is presented to:

June Adler & Mai-Ly Tran Cedar Hill Middle School Decomposing Food





BC Game Developers Innovation Award (Grade 7-8) is presented to:

Eric Zhang
Christ Church Cathedral Educational Society
What is the Best Number to Choose as the
Third Player in a Guessing Game of 1-100?



BC Game Developers Innovation Award (Grade 9-10) is presented to:

Nathan Hellner-Mestleman
Mount Douglas Secondary School
Breakup is a Drag



BC Game Developers Innovation Award (Grade 11-12) is presented to:

Geoff Lei
St Michaels University School
A Hidden Markov Model Based Computer
Platform for Evaluating Behaviour Within a
Zero Sum Game



BC Hydro Power Smart Award

is presented to:

Phoebe Dendes
Glenlyon Norfolk School
Algae Power! Can Marine Algae
be Used to Produce Electricity
in a Photovoltaic Cell?





BC Nature Award (Grade 4-8) is presented to:

Taylor Purves
Alberni Elementary
How Can Oil Spills be Cleaned Up from
Ocean Catastrophes more Efficiently?





BC Nature Award (Grade 9-12) is presented to:

Evan Papps
Glenlyon Norfolk School
Can Slime Mold Adapt and
Communicate?





BC Science Teachers Association Award is presented to:

Yingfan Bai & Abby Hoole St Michaels University School Warped Words and the Stroop Effect





Innovate BC Young Innovator Scholarship is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater



NSERC Young Innovators Award

is presented to:

Junming He
Glenlyon Norfolk School
Using Neural Networks to
Classify Garbages

Sarah McDonald
Shawnigan Lake School
Determining the Environmental
Effects of Cigarette Butts and
Vape Cartridges on Lake Water
Samples





Julia Lane Award Second Prize

is presented to:

Erin Plecas
Glenlyon Norfolk School
ADHD in Classrooms





Julia Lane Award First Prize is presented to:

Katharine Morley
Glenlyon Norfolk School
Coagulant Conundrum: Comparing the
Efficacy of Natural and Chemical
Coagulants





Michael Crooks Physics Award

is presented to:

April Simister
Alberni Elementary
Black Holes



Women in Engineering and Geoscience Award is presented to:

Sophie Jolivet
Glenlyon Norfolk School
Generating Electricity from the
Waste Heat Created in Composting



Science Fair Foundation of BC Awards

Genome BC Scholarship Nomination

is presented to:

Sarah McDonald
Shawnigan Lake School
Determining the Environmental Effects of
Cigarette Butts and Vape Cartridges on Lake
Water Samples



Science Fair Foundation of BC Awards

Julia Lane Scholarship Nomination is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater





These awards and prizes are generously donated from professional organizations and individuals to encourage and congratulate this year's participants in their pursuit of science



Alumni Award–Fifth Place

is presented to:

St. Michaels University School
Plant Robot



Alumni Award–Fourth Place

is presented to:

Tess Hellner-Mestleman Selkirk Montessori School Chew On This



Alumni Award—Third Place

is presented to:

Liam Pope-Lau & Fraser Tuck
St Michaels University School
Life Heat Mk.2: The Self-Heating
Lifejacket



Alumni Award-Second Place

is presented to:

Daniel Bekker
Glenlyon Norfolk School
Measuring Distance Through
Bluetooth EMR



Alumni Award–First Place is presented to:

Isaac Yu
Glenlyon Norfolk School
Aerodynamic Drag Reduction with
Vortex Generators



American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Award (Grade 4 - 8)

is presented to:

Beata Ariana-Minniti
Cedar Hill Middle School
Light at Night





American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Award (Grade 9 - 12)

is presented to:

Phoebe Dendes
Glenlyon Norfolk School
Algae Power! Can Marine Algae be
Used to Produce Electricity in a
Photovoltaic Cell?





Drs Rosemary & Walter Balfour Second Award is presented to:

Anishka Moonsamy
Aspengrove School
What Colours do Dogs See Best?



Drs Rosemary & Walter Balfour First Award is presented to:

Nouria Loomer-Douglas
Christ Church Cathedral Educational Society
The Effects of Grooming Horses



Science Fair Foundation of BC Awards

BC Hydro Power Pioneers Award

is presented to:

Nathan Hellner-Mestleman

Mount Douglas Secondary School

Breakup is a Drag





Science Fair Foundation of BC Awards

BC Hydro Power Pioneers Award

is presented to:

Laurian Blachford Magnus Effect





British Columbia Institute of Agrologists-Elementary is presented to:

Nathan Devine
Pacific Christian School
Rotten Veggies





British Columbia Institute of Agrologists-Intermediate is presented to:

Rafaela Patton
Christ Church Cathedral Educational Society
How Environmental Variables Affect Mushroom
Growth





British Columbia Institute of Agrologists—Junior is presented to:

Sophie Jolivet
Glenlyon Norfolk School
Generating Electricity from the Waste Heat Created
in Composting





British Columbia Institute of Agrologists-Senior is presented to:

Sarah McDonald
Shawnigan Lake School
Determining the Environmental Effects of
Cigarette Butts and Vape Cartridges on
Lake Water Samples





Dr Zonk Award

is presented to:

Liam Pope-Lau & Fraser Tuck
St Michaels University School
Life Heat Mk.2: The Self-Heating
Lifejacket



Canadian Meteorological and Oceanographic Society Award is presented to:

Laurian Blachford Magnus Effect



CMOS
Canadian Meteorological and
Oceanographic Society



SCMO

Société canadienne de météorologie et d'océanographie

Canadian Meteorological and Oceanographic Society Award is presented to:

Katharine Morley
Glenlyon Norfolk School
Coagulant Conundrum: Comparing the Efficacy
of Natural and Chemical Coagulants



CMOS
Canadian Meteorological and

Oceanographic Society



SCMO

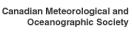
Société canadienne de météorologie et d'océanographie

Canadian Meteorological and Oceanographic Society Award is presented to:

Eunjo An
Orange Peels as Biosorbents in the
Treatment of Heavy Metal
Wastewater



CMOS





SCMO

Société canadienne de météorologie et d'océanographie

Gordon Patterson Award

is presented to:

Riley McCarthy
Fast Food Fries



Gordon Patterson Award

is presented to:

Christine Webster & Riyaan Ali
Alberni Elementary
How Humans See Colour Versus How
Dogs See Colour



Gordon Patterson Award

is presented to:

Zan Oliphant
Pop to Power the Planet



PARC Systems Award

is presented to:

Junming He
Glenlyon Norfolk School
Using Neural Networks to Classify
Garbages





Ocean Networks Canada Award

is presented to:

Katharine Morley
Glenlyon Norfolk School
Coagulant Conundrum: Comparing the
Efficacy of Natural and Chemical Coagulants





Out of the Box Award

is presented to:

Raphael Lee
Mount Douglas Secondary School
SwimGuard: A Drowning Detection and
Alert System



Rotary Club of Victoria Environment Fourth Place Award is presented to:

Katharine Morley
Glenlyon Norfolk School
Coagulant Conundrum: Comparing the
Efficacy of Natural and Chemical
Coagulants



Rotary Club of Victoria Environment Third Place Award is presented to:

Liam Pope-Lau & Fraser Tuck
St Michaels University School
Life Heat Mk.2: The Self-Heating
Lifejacket



Rotary Club of Victoria Environment Second Place Award is presented to:

Sarah McDonald
Shawnigan Lake School
Determining the Environmental Effects of
Cigarette Butts and Vape Cartridges on
Lake Water Samples



Rotary Club of Victoria Environment First Place Award is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater



Royal Astronomical Society of Canada Award is presented to:

Nathan Hellner-Mestleman

Mount Douglas Secondary School

Breakup is a Drag





Royal Astronomical Society of Canada Award is presented to:

Beata Ariana-Minniti
Cedar Hill Middle School
Light at Night





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Victoria Natural History Society Award

is presented to:

Liam Shah
St. Michaels University School
Health of Garry Oak Trees – Vancouver
Island's Special Trees





Victoria Natural History Society Award

is presented to:

Evan Papps
Glenlyon Norfolk School
Can Slime Mold Adapt and
Communicate?





Victoria Natural History Society Award

is presented to:

Sophie Goodman
Christ Church Cathedral Educational Society
What are Effective Natural Textile Dyes?



Victoria Natural History Society Award

is presented to:

Julie Forslund
Pacific Christian School
Rocktastic



Schneider Electric STEAM

"My Pet Would Love That!" Award
is presented to:

Elsa Lee & Felicia Huang
Central Middle School
Automatic Dog Feeder Machine





Schneider Electric STEAM

"Preserving the Peace in the House!" Award
is presented to:

Reagan Morley
Christ Church Cathedral Educational Society
Soundproofing for my Garage Band: Buffering
Low and High Frequency Sound Waves





Schneider Electric STEAM
"I Would Want That!" Award
is presented to:

Beata Ariana-Minniti
Cedar Hill Middle School
Light at Night





Schneider Electric STEAM

"My Shirt Would Love That!" Award
is presented to:

Preeya Kaur
St. Michaels University School
Dissolving Oils





Schneider Electric STEAM "I Would Use That!" Award

is presented to:

Sophie Jolivet
Glenlyon Norfolk School
Generating Electricity from the Waste Heat
Created in Composting





Schneider Electric STEAM

"The Lake Fish Would Love That!" Award
is presented to:

Sarah McDonald
Shawnigan Lake School
Determining the Environmental Effects of
Cigarette Butts and Vape Cartridges on Lake
Water Samples





Schneider Electric STEAM

'I Never Would Have Thought of That!" Award
is presented to:

Claire Collings
Christ Church Cathedral Educational Society
Building a Stellar Engine: Rationale and
Challenges





Schneider Electric STEAM

"Our Environment Would Love That" Award
is presented to:

Phoebe Dendes
Glenlyon Norfolk School
Algae Power! Can Marine Algae be Used to
Produce Electricity in a Photovoltaic Cell?





These awards are given to the top achievers in each age category.



Elementary Divisional (Grade 4 - 5) Award Sponsored by Quarky Science

is presented to:

Levi Martinez

Fourth place:

Pacific Christian School Launch N Fly

Third place:

Emily Watson
Pacific Christian School

What Temperatures do Radishes Prefer?



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Elementary Divisional (Grade 4 - 5) Award Sponsored by Quarky Science

is presented to:

Second place:

Julie Forslund
Pacific Christian School
Rocktastic

First place:

Nathan Devine
Pacific Christian School
Rotten Veggies



Science Science Science 61st VIRSF 2022

Intermediate Divisional (Grade 6 - 7) Award Sponsored by Victoria Butterfly Gardens

is presented to:

Claire Collings

Christ Church Cathedral Educational Society

Building a Stellar Engine: Rationale and Challenges

Special Mention:

Special Mention:

Liam Pope-Lau & Fraser Tuck
St Michaels University School
Life Heat Mk.2: The Self-Heating Lifejacket



Intermediate Divisional (Grade 6 - 7) Award Sponsored by Victoria Butterfly Gardens

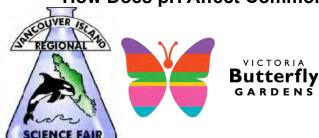
is presented to:

Special Mention:

Jaedan Sewagudde-Peden
Christ Church Cathedral Educational Society
Can You Break Down Plastic At Home?

Special Mention:

Paige Knowles
Cedar Hill Middle School
How Does pH Affect Common Household Cleaners?



Intermediate Divisional (Grade 6 - 7) Award Sponsored by Quarky Science

is presented to:

Third place:

Laurian Blachford Magnus Effect

Second place:

Tess Hellner-Mestleman Selkirk Montessori School Chew On This





Science Science Science 61st VIRSF 2022

Intermediate Divisional (Grade 6 - 7) Award Sponsored by Shaw Centre for the Salish Sea is presented to:

First place:

Beata Ariana-Minniti
Cedar Hill Middle School
Light at Night





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Junior Divisional (Grade 8 - 9) Award Sponsored by Munro's Books

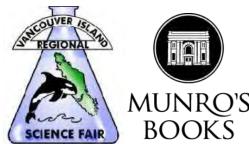
is presented to:

Special Mention:

Zoë Carroll
Glenlyon Norfolk School
Climate Change and Plant Growth

Special Mention:

Lucy Turnball
St. Michaels University School
Which Type of Mask Masks Makes the Best Water Filter



Junior Divisional (Grade 8 - 9) Award Sponsored by Bateman Centre is presented to:

Special Mention:

Daniel Bekker
Glenlyon Norfolk School
Measuring Distance Through Bluetooth EMR



Junior Divisional (Grade 8 - 9) Award Sponsored by Russell Books

is presented to:

Ibrahim Khurram

Glenlyon Norfolk School

Can We Measure Agitation and Aggression in Patients with Severe

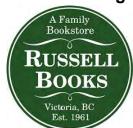
Autism Spectrum Disorder?

Third place:

Fourth place:

Manon Denux & Cindy Chen St Michaels University School The Leaning Tower of Arugula





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Junior Divisional (Grade 8 - 9) Award **Sponsored by Tanner's Books & Bateman Centre**

is presented to:

Sophie Jolivet Second place:

Glenlyon Norfolk School

Generating Electricity from the Waste Heat Created in Composting

First place:

Lois Delaney Harnett-Shaw St. Margaret's School Screen Time





Senior Divisional (Grade 10 - 12) Award Sponsored by the Victoria Harbourcats is presented to:

Third place:

Isaac Yu
Glenlyon Norfolk School
Aerodynamic Drag Reduction with Vortex
Generators





Senior Divisional (Grade 10 - 12) Award Sponsored by the Victoria Harbourcats is presented to:

Second place:

Kevin Lim
Glenlyon Norfolk School
SODIS Water Bottle Holder



Senior Divisional (Grade 10 - 12) Award Sponsored by the Victoria Harbourcats is presented to:

First place:

Wishva Kosgoda
Mount Douglas Secondary School
The Toilet Paper Epidemic: Exploring the
Effectiveness of Anal Cleansing Methods



Selection for Canada Wide Science Fair Top Overall Projects

These awards are given to the top seven VIRSF achievers, with special awards given to these top achievers in respective subject areas.



Seventh Place

Kindly Sponsored by the Enkin Family

is presented to:

Erin Plecas
Glenlyon Norfolk School
ADHD in Classrooms



Sixth Place

Kindly Sponsored by Victoria Natural History Society is presented to:

Evan Papps
Glenlyon Norfolk School
Can Slime Mold Adapt and
Communicate?





Fifth Place

Kindly Sponsored by Stantec is presented to:

Katharine Morley
Glenlyon Norfolk School
Coagulant Conundrum: Comparing
the Efficacy of Natural and Chemical
Coagulants





Fourth Place

Kindly Sponsored by the ASL Environmental Sciences is presented to:

Nathan Hellner-Mestleman Mount Douglas Secondary School Breakup is a Drag





Third Place

Kindly Sponsored by StarFish Medical is presented to:

Junming He
Glenlyon Norfolk School
Using Neural Networks to Classify
Garbages



Second Place

Kindly Sponsored by Schneider Electric is presented to:

Sarah McDonald
Shawnigan Lake School
Determining the Environmental Effects of
Cigarette Butts and Vape Cartridges on
Lake Water Samples





First Place

Kindly Sponsored by the Rotary Club of Victoria is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater



Rotary Post-Secondary Education Scholarship
Kindly Sponsored by the Rotary Club of Victoria
is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater



Engineering Award Top Project in the Engineering Category is presented to:

Junming He
Glenlyon Norfolk School
Using Neural Networks to
Classify Garbages



Top Project in the Environment Category is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater



UVic Faculty Chair Awards

This award is kindly sponsored by the University of Victoria Faculty Chairs and President



UVic Faculty Chair Awards

University of Victoria President's Scholarship is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater





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UVic Faculty Chair Awards

University of Victoria Dean of Science Scholarship is presented to:

Eunjo An
Orange Peels as Biosorbents in
the Treatment of Heavy Metal
Wastewater





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VIRSF would like to extend an immense thank you to all businesses, organizations, and individuals who contributed to the recognition of this year's participants.



VIRSF would also like to thank all participants for which your hard work, dedication, and inspiration does not go unnoticed.

We look forward to seeing you in 2023!

