Dalhousie Integrated Science Program Research Projects 2020-2025

2024-2025 Dalhousie Integrated Science Program Projects			
Title	Department	Supervisors	Students
What makes students trust their instructors?	Biology, College of Sustainability, Centre for Learning and Teaching	Debra Grantham, Laurel Schut, Dr. Kate Thompson, and Kaelyn Collins	Hoyeon Chang, Ali Kim
Using board games as a teaching tool for sustainability competencies learning and self-reflection	College of Sustainability, Centre for Learning and Teaching	Laurel Schut and Dr. Kate Thompson	Lillee Watson
Repair on the fly: HSP70's role in muscle function. The effect of chaperone proteins on muscle function in <i>Drosophila melanogaster</i>	Biology	Dr. Nicanor Gonzales- Morales and Jennifer Johnson	Isabelle Poirier, Greta Rohde-Sterling, Edie Schroeder, Jane Videvik
Measuring inhibition of a nucleotidylytransferase: towards new antibacterial agents	Chemistry, Pharmacy	Dr. David Jakeman and Jesse Fuller	Adele Eason, Elise Kaudelka
From lab to sea: "kelp"ing aquaculture thrive	Oceanography	Kit Tymoshuk and Dr. Carolyn Buchwald	Ciara Giesebrecht, Malayna Stica
Comparative genomics of Clade IIb MPXV in Europe and the Americas	Microbiology and Immunology	Dr. Gustavo Sganzerla Martinez	Shayla Martin, Annika Roderick
Virtual screening: discovering therapeutics for Mpox	Microbiology and Immunology	Dr. Anuj Kumar	Andrew Manuel, Reyna Persaud
Can adults hide their emotional expressions?	Psychology and Neuroscience	Dr. Sophie Jacques and Gabrielle Zeller	Akira Brown, Mardiah Farzeen, Brooke Popovich
Examining seasonal & spatial changes in the microbial population of the Halifax Harbour using flow cytometry	Biology	Dr. Julie LaRoche	Yvan Karam, Mackenzie Lamb
Live prey imaging in Bowhead Whale foraging habitats	Oceanography	Caitlin Huard and Dr. Sarah Fortune	Amelia Blatch, Miles Chin, Ellen McGuinty, Liam Oakley, Molly Priestman
Why do we lose attention? Exploring the cause of the vigilance decrement	Psychology and Neuroscience	Dr. Raymond Klein, Paige Parsons, and Brett Feltmate	Mia Bartlett, Alyssa Dober, Elise Windybank
Rebuilding vision at a molecular level. Metal binding peptide sequences for hydrogels	Chemistry	Dr. Alex Baker and Roozbeh Renani	Kelly Lau, Kaia Lord
The hidden pharmacy beneath our feet: student sourcing of antibiotics	Microbiology and Immunology	Dr. John Rhode and Julia Nelson	Maude Craig, Julia DesLauriers, Khloe Kimens, Noah Shapiro, Justine Sneiderman, Sebastian Win- Tontegode
Silica to silicon: aluminothermic reduction to produce hydrogen energy	Chemistry	Toren Hynes and Dr. Mita Dasog	Alexandra Danieli, Lillian McGrath

Increasing phytoplankton growth and omega-3 production using tryptone	Oceanography	Chris Latimer, and Cat London, Dr. Hugh MacIntyre	Phoebe Killam, William Zwaan
Building a concrete solution to climate change: microalgae enriched concrete	Oceanography	Jayda Kruger, Cat London, Dr. Hugh MacIntyre	Sydney Flora-Kirsch, Kaela Welsh Schut
Why are calcareous concretions formed at Joggins?	Earth and Environmental Science	Dr. Lexie Arnott and Dr. Jade Atkins	Rowan McNeil. Ludia Park
Investigating the marine environment in the Joggins Formation	Earth and Environmental Science	Brooke Reid, Dr. Lexie Arnott, and Dr. Jade Atkins	Isadora Furey, Elysia Johnson
Unlock the power of your brain: brain- computer interface classification in response to a novel shape	Psychology and Neuroscience	Max Mascini and Dr. Aaron Newman	Declan Bourke, Hayat Daeia, Joshua Jeremiah Dooma, Yasmin Mehrpooya
Peroxisomal dysfunction alters gut microbiota, and causes neurodegeneration	Microbiology and Immunology	Arash Mohammadi Matak and Dr. Francesca Di Cara	Tomi Adeoye
Blue mussels: is bigger actually better? Examining patterns between size, ploidy and aerobic respiration in Atlantic Canada's Blue Mussel (Mytilus edulis)	Marine Affairs Program	Dr. Eric Ignatz	Claire Jackson, Lucas Mayer
Proteotypic peptides: a method to measure indicators of toxin production in phytoplankton blooms	Biology	Dr. Erin Bertrand, Patrick White, and Megan Roberts	Simon Shyka-Brown
Peculiar protists and their mystery virus	Microbiology and Immunology	Dr. John Archibald, Jessica Latimer, and Dudley Chung	TJ Goertz, Gurnoor Kaur
Biotite compositional archives of the critical metal enrichment in the Macusani subvolcanic systems. SE Peru	Earth and Environmental Science	Peteris Rozenbaks and Dr. James Brennan	Jude Anderson, Eleanor Constable, Tehya Stahr
Reeling in insights: Changes in morphometric characteristics of fish caught by the pelagic longline industry in the North Atlantic	Bedford Institute of Oceanography	Dr. Heather Bowlby	Ben Wetherell
Shark depredation: rising conflict in the deep? An investigation into the economic and spatial factors	Bedford Institute of Oceanography	Dr. Heather Bowlby	Serena Archembault, Neil Forte
The influence of road crossings on Atlantic Salmon habitat	School for Resource and Environmental Studies	Ben Collison and Mary Legorburu	Samuel Bohan, Ava Claypool, Taylor Reece, Spencer Wilson
Carbon storage variation within an eelgrass meadow	Biology	Dr. Kristina Boerder	Miles Karagianis

2023-2024 Dalhousie Integrated Science Program Projects				
Title	Department	Supervisors	Students	
			Drishti Deepchand	
	Dayahalaguand		Elle MacFayden	
Creating an Accessible Ethogram	Psychology and Neuroscience	Dr. Jennifer Stamp	Emily Pastorious-	
	Neuroscience		French	
			Ryan Russell	
			Camden Chin	
Finding the Nesting Habitat of	Biology	Dr. Cindy Staicer and	Paige Cunningham	
the Endangered Chimney Swift	Diology	Caleb Gibbons	Scott Mitchell	
			Siobhan Hourihan	
Assessing the Impact of Forestry			Dridget McDheil	
Beneficial Management	D'ala	Dr. Cindy Staicer and	Bridget McPhail	
Practices-On Olive-Sided	Biology	Hannah Freeman		
Flycatcher Conservation in Nova Scotia!			Maia Baxter	
	National		Felix Bieger	
Using 13C-NMR to Classify Fish	Research	lan Burton	Telly bleget	
Oils	Council	3 3 33	Meira Heinrich	
Localization of Pre- and Post-	Dhusialaguand	Dr. Melina Agosto	Owen Lang	
Retinal Proteins: Implications for	Physiology and Biophysics	and Faiyaz Abid Ali	OWEN Lang	
Synapse Formation		Khan	Abby Armstrong	
	Earth and	Dr. Chris Greene and	Jonah Carrington	
Investigating Hemlock Woolly	Environmental	Evelyn Rusnak	Ruben Segal	
Adelgids and Hemlock Health	Sciences		_	
Mussel Foot Proteins: Enhancing	Chemistry	Dr. Alexander Baker	Layla Owens	
Adhesion with Amino Acids			Zoe McNeil	
Human Attention and	Psychology and	Dr. Raymond Klein	Shabad Kaur	
Perception	Neuroscience	and Nick Murray	Elijah Leinwand	
Early AI Diagnostic Tool for	Microbiology	Dr. Gustavo	Anna Field	
Sepsis	and Immunology	Sganzerla-Martinez	Mara Pearce	
December 1 and 1 and 1 and 1 and 1			Juliette Gunn	
Drosophila melanogaster: A	Biology	Dr. Jen Frail-Gauthier	Nia Devonald	
Study in Population Dynamics			Riko Boudi	
			Caitlyn Hall	
Bioremediation and Biocontrol	Biochemistry	•	Chloe Bazinet	
Potential of Bacillus	and Molecular		Alexandra Fieltsch	
amyloliquefaciens N1	ыоюду		Quinn McAleer	
			Ella Kang	

Impact of Plant-Growth Promoting Bacteria on Pisatin Level in Pea (<i>Pisum sativum</i>) Roots	Microbiology and Immunology	Dr. Junzeng Zhang and Dr. Zhenyu Cheng	Kate Kennaugh
Comparison of Silk Spinning	Biochemistry	Dr. Melissa Reith and	Asia Aiken
Techniques: Wet Spinning and Contact Drawing	and Molecular Biology	Dr. Jan K Rainey	Ben Jansen
Development of Spider Silk Foams for Biomedical Uses	Biochemistry and Molecular	Sara Evans and Dr. Jan Rainey	Rosalia van Schouwen
	Biology		Shaimaa Eissa
Nickel-Catalyzes Hydrogenation		Dr. Laura Turculet	Abby McGillis
of Alkenes	Chemistry	and Tyler Saunders	Mark Fischer
			Brynn Killins
Human-Automation in	Kinesiology, Cognitive and	Dr. Heather Neyedli,	Owen Atkinson
Underwater Mine Detection	Motor Performance	Grace Barnhart, and Brett Feltmate	Vanessa Partila
Comparing Trust in News Articles Authored by Humans and ChatGPT	Kinesiology, Cognitive and Motor Performance	Dr. Heather Neyedli, Grace Barnhart, and Brett Feltmate	Marco Chow
Dual-Triggered Plasmonic	Microbiology	Dr. Deepak Chauhan,	
Liposomes for Cancer	and	Dr. Channakeshava	Cali Ryan
Photoimmunotherapy	Immunology	Umeshappa	Campbell Smith
Producing CYP2D6 Autoantigens	Microbiology	Dr. Harish Kolla + Dr. Kumari Alka + Dr.	Caitlin Gormley
to Develop Tetramers and Track Autoreactive B Cells	and Immunology	Channakeshava Umeshappa	Josie Burke
	Fauth and		Ella Clarkson
Why is the CLASSICAL Simulation	Earth and Environmental	Dr. Sian Kou-	Naomi Katseva
No Tree Growth?	Sciences	Giesbrecht	Noseworthy
	Sciences		Paige Hamilton
			Liz Cousineau
An Investigation into Septarian	Earth and		Hannah Docking
Nodule Genesis	Environmental	Dr. Lexie Arnott	Madeleine McCurdy
	Sciences		Leaf Neville
Effects of a Chill Coma on	Psychology and	Dr. Shelley Adamo +	Bhreagh MacIntyre
Feeding in Zombie Caterpillars	Neuroscience	Dylan Miller	Claire Martin
			Jade Muir
How Does Temperature Effect			Sarah MacKinnon
Wellbeing in Nunatsiavut?	Biology	Kate Ortenzi	Amaya Dobson
			Amber Salter

AL ALLES CONCRETE		Jayda Kruger, Dr.	Georgia McLenaghan
Algae Admixtures: a CONCRETE Solution to Rising CO ₂ Emissions	Oceanography	Hugh MacIntyre and Cat London	Kate Cameron
Bridging Age and Health	Physics and	Dr. Andrew	
Through Frailty in Relation to	Atmospheric	Rutenberg and Glen	7 6 .
Damage and Repair Rates	Science	Pridham	Zoe Sacuta
Levels of Competence, Flow, & Well-Being Across Personally Expressive Activities	Psychology and Neuroscience	Taylor Hill	Dishita Deepchand
Exploring the Impact of			Affan Uzair
Environmental Factors of			
Coastal Microbial Diversity	Biology	Dr. Joe Bielawski	Nikki Nadarevic
Green Synthesis of Gold		Tyler Ziehl and Dr.	Kate Miske
Nanoparticles for Anti-Cancer	Chemistry	Peng Zhang	Sarah MacIntyre
Applications		. 58 =8	Claire Covert
Environmental Preferences of	D: 1		Jordyn Mackey
Atlantic Sturgeon in Minas Passage	Biology	Dr. Charles Bangley	Megan Laslop
			Sammy Brown
Tipy Forth, Antibiotic Discovery	Microbiology	Maggie Heemer and	Addison Braham
Tiny Earth: Antibiotic Discovery from Soil	and	Maggie Hosmer and Dr. John Rhode	Samantha Gupta
1101113011	Immunology	DI. John Knode	Jordyn Soberman
			May Engelhardt
Investigating the impact of beam profiles and spectra of LCUs on dental composite cures	Dentistry	Dr. Richard Price and Soheil Ghaffari	Anubhav Galuti

2022-2023 Dalhousie Integrated Science Program Projects

Project	Department	Supervisor(s)	Students
Exploring chordae tendineae	Biomedical		Tim McCowan
splitting mechanism during fetal	Engineering and Physics and	Dr. Sarah Wells and Megan Martin	Parker Whittick
development	Atmospheric Science	and wegan wartin	Kate Gillet
			Maggie Hadskis
			Kaeleigh Clark
			Julia Nelson
Tiny Earth: Student sourcing	Microbiology and	Trinity Tooley and	Lochlan Kotzer
antibiotic discovery	Immunology	Ruth Riley	Erin O'Brien- Rogers
			Paige McMillan
			Sofia Day
Anishinaabe plant species:	Dialogy	Dr. Jonathan	Themba Hlahatsi
ethnobotanical comparison	Biology	Ferrier and Kate McElroy	Allison Taillefer
	Psychology and Neuroscience	Dr. Raymond Klein, Brett Feltmate and Colin McCormick	Katharine Druzina
Measuring executive functioning with AttentionTrip			Sarah Campbell
г			Clare Dallimore
A Novel Flickering Oddball	De alcala e a d	Daniel Godfrey	Eva Nechvatal
Paradigm for Brain-Computer	Psychology and Neuroscience	and Dr. Aaron	Kaelyn Collins
Interfaces (BCIs)		Newman	Emma Abray
Impacts of mounded seismic lines on abiotic conditions	Earth and Environmental Sciences	Dr. Caroline Franklin	Amie Thibodeau
Measuring Hemlock Wooly Adelgid damage on Eastern Hemlock using remote sensing	Earth and Environmental Sciences	Dr. Chris Greene	Sydnee Clair
Examining antibiotics secreted by	i and Dr Illinzeng	Beatrice Hao	
newly isolated soil bacteria Na	National Research Council	Zhang	Emma McCormack
Effects of simulated ocean alkalinity enhancement on	Oceanography	Dr. Hugh MacIntyre, Marie	Jayda Kruger

photodamage and photorepair in phytoplankton		Egert, Cat London, and Mikaela Ermanovics	Cora Johnson
The impact of KCI precipitation and varying organic solvent levels on Sodium Dodecyl Sulfate	Chemistry	Dr. Alan Doucette	Grace Hamilton
depletion and protein recovery in ultraviolet spectrometry	Chemistry	Di. Alum Doucette	Tia Augustine
Quantification of spices in curry	National Research	lan Burton	Abby O'Reilly
powder	Council	ian burton	Hasan Murad
Boron, nitrogen, and aluminum as Li15Si4 suppressing dopants in	Chemistry	Dr. Mark Obrovac	Heather McNamara
silicon anode lithium-ion batteries	Chemistry	and Jun Wang	Clara Knox
Congenital stationary night blindness: mutations of Grm6	Physiology and	Dr. Melina Agosto and Mustansir Pindwarawala	Liam McPhee
result in reduced expression and incorrect localization of mGluR6 in Rod ON-type bipolar cells	Biophysics		Elizabeth Charman
Optimizing the quantity of Fe in	Physics and	Dr. Penghao Xiao	Talia Field
Na-ion batteries	Atmospheric Science	and Shivam Beniwal	Courtney Slaunwhite
Acute exercise effects on stress	Kinesiology, Cognitive and Motor	Dr. Heather Neyedli, Chelsey	Eva Scott-Sheldon
and attention in humans	Performance Lab	Hall and Corey Munroe	Paula Lugert
Air quality monitoring and pollution disparities by income	Earth and Environmental Sciences	Dr. Kelvin Fong	Ty Martin
			Georgia Brady
Using marine snails to monitor	Integrated Science	Dr. Gabrielle	Rhianna Baker
Using marine snails to monitor benthic biodiversity	and Biology	Tompkins and	Gabrielle Jauvin
		Sophie Roy	Lena Chown
			Kate Andrews
Characterization of wind speed and particle concentration	Physics and Atmospheric Science	Philippe Gauvin- Bourdon	Ronan Jensen
and particle concentration	'		Bridget Hart

observed at the PEARL station in the Canadian arctic			
Rating central venous catheterization (CVC) tutorials	Anesthesiology	Christian Neira and Dr. Victor Neira	Michael Purcell
Measuring ocean proximity	51		Reegan Reid
effects on Halifax urban microclimates with portable sensors	Physics and Atmospheric Science	Dr. Manuel Helbig	Dakota Sa
Immunoregulation of juvenile autoimmune disease: assessing		Dr. Channakeshava	Briley Hillyard
autoreactive B-cells through the development of a fluorochrome autoantigen tetramer	Microbiology and Immunology	Umeshappa and Harish B. Kolla	Carleigh King
Strengthening nanotubes using disulfide bonds between cyclic	Chemistry	Dr. Carlie Charron	Sam Hopkins
peptide monomers	,	and Zainab Bello	Charlotte Polo
	Biology	Dr. Nicanor Gonzalez-Morales and Tiara Mulder	Jasmine Day
Influence of cheerio mutation on			Sean Yu
Drosophila fecundity			Jody Connors
			Jordan Sampson
Defining the role of peroxisomes in intestinal epithelial health	Microbiology and Immunology	Dr. Francesca Di Cara and Marinella Pinelli	Han Tran
The peroxisome: effects on locomotor ability and neuronal death	Microbiology and Immunology	Dr. Francesca Di Cara and Stephanie Makdissi	Magdelena Klunder
Measuring accuracy in localizing	Physics and	Dr. Tim Bardouille	Leah Cuff
brain activity	Atmospheric Science	Di. Tilli bardodille	Amanda Feld
Investigating the use of drones			Maksym Dmytryshyn
for species at risk in Nova Scotia:	Biology	Dr. Cindy Staicer and Emilie	Tabitha Hafenbrak
a focus on the Olive-sided Flycatcher (Contopus cooperi)	Siology	McBeath	Teslyn Pfisterer
Tycaterier (contopus cooperi)			Emma Daigle
Pandemic surveillance	Microbiology and	Dr. Gustavo	MJ Velasco
ranuemic surveillance	Immunology	Sganzerla Martinez	Sequoia Thoms

2021-2022 Dalhousie Integrated Science Program Projects			
Project	Department	Supervisor(s)	Students
Advanced Battery Material	Chemistry	Dr. Mark Obrovac &	Lister de Vitre
Design and Synthesis	Chemistry	Roby Gauthier	Angela Xu
Measuring the Effect of		Dr. Hugh McIntyre,	Christine Latimer
Hydroxide on Phytoplankton	Oceanography	Mikaela Ermanovics	Emily Meldrum
Sinking Rate Using Chlorophyll-a Fluorescence	333 30 17 7	& Cat London	Metyn Rehman
Bycatch Distribution for	Bedford Institute of		Isabella Battiston
Pelagic Longline Fisheries?	Oceanography	Dr. Heather Bowlby	Hannah Millar
r elagic congline risheries.	occariography		Jessica Wong
Attention Trip: How Can We	Devekology and	Dr. Paymond Klain	Paige Parsons
Make It Harder to Ignore	Psychology and Neuroscience	Dr. Raymond Klein & Colin McCormick	Ryan Sangster
Flankers?	recuroscience	a comi iviccomiek	Lukas Zeisberger
Discriminating Rock Types	Earth and	Dr. Lexie Arnott &	Alex Petkov
Under Bermuda Using pXRF and Machine Learning	Environmental Science	Wednesday Gillespie	Owen Yoshida
Breeding Habitat Characteristics and Bird Population Decline in SWNS	Biology	Dr. Cindy Staicer & Caleb Gibbons	Claire Hamer
Identifying Critical Habitats		Dr. Cindy Staicer &	Emily Logan
for Two Landbird Species at Risk	Biology	Caleb Gibbons	Grace O'Connor
Is Extreme Weather	Physics and		Cambrie Levy
Becoming More Frequent in Nova Scotia?	Atmospheric Sciences	Dr. Manuel Helbig	Samantha Rebitt
			Peter MacGregor
Trends and Variability in Sea Ice Along the Labrador Coast	Oceanography	Dr. Christoph Renkl & May Wang, Dr.	Alexa MacIsaac
and Shelf	Oceanography	Eric Oliver's Lab	Lily Musselman
and shen		Life Onver 3 Lab	Kaitlyn Quinn
5 1 . 5 10			Emily MacPhee
Exploring Public Interest in Canadian Endangered	Piology	Kayla Hamelin, Dr. Jeffrey Hutchings	Hana Mehadzic
Species	Biology	Lab	Rachel Murphy
Species	Species	Aava Raeesah	
Chemical Hydrogen		Dr. Mita Dasog & Sarah Martell	Jaime Barrett
Production Using	Chemistry		Matthew Murphy
Mesoporous Silicon			Ally Roberts
		Dr. Clark Richards &	Brooke Cramer
		Mathieu Dever	Melina Gobel

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Dissolved Oxygen Sensor Response Under Varying Flow Conditions	Bedford Institute of Oceanography, Dal Oceanography, RBR		Madelyn Richardson
Search Abilities of Dogs: Does	Psychology and	5 6 11 1	Sara Greenough
Age or Breed Matter?	Neuroscience	Dr. Sophie Jacques	Emma Harrington
Identifying the Extracellular	School of		Eva Abou-Samra
Identifying the Extracellular Matrix Composition of	Biomedical	Dr. Sarah Wells &	Mark ten Haaf
Bovine Chordae Tendineae During Pregnancy	Engineering, Physics and Atmospheric Science	Meghan Martin	Madison Turner
			Rachael Ansems
Parental Conflict, Seed Size,	Dielogy	Dr Mark Johnston	Paige Burns
and Germination in Lobelia cardinalis	Biology	Dr. Mark Johnston	Clare Frymire
caramans			Alexa Petrie
			Zoe Fullarton
			Laura Harrison
Tiny Forth, Ctudontsoursing	Microbiologyand		Nicole Jones
Tiny Earth: Studentsourcing of Antibiotics	Microbiology and Immunology	Dr. John Rhode	Mattie Leslie- Toogood
			Megan VanderWal
			Lydia Zhang
	Physics and		Emily Andrews
Collagen Assembly in Oscillatory Flow	Atmospheric Science, School of	Dr. Laurent Kreplak	Kaitlyn Blakney Burns
Oscillatory Flow	Biomedical		Reagan Leslie
	Engineering		Eda Ozsan
Quantifying Sediment	Earth and	Dr. Lexie Arnott &	Ronnie Philip
Transport from High Spatial Resolution LiDAR Data	Environmental Science	Dr. Chris Greene	Darby Sullivan
Heing Eruit Elias to Study		Dr. Nicanor	Grace Law
Using Fruit Flies to Study Muscles and Flight Behavior	Biology	Gonzalez-Morales	Aidan LeBlanc
Waseles and Flight Behavior		Gonzaicz Wioraics	Emily Smith
Investigating the Optimal	School of		Hannah Laquerre
Conditions for Biofilm Formation of Neisseria sicca in an Aqueous Two-Phase System	Biomedical Engineering, Applied Oral Sciences	Dr. Brendan Leung & Dr. Naeimeh Jafari	Emma Lirette
Human Automatica in	Kinesiology,	Dr. Heather Neyedli	Eshia Bungay
Human Automation in Underwater Mine Detection	Cognitive and Motor	& Chelsey	Andreah Martin
onder water with Detection	Performance Lab	Sanderson	Hannah Snook

			Alyssa Theriault
Geographic Characterization	National Research		Devin Fraser
Of Coffee By Statistical Analysis Of 1H-NMR Data	Council	lan Burton	Emma Manzie
How do operating conditions	National Research		Abby Morris
impact enzyme catalase activity?	Council	Dr. Laleh Nazari	Defne Sezer
Comparison of signalling	National Research		Nicole Dion
molecules in lentil root and seed exudates using LC-MS	Council	Dr. Junzeng Zhang	Starla Phillips

2020-2021 Dalhousie Integrated Science Program Projects			
Project	Department	Supervisor(s)	Students
Measuring Executive Function in	Psychology and		Rebecca Burbidge
Undergraduate Students and Dogs	Neuroscience	Dr. Sophie Jacques	Jonah Hanley
Ondergraduate Students and Dogs	Neuroscience		Sierra Tanner
Does Earlier Greening Lead to	Physics and		Victoria Chopin
Enhanced CO2 Uptake in the North?	Atmospheric Science	Dr. Manuel Helbig	Sylvia Lloyd
Envirovote: A Global Initiative	Biology	Isabelle Hurley and Dr. Derek Tittensor	Lauren Burton
			Andrew Allen
			Kiara Berganini
			Lily Coates
Tiny Earth: Studentsourcing of	Microbiology and Immunology	Dr. John Rohde	Bella Hajdu
Antibiotics			Lauren Fong-
			Hollohan
			Shuya Li
			Kate Pennyfather
Continuous Wave Surface	Physics and		Diana Adamo
Enhanced Stimulated Raman Spectroscopy to Analyze	Atmospheric	Ben Hansson and Dr. Kevin Hewitt	Emily Butler
Biomolecules	Science		Caleb Galbraith
Occasi Allialization as a Contrar		Dr. Hugh MacIntyre	Jacob MacDonald
Ocean Alkalization as a Carbon Capture Technology	Oceanography	and Mikaela	Meghan Oliver
Capture recrimology		Ermonovics	Phoebe Seeley
Is Searching in Time Like Searching Psychology and in Space? Psychology and Neuroscience Dr. Raymond Klein	Psychology and	Brett Feltmate and	Abiaz Hossain
	Annika Setterington		
			Rachel Fody

Attention Trip: How Can We Make It Harder to Ignore Flankers? Crowdsourcing Fisheries Science Crowdsourcing Fisheries Science Walidating a New Technology for Measuring Brain Activity Anishinaabe Ethnobotany: Metabolomics for Biochemical Discovery and Characterization of Indigenous Foods, Medicines, and Material Investigating Peroxisomes as an Immunometabolic Organelle Differentiation of the Volcanic Basement Rocks of the Bermuda Rise Nano-Silver: Computer Analysis Toward Biochemical Applications Cintillators: All in One Dosimeter Habitat Change and Bird Population Decline in Nova Scotia Human Automation of Underwater Mine Detection Bushands Alexand Farth & Environmental Science Using Growth Bands to Determine the Age and Growth Rates of the Boel-Sea Coral Keratosis sp. Bushands Alexand Psychology and Neuroscience Biology Dr. Kayla Hamelin Emily Niskanen Siapella Johnson Shannon O'Brien Joshua Feld Brendan Brady (Dr. Bardouille's Lab) Nicole Grass Nicole Grass Nicole Grass Nicole Grass Miarhan Ferrier Dr. Francesca Di Mustansir Pinwardawala Por. Lexie Arnott Alex Hancock Emma Stainforth Rakan Al-Bader Rakan Al-Bader Rakan Al-Bader Rakan Al-Bader Andrew Walsh Cody Church and Dr. Thalat Science Dr. Cindy Staicer Madison McLean Madison McLean Emily Niskanen Medresday Gillespie Dr. Peng Zhang and Andrew Walsh Rakan Al-Bader Rakan Al-Bader Rakan Al-Bader Rakan Al-Bader Biology Dr. Cindy Staicer Madison McLean Emily Nishanen Medresday Gillespie Dr. Peng Zhang and Andrew Walsh Rakan Al-Bader Rakan Al-Bader Rakan Al-Bader Biology Dr. Cindy Staicer Madison McLean Emily Nishanen Medresday Gillespie Dr. Peng Zhang and Andrew Walsh Rakan Al-Bader Bori Malidespie Emma Ward Macisola Dr. Thalat Science Dr. Cindy Staicer Dr. Oine Macisola Dr. Thalat Roci Madison McLean Dr. Thalat Science Dr. Oine Macisola Dr. Thalat		1		
Crowdsourcing Fisheries Science Biology Dr. Kayla Hamelin Isabella Johnson Shannon O'Brien Joshua Feld Arenn Osadzuk Arennota Arenspreises Alena Arenter Alex Hancock Emma Stainforth Rakan Al-Bader Andrew Walsh Gabrielle Cote Madison McLean Arenterises Arenterises A	Attention Trip: How Can We Make	Psychology and		Georgia Hall
Validating a New Technology for Measuring Brain Activity	It Harder to Ignore Flankers?	Neuroscience	Dr. Raymond Klein	Emily Niskanen
Validating a New Technology for Measuring Brain Activity Anishinaabe Ethnobotany: Metabolomics for Biochemical Discovery and Characterization of Indigenous Foods, Medicines, and Material Investigating Peroxisomes as an Immunometabolic Organelle Differentiation of the Volcanic Basement Rocks of the Bermuda Rise Nano-Silver: Computer Analysis Toward Biochemical Applications Science Chemistry: Biomedical Engineering Physics and Atmospheric Science Material Dr. Lexie Arnott Andrew Walsh Chemistry: Biomedical Engineering Physics and Atmospheric Science Habitat Change and Bird Population Decline in Nova Scotia Human Automation of Underwater Mine Detection Using Growth Bands to Determine the Age and Growth Rates of the Deep-Sea Coral Keratosis sp. Blue Shark distribution Physics and Atmospheric Science Kinesiology Dr. Heather Neyedli Dr. Heather Bowlby Dr. Heather Bowlby Dr. Heather Bowlby Or. Heather Bowlby Or. Heather Bowlby Alanna Kaser Alanna Kaser Alanna Kaser				Xinya Calhoun
Validating a New Technology for Measuring Brain Activity Anishinaabe Ethnobotany: Metabolomics for Biochemical Discovery and Characterization of Indigenous Foods, Medicines, and Material Investigating Peroxisomes as an Immunometabolic Organelle Differentiation of the Volcanic Basement Rocks of the Bermuda Rise Nano-Silver: Computer Analysis Toward Biochemical Applications Science Albabitat Change and Bird Population Decline in Nova Scotia Human Automation of Underwater Mine Detection Using Growth Bands to Determine the Age and Growth Rates of the Deep-Sea Coral Keratosis Sp. Blue Shark distribution Physics and Atmospheric Science Wednesday Gillespie Dr. Lexie Arnott Earth and Environmental Science Physics and Andrew Walsh Cody Church and Dr. Thalat Monajemi Dr. Cindy Staicer Mia Castell Rori Mulholland Sierra Gaudreau Flora Machovsky Mendes-Pinto Kendra Sturdee Lottie Pascal Anna Morris Rendra Mariospie Kinah Heneke-Flindall Natasha Ferrier Natasha Fortin Natasha Fortin Natasha Fortin Physics and Dr. Lexie Arnott Earth and Environmental Science Physics and Andrew Walsh Cody Church and Dr. Thalat Monajemi Emma Ward Madison McLean Emma Ward Mac Castell Rori Mulholland Sierra Gaudreau Flora Machovsky Mendes-Pinto Kendra Sturdee Lottie Pascal Anna Morris Earth & Environmental Science Dr. Owen Sherwood's Lab Alanna Marris Kendra Mainprize Brooke Reid Alanna Kaser	Crowdsourcing Fisheries Science	Biology	Dr. Kayla Hamelin	Isabella Johnson
Atmospheric Science				Shannon O'Brien
Anishinaabe Ethnobotany: Metabolomics for Biochemical Discovery and Characterization of Indigenous Foods, Medicines, and Material Investigating Peroxisomes as an Immunometabolic Organelle Differentiation of the Volcanic Basement Rocks of the Bermuda Rise Nano-Silver: Computer Analysis Toward Biochemical Applications Sciences Nano-Silver: Computer Analysis Toward Biochemical Applications Formulation of the Volcanic Basement Rocks of the Bermuda Rise Sciences Nano-Silver: Computer Analysis Toward Biochemical Applications Formulation One Dosimeter Science Mednesday Gillespie Earth and Environmental Sciences Chemistry; Biomedical Engineering Physics and Atmospheric Science Habitat Change and Bird Population Decline in Nova Scotia Human Automation of Underwater Mine Detection Wiscole Grass Kiah Heneke-Flindall Natasha Fortin Mustansir Pinwardawala Wednesday Gillespie Earth and Environmental Sciences Dr. Lexie Arnott Alex Hancock Emma Stainforth Rakan Al-Bader Justin Cosmatos Gabrielle Cote Madison McLean Dr. Thalat Monajemi Firma Ward Maison McLean Emma Ward Mia Castell Rori Mulholland Sierra Gaudreau Flora Machovsky Mendes-Pinto Kendra Sturdee Using Growth Bands to Determine the Age and Growth Rates of the Deep-Sea Coral Keratosis sp. Blue Shark distribution Bedford Institute of Oceanography On-time Use and Wellbeing: The Role of Personal and Project Characteristics Alex Hannock Environmental Science Dr. Down Sherwood's Lab Dr. Heather Bowlby For. Heather Bowlby Alanna Kaser Taylor Hill Alanna Kaser		<u> </u>	•	Joshua Feld
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