

# 29<sup>th</sup> Annual Dalhousie Integrated Science Program Research Symposium

Poster session Friday April 1<sup>st</sup> 1:30-4:30pm, LSC 3<sup>rd</sup> floor foyer

| Project  | Department   | Supervisor  | Presenters          |
|--|--|---|---------------------|
| Advanced Battery Material Design and Synthesis   | Chemistry  | Dr. Mark Obrovac & Roby Gauthier                      | de Vitre, Lister    |
|  |  |   | Xu, Angela          |
| Measuring the Effect of Hydroxide on Phytoplankton Sinking Rate Using Chlorophyll-a Fluorescence | Oceanography   | Dr. Hugh McIntyre, Mikaela Ermanovics & Cat London    | Latimer, Christine  |
|  |  |   | Meldrum, Emily      |
|  |  |   | Rehman, Metyn       |
| Bycatch Distribution for Pelagic Longline Fisheries?   | Bedford Institute of Oceanography                        | Dr. Heather Bowlby                                    | Battiston, Isabella |
|  |  |   | Millar, Hannah      |
|  |  |   | Wong, Jessica       |
| Attention Trip: How Can We Make It Harder to Ignore Flankers?                                    | Psychology and Neuroscience                              | Dr. Raymond Klein & Colin McCormick                   | Parsons, Paige      |
|  |  |   | Sangster, Ryan      |
|  |  |   | Zeisberger, Lukas   |
| Discriminating Rock Types Under Bermuda Using pXRF and Machine Learning                          | Earth and Environmental Science                          | Dr. Lexie Arnott & Wednesday Gillespie                | Petkov, Alex        |
|  |  |   | Yoshida, Owen       |
| Breeding Habitat Characteristics and Bird Population Decline in SWNS                             | Biology  | Dr. Cindy Staicer & Caleb Gibbons                     | Hamer, Claire       |
| Identifying Critical Habitats for Two Landbird Species at Risk                                   | Biology  | Dr. Cindy Staicer & Caleb Gibbons                     | Logan, Emily        |
|  |  |   | O'Connor, Grace     |
| Is Extreme Weather Becoming More Frequent in Nova Scotia?  | Physics and Atmospheric Sciences                         | Dr. Manuel Helbig                                     | Levy, Cambrie       |
|  |  |   | Rebitt, Samantha    |
| Trends and Variability in Sea Ice Along the Labrador Coast and Shelf                             | Oceanography   | Dr. Christoph Renkl & May Wang, Dr. Eric Oliver's Lab | MacGregor, Peter    |
|  |  |   | MacIsaac, Alexa     |
|  |  |   | Musselman, Lily     |
|  |  |   | Quinn, Kaitlyn      |
| Exploring Public Interest in Canadian Endangered Species   | Biology  | Kayla Hamelin, Dr. Jeffrey Hutchings Lab              | MacPhee, Emily      |
|  |  |   | Mehadzic, Hana      |
|  |  |   | Murphy, Rachel      |
|  |  |   | Raeesah, Aava       |
| Chemical Hydrogen Production Using Mesoporous Silicon  | Chemistry  | Dr. Mita Dasog & Sarah Martell                        | Barrett, Jaime      |
|  |  |   | Murphy, Matthew     |
|  |  |   | Roberts, Ally       |
| Dissolved Oxygen Sensor Response Under Varying Flow Conditions                                   | Bedford Institute of Oceanography, Dal Oceanography, RBR | Dr. Clark Richards & Mathieu Dever                    | Cramer, Brooke      |
|  |  |   | Gobel, Melina       |
|  |  |   | Richardson, Madelyn |
| Search Abilities of Dogs: Does Age or Breed Matter?  | Psychology and Neuroscience                              | Dr. Sophie Jacques                                    | Greenough, Sara     |
|  |  |   | Harrington, Emma    |
| Identifying the Extracellular Matrix Composition of Bovine                                       | School of Biomedical Engineering, Physics                | Dr. Sarah Wells & Meghan Martin                       | Abou-Samra, Eva     |
|  |  |   | ten Haaf, Mark      |

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|--|---|---|------------------------|
| <b>Chordae Tendineae During Pregnancy</b>  | and Atmospheric Science   |   | Turner, Madison        |
| <b>Parental Conflict, Seed Size, and Germination in <i>Lobelia cardinalis</i></b>  | Biology   | Dr. Mark Johnston                       | Ansems, Rachael        |
|  |   |   | Burns, Paige           |
|  |   |   | Frymire, Clare         |
|  |   |   | Petrie, Alexa          |
| <b>Tiny Earth: Studentsourcing of Antibiotics</b>  | Microbiology and Immunology                                       | Dr. John Rhode                          | Fullarton, Zoe         |
|  |   |   | Harrison, Laura        |
|  |   |   | Jones, Nicole          |
|  |   |   | Leslie-Toogood, Mattie |
|  |   |   | VanderWal, Megan       |
|  |   |   | Zhang, Lydia           |
| <b>Collagen Assembly in Oscillatory Flow</b>   | Physics and Atmospheric Science, School of Biomedical Engineering | Dr. Laurent Kreplak                     | Andrews, Emily         |
|  |   |   | Blakney Burns, Kaitlyn |
|  |   |   | Leslie, Reagan         |
|  |   |   | Ozsan, Eda             |
| <b>Quantifying Sediment Transport from High Spatial Resolution LiDAR Data</b>  | Earth and Environmental Science                                   | Dr. Lexie Arnott & Dr. Chris Greene     | Philip, Ronnie         |
|  |   |   | Sullivan, Darby        |
| <b>Using Fruit Flies to Study Muscles and Flight Behavior</b>  | Biology   | Dr. Nicanor Gonzalez-Morales            | Law, Grace             |
|  |   |   | LeBlanc, Aidan         |
|  |   |   | Smith, Emily           |
| <b>Investigating the Optimal Conditions for Biofilm Formation of <i>Neisseria sicca</i> in an Aqueous Two-Phase System</b> | School of Biomedical Engineering, Applied Oral Sciences           | Dr. Brendan Leung & Dr. Naeimeh Jafari  | Laquerre, Hannah       |
|  |   |   | Lirette, Emma          |
| <b>Human Automation in Underwater Mine Detection</b>   | Kinesiology, Cognitive and Motor Performance Lab                  | Dr. Heather Neyedli & Chelsey Sanderson | Bungay, Eshia          |
|  |   |   | Martin, Andrea         |
|  |   |   | Snook, Hannah          |
|  |   |   | Theriault, Alyssa      |
| <b>Geographic Characterization Of Coffee By Statistical Analysis Of 1H-NMR Data</b>  | National Research Council   | Ian Burton                              | Fraser, Devin          |
|  |   |   | Manzie, Emma           |
| <b>How do operating conditions impact enzyme catalase activity?</b>  | National Research Council   | Dr. Laleh Nazari                        | Morris, Abby           |
|  |   |   | Sezer, Defne           |
| <b>Comparison of signalling molecules in lentil root and seed exudates using LC-MS</b>                                     | National Research Council   | Dr. Junzeng Zhang                       | Dion, Nicole           |
|  |   |   | Phillips, Starla       |