

Girls Get WISE Past Participants...



We want your feedback!



2018 Retreat participants coding robots

WHATS COMING UP:

Survey for Past Participants

Have you ever participated in one of our Girls Get WISE Science Retreats or Science Summer Camps or know a girl who has? If so, then we want to hear from you! A short survey will be emailed out to past participants of our Girls Get WISE programs shortly so keep an eye on your inbox (and junk folders!) The purpose of this survey is to gather information on the impact of these programs over the years. If you don't receive the survey by email and would like to participate, please contact Sally at WISEatlantic@msvu.ca.

Girls Get WISE Science Retreat - Pictou *New Date!

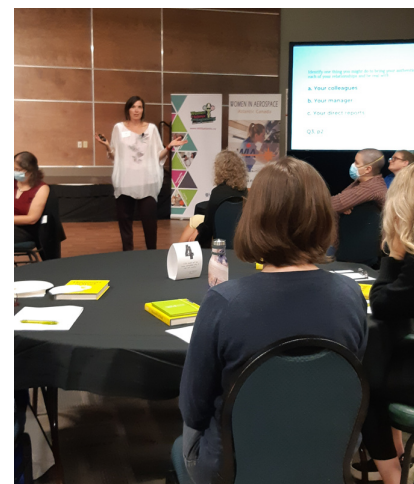
The Science Retreat that was originally scheduled for October 1 at the NSCC Pictou Campus has been rescheduled to **Saturday, November 26, 2022**. Girls in grades 7-10 are welcome to register for a fun-filled day of hands-on STEM activities, prizes, and chatting with role models working in STEM careers!

Cost is \$10 and includes lunch. Registration is at: WISEatlantic.ca/events.

WHAT WE'VE BEEN UP TO:

On **September 20** WISEatlantic co-sponsored the **Bringing Your Authenticity and Humanity to Work** Workshop with Women in Aerospace Canada at the Mount. This workshop was offered to anyone working in a STEM field in Atlantic Canada. Co-facilitated by Pierre Battah and Francoise Roy, participants learned to identify practical strategies to bring their authenticity, be themselves and be real in a professional setting, to describe how they can help create a healthy and safe work environment defined by inclusion, belonging and well-being. Some great discussions were had and connections made.

Dr. Tamara Franz-Odendaal, NSERC Chair of WISEatlantic, held a **Meet & Greet** for science students at UNB Fredericton on October 7. She answered their questions on careers in science and opportunities provided to students through WISEatlantic.



Humanity Workshop 2022

FEATURES:

Network of Collaborations - Science For Humanity Series

The NSERC Chairs for Women in Science and Engineering Network are hosting another series of Network of Collaboration events this Fall, all with the theme of Science for Humanity. These workshops are open to any STEM professional and all occur virtually. There are two remaining workshops for 2022, "Our Interconnectedness" on November 17 and "Humans of Science - Lessons In Chemistry with Bonnie Garmus and Special Guests" on December 1. To find out more about these events and to register, please visit: stem-inclusion-stim.ca/networkevents/

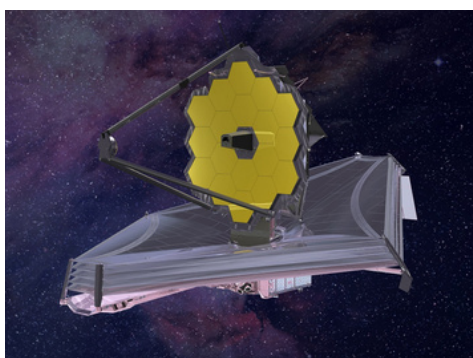
NSERC Chairs for Inclusion in Science & Engineering (CISE)

Applications for the new NSERC CISE Pilot Program are now being accepted for the Atlantic region. The CISE program builds on the successful CWSE program, while expanding to further address issues faced by a broader range of underrepresented groups. To find out more visit: nserc-crsng.gc.ca/index_eng.asp

WISEATLANTIC BLOG

The James Webb Space Telescope and it's Canadian Connections

BY TIFFANY FIELDS



An artist's representation of the JWST. Credit: Northrop Grumman

Since its launch on December 25, 2021, the James Webb Space Telescope (JWST) has been holding the attention of scientists, students, and space enthusiasts alike. Notably, Canadian researchers, engineers, and astronomers played a critical role in this \$10-billion, 25-year-planned, tennis-court-sized telescope that is providing new and incredible views of our universe.

JWST looks out into the universe in wavelengths that our eyes cannot see. It is an infrared telescope, looking at the heat coming off some of the oldest and most distant objects in the universe, as well as the infrared radiation from neighbouring planets and nearby regions of star formation.

The telescope is huge – its mirror is 18 hexagonal segments with an overall diameter of 6.5 meters. As well, its instruments must be kept very cold, approximately -230 C, for them to see the oldest and most distant objects in the universe. To protect its instruments from the heat of the sun, there is a sun shield that consists of 5 thin layers and is approximately the size of a tennis court. It had to be perfectly folded to fit in the rocket for launch, and then needed to unfold itself after launch in space. The side of the sunshield that faces the sun heats up to approximately 85 C, whereas the side with the instruments on the cold side of the sunshield is roughly -230 C!

JWST was a multi-country mission, requiring the expertise of NASA in the United States, the European Space Agency, and the Canadian Space Agency. Importantly, the Canadian Space Agency contributed one instrument with two necessary components to JWST: the Fine Guidance Sensor and NIRISS.

This story continues online at
WISEatlantic.ca/blog/

interested in contributing a blog post? Contact us at WISEatlantic@msvu.ca with your idea!