



WATERLOO-WELLINGTON SCIENCE & ENGINEERING FAIR

Date: **Tuesday, April 9, 2024** Location: **Bingemans, Kitchener**

FAIR DAY GUIDELINES AND SCHEDULE

Welcome to the Fair! The organizers hope your experience will be valuable and spark future research. The information outlined here indicates the activities in which you will be involved during the Fair.

GUIDELINES:

The following guidelines are intended to help you and your fellow participants get the most out of your science fair experience.

- After your project has been set up or while you are waiting to be interviewed during the judging period, introduce yourself to the exhibitors near you. Get to know your neighbours and help each other prepare for the interviews by asking each other about your projects.
- Exhibitors are expected to be respectful of other participants and visitors. Activities that interfere with the operation of the fair or with other individuals are not permitted. During the open house times, exhibitors are expected to be at their projects. The use of personal entertainment devices, games or similar devices is not allowed during open house.
- You are responsible for the safety and security of your own equipment and materials. Small, valuable items should never be left on display unattended.
- You may not leave the fair hall without permission of one of the Fair organizers or supervisors. A washroom break is the exception. Assistance is always available at the information desk.
- Do not go into the judge's area.
- If you need to leave the Fair early or to leave and return later you must have a signed note of explanation and authorization from a guardian, parent or school official. Before exiting the Fair you must sign out at the information desk and, if returning later, sign back in again.
- Please keep in mind that while you are at the Fair you are representing your school, your family and, of course, yourself. All appropriate rules and expectations that would apply at your school or on a field trip apply here as well. Your full cooperation is expected at all times.

FAIR DAY SCHEDULE:

MORNING

7:00 - 9:00 **Registration and Project Set Up**

7:15 - 9:30 **Safety and Rules Check**
(This may be completed during judging)

8:55 - 9:00 **Welcome by Fair Officials**

9:00 - 12:00 **Judging of Exhibits** There may be long gaps between visits of the different judges who will evaluate your project. Talk to your neighbours and learn about each other's projects, read a book, or check out the displays around the room. If you are leaving your project area, let a neighbour know where you will be in case a judge needs to find you.

JUNIOR AFTERNOON PROGRAMME

12:00 - 12:45 Lunch. You are responsible for having your own lunch. Bring any items that need safe storage to the information desk. After lunch, clean up your space and wait at your exhibit until your Activity Group (as indicated on your name tag) is called to the front. You won't be back at your project until 4:30. Bring your coat, hat, personal items, etc. with you as we're planning to be outside for part of the afternoon.

1:00 – 4:30 Developing Environmental Advocates and Researchers The environmental education program this year has 2 components. One component is to learn about the United Nations Sustainable Development Goals. You will work on imagining what it will be like when these goals are met, and how they interconnect. What can each of us do to move towards these goals? How will it change how we live?

The second component is a school bus trip to visit 3 water features of Kitchener, one worth millions of dollars. Dress to be outside. Bring an umbrella if you have

one. We won't go if it's stormy. If the weather is unsuitable, there will be an indoor alternative.

Please be attentive to the people who have volunteered their time to share their expertise with you.

INTERMEDIATE and SENIOR AFTERNOON PROGRAMME

12:00 to 12:15 Tidy up your project and prepare to leave. Bring any items that need safe storage to the information desk. Bring your coat etc. as you won't be allowed back to your project until 4:30. Wait by your exhibit until you are called to the front. Leaders will stay with you while you're off site.

12:15 – 3:00 You will have lunch at the University of Waterloo with university students. Take time to ask them about their research - maybe they're doing something you're interested in, or maybe your project interests them. After that you will have the opportunity to learn a bit of what might be in your future.

3:30 to 4:30 You will be treated to a presentation by Dr. Damian Pope from the Perimeter Institute, which is one of the world's coolest institutes for theoretical physics. Dr. Pope's research area for his PhD was in the area of quantum information. Dr. Pope's presentation will be about the Quantum Computing Revolution. Today, you have a front row seat to a new technological revolution.

You use computers in almost every aspect of your life. Scientists today are working on a new and completely different type of computer called a quantum computer. Based on the subatomic laws of quantum physics, a quantum computer is projected to be vastly more powerful than even the best supercomputer today. This session will explore how scientists are using quantum physics to build quantum computers. It'll also explore how they plan to use them to help solve global challenges such as climate change, transportation, and improving healthcare.

Be prepared to soak up something fascinating. Some former exhibitors switched their interest to theoretical physics after time with Dr. Pope.

Note: After the Fair you are expected to share some of what you learned with other people. Your teacher might ask you to report to your class, or other students at school. You might just tell your family something they don't yet know.

ALL EXHIBITORS

4:30 – 5:15 **Supper**, provided by the Fair. Clean up your project space.

5:15 – 5:30 Final preparations for Open house. Tidy up your project space.

5:30 – 6:45 **Open House**. Please take the time to demonstrate to all our guests how interesting your project is. Exhibitors must stay with their displays during the hours the Fair is open to the public unless prior arrangements have been made with the Fair organizers or supervisors at the information desk.

7:00 **Awards Ceremony** in the Ballroom. Some awards are being presented by people who had projects at the Fair when they were students. They all remember what a difference WWSEF made to them.

Information for Chaperones and Visitors

- Chaperones and Visitors are not allowed in the exhibit hall from about 9:00 am until 4:30 pm
- Chaperones are welcome to attend the afternoon program in the program area, and all further activities, with the students.
- There will be a waiting/working area separate from the exhibit hall.
- Visitors should bring their own noon lunch, and evening meal. Chaperones may eat with the students.
- If you have questions, or want to assist with the fair, please talk to the people at the information desk

Fair Management Rules

- The organizing committee of the Waterloo-Wellington Science and Engineering Fair reserves the right to assign available display space to exhibitors, and to exclude dangerous exhibits.
- While every effort will be made to prevent damage or theft, neither the Fair nor any sponsoring organizations can accept responsibility for loss or damage to any exhibit and/or personal property.
- Disqualification of an exhibit/exhibitor for any infraction of rules or inappropriate behaviour will be at the discretion of the Fair Officials.

Some suggestions about what to bring to the fair:

Some tape, scissors, glue, etc. for repairs to your project.

Your own water bottle and enough water to last you all day. Bingemans does not have water fountains.

Snacks if you want them.

A few copies of your report. Someone may want a copy.

You may have to wait for judges, so bring something quiet to entertain yourself.

Junior exhibitors – outdoor footwear. Umbrella if you have one!

HOW TO GET TO THE FAIR

From KW: Exit the Conestoga Expressway at Wellington St. Turn left and proceed about 2 km along Shirley Ave. to Bingemans Centre Drive, and watch for signs at the main entrance to the Conference Centre.

From Guelph: Exit Victoria St at Bingemans Centre Drive. After about 1 km, turn right at the main entrance to the Conference Centre. Watch for signs.

Your final turn is left into the parking lot behind Marshall Hall.

Marshall Hall is on your Right.