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Science Fair
Foundation^{BC}



BRITISH
COLUMBIA
INNOVATION
COUNCIL



TWENTY-EIGHTH
ANNUAL

2010 Greater Vancouver Regional Science Fair

April 8–10, 2010 • Info: www.gvrsf.ca

APPLICATION
DEADLINE:
**4 PM MARCH 9,
2010**

New Drop Off Location
**H.R. MacMillan Space
Centre Reception**
1100 Chestnut St.
Vancouver V6J 3J9

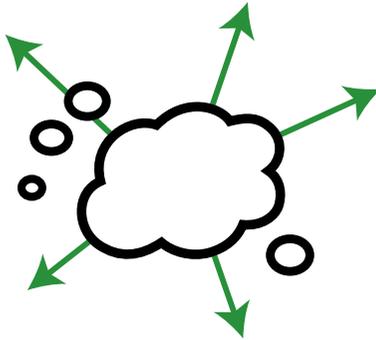


Greater Vancouver Regional
Science Fair

Website: www.gvrsf.ca

Email: chair@gvrsf.ca

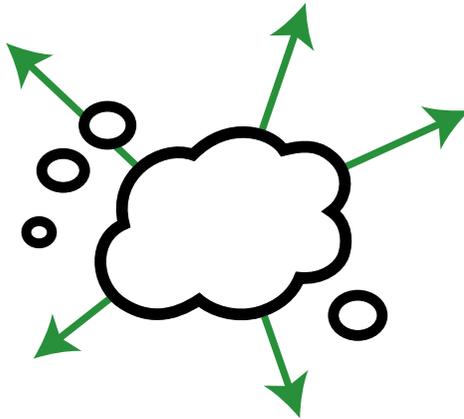
Do you love Science?
Are you in grades 7–12?
Come and Expand
Your Mind!



GREATER VANCOUVER REGIONAL SCIENCE FAIRS 2010

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Christina Lambert and Bob Perry, Vancouver Technical Secondary



Jeffrey Mau and Eric Szeto, David Thompson Secondary

SCHEDULE OF ACTIVITIES

All events take place at University of British Columbia in the Student Union Building.

THURSDAY, APRIL 8, 2010

12:00 noon–1:30 pm	Students to set up projects in ballrooms in preparation for judging. Safety check of the students' projects (all students must remain at projects until safety checks are done).
1:30 pm–2:00 pm	Welcome and special instructions.
2:00 pm–5:00 pm	First Round and Special Awards Judging. ONLY judges and students are to be in the display area during the adjudication. Students to be at project display, ready to discuss their work with the judges.
4:00 pm–5:00 pm	Photos. Students must remain with their projects until dismissed.
5:00 pm–6:00 pm	Supper. Students to make individual arrangements (eating facilities available on site).
6:00 pm–9:00 pm	Second Round and Special Awards Judging. ONLY judges and students are to be in the display area during the adjudication. Students to be at project display, ready to discuss their work with the judges.
9:00 pm (approximately)	Student dismissal as authorized by the Chief Judge.

FRIDAY, APRIL 9, 2010

8:30 am–1:30 pm	Additional Adjudication and student interaction. Participants to be at project displays unless attending scheduled event.
9:00 am–10:00 am	UBC tours (for participants).
10:00 am–12:00 noon	School tours of projects (for local schools).
10:00 am–12:00 noon	Scientist presentations for participants.
12:00 noon–12:30 pm	Lunch.
12:30 pm–1:30 pm	Science show for participants.
1:30 pm	Student dismissal.

SATURDAY, APRIL 10, 2010

9:00 am–12:00 noon	Additional Adjudication Public viewing/ special student activities. Opportunity for students to discuss projects with visitors.
12:00 noon–12:30 pm	Lunch.
12:30 pm–1:30 pm	Junior awards presentation, located in the Student Union Building Theatre.
2:00 pm–3:00 pm	Intermediate and Senior awards presentation, located in the Student Union Building Theatre.
3:00 pm–4:00 pm	Clean Up. All participants must be out of the ballroom by 4:00 pm.

SCHOOL TOURS

Teachers may book times to have their students view the projects on Friday, April 9, 2010. Booking requests should be emailed to **chair@gvrsf.ca**. You will receive confirmation of your booking.

SPONSORSHIP

The Greater Vancouver Regional Science Fair depends upon donations from individuals and corporations to finance activities. Each year, funding is provided by:

- Cash donations contributed during the year and at the Regional Fair;
- Contributions by sponsors of various awards at the Regional Fair.

By supporting BC's Science Fairs, you have the opportunity to build partnerships with science education and to create a significant and positive impact within the community. An investment in our young people ensures that we have the skilled workforce needed to compete in the global arena. It is an investment in the future of our province.

The Science Fair Foundation of British Columbia was incorporated in February 1998 to ensure ongoing financial support of the program. The Foundation enables BC Science Fairs to attract vital corporate sponsorship and funding. Its purpose is:

- To support and strengthen the Science Fair program in British Columbia.

You can help our young scientists by sending your donation to:



Science Fair Foundation of British Columbia

9th Floor - 1188 West Georgia Street
Vancouver BC V6E 4A2

Tel: 604.602.5262

Fax: 604.683.6567

Email: info@sciencefairs.ca

Website: www.sciencefairs.ca

GRADE CATEGORIES

Junior: Grade 7 & 8

Intermediate: Grade 9 & 10

Senior: Grade 11 & 12

The grade of the student is the grade as recorded on Ministry Form 1701 in your school.

ELIGIBILITY

1. Only students from Grades 7–12 (inclusive) are eligible to apply.
2. **Students must attend all three days of the Science Fair.**
3. Maximum number of applications that may be submitted by a school:
 - **Elementary Schools:**
4 projects
 - **Secondary Schools:**
8 projects (any age group) + 5 additional senior projects
 - **K–12 Schools:**
8 projects (any age group) + 5 additional senior projects
 - **Independent Schools:**
8 projects (any age group) + 5 additional senior projects

Due to space limitations the total number of entries for the Fair cannot exceed 250 projects. Please only enter projects that would be considered competitive at the regional level.

4. Group projects may consist of a maximum of two students. For group entries from two grades, the age division of the most senior student is used.
5. An exhibitor may not present more than one exhibit each year, nor display an identical project from a previous Regional Fair.

EXHIBIT DIVISIONS

An **Earth & Environmental Sciences** project has as its focus either a topic relating to planetary processes or the relationships of organisms to those processes, or relationships between or among organisms.

An **Engineering & Computing Sciences** project deals with innovative software and hardware design, or applies physical science knowledge to solve a problem or achieve a purpose.

A **Health Sciences** project examines biomedical or clinical aspects of human life or lifestyles and how that translates to improved health, health services or health products.

A **Life Sciences** project examines some aspects of the life or lifestyle of an organism.

A **Physical & Mathematical Sciences** project studies an abiotic phenomenon in order to understand the relation of identified factors, perhaps including a cause and effect relationship, or the use of math to solve theoretical problems.

NOTES

- Live Animals: Any project involving the use of vertebrates must comply with the guidelines and policies set by the Youth Science Foundation Canada.
- Display Regulations: Please refer to the following web link: **www.sciencefairs.ca/display.html** for all information.
- Safety: Please refer to the following web link: **www.sciencefairs.ca/students.html**
- French Language Materials: Various materials including rules and regulations are available in French.
- Science Celebration: A resource book detailing the approach to classroom-based Science Fair project work is available.

Additional details concerning safety regulations, project development suggestions and judging criteria as well as other helpful information are available. Teachers may obtain information from the Greater Vancouver Regional Science Fair by emailing **chair@gvrsf.ca**

TYPE OF PROJECT

Science projects may be one of three types:

Experiment: An investigation undertaken to test a scientific hypothesis using experiments. Experimental variables, if identified, are controlled to some extent.

Innovation: The development and evaluation of innovative devices, models or techniques, or approaches in technology, engineering or computers (hardware or software).

Study: A collection and analysis of data to reveal evidence of a fact or a situation of scientific interest. It could include a study of cause and effect relationships or theoretical investigations of scientific data.

AWARDS & PRIZES

Gold, silver and bronze medals may be awarded to entries in each category and division. As well, entries to the Greater Vancouver Regional Science Fair are eligible for Provincial Awards.

The British Columbia Provincial Awards Program is administered by the Science Fair Foundation BC and is available to all participants of British Columbia Regional Science Fairs (See the 2009 British Columbia Science Fairs booklet).

As selected by the Judging Committee, the top Regional Science Fair entries will be invited to an expense-paid week at the 2010 Canada-Wide Science Fair in Peterborough, Ontario May 15-23, 2010. **If a two-person project is selected, the funds will be divided between the partners with the school and parents responsible for generating the additional funds.**

Additional prizes to be awarded include scientific apparatus, merchandise, scholarships and cash awards.

REGISTRATION

Application Process: Please follow all steps carefully.

1. In order for the GVRSF Committee to consider your application to participate, the following 2 (two) steps **MUST be completed NO LATER THAN 4pm, March 9, 2010.**
 - i The **on-line application** to participate must be submitted complete with project summary. When your registration is submitted successfully you will be provided with an ID number. Write this down.
 - ii The signed parental/teacher consent form **AND** payment (**cheque only**) must be received by **H.R. MacMillan Space Centre by 4pm March 9, 2010** either via mail (postmarked no later than March 4, 2010) OR drop off to the address below

**H.R. MacMillan Space Centre
1100 Chestnut St.**

Vancouver, BC V6J 3J9

*Open from **Tuesday to Sunday and Holidays from 10am to 5pm.**

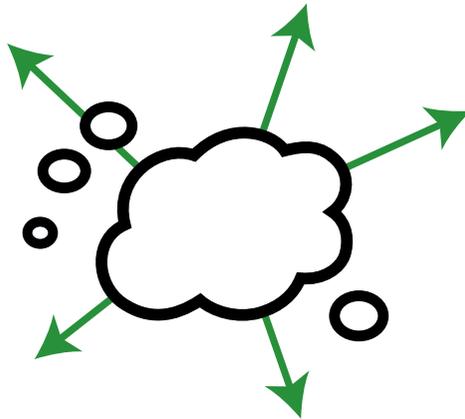
*Please **indicate "GVRSF" on all envelopes** mailed or dropped off.

**Please note that Science World is no longer the drop off location.

2. The online application form is available at www.gvrsf.ca/registration.html. Once you have submitted your online application form you must print the parental/teacher consent form and submit the completed form with payment to finish the application process (No later than 4 pm, March 9, 2010). If the project is a group project, **both** students must complete the application form **together** (there is space for partner's information). Do not submit the application form twice.
3. The online application form will only be available from **January 26–March 9, 2010 at 4 pm.**
4. You will need the following information to complete your online application:
 - Name, grade, age, gender, complete home address and email for each student.
 - Name of teacher, full school name, and school phone number and fax number.
 - Project details including title and exhibit division (see page 10 for description of each project division).
 - A text-only summary of your project (no more than 500 words), which can be cut-and-pasted into the application form. This abstract is very important for judging purposes.
5. The registration fee is \$40 per student. Therefore a two person project is \$80. **Cheques only, no cash will be accepted.** Cheques need to be made payable to the Greater Vancouver Regional Science Fair. (No post-dated cheques will be accepted.)
6. A T-shirt can be ordered at the time of registration (cost \$10). If you wish to order a T-shirt, payment must be made with the application and size required must be noted when applying on-line.
7. If your project is accepted to participate in the Greater Vancouver Regional Science Fair, a complete confirmation package will be mailed to your school to the attention of your sponsor teacher. This package contains important information regarding the schedule of the Fair and safety regulations. If this package is not at the school by April 2, please email chair@gvrsf.ca.

IMPORTANT NOTES

- See page 9 for limits.
 - Please submit signed consent form together with payment.
 - Group projects: please submit both signed consent forms together with payment.
 - Acceptance to the Science Fair is at the sole discretion of the GVRSF Committee.
 - Applicants NOT accepted will be informed by email Monday, March 22, 2010 and payment will be returned.
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2009 CANADA-WIDE SCIENCE FAIR AWARD DIVISIONAL WINNERS

Results from the 2009 Canada-Wide Science Fair Awards are available at:

www.gvrsf.ca/winners09.html

2009 GREATER VANCOUVER SCIENCE FAIR AWARDS

Results from the 2009 Greater Vancouver Science Fair Awards are available at:

www.gvrsf.ca/winners09.html



Team British Columbia at the Canada-Wide Science Fair in Winnipeg Manitoba
May 9–17, 2009

GREATER VANCOUVER SCIENCE FAIR SPONSORS

Partners



Dr. John Hepburn
UBC Vice President Research,
GVRSF Honorary Chair



UBC Faculty of Science,
Dr. Simon Peacock,
Dean

Gold

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School District #39 (Vancouver)

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Department of Chemistry
Faculty of Science

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Biodiversity Research Centre
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Department of Botany
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Department of Earth & Ocean Sciences
Department of Engineering Physics
Department of Mathematics
Department of Microbiology & Immunology
Department of Physics & Astronomy
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Department of Zoology
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Faculty of Education
Faculty of Forestry
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Faculty of Pharmaceutical Sciences
Fisheries Centre

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PIMS— Pacific Institute for
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Founding Patron

Dr. Michael Smith
(1932-2000)
Nobel Laureate

Government Agencies and NGOs



BC Regional Science & Technology Network (BCRSTN):

Innovation Resource Centre • ISIC (Interior Science Innovation Council) • KAST (Kootenay Association For Science and Technology) • KRIC (Kootenay Rockies Innovation Council) • MISTIC (Mid-Island Science, Technology & Innovation Council) • NSIS (Northwest Science and Innovation Society) • OSTEC (Okanagan Science & Technology Council) • Sci-Tech North (Science and Technology Association of the North) • VIATec



www.gvrsf.ca



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