



Mitchell Odyssey Symposium 2009

Delview Secondary School
Delta, B.C.

Some of the Challenges

- 1. Budget cuts**
- 2. Not enough equipment for students**
- 3. Old and broken equipment that has to be replaced**
- 4. Getting students to participate in Science Challenges**
- 5. Ways to keep things going after funding grant ends**

The Mitchell Odyssey Foundation Has Helped Delview Meet the Following Objectives

- 1. Enhance the quality of education**
- 2. Create interest and enthusiasm in Science**
- 3. Provide diverse hands-on learning opportunities**
- 4. Enrich Science lessons with the use of technology in the classroom**
- 5. Engage students and get them excited about learning**
- 6. Promote and encourage a more in-depth process of discovery**
- 7. Facilitate active learning and foster a greater understanding of Science concepts**

Opportunities Made Possible by the Mitchell Odyssey Foundation

1. **Field Trips** - grade 8 field trip to Science World to view the Body Worlds exhibit and IMAX show
-tied in nicely with the new Science 8 curriculum (human body systems)



Opportunities Made Possible by the Mitchell Odyssey Foundation

2. Skype (an interview with an astronomer)

-Science 9 classes participated in a Skype session with Raminder Samra, an astronomer with the H.R. MacMillan Space Centre

-it was held in the computer lab with a web cam, a digital projector, and the Skype software



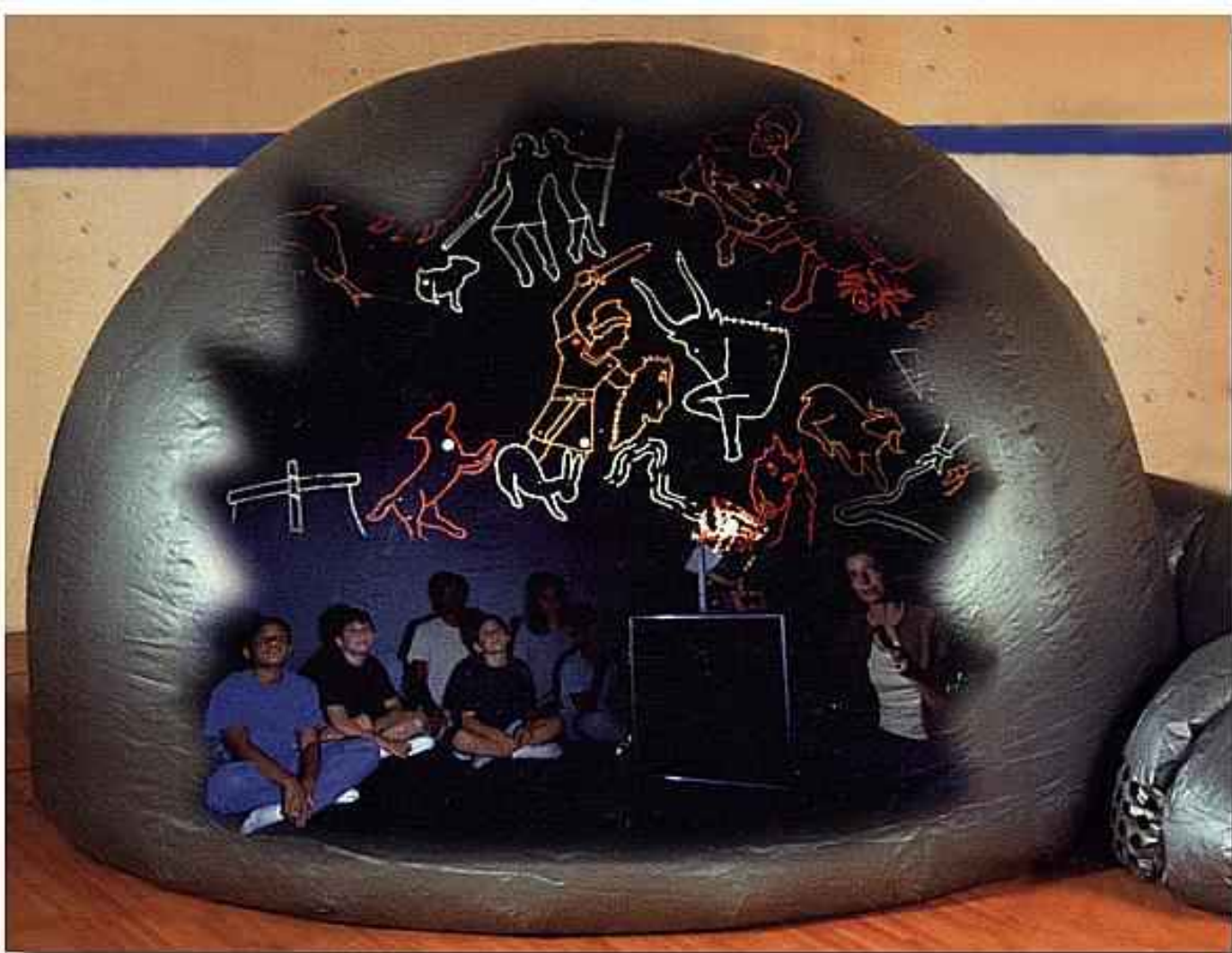
Opportunities Made Possible by the Mitchell Odyssey Foundation

3. Guest Speakers

-Jim Bernath was great at engaging the students and capturing their interest with his stories and his space artifacts



Starlab: The Portable Planetarium



Opportunities Made Possible by the Mitchell Odyssey Foundation

4. Science Challenges (eg. paper airplanes, mouse trap cars, aluminum barges, building bridges, etc.)



Science Challenge: Mouse Trap Cars



Science Challenge: Aluminum Barge



Opportunities Made Possible by the Mitchell Odyssey Foundation

5. Biology 11 and 12 Dissections (eg. fetal pig, heart, brain, kidney, earthworm, seastar, sea urchin, squid, rat, frog, crayfish, grasshopper, etc.)



**Biology 12:
Fetal Pig Dissection**

Biology 11: Seastar Dissection



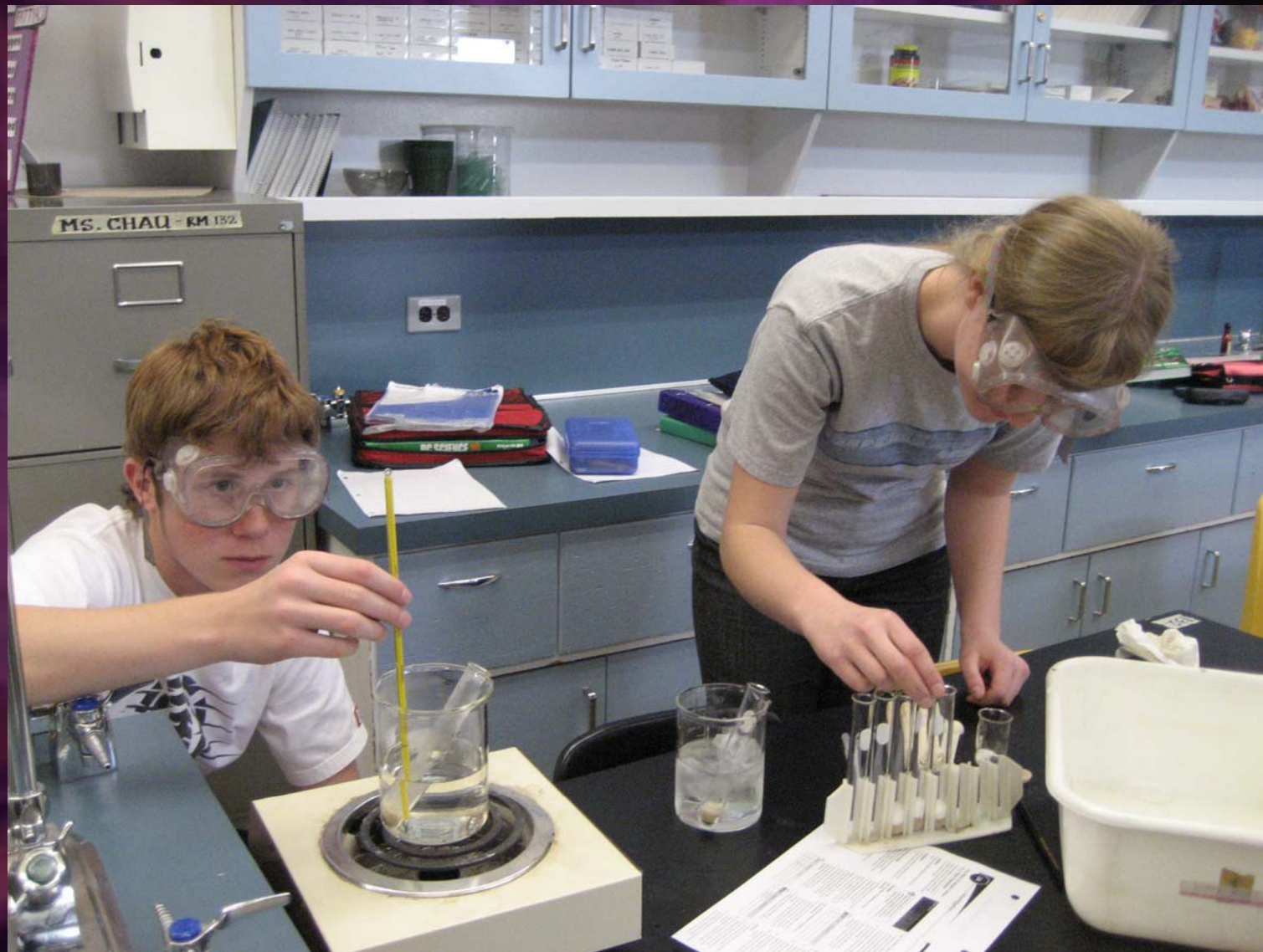
Opportunities Made Possible by the Mitchell Odyssey Foundation

6. Lab Equipment for New Science 8, 9, and 10 Courses (eg. Van de Graff generator, class sets of lenses, mirrors, prisms, balances, hot plates, multimeters, constant velocity cars, etc.)
- allows every student in the classroom a chance to apply the abstract concepts covered in the textbook
 - allows students to learn complex science concepts using concrete things

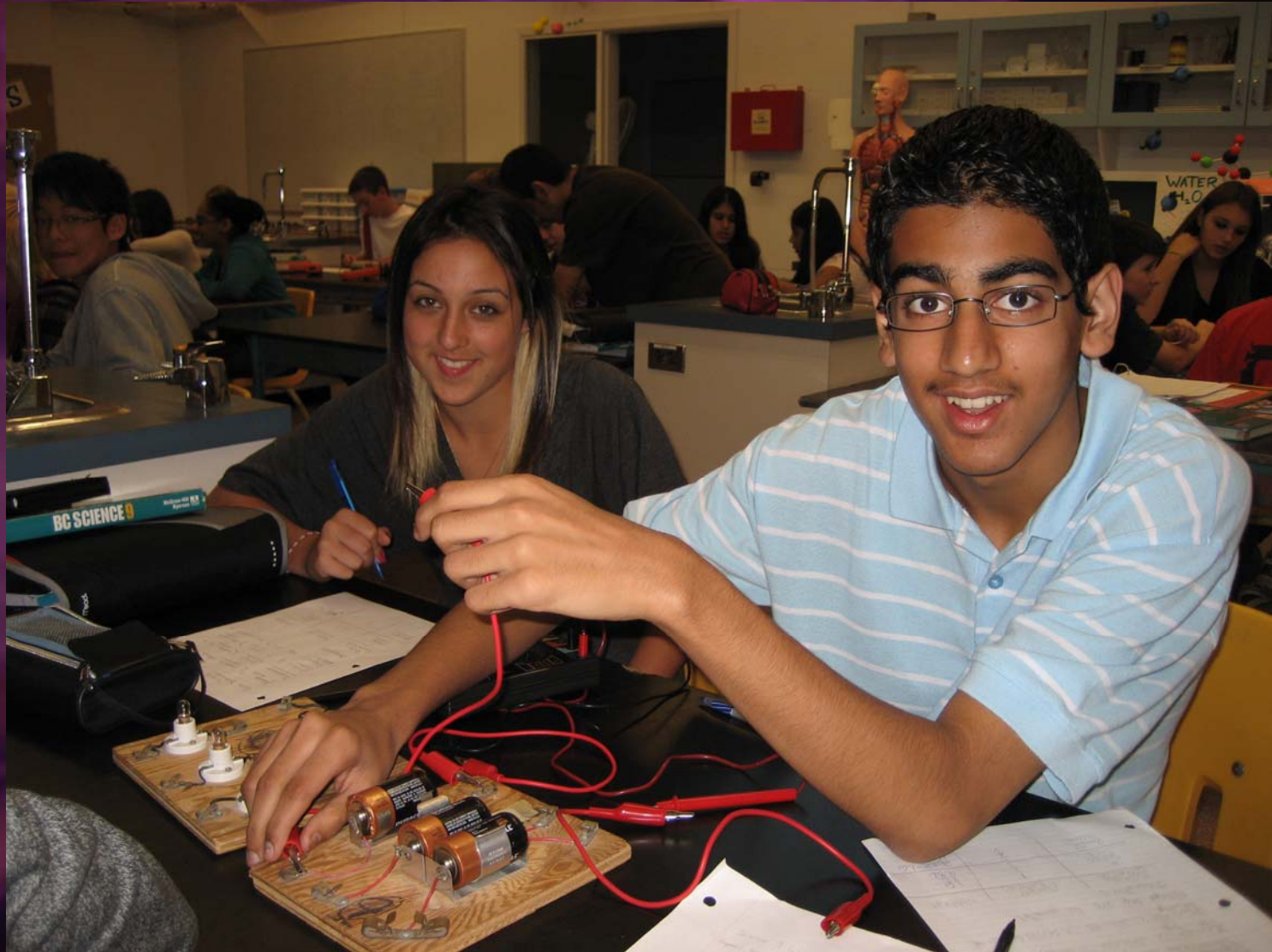
Science 9: Van de Graff Generator



Equipment for Hands-on Labs



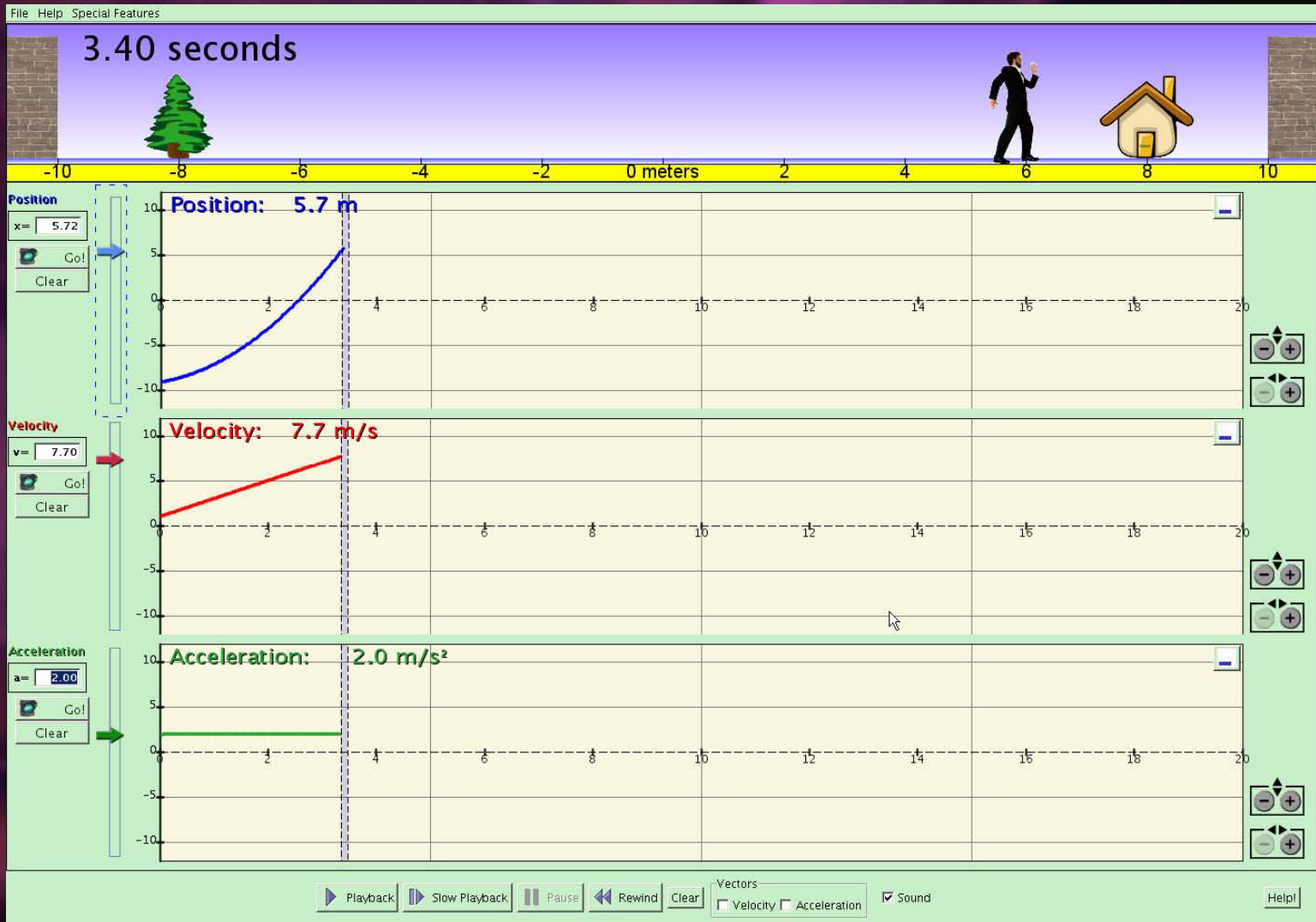
Electrical Circuit Kits and Multimeters



Opportunities Made Possible by the Mitchell Odyssey Foundation

7. Laser Printer (eg. to allow students to print out data collected using Vernier Probeware)
8. Digital Projector for the Classroom (eg. to show science animations and simulations to reinforce abstract concepts, to have lessons with Powerpoint presentations, to allow students to present research projects with Powerpoint presentations, etc.)

Interactive Science Simulations



Some Positive Impacts of the Mitchell Odyssey Foundation

- 1. Students experience fun activities inside and outside the classroom**
- 2. Students have positive attitudes towards Science**
- 3. The whole learning experience is enriched and critical thinking is promoted**
- 4. Technology is incorporated into our lessons**

Quotes from Delview Students

- *“The dissections made it so much more real.”*
- *“That was so much fun. When is the next Science Challenge?”*
- *“That was awesome! Can we do it again?”*
- *“I never really liked Science because I was never good at it. I now like it because I finally understand the things we’re learning in class.”*

Many Thanks

Delview would like to thank the Mitchell Odyssey Foundation for the funds that made all of these learning experiences and engaging activities possible for our students.

We have really appreciated the generous financial support that Mitchell Odyssey has given us over the last three years.