

St. David Catholic Secondary School



Heart of the Community, Success for Each, A Place for All



Enrichment Opportunities

Semester One

w w w . w c d s b . c a

Beaver Computing Challenge

- Grade 9 or 10
- Introduces computer science to students. It is designed to get students with little or no previous experience excited about computing. This is a problem solving contest with a focus on computational and logical thinking
- 45 minute period during **November**
- The contest is written online in schools and supervised by teachers.
- For more info, email [Mr. Temple](mailto:Mr.Temple)
- <http://cemc.uwaterloo.ca/contests/bcc.html>





Enrichment Opportunities

Semester 2

w w w . w c d s b . c a

Chem 13 News Exam

- Grade 12
- Chemistry
- 40 multiple-choice questions, some easy, some tough, under the general headings: organic, equilibria, kinetics, oxidation-reduction, bonding, structure, reactions, solutions, gases, & general knowledge of current affairs.
- Written at school in **May 2016**
- For more info, email [Ms. Johnson](mailto:Ms.Johnson)
- <https://uwaterloo.ca/chemistry/about-chemistry/community-outreach/chem-13-news-exam>



Avogadro Chemistry Contest

- Grade 11
- Chemistry
- 40 multiple-choice questions, some easy, some tough, under the general headings: structure of matter, bonding, reactions, solutions, & gases, & general knowledge of current affairs.
- Written in school in **May 2016**
 - For more info, email [Ms. Johnson](mailto:Ms.Johnson)
- <https://uwaterloo.ca/chemistry/about-chemistry/community-outreach/avogadro-exam>

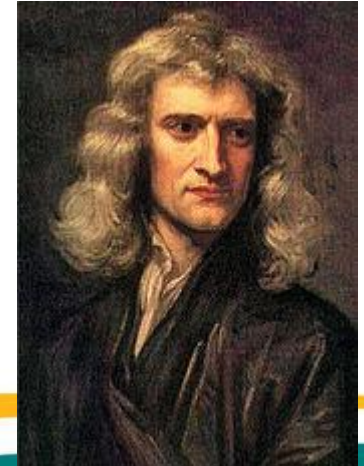


Amedeo Avogadro

Sir Isaac Newton Physics Contest



- Grade 11 & 12
- Physics
- The exam, although aimed at competent students, is meant to be refreshing and fun. Political and other topical humour have marked SIN exams for years.
- Written at school in **May 2016**
- \$5,000 entrance scholarship, other prizes
- For more info, email [Ms. Ruck](mailto:Ms.Ruck)
- <https://uwaterloo.ca/sir-isaac-newton-exam/student-information>



Waterloo Unlimited

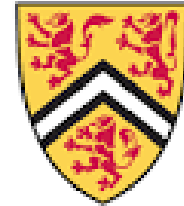
- Grade 10, 11, 12
- All subjects
- Brings together curious, motivated, well-rounded teens from across the country. Rather than focusing on enrichment in a particular subject, each Waterloo Unlimited experience revolves around a different transdisciplinary theme—such as "*change*" or "*design*".
- \$450. Apply by December 2015. Bursary available.
- Gr. 10: **March 2016**; Gr, 11: **May 2016**
- <https://uwaterloo.ca/unlimited/>
- For more info, email [Ms. Hannoush](#)



Canadian Computing Competition

- Grades 11 & 12 —intermediate to advanced programming skills
- Computer Engineering, Computer Science
- Test your ability in designing, understanding and implementing algorithms
- **February 2016**
- For more info, email [Mr. Gmach](mailto:Mr.Gmach)
- <http://cemc.uwaterloo.ca/contests/computing.html>

UNIVERSITY OF
WATERLOO



WATERLOO | **MATHEMATICS**

The CENTRE for EDUCATION in MATHEMATICS and COMPUTING

OAPT Physics Contest

- Grade 11
- Physics
- The contest has 30 multiple choice questions, usually with one or two of those questions based on the previous year's Nobel Prize in physics or current events in physics.
- Written in school in **May 2016**
 - For more info, email [Ms. Ruck](mailto:Ms.Ruck)
- http://www.oapt.ca/grade_11_contest/index.html



U of T National Biology Competition

- Grade 12
- Biology
- 50 multiple-choice questions
- Written in school in **April 2016**
- Sign up with [Mr. Schumacher](#) or [Mr. Bachher](#)
- <http://www.biocomp.utoronto.ca/>



UNIVERSITY OF
TORONTO
National Biology Competition

w w w . w c d s b . c a

Charlie Awards Film Festival – Video Competition

- Grades 9 – 12
- Communications Technology
- Create a short film up to 10 minutes in length – any genre – student made, with no teacher involvement.
- Intent to submit must be received by **April 2016**
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://www.charlieawardsfilmfestival.ca/>
- All films are viewed during the Festival on at the original Princess Cinema on Princess Street with winners being announced at 8:30PM

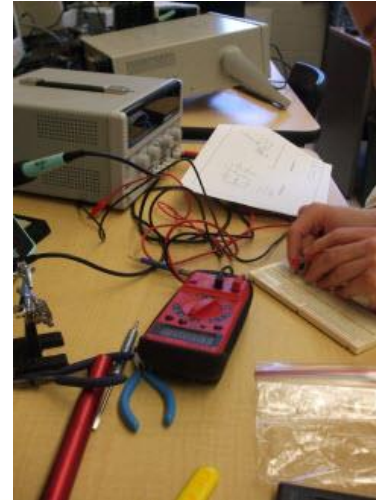


CHARLIE AWARDS FILM FESTIVAL



Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Computers and Design**
- Architectural Technology and Design, Electronics, IT Network Systems Admin., IT Office Software, Mechanical Computer Aided Drafting, Virtual Robotics
- **March 2016**
- Register Online beginning December
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://skills.wcdsb.ca/sec/index.html>



FIRST Robotics – Team Dave

- Grades 7-12
- STEM, business, arts
- International competition to fund/design/build/promote a robot
- Learn business & technology
- One night a week year-round at school. Daily design/build January/February. Overnight tournaments in Ontario & USA **March/April**.
 - For more info, email Mr. Matan
- www.TeamDave.ca



It's Your Job – Video Contest

- Grades 9 – 12
- Communications Technology, Co-op
- Use your creativity to develop an original video that can be used in social media to illustrate the importance of working safely on the job.
- Contest closes **March 2016**
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://www.labour.gov.on.ca/english/contest/index.php>

PRIZES

- 1st Place: **\$1000** for the entrant(s)
- 2nd Place: **\$750** for the entrant(s)
- 3rd Place: **\$500** for the entrant(s)



Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Hospitality and Hairstyling**
- Baking, Culinary Arts, Restaurant Service, Hairstyling
- **March 2016**
- Register Online beginning December
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis@wcdsb.ca)
- <http://skills.wcdsb.ca/sec/index.html>



Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Construction and Design**
- Architectural Technology and Design, Cabinetmaking, Carpentry (Individual and Team), Home and Team Build, Landscape Gardening
- **March 2016**
- Register Online beginning December
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://skills.wcdsb.ca/sec/index.html>



Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Transportation Technologies**
- Auto Service Technology, Small Powered Equipment, Welding
- **March 2016**
- Register Online beginning December
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://skills.wcdsb.ca/sec/index.html>

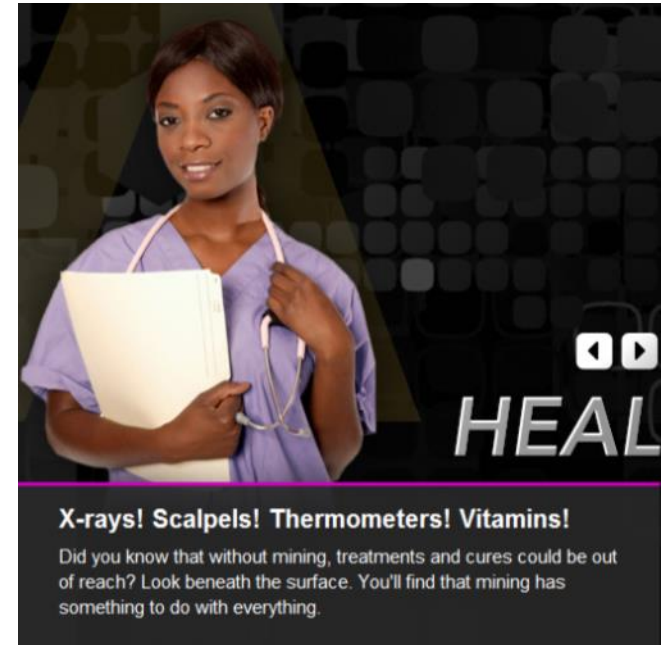


So you think you know Mining – Video Competition

- Grades 9 – 12
- Communications Technology
- **Create a compelling 2-3 minute video clip that profiles the benefits of mining to society.** You can work alone or get a group of friends together and work as a team
- Entries close **March 2016**
- <http://www.oma.on.ca/en/contestpages/contestdetails.asp>

PRIZES

- Top videos earn from \$2500 to \$5000
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)

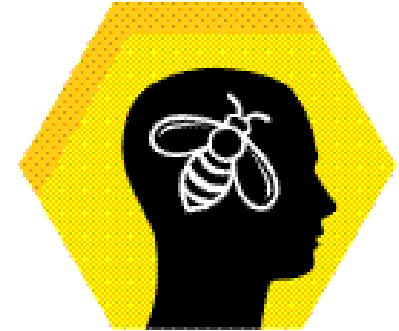


Brain Bee

- Grades 9 through 12
- Science
- Competitors answer questions about the brain and neuroscience.
- **March 2016**
- Sun Life Financial Auditorium, Room 1621, in the Lyle S. Hallman Institute Building (LHI) at the University of Waterloo
- For more info, email [Mr. Schumacher](mailto:Mr.Schumacher)
- <https://uwaterloo.ca/kinesiology/events/university-waterloo-brain-bee>

PRIZES:

- 1st place \$400; 2nd place \$100.00



Inspiring Future Women in Science Conference

- Female students in Grade 9 - 12
- Are you interested in turning your love of science into a career? Perimeter Institute is inviting female high school students to participate in an inspirational half day conference
- **March 2016**
- Download the registration form on the website
- <http://www.perimeterinstitute.ca>
- For more info, email [Mr. Schumacher](mailto:Mr.Schumacher)

PERIMETER  INSTITUTE FOR THEORETICAL PHYSICS



**INSPIRING
FUTURE
WOMEN
IN SCIENCE
Conference**

Friday, March 6, 2015

PANEL DISCUSSION
Female panelists from across a variety of industries in the scientific fields will discuss why they chose to pursue a career in science, the challenges they have faced, and the rewards of their chosen careers. Participants are encouraged to ask questions of the panelists throughout the discussion.

SPEED MENTORING
An opportunity to engage with representatives from a variety of careers and undergrads currently working towards a science degree.

WHO IS THE CONFERENCE FOR?
The conference is open to all young women currently attending high school.

HOW TO ATTEND:
Visit www.perimeterinstitute.ca/womeninscience to download a registration form. Email completed form to amcdonnell@perimeterinstitute.ca. Space is limited and registrations will be accepted on an as received basis until the conference is full.

QUESTIONS?
Please contact Alex McDonnell at amcdonnell@perimeterinstitute.ca.

KEYNOTE SPEAKERS
Rima Brek
Head of Technology Ubisoft

Dianna Cowern
You Tube's Physics Girl

LOCATION
**Perimeter Institute
for Theoretical Physics**
31 Caroline Street North Waterloo,
Ontario Canada N2L 2Y5

PERIMETER  INSTITUTE FOR THEORETICAL PHYSICS

“The goal is to bring together like minded young women with a strong interest in science and expose them to the rewards, challenges and possibilities of a career in science.”

Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Communications Technology**
- 2D Animation, 3D Animation, Graphic Design Presentation, Graphic Design Studio Production, Photography, TV/Video Production
- **March 2016**
- Register Online beginning December
- Conestoga College
- For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://skills.wcdsb.ca/sec/index.html>



Young Entrepreneurs: Make your Pitch Contest

- Grades 9 – 12
- Business
- Pitch your business ideas in a two-minute video that will be voted on by the public and expert judges
- Entries are due **March 2016**
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://www.makeyourpitch.ca/>
- Winners receive reserved entry into Summer Company to develop their business idea (including an award of up to \$3,000)



Skills Canada Regional Competitions

- Grades 9 through 12
- One day skills competition focusing on **Business**
- Job Interview, Prepared Speech, Graphic Design Presentation
- **March 2016**
- Register Online beginning December
 - For more info, email [Mrs. Nijhuis](mailto:Mrs.Nijhuis)
- <http://skills.wcdsb.ca/sec/index.html>



Michael Smith Science Challenge

- Grades 9 and 10
- Science
- National Competition emphasizing logical thinking and covers material in the science curriculum common to all provinces.
- Written in **February** with your teacher
 - For more info, email [Mr. Schumacher](mailto:Mr.Schumacher)
- www.smithchallenge.ubc.ca

PRIZES:

- Nationally: 1st - \$500, 2nd - \$250, 3rd - \$100
- Provincially: \$100 for top student without a national prize, \$50 for each student in a tie



Waterloo Unlimited



- Grade 10, 11, 12
- All subjects
- Brings together curious, motivated, well-rounded teens from across the country. Rather than focusing on enrichment in a particular subject, each Waterloo Unlimited experience revolves around a different transdisciplinary theme—such as "*change*" or "*design*".
- \$450. Apply December 2015. Bursary available.
- Gr. 10: **March 2016**; Gr, 11: **May 2016**
- <https://uwaterloo.ca/unlimited/>
- for more info, email [Ms. Hannoush](#)



Computer Science Girls Rock

- Female grade 9 and 10 students
- Computer Science
- Computer science is about much more than using and programming computers. Through lectures, labs and hands-on activities, the workshop explores the foundations and applications of computer science that have a profound effect on the world today.
- Two one-week session(s) in **May**
- **\$150 registration includes accommodation & meals**
- For more info, email [Mr. Gmach](mailto:Mr.Gmach)
- <http://cemc.uwaterloo.ca/events/csgirls.html>





Waterloo Catholic
District School Board

Enrichment Opportunities

Summer

w w w . w c d s b . c a

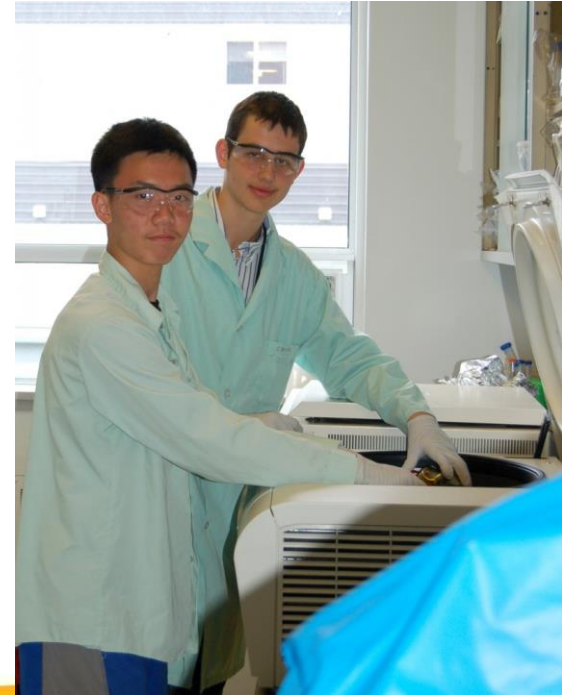
Deep River Science Academy

- Grades 9 - 12
- Summer Science Immersion
- This program takes high school students out of the classroom and places them in real-life, high-tech laboratories immersing the student in a science career.
- 6 weeks in the **summer**
- Earn 2 Co-op credits
- For more info, email [Mr. Schumacher](mailto:Mr.Schumacher)
- www.drssa.ca



Deep River Science Academy

Real Research Real Science Real Summer



Laurier Enriched Academic Program

- Summer camp for gifted highly able children in grades 1-9
- Saturday morning programs and **summer** camps.
- https://legacy.wlu.ca/page.php?grp_id=1867&p=14054
 - for more info, email [Ms. Hannoush](#)



SHAD Valley

- Grades 10 - 12
- 4 week enrichment **summer** camp
- program focuses on the Sciences, Technology and Entrepreneurship
- students spend a month living in residence at a host University
- application deadline is early December
- www.shad.ca
- For more info, email [Mr. Schumacher](mailto:Mr.Schumacher)



SHAD
UNCOMMON PURPOSE

Science and Engineering Summer Research

- Grades 11 and 12
- Are you Canada's next top researcher?
- SPARK is an award of up to \$4000 allowing aspiring young scientists and engineers to participate in ground-breaking research at York University in **July/August**
- Visit the website to read about the full application process
- For more info, email [Mr. Schumacher](mailto:Mr.Schumacher)
- <http://spark.info.yorku.ca/>

