Welcome to the monthly IOS Newsletter. We hope that this will serve to keep you informed about the events and developments in the IOS community.

**Academic/Research**

**Watch Grand Challenges Canada proposals submitted by the IOS community**

The Stars in Global Health program supports researchers in Canada and low- and middle-income countries to use scientific/technical, social and business innovation to address some of the most pressing global health problems. In January, the IOS held an event called TechnoStorm to create ideas and proposals for submission to this exciting program. Ten proposals were generated out of that event and other discussions between IOS staff, students and companies. Watch and vote for your favourite video applications through the following links:

- Arsenic detection system in ground water using no consumables
- Developing a novel water test device for coliform bacteria monitoring in limited-resource settings
- Electric trike initiative
- Educational kits for healthier kids
- Hidden hunger: Combatting iron deficiency in the Philippines with snacks
- A TelePathology system for training and diagnostic support
- A simple yeast-based blood screening assay
- Reducing post-harvest losses in India: A simple, low cost, low energy solution
- Simple cleaning indicator to increase sanitation in healthcare facilities
- Addressing the noise pollution problem in developing countries through a smart-phone application

**Awards and Recognition**

**Prof. Ken Burch named Canada Research Chair in Spectroscopy of Novel Materials**

Professor Ken Burch, an IOS faculty member from the Department of Physics, has been recently named the Canada Research Chair in Spectroscopy of Novel Materials. The news was presented as part of a larger announcement that the federal government was investing $18.7 million in funding for 23 new and renewed research chairs at the University of Toronto. Prof. Burch's work focuses on probing the physics governing optical properties of various materials as well as developing new optical devices. His group investigates
Entrepreneurship

Pueblo Science featured in The Globe and Mail

Members of the non-profit organization Pueblo Science, including the IOS director Prof. Cynthia Goh, were recently featured in The Globe and Mail: The XX Factor: Women in Science. This is the last in a series of articles discussing the role and representation of women in science and engineering. The March 11th article examines how female scientists find their inspiration and highlights the work that Pueblo is doing to promote science literacy around the world. The article is accompanied by a video showing some of the demonstrations used to help engage young people in advanced scientific concepts.

Pueblo Science wins $20,000 in OCE Social Enterprise Student Competition

The Ontario Centres of Excellence (OCE) just concluded their 2013 Social Enterprise Student Competition, which awarded $20,000 prizes to four companies to help develop their social enterprises. We are happy to announce that Pueblo Science was one the four winning finalists and will use the money to stage high-quality hands-on science extracurricular activities for school-aged children in Toronto in the form of after-school clubs and camps. The goal is to provide access to enriching programs for all children regardless of their socioeconomic status or family income level. Congratulations Pueblo Science!

Flarian, GymLife, SJ&E and Sense Intelligent awarded VentureStart grants

Flarian, GymLife, SJ&E and Sense Intelligent have been awarded VentureStart grants. With products ranging from micro plastic injection moulding machines to sound visualization, each of these companies will receive $30,000 in matching capital to help complete product development and begin market rollout. Run through the RIC Centre in Mississauga, the program is designed to enhance the success rate of start-ups by providing business skills training, mentoring and matching capital grants.

Pathcore awarded OCE Market Readiness

Congratulations to Pathcore for being the recipient of an OCE Market Readiness Award! Phase 1 awards range from $10,000 to $100,000 and are designed to help researchers advance to the next stages in the commercialization process. Pathcore aims to bring the convenience of modern digital technologies to the forefront of clinical pathology by providing state-of-the-art software and hardware solutions. They will use the award to accelerate product development and to hire additional staff.

Pathcore is hiring - Intermediate Software Developer (Medical Imaging)

PathCore, software startup specializing in digital pathology image management and analysis software, is
currently recruiting for a highly energetic and motivated software developer with past experience in medical imaging software. The position is based in TechnoLABS at the Banting and Best Centre for Innovation and Entrepreneurship and interested candidates may submit a CV to careers@pathcore.ca. More information on the position and the company are available on Pathcore’s website.

**Student Activities**

**Holography featured on Discovery’s Daily Planet**

Daily Planet, one of Discovery Canada’s flagship science and engineering interest shows, recently took a tour of the IOS’ holography studio with our academic program coordinator Dr. Emanuel Istrate. Check out the video to learn how our students make holograms!

**Events**

**Distinguished Visiting Scientist Details**

Professor Mildred Dresselhaus from the Massachusetts Institute of Technology in Cambridge, MA will visit the IOS from April 22 to 24 as a Stoicheff Lecturer and a Distinguished Visiting Scientist (DVS).

**Lecture 1/Stoicheff Lecture:** Why are People Interested in Materials Physics?

Monday, April 22 at 3:00 p.m.
Earth Sciences Centre ES1050, 33 Willcocks Street

**Lecture 2:** Nanoscale Phenomena

Tuesday, April 23 at 2:00 p.m.
Bahen Centre for Information Technology BA1130, 40 St. George Street

**Lecture 3:** Perspectives on Thermoelectric Materials

Wednesday, April 24 at 2:00 p.m.
Bahen Centre for Information Technology BA1130, 40 St. George Street