

# Physics Student Awards Night

Celebrating the achievements of our Physics students who have received a scholarship or award during the 2021-2022 year. Please join us as we take the time to commemorate this special occasion and recognize our outstanding award recipients.

**March 7, 2022**

7:00pm via Zoom

## **ORDER OF EVENTS:**

### **Welcome from the Department Chair:**

Dr. Blair Jamieson

### **Presentation of Awards:**

UofW Physics Scholarship Recipients

UofW Scholarship Recipients

Internal UofW Awards

External Awards

Events

### **Closing Remarks**



THE UNIVERSITY OF WINNIPEG

## **UofW Physics Scholarship**

### **Recipients**

#### **Dr. Donald Kydon Prize in Physics**

##### **Lyndsay Green**

Dr. Donald Kydon (1934-2003) served The University of Winnipeg enthusiastically and energetically for more than 30 years. The Dr. Donald Kydon Prize is awarded to a student entering Second year physics or beyond with a distinguished record who has excelled in physics. Preference may be given to students with a demonstrated interest in medical physics and/or to students from under-represented groups.

#### **Brian J. Hyslop Memorial Scholarship in Physics**

##### **Michael Grehan**

This scholarship was established by Mrs. Analee Hyslop in memory of her husband, Brian Hyslop, a 1959 graduate of The University of Winnipeg (United College), long-time Windsor Park Collegiate physics teacher, co-chair for many years of the Manitoba School Science Symposium held at The University of Winnipeg, and respected artist. Brian was an influential and well-loved teacher, leaving a lasting, positive effect on many of the students he taught. This scholarship is awarded to a Third Year student enrolled at The University of Winnipeg in the honours degree in physics, who has a minimum cumulative grade point average of 3.00 and demonstrates the compassion and giving nature of Brian, a great man who showed patience and acceptance to all. Recipients will have worked under the supervision of a faculty member in the Department of Physics on a research project, demonstrating a passion for physics and a superior ability to do productive research. Further consideration will also be given to students interested in pursuing a master's degree in physics, and students who are likely to contribute to society and have a commitment to helping their community.

#### **Leonard Krueger Prize in Astronomy**

##### **Grupreet Deol**

This prize has been awarded to the student obtaining the highest grade in Physics 1701, Astronomy.

#### **Henry Doidge Memorial Scholarship in Physics**

##### **Portia Switzer**

This scholarship was established in 1980 by Genevieve Doidge (Class of 1935) in memorial tribute to her husband, the late Henry G. Doidge. It will be awarded to a student with standing in First year Physics who is entering the Second year of the Physics Major program.

#### **BG Hogg Scholarship /CUPC/CCUWiP**

##### **Kiera Pond Augusto & Madison Chisholm**

This award has been established by the family, friends and colleagues of Dr. B.G. Hogg as a memorial tribute. It is awarded on the basis of academic merit to a student in the Physics Major program for the purpose of attending an undergraduate or professional Physics conference.

#### **DC Hogg Scholarship in Physics**

##### **Kishankumar Patel**

This award has been established by Dr. B.G. Hogg in memory of his father. It is awarded on the basis of academic merit to a student entering the Fourth year of the Physics B.Sc. 4-year program on a full-time basis.

#### **Dr. Herbert Shubin Memorial Scholarship in Physics**

##### **Laura Didyk**

This scholarship is provided by the Erica and Arnold Rogers Fund for Academic Excellence. It is awarded annually to the most promising student entering the Final year of the 4-year Physics program.

## UofW Scholarship Recipients

### **Donald Kerr Scholarship in Honours Physics**

#### **Kiera Pond Augusto**

The Donald Kerr Scholarship in Honours Physics Created in memory of Dr. Donald Kerr by his family, friends and colleagues, this scholarship is awarded to an academically exceptional student entering their final year of an Honours Physics degree at The University of Winnipeg. The candidate must submit a two-page personal statement explaining which of the following traits they possess and provide examples: an educator with the desire and aptitude for instructing others, a scientist with the knowledge and commitment required to complete a research project, or a leader showing reliability, productivity, cooperation and integrity within a team. Examples used may be in Physics, academia or other areas of life.

### **Kunstatter Family Bursary in Physics**

#### **Tapendra BC**

This award was established by Dr. Gabor Kunstatter's family to mark his retirement from the Department of Physics at The University of Winnipeg. It is awarded annually to a student entering the second or third year of a 4 year Bsc (Major or Honours) in Physics. A passion for physics combined with strong academic skills is essential. Students must demonstrate financial need with preference given to single parents.

### **Sir William Stephenson Scholarship (\$9,000)**

#### **Michael Grehan**

These Scholarships, established in 1984 by Sir William Stephenson through The Winnipeg Foundation, is awarded annually to one or two students who demonstrate outstanding academic achievement, superior leadership qualities on or off campus, and the potential to make a valuable contribution to Canada.

Born on January 23, 1897 in Point Douglas, Winnipeg, Manitoba, Sir William Samuel Stephenson, CC, MC, DFC was a Canadian soldier, airman, businessperson, inventor, lightweight boxing champion, and spymaster. In 1916 he volunteered for service in the 101st Overseas Battalion, Canadian Expeditionary Force and in 1917 was granted a commission in the RFC. By the end of World War I he had achieved the rank of Captain and earned the Military Cross, the Distinguished Flying Cross and the Croix de Guerre.

Between the wars, he became a wealthy industrialist, involved in the steel industry, the automobile industry, and aviation. He helped develop the Spitfire airplane and patented a way of sending photographs through wireless telegraph. As Director of British Security Coordination in the Western Hemisphere, he was an indispensable asset to the allies during World War II. In 1941, he set up Camp X at Whitby, Ontario, the first spy training school for clandestine wartime operations for the Allies. He became Churchill's personal representative to President Franklin D. Roosevelt, with a mandate from both – from his base in New York City – to get public opinion changed to approve the US entering the War. He later became one of the first directors of public relations for the BBC. Stephenson is best known by his wartime intelligence code name "Intrepid" and has been referred to as "the Godfather of the CIA" whose initial members trained at Camp X. Many people consider him to be the real life inspiration for James Bond, and Ian Fleming, who trained at Camp X, once wrote that "James Bond is a highly romanticized version of a true spy. The real thing is...William Stephenson."

## **Internal UofW Awards**

### **Dr. Randy Kobes Memorial Scholarship (\$1,000)**

#### **Kiera Pond Augusto**

This scholarship is awarded to a student with a declared major in a science-related field. The successful candidate must demonstrate academic achievement and have made significant extra-curricular contributions in the community, either within the University or outside – especially in scientific literacy or outreach. Established in 2010 by family, friends, and colleagues in memory of Dr. Randy Kobes, Associate Dean of Science and Professor of Physics, this scholarship pays tribute to Dr. Kobes's outstanding academic contributions as a physicist and educator at The University of Winnipeg. This award also honours Dr. Kobes's extensive outreach activities, including the Let's Talk Science and Eco-Kids programs, along with the development of a degree program in Science, Environment and Indigenous Knowledge.

### **John Roberts Prize for Excellence in Undergraduate Research (\$1,500)**

#### **Kiera Pond Augusto**

Established by Dr. John Roberts, Class of '66, this prize is awarded to the undergraduate student in any year or discipline, who has demonstrated excellence through research done in collaboration with a faculty member or department, and/or by undertaking independent research on or off campus. Submissions must include a sample of the candidate's research, as demonstrated by a completed research report or published article.

### **Special Entrance Scholarship**

The Special Entrance Scholarships are offered to Grade 12 graduating students coming directly from a high school in Canada, and to international students from the United States, or those studying Canadian curriculum abroad. Students must have at least 85% final grade 12 award average and have enrolled in a minimum of 18 credit hours for the Fall/Winter term.

**Caden Ballam**

**Jessica de Kort**

**Greyson Hennessey**

**Kara Macrae**

### **Women's Auxiliary Entrance Scholarship**

This scholarship is offered to 3 outstanding high school graduates who are entering an undergraduate degree program at the University of Winnipeg.

**Kara Macrae**

### **Presidents Scholarship for World Leaders**

The President's Scholarship for World Leaders is awarded to international students who are entering any of the University's divisions for the first time – Undergraduate, Graduate, Collegiate, Professional, Applied and Continuing Education (PACE) or English Language Program (ELP). Award recipients are involved in activities that demonstrate leadership and have a minimum admission average of 80%. The award is valued at \$5,000.

**Navkirat Kaur Chera**

### **Wesmen Athletic Scholarship - Undergraduate**

An athlete commits a lot of time to their program with practices, games, and travel while keeping up with their school work. These scholarships are awarded to assist with tuition costs.

**Abigail Benson** (Women's Basketball)

**William Racano** (Men's Volleyball)

**Portia Switzer** (Women's Volleyball)

### **UofW Academic Athletic Scholarship**

**Portia Switzer** (Women's Volleyball)

### **Molly Rogers Brickman & Leo Brickman Scholarship in Chemistry**

This Scholarship is provided by the Erica and Arnold Rogers fund for Academic Excellence. It is awarded annually to the most promising student entering their final year of the 4 year Chemistry program at The University of Winnipeg.

**Kiera Pond Augusto**

### **The Pathways to Graduate Studies (P2GS)**

The Pathway to Graduate Studies (P2GS) program offers research opportunities for Indigenous students in STEM at UWinnipeg. P2GS is open to Indigenous students who have declared a major in a natural science and engineering field or are planning to declare a major in a natural science and engineering field and will be enrolled in UWinnipeg classes for the upcoming Fall term. There is no minimum GPA requirement, what is most important is an interest in science and learning about science-based research.

**Flora Easter** (Supervisor: Dr. Blair Jamieson, Nuclear Physics)

**Bryson Lameroux** (Supervisor: Dr. Jeff Martin, Nuclear Physics)

**Dylan Stokes** (Supervisor: Dr. Melanie Martin, Medical Physics)

### **Indigenous Summer Scholars Program (ISSP)**

The Indigenous Summer Scholars Program (ISSP) is hosted by the UWinnipeg Faculty of Graduate Studies and invites senior undergraduate students and recent graduates of undergraduate programs who identify as Indigenous Peoples of Canada to explore the possibilities of graduate studies. The goals of the program are: 1) to strengthen the pathways for Indigenous students to move into advanced study and, ultimately, into leadership in the academy and in all sectors of society; 2) to re-affirm the significance and centrality of Indigenous peoples, ways of knowing, and experiences at the UW; and 3) to create a network of Indigenous scholars and allies on campus.

**Ashley King** (Supervisor: Dr. Melanie Martin, Medical Physics)

### **Dean's Honour List**

"Student of Highest Distinction" awards are given to full-course students who have earned averages of 90% or higher. "Student of Distinction" awards are given to full-course students who have earned averages between 80% and 89.9%.

### **Student of Highest Distinction:**

**Kiera Pond Augusto**

**Michael Grehan**

**Alexander Mar**

**Portia Switzer**

**Kyle Wittmeier**

### **Student of Distinction:**

**Lyndsay Green**

**Kishankumar Dilipbhai Patel**

**Sebastian Wright**

### **Academic Proficiency Scholarship**

**Kiera Pond Augusto**

**Michael Grehan** (Winnipeg Rh Institute)

**Alexander Krosney**

**Alexander Mar**

**Shawn Skelton**



**Portia Switzer**  
**Kyle Wittmeier**

### **Undergraduate Student Research Award (USRA)**

Awards have a value of \$6,000 with a duration of 16 weeks on a full-time basis. USRAs are meant to nurture your interest and fully develop your potential for a research career in the natural sciences and engineering. They are also meant to encourage you to undertake graduate studies in these fields by providing research work experience that complements your studies in an academic setting.

NSERC is acting on the evidence that achieving a more equitable, diverse and inclusive Canadian research enterprise is essential to creating the excellent, innovative and impactful research necessary to advance knowledge and understanding, and to respond to local, national and global challenges.

**Kiera Pond Augusto** (Supervisor: Dr. Jeff Martin, Nuclear Physics)  
**Madison Chisholm** (Supervisor: Dr. Melanie Martin, Medical Physics)  
**Cole Coughlin** (Supervisor: Dr. Andrew Frey, Theoretical Physics)  
**Michael Grehan** (Supervisor: Dr. Andrew Frey, Theoretical Physics)  
**Ashley King** (Supervisor: Dr. Melanie Martin, Medical Physics)  
**Sidney Leggett** (Supervisor: Dr. Blair Jamieson, Nuclear Physics)  
**Shawn Skelton** (Supervisor: Dr. Andrew Frey, Theoretical Physics)

## **External Awards**

### **Institute of Particle Physics (IPP), Summer Student Program: Undergraduate Research & Experience at CERN & in Canada**

The Institute of Particle Physics supports Canadian undergraduate students participating in the CERN summer student program.

Students selected for the program spend from late June to the end of August working with active research groups at CERN, one of the world's premier international laboratories. They will also attend a series of lectures remotely, specially prepared for them by CERN-based researchers. Prior to the CERN component of the program, students will work on a subatomic physics project under a Canadian supervisor in May and June so that they will spend a minimum of 15 weeks on research over the course of the summer. The May–June period is normally spent in Canada during which time students are supported by the supervisor and an NSERC USRA position or a summer studentship at TRIUMF (see below). IPP will assist students to find a suitable project/supervisor. Students are encouraged to learn about some of the possible projects by visiting the IPP Projects pages for projects collecting data and projects currently under construction.

**Cole Coughlin** (Supervisor: Dr. Andrew Frey, Theoretical Physics)  
**Michael Grehan** (Supervisor: Dr. Andrew Frey, Theoretical Physics)

### **Mitacs Globalink Research Award**

Mitacs Globalink Research Internship is a competitive initiative for international undergraduates from the following countries and regions: Australia, Brazil, China, Colombia, France, Germany, Hong Kong, India, Mexico, Pakistan, Taiwan, Tunisia, Ukraine, United Kingdom and the United States. From May to October of each year, top-ranked applicants participate in a 12-week research internship under the supervision of Canadian university faculty members in a variety of academic disciplines, from science, engineering, and mathematics to the humanities and social sciences.

Mitacs Globalink Research Internships are currently available at over 70 universities across Canada.

**Steven Howard** (Supervisor: Dr. Christopher Bidinosti)

**Yute Li** (Supervisor: Dr. Christopher Bidinosti)

**Maxina Sheft** (Supervisor: Dr. Melanie Martin, Medical Physics)

**Maria Fernanda Sandoval Aranda** (Supervisor: Dr. Melanie Martin, Medical Physics)

**Jiayue Yang** (Supervisor: Dr. Andrew Frey, Theoretical Physics)

### **Mitacs Accelerate**

Mitacs Accelerate is Canada's premiere research internship program. It connects companies with over 50 research-based universities through undergraduate and graduate students and postdoctoral fellows, who apply their specialized expertise to business challenges. Interns transfer their skills from theory to real-world application, while the companies gain a competitive advantage by accessing high-quality research expertise.

Open to all disciplines and industry sectors, projects can span a wide range of areas, including manufacturing, technical innovation, business processes, IT, social sciences, design, and more.

**Yujie Ren** (Supervisor: Dr. Melanie Martin, Medical Physics)

### **Canadian Association of Physicists (CAP) 2021 Best Student Presentation Awards**

Each year, at the CAP Congress, students (both graduate and undergraduate) are offered the opportunity to present posters or to give oral presentations that embody the results of research that they have been recently carrying out. The CAP provides awards for the best student papers and posters delivered at Congress, if a student specifically indicates that they want to participate in the competition.

**Kaihim Wong** (Supervisor: Dr. Melanie Martin, Medical Physics)

- *2<sup>nd</sup> Place, CAP Best Overall Student Poster Presentation*
- *1<sup>st</sup> Place Physics in Medicine and Biology Poster Presentation*

### **Canadian Institute of Nuclear Physics Undergraduate Research Scholarship (CINP URS)**

The Canadian Institute for Nuclear Physics 2022 Undergraduate Research Scholarships program enables gifted undergraduates to work with a supervisor on nuclear physics research this summer. A total of six awards are given each year.

The program is open to any Physics or Engineering Physics major enrolled in a Bachelor of Science or Applied Science program at a Canadian university. Students must not hold any higher degrees in the natural sciences or engineering. The research supervisor must be an NSERC-grant-eligible member of the CINP, but does not have to be employed by the institution where the research will be performed.

The duration of the scholarship is 16 weeks on a full-time basis. The scholarship consists of a \$5000 stipend, which must be supplemented with other funds by at least \$4000 (to a total of not less than \$9000).

In addition, if the supervisor intends to send the student to a laboratory or work with a second collaborator for an extended period in the summer, the CINP is willing to contribute up to an additional \$1300 to help cover transportation and lodging expenses. The supplement will be paid only after the completion of travel, upon submission of expense documentation. Travel from the student's residence to the supervisor's place of employment is not eligible. Thus, the value of the scholarship is between \$5000 and \$6300, depending on the need for a travel supplement.

**Kiera Pond Augusto** (Supervisor: Dr. Jeff Martin, Nuclear Physics)

## **Events**

### **Randy Kobes Undergraduate Research Symposium**

The annual Randy Kobes Poster Symposium displays some of the excellent quality research by undergraduate students at The University of Winnipeg. It was named in memory of Professor Randy Kobes, Associate Dean of Science and Professor of Physics who passed away on September 18, 2010. He was a co-founder of the annual poster contest and committed to undergraduate research.

This event is a valuable opportunity for students to obtain experience in presentations of scientific research especially if a student plans to continue with graduate work. It also gives students an opportunity to see what exciting research is taking place amongst their peers and celebrate these accomplishments together.

Students present their poster in front of a series of judges. The poster and presentation are aimed at the level of an (informed) general public. All students receive feedback from the judges, providing insight on strengths and weaknesses making the event a learning experience. Those who opt to compete are eligible to win a cash prize in one of the 4 selected categories:

- Social Sciences
- Biological & Environmental Sciences
- Experimental Physical Sciences
- Mathematical & Theoretical Physical Sciences

### **Winners:**

**Maxina Sheft – 1<sup>st</sup> place**, Experimental Physical Sciences

**Brayden Yarish – 2<sup>nd</sup> place**, Experimental Physical Sciences

**Flora Easter – 3<sup>rd</sup> Place**, Experimental Physical Sciences

**Michael Grehan – 3<sup>rd</sup> Place**, Math & Theoretical Physical Sciences

### **2021 Participants:**

**Maria Fernanda Sandoval Aranda**, Experimental Physical Sciences

**Kiera Pond Augusto**, Experimental Physical Sciences

**Tapendra BC**, Experimental Physical Sciences

**Madison Chisholm**, Biological & Environmental Sciences

**Ashley King**, Biological & Environmental Sciences

**Bryson Lamoureux**, Experimental Physical Sciences

**August Mendelsohn**, Experimental Physical Sciences

**Kishankumar Patel**, Experimental Physical Sciences

**Jiayue Yang**, Math & Theoretical Physical Sciences

### **Medical Physics Summer Student Symposium**

This annual event showcases research by students from across Winnipeg and gives them, along with faculty, the chance to learn about the research their colleagues are conducting.

**Maxina Sheft – 1<sup>st</sup> place**

**Ashley King – 2<sup>nd</sup> place (tie)**

**Madison Chisholm**

**Maria Fernanda Sandoval Aranda**

**Sophia Krak**

### **WITP Symposium**

The WITP holds an annual symposium each August as a venue for student members to share their research with each other and the other members of the WITP. Graduate and undergraduate students working with WITP members between May and August are invited to give a short oral presentation of their work in a somewhat formal but friendly setting. The Symposium is typically a one-day event with coffee and lunch with external speakers and runs as a "mini-school" workshop over two days. It provides the students and the WITP an opportunity to showcase the world-class research in theoretical physics that is being done in Manitoba and serves to promote communication and collaboration among WITP members.

**Cole Coughlin** (Supervisor: Dr. Andrew Frey, Theoretical Physics)

**Shawn Skelton** (Supervisor: Dr. Andrew Frey, Theoretical Physics)

**Jiayue Yang** (Supervisor: Dr. Andrew Frey, Theoretical Physics)

**Thank you for coming!**