

ANNUAL NOVEMBER 2025

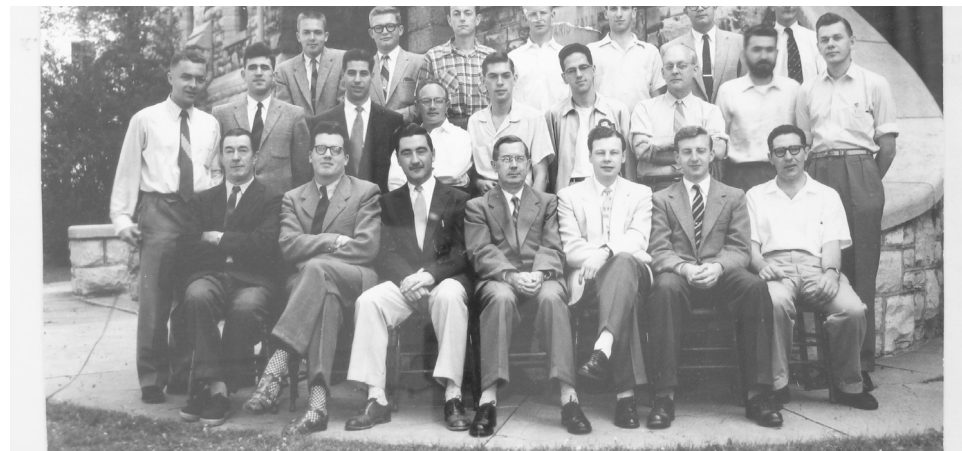
PEPA

Periodicals.....





Stirling Hall: The big "O" beside the the big "X".



Physics department in Ontario Hall.

Celebrating 60 Years of Stirling Hall

Author: Bernie Ziomkiewicz

Since its establishment in 1841, Queen's has been teaching physics, then under the heading of Natural Philosophy. In 1891, Carruthers Hall was constructed as a general science building, which included the Faculty of Practical Science, founded in 1894 and now the Faculty of Applied Science. In 1902, Ontario Hall was constructed to become home to the Department of Physics.

By the mid-1950's, Ontario Hall's need for renovations, and the growing requirements of space for teaching and research, partially inspired by Cold War competition for science development, led to the construction of a new physics building. In the winter of 1964, the Department of Physics was moved into Stirling Hall, named after then Chancellor Dr. John Bertram Stirling, with the inauguration held on May 11, 1965.

Although originally meant to be situated on the green space south of Summerhill, well publicised protests from students, faculty and alumni resulted in the purchase of a new site between Bader Lane (then Queen's Crescent) and Stuart Street for the new building.

Designed by architects Marshall, Merrett, and Stahl of Montreal in collaboration with the Physics Faculty, Stirling Hall was designed to accommodate 24 professors and 40 - 50 graduate students. Its lecture theatres, among the largest on campus at the time, were equipped with the most modern audio-visual aids of the day, including distribution for closed-circuit television. A photo display of the construction in progress can be seen in the 3rd floor foyer.

At approximately three times the area of Ontario Hall, Stirling Hall has, with numerous modifications over the last 50 years, allowed for expansion of research into nuclear, solid state, and theoretical physics, as well as astrophysics and astroparticle physics. Approximately one-quarter of the building's space is designated for undergraduate laboratories.

Much consideration was given to aesthetic considerations in the design, which can be seen in murals depicting waves and illustrations of experimental apparatus, including Pascal's principle, Boyle's Law, critical pressure, and others, as well as a collection of Greek letters commonly used in physics. Near the Foucault Pendulum (a gift of the class of 1962) is a solar spectrum illustrating several Fraunhofer lines. Artefacts of physics teaching and research are situated around the 3rd floor to commemorate the department's history.

Cover Figure: Image of Stirling Hall. Photo credit: Nathan Deg.



John Bertram Stirling cuts the ribbon to officially open Stirling Hall

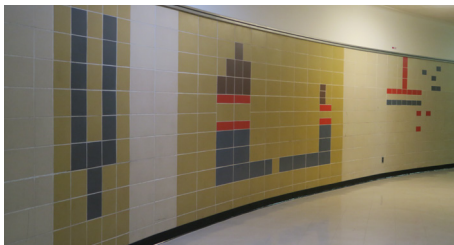
Some ancillary facts:

Stirling Hall was constructed with the provision of eventually adding a 6th floor, however with changes in building codes, this would not now be possible.

The present steel ball of the Foucault pendulum is the third. The first two having been stolen.

While the outdoor plinth indicates the building to be Stirling Hall, it took some effort to allow 'Physics' to be added, as it was not the policy of Queen's to indicate the 'ownership' of any building.

For years, tourist guides of the campus have explained that Stirling Hall is circular to accommodate the synchrotron particle accelerator in the basement! •



Illustrations of experimental apparatus along the 3rd floor hallway. Photo credit: Bernie Ziolkiewicz.

Message from the Head

Larry Widrow, Department Head, 2024-

I am pleased to offer reflections on the 2024-2025 academic year from the Head's perspective. Despite the challenges facing the University we are optimistic about the future of our department as we enter the 2025-26 academic year and our 61st year in Stirling Hall. In August, we welcomed Michela Lai to the faculty. Michela is supported through the Mitchell Family Fund and joins the particle astrophysics group. She completed her PhD at the University of Cagliari (Italy) and was a postdoctoral fellow at the University of California, Riverside where she worked on the DEAP-3600 and DarkSide-20k dark matter detection experiments. This past year saw the retirements of four faculty: Somi Narayanan, Judith Irwin, Kayll Lake, and Bob Gooding. With over 140 combined years of service, these four individuals have greatly enriched our department and the university. We wish them well as they enter the next phase of their lives.



Students, postdoctoral fellows and faculty have been very active in research, publishing hundreds of papers in peer-reviewed journals, presenting results at countless international workshops, and attracting research grants from government and industrial sources. One particularly noteworthy highlight was the awarding of an Alfred P. Sloan Foundation fellowship to Bhavin Shastri. Bhavin works in the field of neuromorphic photonics, a field inspired by the brain's ability to process information in parallel. His work explores optical physics, nanophotonics, and neural networks to develop faster, more energy-efficient computing systems. Faculty and graduate students have also won numerous awards for teaching and student support as described elsewhere in the periodical. As an example, two faculty members, Tony Noble and Tom Weisgarber, received the Smith Engineering first year teaching awards for their work in APSC 111 and 112. •

Introduction to Michela Lai

Michela Lai



I was born in Cagliari, in southern Sardinia—a sunny, sandy, and windy island in Italy. The city is not only a major tourist destination but also home to the island's only Physics Department. Alongside my brother, I became a first-generation university student, earning my Bachelor's degree from the University of Cagliari in 2014, followed by a Master's thesis in 2017.

Though I initially leaned toward theoretical physics, I entered experimental astroparticle physics during my Ph.D., jointly conducted between Cagliari and Paris Diderot's Astroparticule et Cosmologie Laboratoire. Shifting fields was daunting but transformative, exposing me to diverse research methods—from theory and data analysis to simulations and hardware in large-scale experiments. These included the Aria cryogenic distillation column in Sardinia and the upcoming DarkSide-20k experiment

for dark matter detection in liquid argon, to be installed at LNGS, Italy.

My passion for data analysis deepened when I joined DEAP-3600 during its second fill, up to 2020. I fondly recall late-night calls about this 3.3-tonne liquid argon experiment at SNOLAB in Canada—a country I hadn't considered before—while preparing dinner. I defended my thesis in early 2021, online, amid the pandemic.

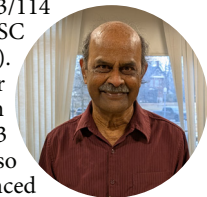
Soon after, I joined a medical physics project in Cagliari, developing a PET scanner using xenon-doped liquid argon—an application of my Ph.D. research. I also established the island's first cryogenics lab for liquid argon, facing all the challenges of building from scratch.

In September 2023, I moved to Riverside, California, for a second postdoc in astroparticle physics, leading analysis efforts in dark matter and neutrino physics, and co-managing a new lab with a team of enthusiastic students. Since August 1, 2025, I've joined the astroparticle group at Queen's as Assistant Professor/Tenure Track, continuing research in dark matter and neutrino physics while developing new targets for future ultra-sensitive experiments. •

2024/2025 Department Retirements

Somi Narayanan

Somi Narayanan was a professor in our department from 1996 until his retirement at the end of 2024. He was an instructor to first year engineers (PHYS 113/114 back in the day; APSC 111/112 more recently). He received the First Year Teaching Award from Smith Engineering on 3 separate occasions. He also taught more advanced courses such as mechanics for second year physics majors, thermodynamics and solid state physics for third year physics and engineering physics majors, and statistical





Bob Gooding (second from the left) with John Harrison (left), Hamish Leslie (second from the right), and Don Taylor (right)

mechanics for fourth year physics and engineering physics majors. Somi was valued for his passion for physics pedagogy and dedication to our students.

Bob Gooding

Bob Gooding was a professor in the Department from 1989 until his retirement in 2025. His research interests in theoretical, computational, and mathematical physics have ranged from the core areas of condensed matter physics, such as structural phase transitions, high T_c superconductivity, and metal-insulator transitions, to molecular biophysics, including topics such as telomere dynamics. During the last 10+ years he collaborated with researchers in the Queen's Cancer Research Institute providing bioinformatic and statistical analysis of experimental studies of ovarian, prostate, bladder and kidney cancers. Over his career he has published over 90 peer-reviewed research papers and has supervised or co-supervised 21 graduate students and 7 postdoctoral fellows. Dr. Gooding is well-known among the students for his passion for teaching in some of the more challenging mathematical and theoretical courses.

Judith Irwin

Judith Irwin was a professor in the department from 1991 until her retirement in 2025. Her research interests focused primarily on spiral galaxies that are edge-on to the line of sight, where one has a clear view of the stellar and gaseous halos. Through observations of these systems, Dr. Irwin and her collaborators were able to study how material from a galaxy's disk is transported into its halo. Dr. Irwin initiated and led an international project called CHANG-ES to understand the importance of

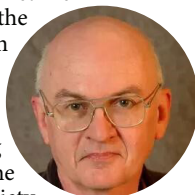


Judith Irwin (middle), with (from left to right) Kristine Spekkens, Larry Widrow, Dave Hanes, Martin Duncan, Richard Henrikson, and Laura Fissel

magnetic fields in this process. The result is the discovery of large-scale patterns in galaxies that require dynamo-action for their generation. Over her career, Dr. Irwin published over 90 papers in peer-reviewed front-line journals and supervised 19 graduate students and 3 post-doctoral fellows. Dr. Irwin also published two textbooks: *Decoding the Cosmos*, which grew out of her PHYS 315 course, and *Decoding the Stars*, which grew out of her PHYS 435 course. (<https://projects.canfar.net/changes/>)

Kayll Lake

Kayll Lake was a professor in the Department from 1979 until his retirement in 2025. His research interests have focused on fundamental problems in classical general relativity, also known as Einstein's theory of gravity. He and his students were early developers of symbolic computation applied to relativity. The result was GRTensor, a computer algebra package used by researchers in relativity around the world. Dr. Lake received an NSERC University Research Fellowship (1980-1990), lifetime membership in the International Society on General Relativity and Gravitation, and a lifetime achievement award as an "Outstanding Referee" from the American Physical Society. Professor Lake served as vice president and president of the Queen's University Faculty Association. He has published over 120 papers in peer-reviewed journals and has supervised 27 graduate students. •



Research History at Stirling Hall

Positron Annihilation at Queen's University

Author: Malcolm Stott

Queen's Physics Department in the 60's and early 70's was the scene of major developments in the behavior of positrons in metals which led to the adoption of positron annihilation methods as essential tools in materials science labs around the world for the study of defects in metals.

A positron in condensed matter rapidly thermalizes and annihilates with an electron emitting two gamma rays which take away the momentum of the annihilating particles. The lifetime of the positron depends on the electron density in its vicinity, and the angular correlation of the product gamma rays provides information on the momentum distribution of the electrons. Both the electron density and its momentum distribution are of interest in the study of condensed matter.

Alec Stewart and Stephan Berko pioneered the use of positron annihilation in the study of the electronic properties of condensed matter. Stewart focused on the angular correlation of the annihilation photons and reported many results on the momentum distribution of electrons in metals.

Stewart, after a distinguished career of research at Chalk River and then at the University of North Carolina was appointed Head of the Physics Department at Queen's. Barry McKee, a student of another positron annihilator, Innes MacKenzie, joined Queen's at this time to work with Stewart. McKee was a talented experimenter. Malcolm Stott joined the Queens group in 1970. Stott together with Birger Bergersen presented a simple trapping model in 1969 which accounted for the temperature effect in some detail and showed that positron annihilation might be a useful method for determining the formation energy of vacancies. Chris Hodges, also at Queens, published in 1970 a study of the binding of a thermalized positron to a vacancy in many metals.

So, at Queens were assembled: Alec Stewart, a positron annihilation pioneer; Barry McKee, a positron experimenter who with others first saw the vacancy effect; condensed matter theorists Malcolm Stott, an author of the trapping model; and Chris Hodges, who confirmed the energetics of trapping at vacancies.

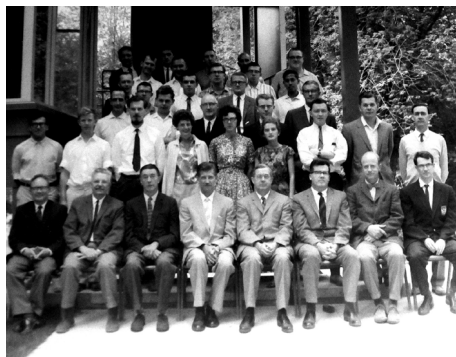
This group, in a few years, through experiment and theory, laid the foundations of the behaviour of positrons in metals. There followed the adoption of positron annihilation as an essential tool in material science labs around the world for the investigation of defects in metals. The behavior of positrons in the presence of vacancies, voids, dislocations and surfaces, both internal and external was established by mid-decade at which point the individuals went on to other interests and other places. •



Alec Stewart's original positron angular correlation machine now an experiment in our 4th floor teaching lab. Photo credit: Bernie Ziolkiewicz.

Photos of the Queen's Physics Department Through the Years

When Stirling Hall opened in 1965, the department took a commemorative photograph at the western stairwell entrance to the building. Since that day, the department has gathered at the same spot for group photographs in 1990 (25th anniversary), 2015 (50th anniversary) and also in 2025 for this year's 60th anniversary. Take a walk down memory lane with these traditional photographs featuring the faculty/staff of the Physics Department, and starting this year, our graduate students! •



Faculty and Staff at Stirling Hall - circa 1965.



Faculty and Staff at Stirling Hall - circa 1990.

► Stirling Hall 2015 (50th anniversary)

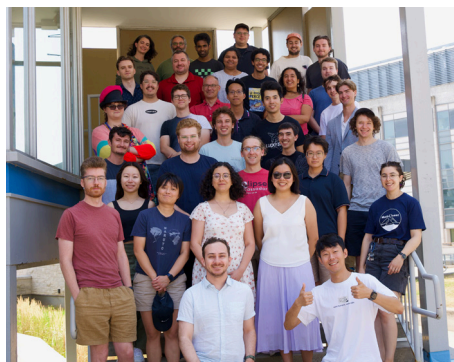


Faculty and Staff at Stirling Hall - circa 2015.

► Stirling Hall 2025 (60th anniversary)



Faculty and Staff at Stirling Hall - circa 2025.
Photo credit: Nathan Deg.



Graduate Students with Faculty, Staff, and Postdocs - circa 2025. Photo credit: Nathan Deg.



Graduate Student with Faculty and Staff - circa 2025. Photo credit: Nathan Deg.



Department Monkey Golf competition for 2025. Photo credit: Sarah Sadavoy.

Women+ In Physics Conference

Author: Alexandra Pedersen

In July 2025, the McDonald Institute, Queen's University, the Royal Military College, and SNOLAB hosted the 11th Women+ in Physics Canada (WIPC+) conference. Bringing together nearly 100 physicists nationwide, the event highlighted cutting-edge research and emphasized that physics is for everyone.

WIPC+ celebrates women and gender minorities in physics, amplifying their scientific contributions to the field. The keynote was delivered by Dr. Marcela Carena, the first woman Director of the Perimeter Institute, who spoke on particle physics, cosmology, and her advocacy for women in science. Six invited speakers from physics and

social sciences shared insights on diverse topics including particle physics, neutrino research, physics education, gender equity, and social identity in STEM. The conference included networking, poster sessions, contributed talks, and activities that fostered mentorship and collaboration in a welcoming environment. Attendees valued WIPC+'s intimate scale, which promoted visibility and connection often missing at larger events.

To reinforce the conference's inclusive mission, Dr. Kristine Spekkens (Queen's) contributed a public talk supported by American Sign Language (ASL) interpreters. Dr. Spekkens' highlighted Canada's role in global physics projects, and the importance of physics to the UN Sustainable Development Goals (SDGs) of Quality Education, Reduced Inequalities, and Gender Equality. The evening event also highlighted McDonald Institute poet in residence, Meg Freer, who opened the event with two physics-inspired poems.

Beyond academic talks, WIPC+ broke new ground at Queen's by piloting gender-inclusive washroom accommodations, as well as offering childcare and accessibility supports to attendees. These inclusive conference measures demonstrated institutional commitment to removing participation barriers that often occur at conferences.

Maintained by the Canadian Association of Physicists (CAP) since 2009, the WIPC+ conference rotates among Canadian universities. The 2025 conference will be remembered as a first for Queen's not only for hosting scientific excellence, but for showing how inclusion can unlock the full potential of physics. •



Conference photo for the WIPC+ 2025 meeting at Queen's University.

Message from the Department Student Council

Author: Sharan Danewala

This year in the Physics, Engineering Physics, and Astronomy department was one to remember! From trivia nights to games of Assassin and plenty of chances to connect with professors and peers, the Department Student Council worked to make life in the department feel more connected and fun outside of class. We kicked off the 2024–2025 year with a barbecue in Victoria Park that brought together students, faculty, and staff. Clark Trivia Nights ran in both semesters and were a favourite, with students facing off in some lighthearted, and sometimes very competitive, rounds. Pool with Profs was another huge hit each semester, giving students a chance to challenge professors to a game and chat outside of lectures.

But one of the most talked-about events this year was Assassin. With year-level pools and everyone trying to outwit their targets, the excitement around this fundraiser was unmatched and it helped us host an incredible End-of-Year Banquet. The banquet was the perfect way to close out the year: great food, laughter, and a chance to celebrate all that we've achieved this year, with awards celebrating both the students and the professors.



To our graduating students, we're so proud of you and can't wait to see where you go next. And to everyone else thank you for making this year unforgettable. We can't wait to see what's in store for next year! •

An Update from the Graduate Physics Society (GPS)

Author: Yilda Boukhtouchen & Jon Clarke



Queen's astronomy students with Prof Kristine Spekkens and Dr. Nathan Deg at the Canadian Astronomical Society meeting in Halifax.

Student Supports

Early September marked the inaugural one-day workshop for incoming grad students to help prepare them for becoming teaching assistants. A highlight was when a group of experienced TA volunteers roleplayed students seeking assistance with some quirks thrown in, such as panicking about an assignment due at midnight or pushing the TA to only provide the answer.

MSc student Toni Neill and PhD student Jon Clarke founded a mental health peer support group in the department, which met once per week to share the highs and lows of grad student life, and knowledge about the support mechanisms available at Queen's and more broadly within Kingston.



Graduate students creating a physics-themed hopscotch game

camp activities for the Queen's MINI-Q Arts and Science summer camp. Each week, young campers of ages 5-12 visited Stirling Hall and learned about constellations and cloud chambers thanks to an enthusiastic team of graduate student volunteers!

Q-PUMP Research Showcase

The Queen's Physics Upper-Year Undergraduate Mentorship Program (Q-PUMP) ran for its second year in 2024-2025. This program, run by graduate students, pairs undergraduate students interested in pursuing graduate school with a graduate student mentor.

For the first time, Q-PUMP organized a Physics Research Showcase. Graduate students from across all disciplines in the department presented a one-minute flash talk to undergraduate attendees, then participated in a poster session to facilitate discussion about their research with undergraduate students. In parallel to the research session, the Queen's Optics Chapter ran a series of laboratory tours, spanning from astronomy to optics.

IDEAS Initiative X MINIQ Camp

The Innovation, Diversity, Exploration and Advancement in STEM (IDEAS) Initiative, in partnership with the McDonald Institute, offered a series of physics-themed summer

GPS Social Activities

The GPS facilitated an array of social activities this year. The classic weekly board game nights and yearly Halloween costume contest were punctuated with seasonal and occasional activities such as the Easter Egg Hunt, Laser Tag, and a physics-themed Hopscotch-a-thon art session.

This year also marked the first year that the GPS collaborated with its Chemistry equivalent, the QGCS, to organize a shared summer barbecue — a lovely way to relax in the summer heat. •

New Opportunities with the Steer Family Fund

Author: Larry Widrow

We are excited to update our Engineering Physics undergraduate labs for the next generation of students thanks to the generous support of the Steer Family Engineering

Physics Fund, provided by David Steer, Sc'72. Over the next two years, this fund will help transform how we teach labs, modernize our equipment and laboratories, and provide our students with the tools they need to engage in innovative research and hands-on learning experiences.

Specifically, we aim to bring more opportunities for students to explore designing, building, and testing devices throughout their 2nd, 3rd, and 4th year courses, with a special experimental setup utilizing silicon photosensors (SiPMs) for the 4th year engineering physics laboratory class, ENPH 453: Advanced Physics Laboratory. These changes to the Engineering Physics courses support experiential learning practices and provide students with opportunities to explore different design outcomes and work with state-of-the-art devices and components. •

Connect with us

The Department of Physics, Engineering Physics, and Astronomy (PEPA) at Queen's would love to stay in touch. You are always welcome to visit us at 64 Bader Lane, Kingston, Ontario, or come see us work in the community. Below is an example of a large outreach event, Science Rendezvous.

Science Rendezvous Kingston returned to Slush Puppie Place (formerly K-Rock Centre, Rogers K-Rock Centre, and Leon's Centre) on May 10th, 2025. The event was a huge success, with more than 4700 visitors interacting with 60 stations and 440 volunteers. PEPA, along



Physics stage show featuring Nick Swidinsky elevating aluminum pie plates with a van der Graaf generator. Photo credit: Garrett Elliot.

with our partners at SNOLAB, the Institute of Particle Physics, Queen's University Optica Student Chapter, and the McDonald Institute, was once again one of the major contributors to the event, with almost 50 physics students, staff, and faculty contributing their time and their talents to present an engaging set of activities designed to highlight the fascination of science.

This year, our Department was responsible for five different stations, including for the first time a stage show presentation and a station in the Sensory Science zone. Many activities were presented with highlights including:

- The stage show featuring a Van de Graaff generator, liquid nitrogen demonstrations, and a Lenz's Law vegetable chopper
- The Sensory Science zone with a gravity table and making uv-detecting bead bracelets
- Opportunities to observe the Sun with a solar telescope and to touch a meteorite at the outdoors station.
- The chance to learn how a spectrometer works and to play "Laser chess" at the Optica station.
- The opportunity to ride a hoverboard, feel the force of air pressure with Magdeberg spheres, and experiment with vacuum in our vacuum bell jar.

A full list of presented activities, and more pictures are available through PEPA news. •



Physics stage show featuring Minya Bai applying liquid nitrogen to a helium balloon. Photo credit: Garrett Elliot.

Congratulations

Cave Travel Scholarships Fall 2024

- Peter Simpson – Astrophysics (travel to CUPC in Vancouver)
- Meghan Naar – Physics (travel to CUPC in Vancouver)
- Angela Sabzevari-Gonzalez – Astrophysics (travel to CUPC in Vancouver)
- David Drobner – Mathematical Physics (travel to CUPC in Vancouver)
- Simon Bronkhorst-Ilavsky – Eng Phys (travel to the International Society for Magnetic Resonance in Medicine Conference at the University of Calgary)
- Delaney Beacock – Physics (travel to the World Robotics Olympiad in Turkey)
- Matthew Marzano – Astrophysics (travel to CUPC in Vancouver)
- Cameron Bass – Physics (travel to CUPC in Vancouver)
- Isabelle Kim – Eng Phys (travel to CUPC in Vancouver)
- Alex Katrusiak – Eng Phys (travel to CUPC in Vancouver)

Department-Funded Travel

- Jaime Glerum – Eng Phys (spent summer 2025 in Germany doing research at the German Aerospace Center's (DLR) Institute of Quantum Technology)
- Aarchi Shah – Physics (went to CCUWiP at the University of Calgary)
- Madelyn Bratuz – Eng Phys (went to CCUWiP at the University of Calgary)
- Summer 2025 NSERC Undergraduate Student Research Awards
- Ryan Zeltner – Eng Phys
- Johannes Martin – Eng Phys
- Austen Lloyd – Eng Phys
- Ethan Cairns – Eng Phys
- Jack Walker – Eng Phys
- Carolyn McKenna – Astrophysics
- Qwin Goodwin – Astrophysics
- Sarena Sandhu – Mathematical

Physics

- Maxwell Dollar – Astrophysics
- Stephanie St-Jean – Physics
- Emma Godbout – Astrophysics

Summer 2025 Undergraduate Student Summer Research Fellowships

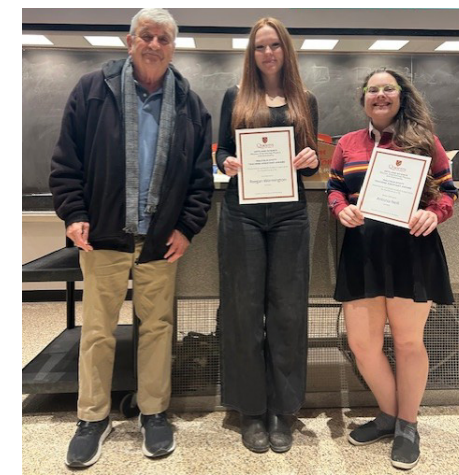
- Julia Brachman – Physics SSP
- Kevin Gao – Eng Phys

Women in Engineering Summer Research Award 2025

- Robin Krasinkiewicz – Eng Phys

Additional Graduate Student and Postdoctoral Fellow Congratulations

- Tristan Austin – NSERC CGS-M
- Irina Babayan – NSERC CGS-M, Vector
- Zoe Brisson-Tsavoussis – McLaughlin
- Cedric Dufresne – Queen Elizabeth II (QEII) Award
- Matthew Kozma – NSERC CGS-M
- Remi Richard – McLaughlin
- Ezri Wyman – McLaughlin
- Zahra Basti – McLaughlin
- Akanksha Bij – OGS
- Yilda Boukhtouchen – OGS
- Andrew Buchanan – NSERC CGS-D
- Tim Hapitas – OGS
- Raina Irons – Teyonkwayenawá:kon scholarship
- Reagan Wormington – Malcolm Stott TA Award
- Antonia Neill – Malcolm Stott TA Award
- Melanie Phillips – awarded a TRIUMF 2024 Azuma Summer Fellowship



Winners of the 2024 Malcolm Stott TA awards: Left to right: Malcolm Stott, Reagan Wormington, Antonia (Toni) Neill

Faculty and Staff Congratulations

In addition to the acknowledgement by our Department Heads' report, we have additional congratulations to share:

- ▶ Laura Fissel – Granted tenure and promotion to Associate Professor
- ▶ Sarah Sadavoy – Granted tenure and promotion to Associate Professor
- ▶ Bhavin Shastri – Granted tenure and promotion to Associate Professor
- ▶ Bhavin Shastri – Alfred P. Sloan Research Fellowship in Physics
- ▶ Kristine Spekkens, Laura Fissel, Sarah Sadavoy – co-recipients on an NSERC Collaborative Research and Training Experience (CREATE) program called RADEATE (Radio Astronomy-Driven Education And Training Excellence)
- ▶ Joe Bramante – NSERC Discovery Grant (Individual) program
- ▶ Tucker Carrington – NSERC Discovery Grant (Individual) program
- ▶ Philippe Di Stefano – NSERC Discovery Grant (Individual) program
- ▶ Jun Gao – NSERC Discovery Grant (Individual) program
- ▶ Stephen Sekula - NSERC Subatomic Physics Discovery Grant
- ▶ Bhavin Shastri – NSERC Discovery Grant (Individual) program, Discovery Grant Supplements
- ▶ James Stotz – NSERC Discovery Grant (Individual) program
- ▶ Larry Widrow – NSERC Discovery Grant (Individual) program
- ▶ Bhavin Shastri - NSERC Research Tools and Instruments (RTI) Grant
- ▶ Mark Chen, Alex Wright, Ryan Martin, Art McDonald – NSERC Subatomic Physics Project Discovery Grant (with TRIUMF, U of Alberta, Laurentian / SNOLAB)
- ▶ Jodi Cooley – NSERC Subatomic Physics Discovery Grant for SuperCDMS (with UBC, U Toronto, U Montreal, Laurentian)
- ▶ Ken Clark, Alex Wright - NSERC Subatomic Physics Project Discovery Grant
- ▶ Nir Rotenberg – NSERC Alliance International Collaboration Grant
- ▶ Sarah Sadavoy – Early Career Award (ERA) from the Ontario Government
- ▶ Jodie Cooley (Queen's / SNOLAB) – named

to the Council of Canadian Academics experts panel to help enhance Canada's research infrastructure

- ▶ Bhavin Shastri - Member of the College, The Royal Society of Canada
- ▶ Tony Nobel – “First Year Teaching Award” from Smith Engineering for teaching first year Applied Sciences courses for undergraduate students (Fall term)
- ▶ Tom Weisgarber – “First Year Teaching Award” from Smith Engineering for teaching first year Applied Sciences courses for undergraduate students (Winter term)
- ▶ Sarah Sadavoy – The Excellence in Instruction in Pure Physics (Arts and Science) granted by the Department Student Council.
- ▶ Marc Dignam - The Excellence in Instruction in Engineering Physics granted by the Department Student Council.
- ▶ Aaron Vincent – Geoff Lockwood Award for Excellence in Teaching Physics granted by both Pure Physics (Arts and Science) and Engineering Physics students

Please excuse any omissions from the summary of the 2024-2025 awards and congratulations. •

Stay in Touch

Be sure to please check our website <https://www.queensu.ca/physics/> to stay connected with recent news, research highlights, upcoming colloquia, lectures, and events.

You can also donate to the Physics department here:

