This month we highlight QUBS – the Queen’s University Biological Research Station

Explore opportunities through Queen’s University Biological Station
The Queen’s University Biological Station, also known as QUBS, is one of the leading and largest scientific field stations in Canada. QUBS property spans over 3,400 hectares including a variety of habitats, ranging from boreal forests to lakes and open fields in the Rideau Lakes and Frontenac Arch areas. Because of its reach biodiversity, the Frontenac Arch was designated in 2002 by the United Nation Educational, Scientific and Cultural Organization (UNESCO) as a Biosphere Reserve. Standing in the heart of the Frontenac Arch, the Biological Station boasts a reach diversity of species. To date more than 220 birds, 50 mammals, 16 reptiles, 17 amphibians and 40 fishes have been identified on QUBS property. Among the Biological Station many species, some have been recognised for being at risk globally, including, the Cerulean Warbler (*Setophaga cerulean*), the Blanding’s Turtle (*Emydoidea blandingii*), and the American Eel (*Anguilla rostrate*), making QUBS a priority area for species conservation.

Research
QUBS has been at the forefront of research for almost 70 years. A part of its success is based on the fact that the Biological Station has been used by a variety of researchers and students from institutions across Canada and abroad. This places QUBS in the unique position of being a hub for international collaborations, which over the years have produced hundreds of publications in high-ranking scientific journals and countless presentations at important international meetings. Want to find research projects and learn more about QUBS publications? Visit our new research website [https://research.qubs.ca/](https://research.qubs.ca/)

Teaching and Outreach
The Biological Station boasts several facilities, including the Opinicon Campus with the Fowler Herbarium and the Elbow Lake Environmental Education Centre (ELEEC), which are routinely used to teach and communicate science to a variety of audiences. The Opinicon campus continues to host a diverse range of scientific meetings and is used by a number of different universities, including Queen’s to teach field-based courses, covering a range of topics, including ecology, evolution, conservation, geography and environmental sciences. ELEEC is QUBS main education and outreach site, providing a unique venue to teach natural history to schools and hosts club meetings, small conferences and group retreats.

Upcoming Opportunities
Over the years QUBS has offered a number of opportunities for students to get involved. At present, we are busy with the digitization of our Fowler Herbarium botanical collection. The digitization project started in the summer of 2018 with the help of volunteers from the community around QUBS and Queen’s University undergraduate students, who have helped databased, imaged and transcribe over 15,000 specimens. However, many more specimens wait to be digitized. As such, we are inviting interested students to join us for this exciting project. By participating in this project students have the opportunity to gain valuable skills in digitization, data management best-practices, plant taxonomy and learn about the importance of natural history collections. If you are interested in being a part of this exciting project, please send an e-mail to: a.lopez.villalobos@queensu.ca
Summer Research Award Opportunity

NSERC Undergraduate Summer Research Awards (USRA): Canada’s Natural Science and Engineering Research Council (NSERC) underwrites these prestigious awards to stimulate student interest in research and to help cultivate tomorrow’s scientists. USRAs involve independent research and are taken up in NSERC-funded laboratories. The awarding of USRAs is carried out internally through Queen’s Biology. The 2019-20 application forms and details will be announced later this term. General requirements follow.

The award is $4,500.00 plus a minimum supervisor top up of $3,340.00 plus required fringe benefits (vacation pay is included).

Terms:
• Students must work 16 consecutive weeks (35 hours per week).
• Student are not permitted to do thesis research while holding an award.
• Students are not permitted to take courses during working hours throughout the term of their award.

Eligibility:
• Must be a Canadian citizen or permanent resident of Canada.
• Must be registered in an honours degree program in BIOL at the time of application and must be in at least year 2 of study.
• Must have obtained at least a “B” (or B-) (65-79%) average in their previous years of study.
• If you are registered in health sciences (M.D., D.D.S., and B.Sc.N.) or have a higher degree in the natural sciences or engineering you are NOT eligible. Graduating BIOL students are eligible providing they have not started a program of graduate studies.

Upcoming Events

International Exchange Fair
Nov. 19th – Wallace Hall, JDUC
5:00pm to 7:00pm
A great opportunity for you to check out opportunities to study abroad! Drop by, chat with Queen’s students who have gone on exchange and meet some of our current international students who are here studying at Queen’s. Don’t miss the event!

BIOLOGY Graduate Studies Information Session
Nov. 12th – Bioscience Complex, Rm. 1102
6:00pm to 8:00pm
Faculty members and graduate students will give short talks (5-10 minutes) on graduate studies in our department and on their areas of research. This will be followed by an informal get together in which they will be available to answer your questions pertaining to Graduate Studies in Biology. Refreshments and munchies 7:30-8:00pm, Rm. 3110 Bioscience
Looking forward to seeing you there.

Wondering who to speak to regarding lab work?
For your convenience, here are the first contact email addresses for the listed core courses.
Program Associates for core courses
BIOL 102: Barb Vanderbeld (vanderb@queensu.ca) Rm: Biosci 2321B
BIOL 103: Laura Nagel (nagell@queensu.ca) Rm. Biosci 2322A
BIOL 200: Anna Rooke (a.rooke@queensu.ca) Rm. 2321A
BIOL 205 and 206: Fern Gauthier (gauthier@queensu.ca) Rm: Biosci 3321
BIOL 212: Barb Vanderbeld (vanderb@queensu.ca), Fern Gauthier (gauthier@queensu.ca), Anna Rooke (a.rooke@queensu.ca)
BIOL 300: Laura Nagel (nagell@queensu.ca) Rm: Biosci 2322A

Co-ordinator-Professors for core courses
BIOL 102: W. Snedden
BIOL 103: C. Moyes
BIOL 200: P. Grogan
BIOL 205: I. Ching-Sang
BIOL 206: J. Friedman
BIOL 212: C. Moyes
BIOL 300: P. Martin

REMINDEERS!
Biology Degree Plans
Review your degree plan requirements and make sure you are selecting courses you need. Degree plan requirements can be found at: http://www.queensu.ca/artsci.

Biological Foundations List - IMPORTANT!
It is very important to keep this GPA requirement in mind throughout your program, starting with first year. To be admitted to 400 and 500 level Biology courses, you will need a minimum GPA of 2.0 in any previously taken courses from Biological Foundations list.

The Biological Foundations List is BIOL 102, 103, 200, 212, (201, 202), 205, 206, 300, 330, 334, 339, and 341 (BIOL 302, 303).

Helpful Links
Academic Resources - Study Skills & Habits: sass.queensu.ca
Looking for a job? Quick Link
Looking for study and travel opportunities? Quick Link
Information on Applying for a Course Prerequisite Waiver
Arts and Science Academic Deadlines
Arts and Science Calendar
Frequently Asked Questions

BIOLOGY Undergraduate Office
Mon to Friday 8:30 to noon and 1:00 to 3:00pm
Rm. 3109d, BIOSC Complex
613-533-6344
Newsletter Archives

October 2019
September 2019
August 2019
July 2019
May 2019
April 2019
March 2019
January 2019