



Department of Biology Newsletter

November 15, 2018

UNIVERSITY OF VICTORIA

Biology Graduate Symposium

30th Annual Biology Graduate Symposium

This year the Biology Graduate students hosted the 30th Annual Biology Graduate Students Symposium. This annual event, organized by UVic Biology graduate students, showcases research from current MSc and PhD students. Dr. Barbara Hawkins, Biology Department Chair, kicked off the two-day event by remarking on the fantastic history of this event, reminding attendees that its birth corresponded with the invention of the internet (and the start of the Simpson's). She commended everyone for continuing to organize and support this event.

Over the course of the two days, symposium attendees had the opportunity to see 32 fifteen-minute presentations, 12 from MSc students and 20 from PhD students, on a diverse array of biological areas including: understanding tree responses to stress; coral and marine health; anthropogenic activities and invasive species; bivalve and shellfish health and ecology; molecular biology and implications on treating rare neurodegenerative diseases; evolutionary biology and species evolution; acoustic ecology and marine ecosystems; marine shellfish health; ecological modelling; and directional origin of vision; among others. All of the excellent presentations demonstrated the hard work of the UVic Biology Graduate Students.



Jennifer Long, David Stuss, Dr. Inigo Novales-Flamarique, Julie Angus and Dr. Graham Sinclair

Awards for best MSc presentations:

- First: Rhea Ashmead
- Second: Jennifer Magel
- Third: Caitlin Curtis

Awards for best PhD presentations:

- First: Gerry Gourlay
- Second: Laura Hanson
- Third: Kennedy Boateng

New to this year's symposium was the inclusion of a UVic Biology Graduate Alumni panel who shared their post-graduation career history and experience. The panel members in attendance were Graham Sinclair, PhD FCCMG; Julie Angus, MSc; Inigo Novales Flamarique, PhD; Jennifer Long, MSc; and David Stuss, MSc. Panel members addressed questions from the audience including topics on work-life balance, skills graduate students can take forward into their careers and job hunting advice. One common theme was the value of graduate school in building tenacity and resilience in the face of challenges. In the words of Julie Angus, graduate school teaches "perseverance to continue on working on things even when they don't work out". Another theme was how important it is to learn time management and to, as Graham Sinclair stated, "carve time out for yourself".

Overall the symposium was a great success. Many thanks to the sponsors and looking forward for next year!

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Environmental Biology
 Organismal Biology and Physiology
 Cell, Molecular and Developmental Biology

Biology Seminars, Everyone Welcome!

Biology

Dr. Bruno Lemaitre

Professor, École Polytechnique
Fédérale de Lausanne, Switzerland

“How host parasite coevolution forged
the *Drosophila* immune system”

Friday, November 16, 2018
at 3:30 pm MSB 150

Biology

Dr. Heloise Frouin-Mouy

Bio-acoustician and Project Scientist
JASCO Applied Sciences, Victoria, BC

“Calling in the cold: acoustic behaviour
of Arctic pinnipeds”

Friday, November 23, 2018
at 3:30 pm MSB 150

Biology

Dr. David Shiffman

“Recreational shark fishing in Florida:
Interdisciplinary analysis of an emerging
conservation issue”

Friday, November 30, 2018
at 3:30 pm in MSB 160

Calendar

Important Dates :

Thursday, November 15

Faculty of Graduate Studies deadline to apply to
graduate for Spring Convocation (Students
completing in the Fall term only)

Wednesday, December 5

Last day of classes in first term except Faculty of
Law and Faculty of Human and Social
Development

Thursday, December 6

Last day of classes in the first term of Faculty of Law

Friday, December 7

Senate meets

Saturday, December 8

First-term examinations begin, except Faculty
of Human and Social Development and
Faculty of Law

Saturday, December 15

Undergraduate deadline to apply to graduate
for Spring Convocation



Biology Announcements



Dr. Barbara Hawkins in UVic Women in Science

The Department of Biology Chair, Dr. Barbara Hawkins, was profiled in UVic Women in Science. You can read the article here: [UVic Women in Science](#)



Publications

Hind, K.R., Gabrielson, P.W., Jensen, C., and Martone, P.T. (2018)

[Evolutionary reversals in *Bossiella* \(Corallinales, Rhodophyta\): First report of a coralline genus with both geniculate and non-geniculate species.](#) *Journal of Phycology*. Published September 2018.



Lemay, M.A., Martone, P.T., **Hind, K.R.**, Lindstrom, S.C. and Parfrey, L.W. (2018) Alternate life history phases and cryptic species of a marine macroalgal genus have distinct microbial surface communities. *Molecular Ecology*. 27(17), 3555-3568.

Hind, K.R., Adal, A.M., Upson, T.M., and Mahmoud, S.S. (2018) An assessment of plant DNA barcodes for the identification of cultivated *Lavandula* (Lamiaceae) taxa. *Biocatalysis and Agricultural Biotechnology*. 16, 459-466.

Upcoming Biology Graduate Oral Examinations

PhD Oral Examination

Danielle Claar



Monday, November 26, 2018

2:00 pm

Clearihue building, room B007

Title: "Coral Symbioses Under Stress: Spatial and Temporal Dynamics of Coral-*Symbiodinium* Interactions"

Supervisor: Dr. Julia Baum

MSc Oral Examinations

Jennifer Magel



Friday, December 7, 2018

1:00 pm

Petch building, room 206

"Effects of heat stress and local human disturbance on the structure of coral reef ecosystems at multiple scales of biological organization"

Supervisor: Dr. Julia Baum

Caitlin Curtis



Monday, December 17, 2018

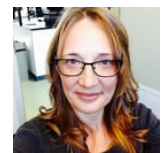
9:00 am

Engineering Computer Science building, room 128

"Genetics and ecology of an unusual sex ratio distorter in the booklouse *Liposcelis* sp."

Supervisor: Dr. Steve Perlman

Monique Raap



Date and time TBA

"Anthropogenic modifications and their impacts on shellfish physiology"

Supervisors: Drs. Ben Koop and Helen Gurney-Smith

Biology Alumni News

Choy Lab

Former Graduate Student, Julie Angus, recently won the prestigious *Women in Cleantech Challenge* award that comes with a monetary prize of \$800,000.00 to further her research project. She also received the 2018 UVic Distinguished Alumni award in February 2018 for her contributions in digital technology to the UVic library archives. Julie was an invited speaker at the 30th annual graduate symposium to inspire our current students.



Taylor Lab

Congratulations to UVic Honours and MSc graduate, Diana Rennison, and her husband Graeme on the birth of their first child, Anja Maria Irene Rennison. Anja was born at 11:30 am on November 3; she was 3.93 kilos and 53 cm long. After graduating from UVic (John Taylor's lab), Diana did a PhD with Dolph Schluter at UBC and a Post Doc with Katie Peichle in Bern Switzerland. In addition to a new baby, Diana recently accepted a faculty position at UC San Diego!

Tunncliffe Lab



UVic Biology invades Newfoundland! Amanda Bates (UVic PhD 2006) has taken up a Canada Research Chair in Marine Physiological Ecology at Memorial University. Her lab is growing fast with the addition of Jackson Chu (UVic PhD 2016) as an NSERC Postdoc and Brandy Biggar (UVic Hons BSc 2018) as Masters student.

Job Opportunities

Sessional Instructors

DEPARTMENT OF BIOLOGY, UNIVERSITY OF VICTORIA, REQUEST FOR EXPRESSION OF INTEREST
CUPE 4163 (COMPONENT 3) SESSIONAL LECTURERS

Expressions of interest are invited for a sessional assignment for the following Winter Session 2018-19 courses.
January 7 – April 5, 2019

BIOL 370/ES 320 Conservation Biology (3-0) (1.5units) Monday, Thursday 10:00-11:20 am

Diversity of organisms, functioning of ecosystems, and the impact of human activities on these. Topics include the nature biological diversity; extinction and its cause; habitat alteration and fragmentation; effects of exotic species; economic and ethical considerations; practical and analytical tools; and legal frameworks for conserving species and habitats.

Prerequisites: BIOL 186-Physiology and Cell Biology; and BIOL 215-Ecology; and BIOL 230-Genetics; and STAT 255-Statistics for Life Sciences

Anticipated enrollment: 108 students, maximum 110

BIOL 307 Chordate Zoology (3-3) (1.5 units) Tuesday, Wednesday, Friday 10:30-11:20 am

Chordates: evolutionary history and adaptations. Major taxonomic groups, with emphasis on derived and defining characteristics; locomotion, feeding, sensory systems and reproduction. Laboratory exercises include observations of prepared specimens, dissections, written assignments and oral presentations.

Prerequisites: BIOL 184-Evolution & Biodiversity and BIOL 186-Physiology and Cell Biology

Anticipated enrollment: 80 students, maximum 88

Note: All sessional positions are subject to meeting minimum enrollment requirements.

Salary is subject to the CUPE 4163 - Component 3 collective agreement and is based on years of lecturing experience at a post-secondary institution.

More information can be found on the UVic Human Resources website: [Human Resources](#)

Expressions of interest must be submitted in writing to Dr. Barbara Hawkins, Chair, Department of Biology, University of Victoria. P.O. Box 1700 Stn CSC, Victoria, BC V8W 2Y2 Tel: (250) 721-7092 Fax: (250) 721-7120 or care of bioadmin@uvic.ca **on or before Wednesday, November 28, 2018.**

The anticipated date by which employment decisions are made is December 3, 2018.

The Department of Biology reserves the right to fill additional teaching assignments from the pool of applicants for this posting.

The University of Victoria is an equity employer and encourages applications from women, persons with disabilities, visible minorities and aboriginal persons, people of all sexual orientations and genders, and others who may contribute to the further diversification of the University.



If you have stories or announcements that would like to share for the Biology newsletter, please email Chantal Laliberté at biology@uvic.ca or Laura Alcaraz-Sehn at bioclerk@uvic.ca.

Internship Opportunities

RISE-Globalink Research Internship

Mitacs and the German Academic Exchange Service (DAAD) have partnered to offer the [RISE-Globalink Research Internship](#) (RISE-GRI), which offers undergraduate students at Canadian universities the opportunity to undertake research at eligible German institutions.

RISE-GRI pairs Canadian students with three-month projects supervised by PhD students in Germany.

*Open to full-time undergraduates in biology, chemistry, computer science, physics, earth sciences, or engineering (or a closely related field) who have completed at least two years of a four- or five-year program

Students in Quebec enrolled in a three-year undergraduate degree must have completed at least one year of their university program

*Applications accepted until December 15, 2018. Students must apply through the [RISE application portal](#).

*Competitive opportunity — only top-ranked students are matched with projects

*Projects must start between May 15 and July 9, 2019

*Approved recipients receive \$6,000 toward travel and accommodations

For questions about the application procedure, matching process, and internship placement, please contact:

rise-germany@daad.de.

For any questions regarding the funding, please contact Mitacs International at international@mitacs.ca

Pacific Institute for Climate Solutions—2019 call for internship proposals

Every year PICS provides support to provincial, regional and local governments, businesses, Indigenous communities, among others, to hire university students to work on projects relevant to our vision, mandate and objectives.

These internships provide students with opportunities to develop expertise in the area of climate change solutions, both mitigation and adaptation, and support our partners in addressing the climate change-related challenges they face.

The deadline is December 10. Check out the details by [clicking here!](#)

Molecular Biology Workshop

Keep calm and carry a Pipette

ONE WEEK VERSION - MOLECULAR BIOLOGY WORKSHOP
February 18 to 22, 2019 (CAN\$1500)

This intense five-day workshop will focus on a myriad of different techniques used in the molecular manipulation of DNA, RNA and protein, as well as inclusion of lectures of high throughput genomic techniques. Primarily aimed at researchers who are new to the area, familiar but require a quick updating, or would like more practical bench training.

Hands-on techniques covered include: Various nucleic acid purification methodologies (silica bead, organic, and/or pl based), restriction digests, ligations, dephosphorylation assays, agarose gel electrophoresis, transformation (including electroporation), PCR, reverse transcriptase assay, real time qPCR, SDS-PAGE, Western blot analysis, Isoelectric focusing strips, and 2D protein gels. This also includes theoretical and hands-on work on Next Gen Sequencing (using an Ion Torrent set up).

To register or inquire about the workshop, please contact Dr. David Ng at db@mail.ubc.ca or 604-822-6264.

For more information click [here](#).



UVic Ecology Club

Ecology Club

A club ran by graduate students to help connect people across disciplines. There are many departments with an ecological component and this club aims to facilitate interdisciplinary connections and opportunities.

What they do:

- *Host seminars weekly on a broad spectrum of hot topics
- *Facilitate social events throughout the school year including writing retreats
- *Support across campus communications
- *Build an on-line library of resources and content



If you are interested in ecology, don't hesitate to connect with the Ecology Club by joining their [list serve](#).

To learn more [click here](#).

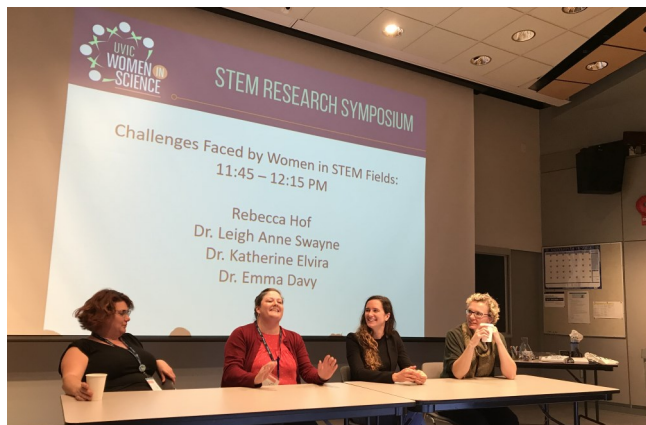
UVic Women in Science

UVic Women in Science

On November 29 in the Michele Pujol room of the Student Union Building, UVic Women in Science is hosting its annual UVic WIS STEM Research Symposium where women in STEM conducting research at the undergraduate, graduate, and post-doctoral level will showcase their work through Pecha Kucha-style talks and an interactive poster session. There will be several insightful and engaging keynote presentations and panel discussions from women in academia and industry. This event will also feature a Bystander Intervention Workshop hosted by the Office of Student Life.

Free lunch and coffee will be provided to attendees.

This symposium aims to underscore the amazing research ongoing at UVic and connect women, who are working or interested in STEM-related fields. This symposium is open to everyone, all ages and genders!



Call for abstracts! [Register here](#) to present your research at our annual STEM Research Symposium.

Visit [UVic Women in Science](#) for more information on events, interviews, resources and community.



Editors:

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