

GRADUATE STUDIES CONFERENCE
McDougall Hall
Alex H. MacKinnon Auditorium
Room 242
WEDNESDAY, THURSDAY AND FRIDAY, MAY 15-17, 2019

DAY 1, WEDNESDAY, MAY 15

9:00 a.m.	Opening Ceremonies Welcome from the UPEI Faculty of Graduate Studies – Dr. Larry Hammell, Dean (interim) Greetings from the University – Dr. Alaa Abd-El-Aziz, President, University of Prince Edward Island Introduction of Dr. Tim Goddard, Outstanding Mentorship Lecture
9:15 a.m.	2019 Outstanding Graduate Student Mentorship Lecture “Mentoring for mutual reward: The reciprocity of relationships” Dr. Tim Goddard, Faculty of Education, University of Prince Edward Island

10:00-10:15 *Schurman's Market Square*

Session One – AVC		Moderator – Michael Pass
TIME	TITLE	SPEAKER
10:15-10:30	Antimicrobial dry cow therapy for prevention and cure of intramammary infections: a systematic review and meta-analysis	M. Afifi ^a
10:30-10:45	Antimicrobial peptides with activity against major cow mastitis pathogens	A. Colonia-Orozco ^a
10:45-11:00	Vaccination for Bovine Viral Diarrhea virus in Atlantic Canadian dairy farms and its relationship to antigen and antibody test results from bulk tank milk	T. Olney ^a
11:00-11:15	Can heart rate variability be used as an indicator of pain in veterinary teaching hospital equine patients?	J. Kaufman ^a
11:15-11:30	Effect of assay conditions on H ₂ O ₂ emission in heart mitochondria	M. Isei ^a
11:30-11:45	Conservative Management of Metatarsal Fractures in a Dog	S. Hoe ^a

11:45-1:15 *Lunch – Schurman's Market Square*

Session Two – (Science, Global Affairs, MAIS)		Moderator – Logan MacIntyre
1:15-1:30	Mental Health Screening in Prince Edward Island Schools	S. Sparks ^b
1:30-1:45	In the Realm of a Retiring Emperor: Japan's Heisei Era in the West, 1989-2019	M. Pass ^b
1:45-2:00	The Threat of Antibiotic Resistance on Global Health	E. McDermott ^b
2:00-2:15	While “Free” Trade Fosters Economic Growth “Freer” Trade May Not	C. Carmichael ^b
2:15-2:30	Using Climate Data and Models to Assess the Potential for Growing <i>Theobroma Cacao</i> in the Florida Keys	E. Gilbert ^b
2:30-2:45	<i>Refreshments – Schurman Market Square</i>	

Session Three – Science & AVC		Moderator – Zacharie Maw
2:45 – 3:00	Selection of scientific indicators for understanding and communicating climate change impacts and adaptation on PEI	D. Jardin ^e
3:00 – 3:15	<i>In Situ</i> Fermentation as a New Approach for Natural Product Discovery	V. Ptycia-Lamky ^e
3:15 – 3:30	Climate Change Impact Assessment and Mitigation Strategies for Sustainable Water and Agriculture Management in PEI	A. Bhatti ^e
3:30 – 3:45	Beer Bitterness and Raman Spectroscopy	B. Cudmore ^a
3:45 - 4:00	Synthesis and Characterization of Fluorescent Metal Organic Frameworks Using Terephthalic Acid	B. Handke ^a
4:00 - 4:15	Diatoms loaded self-assembled nanomaterial for Drug Delivery	A. Kabir ^a

DAY 2 THURSDAY, MAY 16

Session Four	Engineering	Moderator – Emily Pope
9:00-9:15	Precision Irrigation Strategies for Sustainable Potato Production on Prince Edward Island	H. Afzaal ^c
9:15-9:30	3D bio-printing of starch-chitosan scaffolds for neuron cells	H. Butler ^c
9:30-9:45	Sea lettuce to biocarbon and biogas with recovery of nutrients	A. Shrestha ^c
9:45-10:00	Smart Sprayer Development for Site Specific Applications of Agrochemicals using Deep Neural Networks	N. Hussain ^c
10:00-10:15	Simulation and Parameterization of Floating Wind Turbine Farms with Shared Moorings	P. Connolly ^c
10:15-10:30	<i>Refreshments – Schurman Market Square</i>	
10:30-10:45	Applications of Nanocrystalline Cellulose Isolated from Local Invasive Tunicates	M. Dunlop ^c
10:45-11:00	Synthesis of Novel Antimicrobial Peptide-Polymer Hybrids	N. Nazeer ^c
11:00-11:15	Development of a fully automated portable and smartphone-operated saliva-based cortisol biosensor	R. Nino-Esparza ^c
11:15-11:30	Biochar Assisted Municipal Wastewater Treatment and Nutrient Recycling	A. Pokharel ^c
11:30-11:45	A Novel Approach to Product Lifecycle Management and Engineering Using Behavioural Models for the Conceptual Design Phase	S. Peters ^c
11:45-1:00	<i>Lunch – Schurman's Market Square</i>	

DAY 2 THURSDAY, MAY 16 (cont.)

Session Five – Wildlife, Biomedical, Companion Animals, Natural Products		Moderator – Ashley McKibbin
1:00-1:15	Effect of temperature and cadmium on mitochondrial hydrogen peroxide homeostasis	C. Okoye ^d
1:15-1:30	The effect of temperature on bacterial fermentation to enhance the drug discovery process	A. Kuznetsova ^d
1:30-1:45	Chemical elicitation of natural product biosynthesis with surfactant molecules in marine <i>Streptomyces</i>	Z. Maw ^d
1:45-2:00	Retrospective Study of Methicillin-Resistant <i>Staphylococcus pseudintermedius</i> from Samples Submitted by an Atlantic Veterinary Teaching Hospital	A. E Webster ^d
2:00-2:15	Infectivity of spontaneously-shed <i>Angiostrongylus vasorum</i> and <i>Crenosoma vulpis</i> L3 to dogs	W. Robbins ^d
2:15-2:30	Serologic and urinary survey of exposure to leptospirosis in a feral cat population of Prince Edward Island	E. Bourassi ^d
2:30-2:45	Using a Microbial Domestication Pod (MD Pod) for the Discovery of Novel Marine Natural Products	E. Pope ^d
2:45-3:00	A novel α-methylated <i>N</i> -acyl amino acid of microbial origin: structure elucidation, SAR and biosynthetic study	L. MacIntyre ^d
3:00-3:15	Natural Product Discovery from Marine Actinomycetes	L. Liang ^d
3:15-4:15	R. G. Thomson Lecture “An unintended path through emerging infectious diseases” Dr. Scott Weese, U. of Guelph	S. Weese
6:30-9:00	<i>Reception: GSA Banquet – Rodd Charlottetown Hotel</i>	<i>Tickets required</i>

DAY 3 Friday, MAY 17

TIME	TITLE	
8:30-9:15	2019 Zoetis Award for Research Excellence Lecture “Tracing superbugs. Can we estimate the risks?” Dr. Javier Sanchez, Department of Health Management, University of Prince Edward Island	J. Sanchez
Session Six – AVC, Science (Fish)		Moderator – Anam Hamza
9:15-9:30	Analysis of structural proteins of Atlantic salmon bafinivirus, a coronavirus of fish	A. Mckibbon ^e
9:30-9:45	Can Functional Feeds Modulate the Direct and Indirect impacts of <i>Lepeophtheirus salmonis</i> and Infectious Salmon Anemia virus co-infection in the skin of Atlantic salmon (<i>Salmo salar</i>)?	D. Michaud ^e
9:45-10:00	<i>Lepeophtheirus salmonis</i> and <i>Moritella viscosa</i> Co-infection in Atlantic Salmon (<i>Salmo salar</i>)	K. Parrish ^e
10:00-10:15	Investigating Sea Lice Infestation at Multiple Atlantic Salmon Farms in Bay of Fundy, New Brunswick	M. Parent ^e
10:15-10:30	Population Genomics and Reproductive Migration Behaviour of Atlantic salmon in Prince Edward Island	C.M. Grove ^e
10:30-11:00	<i>Refreshments – Schurman’s Market Square</i>	

Session Seven – Education, Business & Science		Moderator – Chris Palmer
11:00-11:15	Satisfaction with Education Agents: A Study on International Students in Canada	H. Xu ^b
11:15-11:30	Gender Dynamics in the Creative Writing Classroom: The Lived Experience of Female MFA Graduates	K. Bucca ^b
11:30-11:45	Out of the Box: Querying Identity Development for Sexual and Gender Minority Youth in Prince Edward Island	B. Jakubiec ^b
11:45-12:00	Teacher’s Experiences Creating and Delivering Indigenous Curricula on Prince Edward Island In Response to the Truth and Reconciliation Commission’s Recommendations	L. Lall ^b
12:00-12:15	The Impact of Workplace Violence Prevention Training: A Critical Appraisal	T. Wiedemer ^b
12:15-2:00	<i>Reception: Pizza & Refreshments & Awards Ceremony Schurman’s Market Square</i>	<i>Lunch Sponsored by PEI BioAlliance</i>

a,b,c,d,e refers to groups for presentation judging purposes