



PEEC 2024 Tentative Talk Schedule – March 16, 2024

Welcome and Opening Remarks - 8:30 am – Rix Center

Session 1 (9:00-10:30)		
Room A: Kelp forest ecosystems – Moderator: Paige Roper		
9:00am	Alana Breitreutz	Does flow speed affect blade number in the bull kelp, <i>Nereocystis luetkeana</i> ?
9:15am	Ruby Burns	Kelp culturing and thermal physiology research for collaborative industry restoration
9:30am	Amelia Gray, Isabel Gregr, and Sophia Cross	Cold region <i>Nereocystis Luetkeana</i> sporophytes outperform those from warm regions
9:45am	Em Lim	Spatial dynamics of animal-mediated nutrients in temperate waters
10:00am	Alyssa Allchurch	Investigating the resilience of kelp forests to harvest amid a rapidly changing ocean
10:15 (3 min talks)	Tessa Rehill	Investigating urchin distributions and control methods to inform restoration of threatened kelp forest ecosystems
	Aidan Wright	Estimating Bryozoan Coverage on Kelp Surfaces Using UAVs
	Jing Jiang	Ecological Niche Projections for Three Asia-Pacific Economies Under Climate Change

Room B: Conservation Biology – Moderator Dave Scott		
9:00am	Mina Hassanaghaei	Ecotoxicological insights from the 2022-White Sturgeon (<i>Acipenser transmontanus</i>) mortalities in the Nechako River, British Columbia
9:15am	Nicole Williams	Moonlight influence on the vocal activity of Western Screech-Owls
9:30am	Niloufar Abhari	Measuring Genetic Diversity Across Populations
9:45am	Elisabeth Schafers	Biodiversity in British Columbia
10:00am	Gwynifyre Taylor	Optimizing Seagrass Mapping with Drones and Machine Learning
10:15 am (3 min talks)	Michelle Hoang	Landscape connectivity influence on genetic structure of coastal wolves
	Quin Johnston	Potential drivers of catch and release mortality of recreationally captured coho salmon
	Dave Scott	Juvenile salmon response to jetty breaching in the Fraser River estuary, BC.



Room C: Ecology of Human Landscapes – Moderator Lionel Leston		
9:00am	Ashley Mickens	Assessing Methods of Measuring Urbanization and Its Effects on Aquatic Ecosystems Across Vancouver Island
9:15am	Janine Garcia	The Impact of Tire-Derived Toxicity
9:30am	Ashton Seis	Long-read sequencing reveals complete plasmids in three <i>Tenacibaculum</i> species
9:45am	Brianna Heese	Antimicrobial resistance monitoring of florfenicol on BC <i>Tenacibaculum</i> isolates
10:00am 3 min talks	Ian Pettit	Microbial Source Tracking In Baynes Sound Using Pacific Oysters complex
	Liam Surry	Identifying Markers Related to Bacterial and Viral Resistance in Pacific Oysters
	Meredith White	Vessel noise effects on anti-predator behaviour in Pacific sand lance
10:15 am 3 min talks	Vanessa Hum	Bird-window collisions: a window of opportunity to implement effective solutions
	Lal Deniz Basok	Understanding the Role of Attributes and Patterns in the Segmentation and Development of Global Shark Ecotourism
	Mahynour Saleh	The effects of climate change on food security in Tla'amin

Coffee Break - 10:30 - 10:45am

Session 2 (10:45 am - 12:15pm)		
Room A: Wild Salmon and Food for Wild Salmon – Moderator Kaitlyn Zinn		
10:45am	Kaitlyn Zinn	Mechanisms impacting the short-term survival of released Chinook salmon in Barkley Sound
11:00am	Ian Clevenger	The current relevance of creekwalking
11:15am	Dan Scurfield	Advances in Passive Integrated Transponders and novel applications
11:30am 3 min talks	Michelle Douglas	Environmental Data and Decision-making in Fraser River Sockeye Fisheries
11:30am 3 min talks	Samantha Rhodes	Examining the Estuary: Investigating habitat use of juvenile sockeye salmon on the Lower Fraser River
	Sophie Watson	Who Will Survive?: Investigating Overwintering Success in Juvenile Sockeye
	Alexandra Munday	Ecological Risk Management in BC Salmon Hatcheries
11:45am 3 min talks	Loic Dallaire	SHSI : A novel index for Pacific Herring spawning detection
	Jake Dingwall	Investigating the Impact of Stressors on Pacific Herring Spawning Dynamics



	Grace Melchers	Employing Environmental DNA to Resolve Spatial Differences in Marine Biodiversity

Room C: Birds, Bugs and Beyond – Moderator Lionel Leston		
10:45am	Asim Renyard	Seasonal patterns of macronutrient collection and proximate mechanisms of foraging ants
11:00am	Claire Gooding	Ticks utilize soil-dwelling fungi as indicators of suitable resting sites
11:15am	Sandhyarani Siddamsetty	Effects of Rhizobium and Caballeronia sordidicola Inoculation on Growth and Nitrogen Fixation of Intercropped Field Pea and Poplar
11:30am	Genavieve Desjardin	Life history tradeoffs in Harmonia axyridis
11:45am 3 min talks	Anna Linton	Robbing behaviour of bald eagles
	Kyra Rolfe	On a collision course: reconciling wind and wildlife futures
	Raven Barbera	Egg Size Variation and Lifetime Reproductive Success in European Starlings
12:00pm 3 min talks	Andrew Racz	Unraveling seasonal growth and fatty acid changes in estuarian biofilm
	Shab Molan	COVID-19 variant wave dynamics
	Richita Goli	Evaluation of Endophytic bacterial strains for plant growth and development in Pine and Spruce

Lunch Break BMSC Cafeteria 12:15 pm – 1:15 pm

Session 3 (1:15 pm - 2:30pm)		
Room A: Fisheries and Aquaculture – Moderator Steve Johnston		
1:15 pm	Denman Moody	Barnacle-infested Yesso scallops: Shell colour and microbiome as potential influences
1:30 pm	Joana Dutilh De Capitani	What happens to marine biota after we stop bottom trawling
1:45 pm	Korrina Gichrist	Yesso scallop larval rearing: microbiome and husbandry practices
2:00 pm	Joseph Nolan	Measures of Smoltification in Aquaculture Chinook Salmon
2:15 pm 3 min talks	James Dennis-Orr	Investigating the Impacts Early Microbiota Disruption have on Pacific oyster, Crassostrea gigas, Survivorship against Bacterial Inoculation of Vibrio spp
	Samuel Detillieux	Microbiome Enrichment, Host Genetics, and Long-Term Resilience of Pacific Oysters



Room C: Climate Change and Changing Distributions – Moderator Megan Winand		
1:15 pm 3 min talks	Megan Duchesne	Fit the bill: Rapid adaptation in a changing community
	Elliot Porcher	Is colour a good metric of stress in coralline algae?
	Alexandra Wiebe	Identification of the loci involved in ocean acidification resistance in Pacific oysters (<i>Crassostrea gigas</i>)
1:30 pm 3 min talks	Brooke Chapman	Ocean acidification influences gene expression in ‘resilient’ and ‘susceptible’ lineages of late life-history stage Pacific oysters (<i>Crassostrea gigas</i>)
	Kiara Kattler	Disparity between acclimation rates in climate change experiments and predicted rates of ocean warming
	Zoe Penno	Investigating Terrestrial Predation in the Intertidal Zone
1:45 pm 3 min talks	Lucy Burns	Arctic Lake Methane Cycling: Whos Who?
	Breanna Lambert	Understanding Trophic Dynamics in a Canadian Freshwater Jellyfish <i>Craspedacusta sowerbii</i> Population Through Zooplankton Analysis
	Codey Reumkens	Ecology of two <i>Haematoloechus</i> spp. in Invasive Bullfrogs on Vancouver Island
2:00 pm	Elizabeth Oishi	Outdoing the locals: comparative functional response experiments reveal the mechanisms underpinning invasive predator success
2:15 pm	Eva MacLennan	Intertidal communities and stoichiometry on natural and artificial urban reefs

Afternoon Break 2:30 – 6pm

Workshop - 3:00 – 5:00 (Room B) - The Living Data Project: Creating teaching resources that leverage the power of open data in combination with R programming language. Led by Margaret A. Stein, O’Connor Lab, University of British Columbia. Room B of the Rix Building for a 2-hour presentation at 3:00pm.

Bradys Beach/West Bamfield 2:45 – 6pm – Meet on foreshore for boat shuttles which will be leaving 2:30 to 3:30, return boat shuttle from West Side dock when ready from 5 to 6 pm.



Nova Harvest Tour 2:45 – 3:15pm – Meet outside Buchanan for the short walk to Nova Harvest for a tour. Nova Harvest Ltd. is an aquaculture company that applies innovative, science-based solutions to support the development of a sustainable shellfish industry in BC, located next to BMSC. (www.novaharvest.com)

Dinner BMSC Cafeteria 6:00-7:00 pm

Poster Session – Rix Main – 6:45-8:30 pm

Giselle Dove	Evolution of the transitional retina in the young sablefish
Sarah Rozanski	Understanding controls on nutrient cycling in aquatic ecosystems
Natalie Butler	Assessing effects of acclimation temperature on thermal tolerance of stream-type juvenile Chinook salmon (<i>Oncorhynchus tshawytscha</i>) under ecologically relevant temperatures
Cormac Toler-Scott	Exploring sea spider (pycnogonida) species diversity in British Columbia
Chloe Nicholls	Investigating Behavioural Patterns in Ringed Seal Calls Through Acoustic Analysis
Heather Gordon	Mesozooplankton in the Lazarev Sea: Community structure and spatiotemporal dynamics
Carter Butlake	Managing a tuc'up Garden
Paula Mali	Female-female socialization and cohabitation in intertidal jumping spiders (<i>Terralonus californicus</i>)
Dana Halay	Understanding Trophic Dynamics in a Canadian Freshwater Jellyfish <i>Craspedacusta sowerbii</i> Population Through Zooplankton Analysis
Rebecca Krohman	Hypoxia and heat stress on heart characteristics of <i>Corella tunicates</i>
Maya Persram	Reconnecting salmonid habitats at watershed scales using spatial conservation tools
Joan Moreaux	You are what you eat: Humpback whale diet composition in the Strait of Georgia
Michael Clark	Female Meiotic Drive and its Effect on Nondisjunction
Lucas Silva	Self-Grooming in <i>Aedes aegypti</i> exposed to formulated <i>Metarhizium humberi</i> Conidia

Dance in the Rix - 9 pm to 1 am

Theme: Dress your favourite “Significant Figure X Species Mashup”



A few examples: Piggy Stardust, Marlin Monroe, Issac Newt, Dolly Varton, Cat Stevens,
Weird Owl Yancovic