

**Presentation Session A****2:00 - 2:45 pm****Climate Change*****Fir Room****Moderators: Em Lim & Beth Oishi*

2:00	Natalie Butler	Assessing effects of acclimation temperature on thermal tolerance of stream-type juvenile Chinook salmon under ecologically relevant temperature ranges
2:15	Camille Febvre	Ecosystem-level evolutionary response to temperature
2:30	Olivia Melville	Are glass animals important to the global silicon cycle?

**Evolution I*****Oak Room****Moderators: Miranda Dennis & Katie Philip*

2:00	Evan Hersh	Hare population cycles impact lynx genetic diversity and gene flow
2:15	Julie Radford	The persistence of a selfish X chromosome in a common woodland fly
2:30	Katherine Carbeck	Selection for genes underlying Bergmann's Rule

**Speed Talks: Trees to Teleosts**

***Elm Room***

*Moderators: Phoebe Gross & Julian Gan*

**Forestry**

- |      |               |  |
|------|---------------|--|
| 2:00 | Kate Peterson | Growing with the Times: Adapting GY Modelling to Climate Change            |
| 2:03 | Zhengyang Ye  | Universal Response Function for Interior Spruce and Its Spatial Validation |
| 2:06 | Laura Mackey  | Extracting atmospheric river storm history from tree ring stable isotopes  |
| 2:09 | Q & A         |  |

**Plankton & Plants**

- |      |               |  |
|------|---------------|--|
| 2:15 | Daniel Labbé  | Zooplankton biomass and nutritional quality in the Canadian Offshore Pacific     |
| 2:18 | Maggie Lawton | Characterizing the diversity of microbial eukaryotes in oxygen minimum zones     |
| 2:21 | Narges Raei   | Flow Characteristics of <i>Z. marina</i> beds in proximity of <i>Z. japonica</i> |
| 2:24 | Q & A         |  |

## Salmon

2:30	David Scott	Salinity tolerance in juvenile Chinook salmon in the Fraser River estuary
2:33	Phoebe Gross	Present and future juvenile Pacific salmon growth across estuarine habitat mosaics
2:36	Julian Gan	Estuarine habitat associations of juvenile salmon across a degradation gradient
2:39	Q & A	

## Presentation Session B

3:00 - 4:00 pm

### Conservation I

*Fir Room*

*Moderators: Em Lim & Beth Oishi*

3:00	Patrick Zubick	Audit of Remediated Culvert Barriers in the Fraser River Watershed
3:15	Zachary Sherker	Effectiveness monitoring for culvert and floodgate remediations to improve salmon migrations
3:30	Gillian Gawron	Social/environmental tradeoffs of green burial as land conservation tool
3:45	Sarah Board	Elements of conservation messages that sustain whale watchers pro-environmental behaviours

## Evolution II

***Oak Room***

*Moderators: Miranda Dennis & Kelly Scott*

- |      |                             |   |
|------|-----------------------------|---|
| 3:00 | Meghan Dueck                | Intraspecific variation and osteology of the Rocky Mountain sculpin             |
| 3:15 | Hazel de Haas               | Exploration of intraspecific variation in fish stoichiometry within a watershed |
| 3:30 | Philippe Fernandez-Fournier | How is local phylogenetic diversity changing globally?                          |
| 3:45 | Hannah Roodenrijs           | Reversed Sexual Dimorphism and Resource Partitioning in black oystercatchers    |

## Physiology

***Elm Room***

*Moderators: Phoebe Gross & Julian Gan*

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|------|-------------------|--|
| 3:00 | Anupinder Hura    | Impact of petroleum products on Pacific oyster physiology and histopathology         |
| 3:15 | Arian Farajizadeh | Nanoplastics Modulate of the PFOA uptake in Pacific Oyster                           |
| 3:30 | Brett Hodinka     | Interbrood comparisons of mass loss strategies in breeding female European starlings |
| 3:45 | Vanessa Ho        | ATP signaling in sneezing sponges and the evolution of coordination                  |

**Snack Break**

**4:00 - 4:30 pm**  
*Concourse*

**Presentation Session C**

**4:30 - 5:15 pm**

**Salmon Ecology**

***Fir Room***

*Moderators: Em Lim & Beth Oishi*

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|------|-----------------|---|
| 4:30 | Devan Johnson   | Biofouling, Environmental Factors, and Gill Health on Atlantic Salmon Farms |
| 4:45 | Brittany Milner | Seasonal dynamics of juvenile coho salmon in wetlands                       |
| 5:00 | Paige Roper     | Fraser estuary Chinook and dietary differences between populations          |

**Forestry**

***Oak Room***

*Moderators: Miranda Dennis & Kelly Scott*

- |      |              |   |
|------|--------------|---|
| 4:30 | Dawei Luo    | Local adaptation of trees to forest pests                       |
| 4:45 | Wenhuan Xu   | The impact of climate change on endangered conifer tree species |
| 5:00 | Lise Nehring | The contribution of Red Alder to forest stand nitrogen budgets  |

## **Animal Behaviour**

- |      |             |  |
|------|-------------|--|
| 4:30 | Anna Smith  | Efficacy of Drones for Beaver Surveys in the Yukon           |
| 4:33 | Cole Rankin | Partial Migration in Black Oystercatchers Breeding in Alaska |
| 4:36 | Saif Nayani | Microbe-mediated attraction of stable flies to host cattle   |
| 4:39 | Q & A       |  |

## **Evolution**

- |      |                         |  |
|------|-------------------------|--|
| 4:45 | Giselle Dove            | The cone mosaic of young sablefish: an evolutionary perspective                      |
| 4:48 | Megan Duchesne          | Does novel competition drive diversification or convergence in controphic sparrows?  |
| 4:51 | Pierre Etienne Banville | Examining how animal traits and abundance influence landscape resource heterogeneity |
| 4:54 | Q & A                   |  |

## Reproductive Physiology

5:00	Rachel Stapleton	Multi-event modeling shows variable nest success for the at-risk double-crested cormorant population
5:03	Genavieve Desjardin	Intraspecific variation of clutch size in ladybeetles
5:06	Raven Barbera	Individual Variation and Plasticity of Egg Size in European starlings
5:09	Q & A	

## Social

**6:00 - 10:00 pm**

***North Point Brewing Café***

Come join us for a fun round of drinks and food at our PEEC Social & Mixer! The social will take place at North Point Brewing Café (1025 Dunsmuir St, Vancouver, BC V7X 1M5). A drink ticket is included with your admission ticket and will be distributed at the door. We are supplying snacks and treats. There will also be additional food for purchase through the venue. We hope to see you there!

# Sunday Program

## Coffee and Networking

8:00 - 8:30 am

*Concourse*

Enjoy coffee, tea, and light refreshments. Visit the registration desk for late registration or to purchase PEEC merch!

## Poster Session

8:30 - 9:30 am

*Concourse*

P1	Maria Sophia Diluvio	What makes sponges contract? In-situ observations on a sponge.
P2	Keilan Williams	Demographic History of the Pacific Nudibranch Genus <i>Hermisenda</i>
P3	Megan Scott	Do Glaucous-winged Gulls Indirectly Effect Black Oystercatcher Breeding Success?
P4	Olivia Murphy	Marine vessel noise impacts on endangered Southern Resident killer whales
P5	Kate Rutherford	Abundance, distribution, seasonality and habituation of Roosevelt elk
P6	Angus Townsend	Analysis of plainfin midshipman ( <i>Porichthys notatus</i> ) otolith annuli for aging
P7	Alexandra Munday	Associated Ecological Risks in Salmonid Enhancement Facilities of Metro Vancouver



P8	Chloe Kraemer	Salmon as “samplers”: Using adult Chinook Salmon diets to understand prey distributions in British Columbia coastal ecosystems
P9	Emma Polard	The effect of hatchery rearing conditions on otolith composition in juvenile Coho Salmon
P10	Pourya Sardari	Far From Home: Selected African-Eurasian Testudines imports into the US
P11	Emma Kovacs	Attraction of horn flies, <i>Haematobia irritans</i> , to cattle host semiochemicals
P12	Milène Wiebe	Optimizing trapping strategies of European green crab ( <i>Carcinus maenas</i> )

## Snack Break

**9:30 - 10:00 am**

*Concourse*

## Presentation Session D

**10:00 - 11:00 am**

### Human Impact I

*Fir Room*

*Moderators: Beth Oishi & Julian Gan*

10:00	Ashley Mickens	Understanding Effects of Urbanization on Aquatic Ecosystems Across Vancouver Island
10:15	blake danis	How Risky are reintroductions: assessing contaminant impacts in amphibian reintroduction programs.
10:30	Mackenzie Woods	How boat noise alters behaviour and vocalizations in plainfin midshipman fish

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10:45

Sierra Gray

Energetic and genomic responses of oysters to a changing ocean

## Conservation II

***Oak Room***

*Moderators: Miranda Dennis & Phoebe Gross*

10:00

Elsa Camins  
Martinez

Advances in knowledge of seahorse life history from community science

10:15

Emma Kominek

Evolutionary isolation of Canadian terrestrial vertebrate species

10:30

Alexandra Gregg

Specialism is not Specialism

10:45

Tharindu  
Kalukapuge

Response of boreal songbird communities to linear features of varying width

## Animal Behaviour

***Elm Room***

*Moderators: Celeste Kieran & Sarah Gutzmann*

10:00

Claire Gooding

Know your enemy: Blacklegged ticks sense and avoid ant-frequented areas

10:15

Micah Quindazzi

Snails of Theseus: Highly Derived Shell of Hydrothermal Vent Gastropod

10:30

Robyn Nakano

A Landscape Archaeological Approach to Chimpanzee Accumulative Stone Throwing

## Presentation Session E

11:15 - 12:15 pm

### Community Involvement

*Fir Room*

*Moderators: Beth Oishi & Julian Gan*

11:15	Sarafina Lewis-Henderson	Rare Species Recovery in an Urban Greenspace through Community Stewardship
11:30	Brittnie Spriel	Promoting ocean literacy and inspiring marine conservation through fish sounds
11:45	Sabrina Guzman Skotnitsky	Addressing Climate Anxiety through Participatory Art
12:00	Jaime Ojeda	Unveiling reciprocal contributions between fishers and seabirds in the Patagonian hake fishery

### Modern Methods

*Oak Room*

*Moderators: Miranda Dennis & Phoebe Gross*

11:15	Kaitlyn Zerr	Eyes on the Reef: Using remote timelapse cameras to reveal the hidden habits of marine megafauna in a newly designated UNESCO Biosphere Reserve
11:30	Lauren Man	Using satellite remote sensing to characterize the spatio-temporal resilience of kelp forests in the Broughton Archipelago, BC, Canada
11:45	Lionel Francis Vernon Leston	Power Analysis in Occupancy Models of Acoustic Data from Haida Gwaii
12:00	Sherry Young	Camera traps: pushing the limits of their use

**Speed Talks: Human Impact II**

***Elm Room***

*Moderators: Celeste Kieran & Sarah Gutzmann*

**Aquatic Impact**

- |       |                     |  |
|-------|---------------------|--|
| 11:15 | Celeste Kieran      | Signatures of change in the North Pacific Ocean  |
| 11:18 | Emma Lunzmann-Cooke | Investigating post-release mortality of coho salmon in a marine recreational fishery       |
| 11:21 | Cierra Hart         | Rock the boat: an investigation into the effects of vessel noise on rockfish communication |
| 11:24 | Q & A               |  |

**Avian Impact**

- |       |                |   |
|-------|----------------|---|
| 11:30 | Anna Linton    | Benthic contaminant transfer in bald eagles through plainfin midshipman predation       |
| 11:33 | Jennifer Magel | Habitat loss for migratory shorebirds with future sea level rise                        |
| 11:36 | Jesse Kemp     | Barrow's Goldeneye refine migratory phenology in response to environmental conditions   |
| 11:39 | Vanessa Hum    | Year-round bird-window collision monitoring at Simon Fraser University's Burnaby campus |
| 11:42 | Q & A          |   |

**Presentation Session F**

**1:45 - 3:00 pm**

**Mixed Format: Culturally Significant Relations and Management**

***Fir Room***

*Moderators: Sarah Gutzmann & Raven Barbera*

- |      |                     |   |
|------|---------------------|---|
| 1:45 | Sarah Dickson-Hoyle | Megafires' and the recovery of culturally significant plants                        |
| 2:00 | Claire Armstrong    | Transformative Change towards Indigenous Food Sovereignty in Shellfish Food Systems |
| 2:15 | Emily Spencer       | Can ancient clam gardens buffer the impacts of contemporary heatwaves?              |

**Speed Talks: Traditional Ecological Knowledge**

- |      |                |  |
|------|----------------|--|
| 2:30 | Desiree Lawson | Strengthening Hałtzaqv ocean governance through gavials and łaxvai       |
| 2:33 | Hannah Kobluk  | Modelling Indigenous led stewardship of sea otters, shellfish and people |
| 2:36 | Andrew Bickell | Impacts of marine heatwaves and hypoxia on commercial shellfish species  |
| 2:39 | Q & A          |  |

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## Speed Talks: Aquatic Policy & Management

- |      |                  |   |
|------|------------------|---|
| 2:45 | Kelcy Tousignant | Swimming Upstream: How recreational fisheries management structure dictates decision-making                     |
| 2:48 | Melissa Orobko   | Cumulative exposure: What do you miss when excluding spatial seasonality?                                       |
| 2:51 | Kiara Kattler    | Functional responses of male and female European green crabs suggest potential sex-specific impacts of invasion |
| 2:54 | Q & A            |   |

## **Eco-Grief Discussion**

**1:45 - 3:15 pm**

*Oak Room*

### **Jason Brown, SFU Lecturer in Resource and Environmental Management**

Working in environmental and resource management fields can be deeply rewarding. However, it is also difficult when bombarded by all the bad news facing global ecosystems, biodiversity and the climate. It's easy to become apathetic when things feel overwhelming, and many activists end up burning out.

Explore how grief work is not an invitation to wallow or check out – it reimagines grief as a skill that is not altogether different from love. And for those of us who work in environmental fields, keeping our hearts open to grief might be a way to avoid both burnout and checking out.