

2017 Canadian Society for Ecology and Evolution Meeting

with the Canadian Section, The Wildlife Society

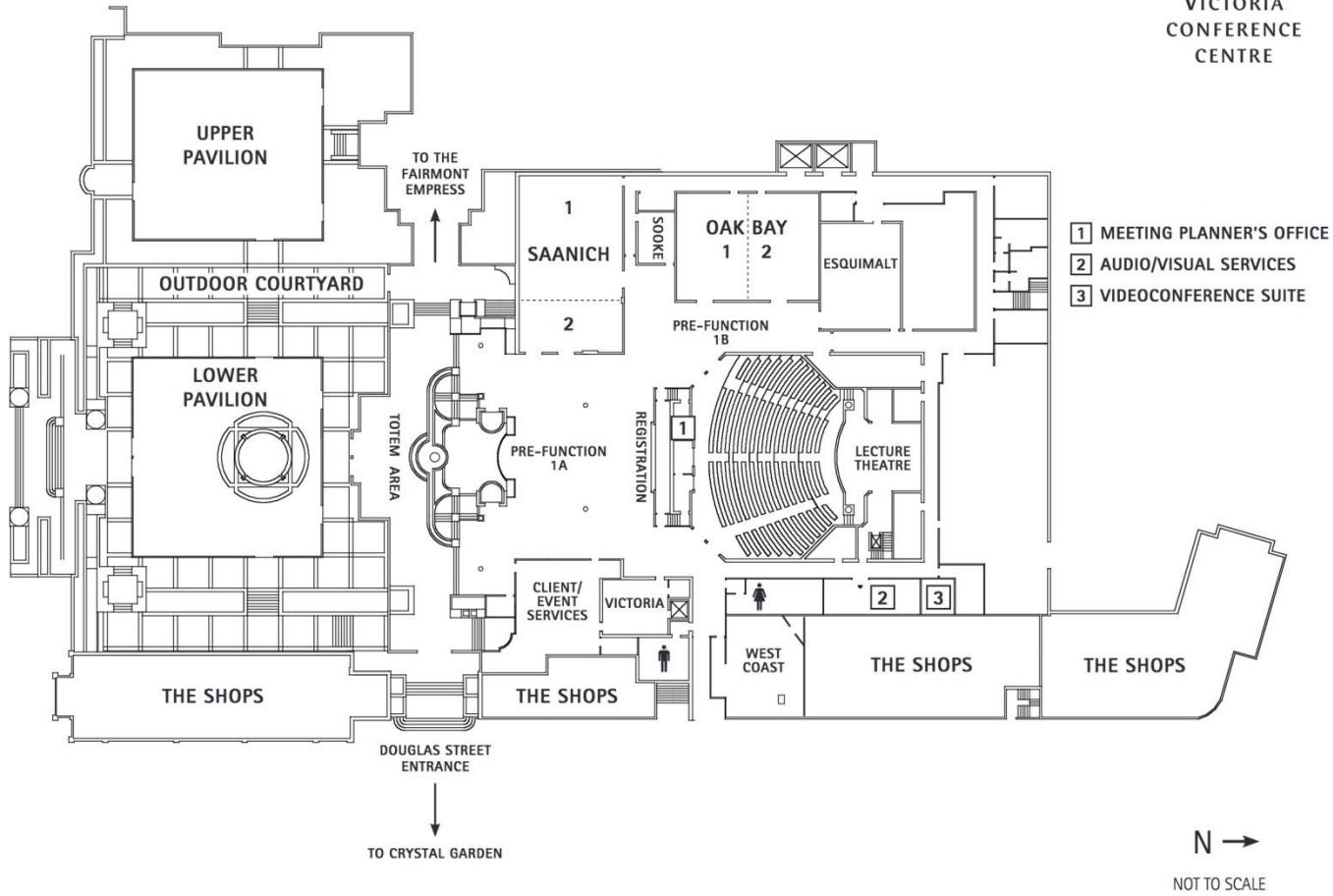
May 7–10th Victoria, British Columbia

Victoria Conference Centre & Royal BC Museum



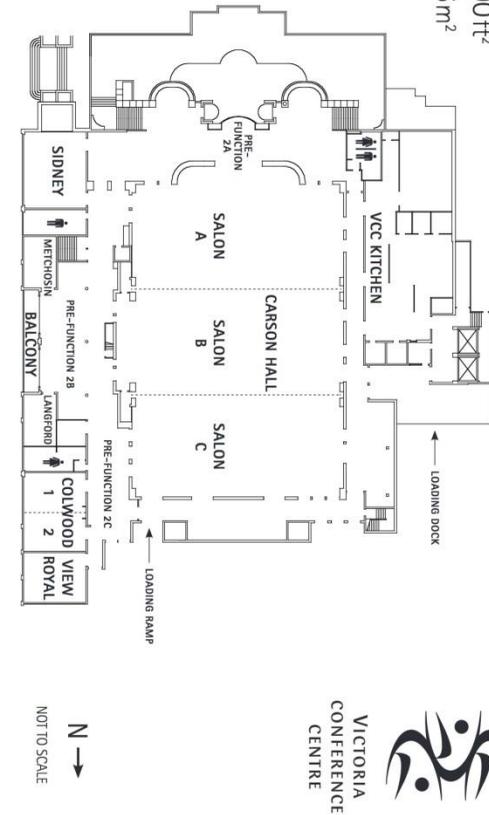
ROYAL **BC** MUSEUM

LEVEL ONE | 23,500ft²
2,183m²



VICTORIA
CONFERENCE
CENTRE

LEVEL TWO | 24,500ft²
2,276m²



VICTORIA
CONFERENCE
CENTRE

Sun

Room:

Victoria Conference Centre

Theatre

Saanich

Oak Bay

Newcombe Hall RBCM

08:00

08:00 - 11:00
Science communication 101

11:00

11:00 - 15:00
Symposium for Women
Entering Ecology &
Evolution Today (SWEET)

14:00

14:00 - 20:30
Registration,
coffee and snacks available
Reg. desk, Level 1

15:00

15:00 - 18:00
Maps and Spatial Data with
R

15:00 - 18:00
Mental Health in Academia

18:00

20:00

18:00 - 20:00
Welcome &
CSEE President's Award talk
(Dr. Sally Otto)

20:30

| Mon | | | | | | | | |
|--|--|---|---|---|---|---|---|--|
| Ecological and Evolutionary Dynamics in Fluctuating Environments Symposium | | Uncertainty in Ecology and Conservation Symposium | | Stickleback ecology and evolution | Accelerating urban ecology in Canada: Identifying current research approaches, gaps, and needs in Canadian cities Symposium | Host-associated microbes: from protective microbes to pathogens Symposium Microbial ecology | Phylogenetics | Museum collections symposium |
| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM | |
| 08:00 | Seasonality, climate change, and consumer-resource dynamics, John Fryxell | Uncertainty and the relationship between human and environmental well-being, Shripad Tuljapurkar | Convergent evolution of a color vision gene facilitates adaptive radiation of threespine stickleback into different light environments, David A. Marques | Linking urban landscape structure to ecosystem service provision, Matthew Mitchell | Rapid evolution of microbe-mediated protection, Kayla King | Introduced common reed (<i>Phragmites australis</i>) in western Canada: A future problem or not?, Geraldine A. Allen | Welcome, Kelly Sendall | |
| 08:15 | Hot and cold, wet and dry: The role of season in structuring aquatic food webs, Bailey McMeans | | Heterozygosity and asymmetry in threespine stickleback, Matthew Morris | What can human-wildlife encounters in the city tell us about urban ecology?, Justin Podur | Tree-ectomycorrhizal symbioses: Does diversity confer function?, Holly Moeller | A comparative analysis of mitochondrial DNA in dioecious (<i>Anodonta anatina</i>) and hermaphroditic (<i>Anodonta cygnea</i>) ..., Emily Chase | Working together to mobilise biodiversity collections data in Canada, Anne Bruneau | |
| 08:30 | A fitness trade-off between seasons causes multigenerational cycles in phenotype and population size, Gustavo Betini | Incorporating climate uncertainty into models of Spectacled Eider survival in Alaska, Katie Christie | Temporal variation shapes phenotypic and genetic diversity in bar-built estuary populations of threespine stickleback, Antoine Paccard | Incorporating novel ecosystems and layered landscapes for ecological restoration in cities, Valentin Schaefer | Thermal stress alters host-parasite interaction and drives parasite distribution in a marine invertebrate, Alyssa Gehman | Phylogeography of <i>Oreohelix</i> land snails in southern Alberta and Saskatchewan, Zach Dempsey | | A student's-eye view of taxonomy and collections research in Canada, Jamie Fenneman and Jeanette Whitton |
| 08:45 | The role of phenological assembly in plant communities, Elizabeth M. Wolkovich | Managing natural resources in the face of uncertainty in future environments, Byron K. Williams | Ecological interactions and genome structure contribute to repeatable patterns of genomic divergence in threespine stickleback, Diana J. Rennison | Socio-ecological interactions in the urban forests: Residents and their trees, Tenley Conway | The impact of non-pathogenic phylloplane bacteria on insect disease resistance: The importance of ecological context, Jenny Cory | What's in the box: Preliminary data from genomic signatures of adaptive diversification in box-ironbark eucalypts, Jasmine Janes | | |
| 09:00 | Dynamics of seasonal adaptation in <i>Drosophila melanogaster</i> , Emily Behrman | Uncertainty in wildlife monitoring and management, Anne Loosen | Speciation seen through the lens of biomechanics: A multidisciplinary approach using fish locomotion and feeding in marine and freshwater threespine stickleback, Sean Rogers | Strategic planning for urban forestry in Canada: Sharing knowledge and engaging communities across disciplines, Adrina Bardekjian | Strong community structuring of defensive heritable symbionts is shaped by context-dependent transmission rates, Jacob Russell | Exploring the surprisingly finely dissected genomes of the <i>Helianthus</i> hybrid species, Gregory L. Owens | Discovering and archiving the tree of life, Wayne Maddison | |
| 09:15 | Niche conservatism and evolution in fluctuating environments, Robert Holt | Climate and grazing management contribute to uncertainty about carbon storage and sequestration in the Canadian prairies, Cameron Carlyle | Genetic basis of covariation between temperature-associated traits in marine and freshwater threespine stickleback (<i>Gasterosteus aculeatus</i>), Sara J. Smith | Ecological health in Metro Vancouver: Current projects and emerging topics, Marcin Pachcinski | Microbial ecology of seaweed, Matthew Lemay | Comparison of genomic and microsatellite profiles from wolves and coyotes, Astrid V. Stronen | | |
| 09:30 | | The widespread failure of adaptive management in fisheries, Carl Walters | Lab versus wild: Phenotypic covariation in threespine stickleback, Tegan Barry | Whales, bees, forests, and birds: Raising the profile of biodiversity in Vancouver, Angela Danyluk | What's on your skin: New insights into the overall function and variation of skin microbiome in amphibians, David Lesbarreres | Characterizing fitness landscapes in Darwin's finches with a hierarchical model, Marc-Olivier Beausoleil | Climate change, phenology and species interactions: Opportunities and challenges of natural history collections, Heather Kharouba | |
| 09:45 | Natural selection for life histories in seasonal environments, Mark Boyce | | Effects of ecological context on the phenotypic divergence of stickleback ecotypes, Rebecca J. Best | Connecting urban ecology and municipal infrastructure, Michelle Molnar | Understanding the impacts of environmental exposure on gut microbiome diversity and host health using a wild population of deer mice..., Elliot Schmidt | Environmental marginality and range limits in <i>Arabidopsis lyrata</i> , Julie Lee-Yaw | | |
| Coffee Break 10:00 - 10:30 | | | | | | | | |

| Mon | | | | | | | |
|--|---|--|---|--|---|---|---|
| | CSEE PhD diversity & excellence Research award symposium | Stickleback Salmonid ecology and evolution | NSERC scholarships & fellowships information | Exploring the roles of mechanistic and phenomenological models in ecology symposium | Stress, Antipredator behaviour | Phylogenetics Evolutionary theory | Museum collections symposium |
| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM |
| 10:30 | Introduction | Diet specialization in Threespine stickleback (<i>Gasterosteus aculeatus</i>) in response to lake physical characteristics and the presence of Signal crayfish (<i>Pacifasticus leniusculus</i>), Douglas Curley | Natalie Weiskopf and Kathleen Lorenzo (NSERC scholarship & fellowship officers) | Mechanism and the unknown: Or, how to predict the future, Kim Cuddington | Systemic stress levels in Vancouver Island marmots may correlate to human intervention: Implications for the management of a critically endangered mammal, Madison J. Acker | Chromosome inversions and adaptation to heterogeneous environments in seaweed flies, Claire Merot | Elevation, crypsis, and community structure of neotropical arthropods, Sarah Dolson |
| 10:45 | Altered competition under ocean acidification influences species- but not community-level response to food supply, Norah Brown (UBC) | Eco-evolutionary interactions in stickleback elemental composition, Rana W. El-Sabaawi | | Mechanism versus phenomenology in models of insect outbreak, Greg Dwyer | Maternal stress and predator odour effects on juvenile cuttlefish antipredator responses to ink and alarm cue, Kevin R. Bairos-Novak | The genomic significance of pervasive broad-scale heterogeneity in recombination rate along chromosomes during early population divergence, Marius Roesti | Reconciling phenological observations with flowering records in herbaria, T. Jonathan Davies |
| 11:00 | | Morphological responses of threespine stickleback (<i>Gasterosteus aculeatus</i>) to two non-native predators, Hannah M. Kienzle | | Mechanistic and phenomenological models for animal movement patterns in ecology, Mark Lewis | Effects of local predation pressure on prey fish behaviour and evasion of an invasive predator, Adrienne E. Berchtold | Tracing the footprints of a moving Setophaga warbler hybrid zone, Silu Wang | |
| 11:15 | Leaf bacterial diversity mediates plant diversity-ecosystem function relationships, Isabelle Laforest-Lapointe (University of Montreal) | Determinants of brook charr resource polymorphism in Canadian Shield lakes, Vincent Rainville | | How do different modelling techniques compare to predict species and communities patterns?, Ben Bolker | Investigating the sub-lethal effects of predation in black tailed prairie dogs, Colleen Crill | The effect of ploidy level on the rate and spectrum of new mutations, Nathaniel Sharp | Using museum specimens and other best available data to assess insect conservation status: A lesson from the IUCN Red List bumblebees, Sheila Colla |
| 11:30 | | Ecological drivers of covariance in productivity among Fraser River sockeye salmon conservation units, Cameron Freshwater | | Prediction: What is it, why do we do it and how to do it better, Koryn Bodner | Exploring stress biomarkers in an avian model, Gillian Johnstone | The evolution of constraint as an adaptation, Andrew Simons | |
| 11:45 | Reptile phylogeny and the origin and early radiation of lepidosaurs, Tiago Simões (University of Alberta) | Patterns in salmon dynamics in space and time on the Central Coast of British Columbia, Eric Hertz | | *Linking ecological theory and data* From ecological theory to empirical data, the missing statistical link, F. Guillaume Blanchet | Winter temperature experience affects cognitive responses in black-capped chickadees (<i>Poecile atricapillus</i>), Robert Jeff Martin | The genomics of purging inbreeding depression, Sarah J. Baldwin | The dead keep talking, Leah R. Ramsay |
| | | | | | | | Discussion |
| Lunch 12:00 - 13:30 (on your own) | | | | | | | |

| Mon | | | | | | | |
|-----------------------------------|---|---|--|---|---|---|--|
| | CSEE PhD diversity & excellence Research award symposium | Salmonid ecology and evolution | Conservation challenges associated with aquatic soundscapes symposium | Plant ecology | Policy and planning | Evolutionary theory Selection | Mate choice, hybridization |
| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM |
| 13:30 | Multi-scale responses to warming in an experimental metacommunity, Tess Grainger (University of Toronto) | Glacial recession and salmon futures, Kara Pitman | Marine mammal vocalizations in a changing Arctic soundscape: Impacts of decreased sea ice and increased ship traffic, William Halliday | The inclusion of positive interactions in modeling the niche space of desert annuals, Alessandro Filazzola | Assessing biodiversity response to land-use and climate change in Nova Scotia: A proposed ecosystem framework, Sean Basquill | Evolutionary bargaining games: Ecological and evolutionary stability in a consumer-resource based model of mutualistic interactions, Gordon G. McNickle | |
| 13:45 | | Canada's wild salmon policy: An assessment of conservation progress, Michael H. Price | The effects of anthropogenic and biological noise on fish behavior and physiology: A meta-analysis, Francis Juanes | Population level variation in host plant response to multiple symbionts, James Franklin | Addressing the potential cumulative impacts of land use and climate change on fish and wildlife in northern Ontario, Cheryl Chetkiewicz | The genetic signature of evolutionary rescue with sex, Matthew Osmond | Do mate choice errors slow the spread of the invasive brown spruce longhorn beetle?, Jennifer Anderson |
| 14:00 | Looking through the bottleneck: Genomic analysis of historical and contemporary population genetic variation in the Pinzon Island Galapagos tortoise, Evelyn Jensen (UBC-O) | Long-term shifts in the phenology of juvenile salmon migration across species and location, Jonathan Moore | Motorboat noise disrupts co-operative interspecific interactions, Isabelle Côté | Fungal bio-fertilizers can affect local plant communities, Vasileios Kokkoris | Freshwater conservation planning in an intact landscape, Brie Edwards | Life history trade-offs, sexual conflict, and the maintenance of variation in <i>Drosophila melanogaster</i> , Devin Arbuthnott | Female preference for alternative male morphs in the Kribensis cichlid (<i>Pelvicachromis pulcher</i>), Peter Hurd |
| 14:15 | | Experimental and natural nutrient subsidies alter steelhead life history, Colin J. Bailey | Tracking marine mammals in the presence of human induced ocean noise, Ben Hendricks | Mast seeding patterns in five North American conifer genera (1912-2014), Jalene LaMontagne | Phylogenetic patterns of amphibian community disassembly from concurrent land-use change and climate, Dan Greenberg | Variation in symbiont preference drives symbiont evolution, Rebecca T. Batstone | Flexible mate choice may regulate gene flow between sympatric pumpkinseed sunfish ecotypes (<i>Lepomis gibbosus</i>), Beren Robinson |
| 14:30 | Congratulations | Genome wide association and signatures of selection studies for sea age in North American Atlantic salmon populations using Next Generation Resequencing and the new North American 50K SNP chip, Elizabeth G. Boulding | Understanding a dolphin's soundscape to assess the potential changes in habitat use, Matt Pine | Can traits predict changes in species abundance?, Julie Messier | Proactive conservation planning for high-value habitats of caribou and grizzly bears in the Muskwa-Kechika Management Area, northeast British Columbia, Nobuya Suzuki | Phenotypic selection on architectural effects in <i>Delphinium glaucum</i> (Ranunculaceae), Ilona Clocher | Rapid evolution of reproductive isolation during speciation: Evidence from <i>Lochmaea capreae</i> leaf beetle, Shaghayegh Soudi |
| 14:45 | *Application in ecology and evolution* Ecology vs. evolution: Comparing applications of research fields, Jeff Bowman | Reduced growth in wild juvenile sockeye salmon infected with sea lice, Sean Godwin | Ambient noise from natural sources and shipping in the western Canadian Arctic, Stephen Insley | Drivers of variation in the sugar maple (<i>Acer saccharum</i>) leaf and root microbiome along environmental gradients, Steven Kembel | | Survival by genotype: Patterns at Mc1r are not black and white at the White Sands ecotone, Simone Des Roches | Sexual conflict can constrain the evolution of reinforcement, Alison Wardlaw |
| Coffee Break 15:00 - 15:30 | | | | | | | |

| Mon | Social systems | Salmonid ecology and evolution | Ecology of Plant-Herbivore Interactions in Cold Places | Plastics in the environment | Policy and planning | Evolution Communication | Reproductive ecology and behaviour |
|-----------------------------------|--|--|--|--|---|---|--|
| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM |
| 15:30 | Exploring the evolution of eusociality in a primitively eusocial paper wasp using population genomics, Kathleen Dogantzis | Fishing for sympatry: Historical and contemporary neutral processes shaping Arctic char (<i>Salvelinus alpinus</i>) in Labrador, Canada, Sarah Salisbury | *Conservation* Marine vessel movements: Mitigation of noise through data collection, strategic planning, and management support, Rosaline Canessa | Plastic pollution in the total environment: A review of marine plastic contamination in Newfoundland and Labrador, Canada, Justine Ammendolia | Taking the path of least resistance: how conservation science got left behind in the design of the largest Canadian marine protected area, Rodolphe Devillers | Multilevel and sex-specific selection on competitive traits in North American red squirrels, David Fisher | Identifying correlates of captive breeding success in amphibians, Alannah Biega |
| 15:45 | Competitive interactions and the mechanisms behind negative frequency-dependent selection on aggression, Julia Kilgour | Dietary thiaminase and its effects on reproductive traits in three populations of Atlantic salmon, Kimberly T. Mitchell | The chemical arms race between hungry herbivores and clever plants, Jennifer Forbey | Microplastic ingestion by <i>Venerupis philippinarum</i> and <i>Crassostrea gigas</i> on intertidal shellfish farms and 'wild' beaches in BC, Canada, Garth A. Covernton | Timing of protection of critical habitat matters, Tara G. Martin | Is the experimental evolution of wild red squirrels repeatable?, Andrew G. McAdam | Parent-offspring cannibalism in the plainfin midshipman fish, Aneesh P. H. Bose |
| 16:00 | The effect of individual variation of sociality on reproductive success and body condition in a Canadian population of black-tailed prairie dogs, Jillian M. Kusch | Environmental pathogen transmission between farmed and wild salmon populations, Dylan Shea | Grazing Arctic tundra: Plant to ecosystem responses, Greg Henry | Determining the efficacy of depurating microplastics from Pacific oysters (<i>Crassostrea gigas</i>) , Maggie M. Dietterle | Redefining ecological integrity by decoupling energy capture and conversion, Charles Martin | Assignment methods tailored for RADseq data in conservation genomics, Thierry Gosselin | Repeatability and reproductive consequences of boldness in female grey seals, David Coltman |
| 16:15 | Nest-site competition and the socioecology of reproduction in eastern carpenter bees, Miriam Richards | A test of parallelism in the axes of morphological divergence in Icelandic arctic char (<i>Salvelinus alpinus</i>), Matthew Brachmann | Effects of resource manipulation on temperate grassland vegetation under a changing climate, John Serafini | Influence of subtidal and intertidal shellfish farming on microplastic contamination in cultured Pacific oysters (<i>Crassostrea gigas</i>) from British Columbia, Matthew R. Miller | The effect of target setting on conservation in Canada's boreal: What is the right amount of area to protect?, Darren J.H. Sleep | The quantifiable value of outreach to herpetofaunal conservation, Sean P. Boyle | More reasons why picking the right spatial scale is so #@&! hard, Andrew D. Moraga |
| 16:30 | Effects of neighbour familiarity on intrusion risk and behavioural time budgets in a territorial squirrel (<i>Tamiasciurus hudsonicus</i>), Erin Siracusa | Population genetics of Athabasca River Basin bull trout (<i>Salvelinus confluentus</i>), Emma K. Carroll | Climate and land use inform range expansion of a large boreal herbivore in a novel agro-ecosystem, Michel P. Laforge | Evaluating contaminants associated with plastic ingestion in an Arctic seabird, Jennifer Provencher | Global Human Footprint project, Oscar Venter | What does the tweet say: The use of social media for science communication, Alina Fisher | Spatial autocorrelation of white-throated sparrow song variation at the neighbourhood scale, Scott M. Ramsay |
| 16:45 | How did egg-laying and work behaviours decouple from solitary antecedents to eusocial castes?, David N. Awde | Intraspecific resource competition and phenotypic selection in polymorphic Arctic char (<i>Salvelinus alpinus</i>), Oliver Franklin | The role of bison as ecosystem engineers in the aspen parkland, Peter Tarleton | Plastics and other anthropogenic debris in freshwater birds from Canada, Dave Shutler | Prioritizing management actions when data is scarce and systems are complex, Laura Kehoe | Media and storytelling as a tool for science communication, Josh Silberg | The causes and consequences of the variability in incubation behaviour in tree swallows (<i>Tachycineta bicolor</i>), Nghia Tran |
| | | | Reconstructing habitat change at a multi-species goose breeding area, East Bay, Southampton Island, Nunavut, Peter Kotanen | | | | |
| | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | | | |
| 18:00 – 20:30 | Anne Salomon, Public Lecture Adapting to Surprise in Our Coastal Oceans: Lessons from Kelp Forests, Ancient Clam Gardens and Pacific Herring | | | | | | |

Poster Session A: Monday 16:00 - 18:15

| Tue | | | | | | | | | | |
|-----------------------------------|--|---|---|--|--|--|--|--|---|--|
| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM | level 2: Sidney | level 2: Colwood | level 2: View Royal |
| | Remote camera networks to scale up ecological insights and conservation applications symposium | The tension between science and advocacy in ecology, evolution, and conservation biology symposium | Ecological epigenetics symposium Bird Migration | Metacommunity theory for real-world communities: theoretical and empirical advances for trophic metacommunities symposium | Population dynamics | Life histories: phenology, sex, sex ratio | Complex coevolution: understanding how coevolution may operate differently across diverse interaction types, systems, and scales symposium | Consequences of Rapid Ecological Change in Mountain Ecosystems Symposium | Ecology & Evolution in Biodiversity a Social Context Symposium | |
| 08:00 | Promise and pitfalls of scaling up ecological insights using remote cameras, Cole Burton | Safeguarding scientific credibility in ecology and conservation biology, Mark Vellend | Why so bitter? The epigenetics of flavour and aroma in hops., Linda Rutledge | Current advances and future challenges of reconciling the horizontal metacommunity with a vertical world, Coreen Forbes | Eco-evolutionary dynamics in a contemporary human population, Patrick Bergeron | Differences in early life history traits between sexual and asexual Easter daisies favor the establishment of asexuals , Evan Hersh | Pollen specialization by bees and pollen protection by plants: is there an arms race?, Jessica Forrest | A century of ecosystem change in the Canadian Rocky Mountains, Andrew Trant | Selection on colony foraging aggressiveness favors social susceptibility in social spiders, Jonathan Pruitt | A multi-method comparison of substratum community assessment techniques and the implications for diversity indices a..., Kieran D. Cox |
| 08:15 | Landscape and climate change: Ecological insights from camera-trap research, Jason T Fisher | Getting out of the ivory tower: Informing policies for reforestation, conservation and climate change, Sally Aitken | Genetic and epigenetic response to the Deepwater Horizon oil spill in <i>S. alterniflora</i> , Marta Robinson | A general framework for trophic metacommunity ecology, Laura Melissa Guzman | Are populations of migratory tree-roosting bats declining?, Erin Baerwald | Diet-dependent sex ratios in <i>Tigriopus californicus</i> : Evidence for ESD in a system with stable PSD, Erin Hornell | Evolution and specificity in an insect defensive symbiosis, Steve Perlman | The conservation value of mountain environments to birds in North America, Kathy Martin | Social structure modulates the evolutionary consequences of social plasticity: A social network pers..., Pierre-Olivier Montiglio | Functional diversity in fragments: The joint effects of ecological drift and deterministic responses, Leila Forsyth |
| 08:30 | Trophic traps: Inferring species relationships from camera trap imagery, Adam Ford | | Mercury rising: Epigenetic response to mercury exposure in songbirds, Kristin Brzeski | Simple rules for complex spatial food web dynamics, Dominique Gravel | Meta-analyses reveal the world is truly chaotic: How did humans succeed in such a place?, Nicholas C. Collins | The effects of climate change on sex determination and growing time in a northern population of snapping turtles, Melanie Massey | Sanctions, partner recognition, and variation in mutualism, Jeremy Yoder | Spatial genetic structure of Alberta's bighorn sheep: Population resilience and implications for harvest management, Jamie Gorrell | Social relationships shape vocal interactions of male Black-capped Chickadees at dawn, Dr. Jenn Foote | Measuring diversity using entropy (Shannon), covariance (Simpson), and independence (linkage disequilibrium), Root Gorelick |
| 08:45 | A new Automated Behavioural Response system to integrate playback experiments into camera trap studies, Liana Zanette | Scientific integrity and contributions to policy: Seeing the limits, Jeremy Kerr | Ants and plants: Epigenetic responses to multiple mutualist partners, Rebecca Kartzinel | Embracing variability: Food webs in space and time, Kevin McCann | Climate change effects on the predator-prey relationship between polar bears and common eider seaducks, Cody Dey | Decomposing direct and indirect effects of early-life environment on fitness of bighorn ewes, Gabriel Pigeon | Coevolution's ups and downs: A long-term study of sex in a natural population, Amanda Gibson | Are coastal mountains responding to climate change differently?, Luise Hermanutz | Ecological variation, mate sharing, and the potential for sperm competition in Wellington tree weta, Dr. Tina Wey | Using environmental DNA to monitor winter aquatic biodiversity, Jori B. Harrison |
| 09:00 | A comparison of multiple spatial capture-recapture models for estimating carnivore densities using field data, Joanna Burgar | | Epigenetic changes in natural populations: Its role in the demography of cyclic mammals, Rudy Boonstra | Cascading effects of spatial structure across trophic levels, Rachel Germain | The strength of density-dependence in mountain ungulates varies over time, Marco Festa-Bianchet | The role of coding trinucleotide repeats within candidate genes in the adaptation of an iconic northern mammal, Canada lynx (<i>Lynx canadensis</i>), Melanie Prentice | Co-evolution across the spectrum of host/microbiota integration, Laura Parfrey | Where fast is slow: Experimental effects of changing soil temperature and nutrients on a subarctic, alpine plant community, Jill Johnstone | Root behavioral responses to nutrients and neighbors, Dr. J.C. Cahill | Diversity productivity relationships across scale, Eric G. Lamb |
| 09:15 | Camera trap surveys to inform management decision making, Angela Fuller | The distinction between advice and advocacy in science, Jeff Hutchings | Sex differences in migratory restlessness of black-throated blue warblers during spring migration, Jessica Deakin | Ecological drift across trophic levels: Consequences for metacommunities, Denon Start | Why most studied populations should decline, Stephen Heard | Shifting birthdates in bighorn sheep: Can individuals track changes in local weather?, Limolou-Amélie Renaud | The role of coevolution in the assembly and disassembly of mutualistic communities, Scott Nuismer | Whitebark pine on the edge? Abiotic and biotic drivers interact to limit species range, Alana Clason | Gene-environment interplay in behavior and evolution: lessons from <i>Drosophila melanogaster</i> , Dr. Julia Saltz | Preserving phylogenetic diversity can be a poor strategy for preserving functional diversity, Florent Mazel |
| 09:30 | Advancing field conservation by developing new camera trap methods and collaborations in the Pacific Northwest, Robert Long | | Stopover timing and refueling in relation to migration distance and sex in Wilson's warbler, Yolanda E. Morbey | Coupled spatial-trophic dynamics in bromeliad food webs, Diane Srivastava | What causes cyclical population dynamics? The roles of disease and fecundity in the western tent caterpillar, Paul MacDonald | Lack of diapause in aphid parasitoids from mild winter areas: Ecological and evolutionary insights, Kévin Tougeron | Cooperation, conflict, and coevolution, Megan Frederickson | Canada's mountain ecosystems: Towards a better integration of biotic and abiotic drivers of rapid change, David Hik | | Are the most evolutionary distinct species the most original?, Vahab Pourfaraj |
| 09:45 | Monitoring large-scale trends in wildlife populations using remote cameras, Jesse Whittington | Conservation of peripheral populations illustrate the tension between advice and advocacy in the absence of scientific consensus, Jeannette Whitton | Large variation in migration routes of hybrid flycatchers, Thor Veen | *Grassland trophic cascades* Songbirds and small mammals cause trophic cascades in montane grassland ecosystems, William Harrower | Population dynamics of the adopted migrant life history in fish, Luke A. Rogers | | *Bacterial Symbiosis* Diversity and nutritional mutualism of Wolbachia in Bat flies (<i>Streblidae</i> , <i>Nycteribiidae</i>), Haewon Shin | Drivers of post-fire understory regeneration in the conifer dominated boreal forest of southern Northwest Territories, Alison White | Discussion | Diversity-stability hypothesis: Are we looking at the right scale?, Guillaume Rheault |
| Coffee Break 10:00 - 10:30 | | | | | | | | | | |

| Tue | Remote camera networks Mammalian movement and activity | Pollution | Pollination systems | Seagrass ecology and conservation along Pacific and Atlantic coasts symposium | Life histories: reproduction, senescence | Animal diet | Life On the Edge: Mechanisms of Adapting to Climate Change Symposium | Foraging | Genetic structure of populations | Biodiversity |
|--|---|--|--|---|---|---|--|---|---|---|
| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM | level 2: Sidney | level 2: Colwood | level 2: View Royal |
| 10:30 | Flying cameras: Promises and pitfalls of drones for wildlife ecology, Sophie Gilbert | Wildlife health indicators and mercury exposure: A case study of river otters (<i>Lontra canadensis</i>) in central British Columbia, Canada, Shannon M. Crowley | Understanding multiyear variability in the yield of pollinator dependent highbush blueberry (<i>Vaccinium corymbosum</i>), Kyle Bobiwash | Secondary production of macrobenthic communities in seagrass (<i>Zostera marina</i> , eelgrass) beds and bare soft-sediments across differing environmental conditions in Atlantic Canada, Melisa Wong | Post-reproductive lifespan and grandmothering in a pre-industrial human population, Sacha C. Engelhardt | Untangling aquatic food webs using DNA and text-mining, Zacchaeus G. Compson | Evolutionary traps: A role for niche conservatism in limiting species' responses to global change, Jeremy Kerr | Habitat-mediated predation and selective consumption of spawning salmon by bears, Luke Andersson | A resistance mapping approach to assess landscape effects on genetics and dispersal of the Rocky Mountain Apollo butterfly, Helen Chen | Decoupling habitat fragmentation from habitat loss: Butterfly assemblages on lake islands support the habitat amount hypothesis, Zachary G. MacDonald |
| 10:45 | Fish on film in the temperate deep: An underwater method comparison, Lily Burke | Oil sands and the marine environment: Current knowledge and future challenges, Stephanie J. Green | Pollinator-mediated facilitation explains asymmetric rarity advantages in experimental plant communities, Katie Brown | Seascape connectivity effects on the nursery value of temperate seagrass ecosystems, Angeleen Olson | Variation in the timing and magnitude of peak reproductive effort affects rate of senescence, Anni Hämäläinen | A century of ecological change reflected in the stable isotopes of a migratory aerial insectivore, Philina English | Demographic compensation and climatic tipping points in monkeyflowers, Amy Angert | Does access to anthropogenic food subsidies affect glucose metabolism of raccoons?, Albrecht Schulte-Hostedde | Population genomics of white-tailed deer (<i>Odocoileus virginianus</i>) introduced on Anticosti Island, Jérémie Fuller | Competing taxa suppress each other's diversity, Abdel Halloway |
| 11:00 | Camera trapping for pollinators: Using time-lapse cameras on a flower lure to index pollinators in fragmented boreal forests, Federico Riva | Parasitic infection: A missing piece of the ocean acidification puzzle, Colin D. MacLeod | Pollinator-mediated impacts of alien plants on natives: New data provide new insights, Julia Charlebois | Evaluating the seasonal use of estuarine habitats by juvenile salmon and resident fish communities, Lia Chalifour | Morphological changes in offspring associated with parental senescence, Robert Laird | DNA metabarcoding reveals the broad and flexible diet of a declining aerial insectivore, Beverly McClenaghan | Tundra plant responses to experimental warming and snowmelt timing, Esther Frei | Behaviour of animals in wild populations within urban vs suburban habitats, Jesse Hacker | The effect of landscape on genetic differentiation in western Alberta populations of the alpine butterfly <i>Parnassius smintheus</i> , Melissa Lucas | Effects of disturbance and environmental factors on plant communities at freshwater springs, Kayleigh G. Nielson |
| 11:15 | Carnivore activity patterns in relation to landscape development and competitor co-occurrence, Sandra Frey | Impacts of industrial noise on owl occupancy and seasonal use in the boreal forest, Julia Shonfield | Clonal growth increases outcross mating opportunities, Marcel E. Dorken | Seagrass genetic diversity enhances production at multiple life history stages, Randall Hughes | Effects of urbanization on fish life history traits: Lessons from guppies, Piata Marques | Stable isotopes and fatty acids reveal freshwater aquatic prey in the diet of wolves, Sean A. O'Donovan | Coral symbiosis and survival during the 2015/2016 El Niño event, Danielle Claar | Applying the functional response framework to human-pest interactions, Mélodie Kunegel-Lion | Population genetics and invasion history of the invasive European fire ant, <i>Myrmica rubra</i> , in Toronto, Ontario, Canada, Shannon A. Meadley Dunphy | Using plant traits to understand plant-soil feedback in temperate forests, Jonathan A. Bennett |
| 11:30 | Camera traps tell us where animals live, but more so, where animals move, Frances Stewart | Inferring growth dilution from latitudinal variation in fish growth and mercury bioaccumulation, Shyam Thomas | Pollinator-dependent invasive species impacts on network structure and community traits, Sandra Gillespie | Turning up the heat on seagrass wasting disease, Morgan Eisenlord | Does habitat selection constrain adaptive life-histories?, Douglas W. Morris | A temporal shift in prey species availability decreases trophic diversity in community structure among a predator assemblage in a changing Arctic, David J. Yurkowski | Preserving adaptive capacity under intensifying ocean acidification, Terrie Klinger | Predator functional responses: Breathing new life into old theory, Dennis Murray | Ancient diversification in glacial refugia leads to intraspecific diversity in caribou, Jean L. Polfus | Local plant diversity responses to temperature and water availability: Synthesizing evidence from experimental data, Véronique Boucher Lalonde |
| 11:45 | Spatially explicit density estimation in a large-scale grizzly bear study using spatial capture-recapture models, Andy J. Royle | Calcified herbivore loss may disproportionately drive responses to ocean acidification in natural communities. Kathryn M. Anderson | Global trends in pollinator community diversity and composition in response to interactive climate and land-use changes, Peter Soroye | Effects of multiple disturbances/stresses on eelgrass epifaunal communities, Mathieu Cusson | Hunting promotes slow life histories in brown bears, Joanie Van de Walle | Vertebrate-wide scaling of metabolic rate and respiratory surface area, Jennifer S. Bigman | Transcriptomic variability in population responses of Atlantic cod to temperature, Rebekah Oomen | Has predator management neglected to consider the impact of ecology on predator behaviour?, Kyle Plotsky | Genomic insights into local adaptations in <i>Ovibos moschatus</i> , Erin Prewer | Patterns of plant succession and scale of observation in an extreme environment, Katriina O'Kane |
| | | | | | | | | | Tremendous genetic drift and accumulation of deleterious mutations may not preclude thermal adaptation in lake trout, Anne-Laure Ferchaud | Assessing birds and lichen as indicators of biodiversity in a managed subboreal watershed in British Columbia, Kerrith McKay |
| Lunch 12:00 - 13:30 (on your own) | | | | | | | | | | |

| <p>Tue Living in the eco-evolutionary theatre: research guided and inspired by intensive field observations symposium</p> <p>Canadian protected areas in a changing climate: A cross-ecosystem approach symposium</p> <p>Species interactions in a warming world symposium</p> <p>Marine ecology</p> <p>Ecological, evolutionary and environmental synthesis in the 21st century symposium</p> <p>Community ecology</p> <p>Forest ecology</p> <p>Parasitism and symbiosis</p> <p>Genetic structure of populations</p> <p>Aquatic ecology</p> | | | | | | | | | | |
|---|--|---|---|--|--|---|--|--|---|--|
| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM | level 2: Sidney | level 2: Colwood | level 2: View Royal |
| 13:30 | Variation of lateral plate phenotypes in threespine stickleback fish: Adaptation, developmental constraint, or both, Mike Bell | Integrating static and dynamic spatial management for biodiversity persistence under climate change, Shawn Leroux | Shifts in insect development rate alter phenological overlap and community interactions, Lauren Buckley | Biotic homogenization of seagrass fishes associated with coastal anthropogenic activities, Josephine Iacarella | Ecological, evolutionary and environmental synthesis in the 21st Century , Stephanie Hampton | Population responses of rodent species to agriculture on the Great Plains of Canada, Leanne Heisler | The role of disturbance on treeline establishment and range expansion from a seed's perspective, Lucas Brehaut | Describing the cophylogenetic relationship between the <i>Myrsidea</i> chewing louse and its Neotropical <i>Mionectes</i> flycatcher host, Andrew Cook | Fine-scale genome-wide analysis of spawning herring (<i>Clupea harengus</i>) populations in the Northwest Atlantic, Angela P. Fuentes-Pardo | Weak correlation between assemblages of non-biting midges (Diptera: Chironomidae) and environmental factors in wetlands in Alberta, Canada , Heather Proctor |
| 13:45 | | Protected areas: How to design resilient networks using connectivity, Christopher Blackford | Dispersal governs the reorganization of ecological networks under environmental change, Patrick Thompson | Identifying human impacts on eelgrass faunal biodiversity in Barkley Sound, Vancouver Island, Emily Adamczyk | | Forest fragmentation differentially affects the movement behavior of the main pollinator and seed disperser of a tropical understory herb, Luis A. Arias-Medellin | From rares to richness: Spectrums of plant rarity and diversity in the boreal forest, Varina Crisfield | Alternative management of <i>Varroa</i> destructor mites using their odour responses, Allie Flinn | Geographic variation in the genetic structure of a mussel hybrid zone, David J. Innes | How Pacific salmon shape streams and riparian forests: Implications for ecosystem-based management, Jessica C. Walsh |
| 14:00 | The evolution of interspecific interactions, Dolph Schluter | Responses of marine habitat-forming organisms to climate change: conserving the stage when the players build the set, Jennifer Sunday | Temperature dependency of consumptive dynamics and dispersal structure local and regional coexistence, Benjamin Gilbert | Benefits and challenges of UAV mapping for seagrass ecology and conservation, Natasha Nahimick | Maladaptation, Steven Brady | Testing for variation in competition importance and intensity among old-field plant species, Brandon Schamp | Intact forest landscapes: Definitions, use, and clarity. Kate Edwards | Host allometry influences the evolution of parasite host-generalism, Amy L. Hurford | Landscape community genomics in the mountain pine beetle outbreak system, Patrick James | Diversity meets decomposition: Are local decomposer communities influenced by local riparian conditions?, Natalie Westwood |
| 14:15 | A gillnet fishery considered as an experiment in artificial selection, Graham Bell | Integrating climate risk and refuge into data-driven portfolios of protected areas, Emily Darling | Identifying gaps and priorities in understanding climate change impacts on food webs, Erin Cameron | Preferred prey hotspots for juvenile salmon in the Skeena estuary, Michael Arbeider | Cross-scale resilience from theory to practice: Results from a synthesis collaboration, Shana Sundstrom | Relative importance of colonist quantity, quality, and arrival frequency to the extinction of two zooplankton species, James S. Sinclair | Vegetation dynamics in SpaDES: The recoded LANDIS-II biomass succession model, Yong Luo | Fine-scale spatial correlations of parasite prevalence with final-host abundance and waterbody age in a waterfowl- <i>Gammarus</i> -acanthocephalan system, Zhuoyan Song | Genetic structure of rhinoceros auklet populations throughout the North Pacific, Marie Prill | National and regional scale patterns of benthic insect beta-diversity in Canadian rivers, Colin J. Curry |
| 14:30 | Adaptive Polymorphism in Flatfishes, Carolyn Bergstrom | Planning for Neo-tropical migratory bird conservation under climate change, Ilona Naujokaitis-Lewis | Dynamics at the warm edge: Species interactions vs. species distributions, Anna Hargreaves | Migratory salmon usage of estuary nursery habitat, Ciara E. Sharpe | Evolutionary rescue comes of age: An account of the growth in our understanding through theory and experiments, Andrew Gonzalez | What is the nature of the interaction between a flower weevil and a leaf beetle, two biocontrol agents of purple loosestrife: Competitive, complementary, or neutral?, Marina Torreblanca | Host mycorrhizal association and soil fertility Influence plant-soil feedback in a Diptercarp rainforest, Max Segnitz | Adaptive genetic variation at salivary protein genes in blood-feeding generalist ectoparasites, Benoit Talbot | Fine-scale genetic structure and effective size of an isolated and endangered population of woodland caribou, Geneviève Turgeon | Factors affecting decomposers and decomposition dynamics differ in boreal peatlands, Carlos Barreto |
| 14:45 | | Discussion | Biotic and abiotic constraints on treelines globally, Carissa Brown | Effects of shellfish farming on invertebrate and finfish communities, Sarah Dudas | Integrating community assembly into biodiversity-ecosystem function relationships: The CAFE approach, Katherine H. Bannar-Martin | Harnessing ecological networks to understand anticancer immunity in the tumor microenvironment, Phineas Hamilton | Evaluating differences in plant community composition and stand structure caused by road fragmentation in forested wetlands, Caitlin Willier | Inherited <i>Spiroplasma</i> symbionts are common in the ant genus <i>Myrmica</i> , Matthew J. Ballinger | Assessing genetic structure in subalpine larch (<i>Larix lyallii</i>), a high-elevation deciduous conifer species, Marie C. Vance | Drought causes shift in functional role of aquatic macroinvertebrate from shredder to predator, Sarah Amundrud |
| Coffee Break 15:00 - 15:30 | | | | | | | | | | |

Tue Living in the eco-evolutionary theatre: research guided and inspired by intensive field observations symposium

Anthropogenic influences on habitat selection

Species interactions in a warming world symposium | Effects of climate change

Coral reef ecology

Ecological, evolutionary and environmental synthesis in the 21st century symposium

Landscapes

Forest ecology | Fish ecology

Marine ecology

Genetic structure of populations

Invasive species

| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM | level 2: Sidney | level 2: Colwood | level 2: View Royal |
|--------------|---|--|---|---|---|--|---|---|--|--|
| 15:30 | Spawning Pacific herring: ecological consequences and insights into the past, Caroline Fox | Anthropogenic disturbance affects energetic trade-offs with predation risk in white-tailed deer (<i>Odocoileus virginianus</i>), Siobhan Darlington | *Species interactions in a warming world* Functional trait distance predicts carbon flux shifts across a globally replicated removal experiment in mountains, Chelsea Chisholm | A methodology for evaluating the resilience of ecosystem services: A coral reef case study, Bruno Carturan | Dynamics of collapse and recovery in a marine community: insights from multivariate dynamic statistical approaches, Eric Pedersen | Building a continuous adaptive management system in SpaDES: Using historical landscape variation for the LandWeb project, Eliot McIntire | Should I stay or should I go? Range stasis versus range shifts of plants in the North Cascades, Rachel Wilson | The value of ancient habitat modifications: Macrofaunal communities of First Nations' clam gardens, Morgan Black | Immune gene functional heterozygosity affects survival in caribou, Marianne Gagnon | How do mountain pine beetle attacks impact understory vegetation in lodgepole pine forests in a novel area in west-central Alberta?, Julie Steinke |
| 15:45 | | Human activity at oil and gas well sites influences avoidance response and habitat use by caribou, Doug MacNearney | The impacts of climate change on fungal communities in boreal peatlands, Asma Asemaninejad | Fish movement drives spatial and temporal patterns of nitrogen availability on coral reefs, Fiona T. Francis | Making ecosystem science matter: Stakeholder-engaged research through co-design and integ..., Roxane Maranger | Rapid evolution accelerates the expansion of plant populations in fragmented experimental landscapes., Jennifer Williams | Determining abundance of forage lichens for boreal woodland caribou in a fire-prone region of the Boreal Shield Ecozone, Ruth J. Greuel | Global marine protected areas to prevent extinctions, Lindsay N. K. Davidson | Genomic patterns of parallel ecological speciation in <i>Littorina saxatilis</i> ecotype pairs, Tony Kess | New house, new rules: Life-history strategies can enhance invasion success of introduced species, Danielle Denley |
| 16:00 | Emergent properties from a fledgling project with long-term vision: Bear-salmon-human systems in coastal British Columbia, Chris Darimont | Habitat heterogeneity and functional responses explain seasonal and behaviour-based selection of regenerating seismic lines for a social predator, Karine Pigeon | Spatial and temporal patterns of bobcat and lynx distributions in British Columbia, TJ Gooliaff | Quantifying changes in the 3D structural complexity of coral reefs around Kiritimati following El Niño-induced mass coral bleaching, Jennifer M. T. Magel | Integrating stress ecology to illuminate biodiversity-ecosystem function research, Donald Baird | | Are plants able to utilize nitrogen released from thawing permafrost? Implications for feedbacks with the climate system, Lucas J. Albano | If you cease it, will they come back? How exposure to and release from a pollution disturbance shapes rocky intertidal communities in British Columbia, Aaron M. Eger | Sharp reduction in genetic diversity of the coastal tailed frog (<i>Ascaphus truei</i>): A phylogeographic study using multiple methods, Cherie Mosher | Comparative genomics of historic marine invaders: Neutral and selective processes influencing the success of the amphipod <i>Corophium volutator</i> and polychaete <i>Hediste...</i> , Anthony Einfeldt |
| 16:15 | Are camouflaged flounder hiding from predators or prey?, John Taylor | Large mammal responses to seismic line restoration, Erin Tattersall | Fasting season length determines temporal limits for global polar bear persistence, Péter Molnár | The unseen world of coral reefs: Impacts of local and global stressors on the coral microbiome, Jamie McDevitt-Irwin | The ultimate challenge: Synthesizing theory and data to understand ecological change, Mary O'Connor | | A novel approach to estimating fish densities using underwater cameras, Rowshyra Castañeda | Variation in intimacy between sea stars and their associated bacteria, Andrew Loudon | Genetic rescue of a wild population of bighorn sheep, Marc-Antoine Poirier | Using geographically weighted logistic regression to evaluate invasive species presence in the Adirondack Park Region, USA, Jelena Grbic |
| 16:30 | Stability and change in the evolutionary dynamics of color-pattern loci, Patrik Nosil | Patch occupancy of two boreal mammals in response to salvage logging, Julie Thomas | Loss of early-winter snow threatens alpine butterfly populations, Jens Roland | Redundancy in system-indicators reveals exploitation impacts in coral reef fisheries, James Robinson | | | Lowering the detection threshold: eDNA detection of low density juvenile salmon in a controlled experiment, Jeffrey C. MacAdams | Taxonomic turnover across salinity gradients, Melissa Chen | Analyses of American mink (<i>Neovison vison</i>) haplotypes in Ontario and Nova Scotia, Krista Shofstall | Non-native freshwater macroinvertebrates have density- and resource-dependent effects on ecosystem functioning, Chelsea J. Little |
| 16:45 | The architecture of adaptation: A master mutation or a mass of mutations?, Catherine Peichel | Understanding predation and energy limitations on woodland caribou recruitment through habitat selection, Rebecca Viejou | Effects of gene flow on performance at the northern range margin of <i>Clarkia pulchella</i> , Megan Gene Bontrager | | | | Sockeye it to me! Landscape controls on population carrying capacity in data limited populations, William I. Atlas | Emergent consumption and ecosystem impacts of invasive Chinook salmon in Patagonia, Nicolas Munoz | Exploring the genetic basis of autoimmune disease through the differential expression of foxp3 in zebrafish (<i>Danio rerio</i>) follow..., Russell Easy | The diversity-invasibility relationship: Does spatial scale really explain the invasion paradox?, Nicola S. Smith |

Poster Session B: Tuesday 16:00 - 18:15

17:15 A decade of spatial variation in Darwin's finches, Andrew Hendry

17:30 Fishing for the secrets of evolutionary change in vertebrates, David Kingsley

18:00 - 20:00 Oak Bay:
CTSWS Annual General Meeting

19:00 - 22:00 Garricks Head pub
Strategies for success: Student and postdoc workshop series

18:00

| Wed Using experimental evolution to reveal the eco-evolutionary impacts of global change symposium | | | | | | | | |
|---|--|---|---|--|---|--|---|---|
| Room: Theatre | | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM | |
| 08:00 | Evolutionary rescue comes of age: An account of the growth in our understanding through theory and experiments, Andrew Gonzalez | NSERC Update John Reynolds, Opening the Black Box of NSERC's Discovery Grant Evaluations | Marine visual ecology: Insights from flatfish and decapod shrimp, Tom Iwanicki | Evaluating a movement-based method for inferring calving and calf survival, Maegwin Bonar | Evaluating habitat specialization of North American birds using a spatial null model, Carmen Chelick | Responses of boreal forests to warming-induced permafrost thaw, Jennifer Baltzer | Watershed connections in environmental decision-making, Jonathan Moore | |
| 08:15 | Fisheries-induced evolution: Insights from experimental populations of guppies, Beatriz Diaz Pauli | | Visual ecology of the starry flounder, Ilaria Savelli | Natural regeneration on seismic lines influences movement behaviour of wolves and grizzly bears, Laura Finnegan | First assessment of hybrid poplar plantations as a suitable habitat for small mammal species in Quebec, Justine Fontaine-Topaloff | Influence of moisture and nutrient availability on <i>Alnus viridis</i> function across topographic gradients on the low arctic tundra, NWT, Katherine Black | Burden of proof, standard of proof: Revealing the chasm between science and law, Lynda Collins | |
| 08:30 | An experimental test of the effects of rapid evolution on species coexistence in the field, Martin Turcotte | | Reconstructing ancient whale rhodopsin: Dim-light vision over a major evolutionary transition, Sarah Dungan | Scale dependent behavioral responses of snowshoe hare in western conifer forests post-fire, Jenna Hutchen | House Hunters: Petrel edition, Rielle Hoeg | Preliminary results and predictions from a beyond-range field planting experiment of four northern temperate tree species in Newfoundland, Piers Evans | | |
| 08:45 | Experimental evolution in the wild using long-term ecological experiments to study the evolution of mutualism, Jen Lau | | Rapid evolution in silence: Adaptation to the loss of a sexual signal, Marlene Zuk | Where the rubber meets the road: The influence of roads on grizzly bear density, Clayton T. Lamb | Human shields mediate sexual conflict in a top predator, Martin Leclerc | Arctic willow: Probing polar deserts for pockets of nutrients?, Amanda L. Guy | Canada's crossroads for sustainable development and the environment, Aerin Jacob | |
| 09:00 | Ocean change, phenotypic plasticity and assisted evolution, Gloria Massamba N'Siala | | Aggression and the evolution of color signals in stomatopod crustaceans, Megan Porter | Endangered endemic cyprinid minnow exhibits different spatial and temporal patterns to native and invasive species in a perennial desert stream, Carolyn Trombley | Land-use change and species occupancy in tropical bird communities, Leithen M'Gonigle | Impacts of deciduous and coniferous canopies on moss associated N-fixation: Implications for boreal N-cycling, Melanie Jean | How Haida law embraces traditional and scientific knowledge, Terri-Lynn Williams Davidson | |
| 09:15 | Experimental evolution in ecological communities: Predators mediate rapid evolution of herbivores and resources to warming, Michelle Tseng | | | The impact of mountain pine beetle and mountain pine beetle management on caribou and grizzly bear food supply, Barry R. Nobert | Determining factors affecting dragonfly emergence, including a species-at-risk (skillet clubtail: <i>Gomphus ventricosus</i>) in the lower St John river and Grand Lake meadows area, Zoe O'Malley | Plant functional groups, hydrological conditions and climate interact to affect carbon accumulation in peatlands, Terri Lacourse | Watershed connections in environmental decision-making, Jill Weitz | |
| 09:30 | Evolutionary rescue of complex phytoplankton communities exposed to a widespread herbicide, Vincent Fugère | | NSERC Update Brenda MacMurrey, How to apply for a Discovery Grant, and DG results. | | Why are train strikes on grizzly bears increasing in the mountain parks and what can we do about it?, Colleen Cassady St. Clair | Density-dependent habitat selection predicts fitness and abundance of tree lizards (<i>Urosaurus ornatus</i>), James E. Paterson | Boreal peat properties link to plant functional traits of ecosystem engineers, Julia E. Palozzi | Should courts be 'Academies of Science'? Lessons From the misapplication of "Adaptive Management" under the Canadian Environmental Assessment Act, Martin Olszynski |
| 09:45 | Eco-evolutionary simulation models as a way of experimenting evolution, Anna Kuparinen | | | Tracing the origin of migratory pest species European starling (<i>Sturnus vulgaris</i>): Application of geochemical fingerprinting in south central British Columbia, Canada, K C Upama | Characterizing Dakota skipper (<i>Hesperia dacotae</i>) habitat and distribution in southeastern Saskatchewan, Kelsey M. Seidle | Forest understory changes over 30 years following tephra disturbance at Mount St. Helens, Joseph A. Antos | From fishing gears to fish habitat: Canada's fisheries future depends on evidence-based decision-making, Brett Favaro | |

Coffee Break 10:00 - 10:30

| Wed | | | | | | | |
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| Room: | Theatre | Saanich | Oak Bay 1 | Oak Bay 2 | Esquimalt | West Coast | Newcombe RBCM |
| 10:30 | Dispersal limitation, climate change, and practical tools for conservation in intensively used landscapes, Laura E. Coristine | NSERC Update Brenda MacMurrey, How to apply for a Discovery Grant, and DG results. | The at-risk yellow-banded bumblebee (<i>Bombus terricola</i>) shows signs of inbreeding and selection for pathogen resistance: Results from population genomics, Clement F. Kent | Mosquito community ecology and malaria transmission, Amber Gigi Hoi | Hierarchical demography in a cooperative breeder, Andrew Bateman | Burning in SpaDES: Automated parameter estimation for landscape fire models, Steve Cumming | *Linking Environmental Law and Science* Accelerating the creation of effective marine protected areas in Canada: scientific advice and the federal Oceans Act, Linda Nowlan |
| 10:45 | Gene expression associated with dispersal ability under different temperature conditions in the alpine butterfly, <i>Parnassius smintheus</i> , Maryam Jangjoo | | The spatial distribution of central place foraging pollinators in mass-flowering crops, Samuel V. J. Robinson | You're the one: Parasite infectious stages choose the most susceptible host individuals, Janet Koprivnikar | Whole Canadian boreal shield lake food webs flex in response to warming, Timothy J. Bartley | Post-fire soil fungal communities and ecosystem function in Canada's boreal forest, Nicola J. Day | Metabolic performance and fitness-related responses of a tropical freshwater fish (Nile perch; <i>Lates niloticus</i>) to elevated temperatures, Elizabeth Nyboer |
| 11:00 | Dispersive bird species are at greater risk than sedentary species when human-caused landscape change is rapid, Amanda E. Martin | | An approach to the managed relocation of declining North American bumblebee species under climate change, Catherine Sirois-Delisle | Epidemiological dynamics disrupt Red Queen cycles, Ailene MacPherson | River networks dampen long-term hydrological signals of climate change, Kyle Chezik | Changes in soil carbon stock quantity and stability in response to wildfire events in the southern boreal forest, Catherine M. Dieleman | To eat or thermoregulate? Determinants of home range size and density in <i>Sceloporus jarrovi</i> lizards, Lucy D. Patterson |
| 11:15 | Ecology, genetics and conservation units despite gene flow in highly-vagile terrestrial mammals (caribou and wolves), Marco Musiani | When outbreaks collide: Interactions between an invasive beetle and a native defoliator on red spruce, Mallory MacDonnell | Flower depth links tongue length and wing morphology through wing use in a community of prairie bumble bees, Ralph Cartar | Parasitic wasp Sudoku: Field studies of host-parasitoid interactions in an urban forest, Caitlin Mader | Using a space-for-time substitution approach to predict implications of climate change on tropical stream ecosystem function, Therese C. Frauendorf | Assessing the relative utility of mesostigmatid versus oribatid mites as bioindicators of disturbance in forested areas of Alberta, Canada, Matthew Meehan | It's not the heat, it's the humidity: Environmental effects on insect-plant interactions, Mary L. Reid |
| 11:30 | How did the chickadee cross the road? Mapping arboreal connectivity in urban landscapes, Dee L. Patriquin | Agent-based scenario models of invasion and movement of the orchard pest <i>Rhagoletis pomonella</i> (Diptera: Tephritidae) within the southern interior of British Columbia, Brian Muselle | Mass-flowering canola crops: Implications for prairie pollinators, Paul Galpern | The relative contribution of direct and environmental transmission in a host-pathogen avian flu model, May Anne Mata | Thermokarst expansion rates and the effects on long-term soil carbon storage in interior Alaska, Natalie J. Zwanenburg | Effects of wildfires on tree establishment in conifer-dominated boreal forests in southern Northwest Territories, Kirsten Reid | Heat wave intensity exacerbates fitness trade-offs in the splash pool copepod, <i>Tigriopus californicus</i> , Matthew R. Siegle |
| 11:45 | Morphology and gene expression associated with dispersal capability in mountain pine beetle (<i>Dendroctonus ponderosae</i>), Victor Shegelski | When two invasive species meet: Potential interactions between Asian jumping worms and common buckthorn, Carly Ziter | Past floral resources as a predictor of present bee visits to crops, Jessica Guezenn | The importance of dyadic social ties for pathogen dynamics in a gregarious ungulate, Quinn Webber | Temperature dependence of consumer-resource dynamics is constrained by nutrient limitation, Joey R. Bernhardt | Shore morphology and nearshore forest structure on Islands of BCs Central Coast, Wiebe Nijland | Temperature modulation of biological clock gene expression in a reef building coral, Daniel M. Wuitchik |
| Lunch 12:00 - 13:30 (on your own) | | | | | | | |

Wed

Room: Theatre Saanich Oak Bay 1 Oak Bay 2

13:30

PRESIDENT'S INTRO, CSEE

14:00

CSEE Early Career Award Lecture, Emily Darling

14:30

CSEE Early Career Award Lecture, Sean Anderson

Coffee Break 15:00 - 15:30

Room: Theatre Saanich Oak Bay 1 Oak Bay 2

15:30

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17:00

CSEE Annual General Meeting

19:00

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20:30

Banquet

Posters up 08:00 - 18:30 Monday & Tuesday

Poster Session A: Monday 16:00 - 18:15

Poster Session B: Tuesday 16:00 - 18:15