**Lake Forest Park City Council**

**Agenda Cover Sheet**

**Meeting Date 2/24/2022**

**Title** **Resolution 1836/Creating a Climate Committee and Consider Appointments to Climate Committee**

**Item Type**

- ☐ **Work Session**
- ☐ **Proclamation**
- ☐ **Special Presentation**
- ☐ **Public Hearing**
- ☐ **Consent Calendar**
- ☐ **Final Confirmation**
- ☒ **Ordinances & Resolutions**
  - ☐ **Introduction/Referral**
  - ☐ **Council Discussion**
  - ☐ **Action**
- ☒ **Council Discussion/Action**

**Originating Department** Executive

**Contacts:** Phillip Hill, City Administrator

**Legislative History**

- 2020 budget process for the 2021-2022 biennial budget
- 2021 mid-biennial budget process (proviso)
- February 10, 2022, City Council Regular Meeting – Introduction of Resolution creating a Climate Committee & Review of Member Nominees
- February 24, 2022, City Council Regular Meeting – Review of Member Nominees; Adoption of Resolution creating a Climate Committee & Appointment of Members to the Climate Committee

**Attachments:**

1. Resolution 1836
2. Resumes/CV's for Miriam Bertram, Dana Campbell, Jessica Cote & Linda Holman

**Executive Summary**

Attached is the proposed Resolution creating the Climate Committee that reflects the edits discussed by Council at the February 10, 2022 regular meeting. Also attached are the resumes/CV's of four additional Climate Committee nominees for consideration.

The Mayor and Council of the City of Lake Forest Park have long recognized the need to address climate change and supports the efforts of the People for Climate Action Coalition that works with local governments to help achieve King County Cities Climate Collaboration goals. The City has also taken initial steps to lessen its impact on the

environment through a robust tree ordinance, code adoption to allow increased density at Town Center and near transit, City sponsored recycling and composting efforts, installation of LED lighting in City owned facilities, City branded water bottles along with filling stations in city hall, and a model plastics ordinance.

Through the attached resolution, there will be created the City's Climate Committee to consist of ten community members with one position to be filled by either a high school or college student. The committee will meet once per month at 7:00 p.m. on either the first or third Tuesday; or second or third Wednesday of the month. The committee will be supported by a member of staff from the Public Works department, who will have the support of the Planning Department.

## Background

Title 2.22.020 C. of the Lake Forest Park Municipal Code authorizes the creation of "task forces or committees" on a temporary of indefinite basis to deal with a specific policy area or issue. Scopes of work are subject to council approval and the committee will be disbanded when its purpose has been achieved or terminated.

While the attached resolution gives initial direction to the committee, the committee will utilize its time during initial meetings to draft its first "annual work plan" for review and approval by the Council. It is anticipated that department directors will be available during these initial meetings to answer questions of the Committee and clarify current and future plans to address climate change.

## Fiscal & Policy Implications

The Administration anticipates support of the Climate Committee will have minimal fiscal impact as it can be supported by existing staff and needs for materials will be limited.

Recommendations on how the City may address climate change would be made to the Mayor and Council, but any resulting policies and fiscal impacts will be at the discretion of the Legislative body during the biennial budgeting process with the Administration.

## Staff Recommendation

Adopt Resolution 1836 creating the Climate Committee, interview the remaining candidates, and appoint nominated candidates to the newly created committee. Nominated candidates: Julian Andersen, Miriam Bertram, Dana Campbell, Jessica Cote, Tamara Erickson, Linda Holman, Sarah Phillips, Brian Saunders, and Anne Udaloy.

## Legal Review

| Type of Document | Title of Document | Date Reviewed by Legal Counsel |
|---|---|---|
| *Resolution* | RESOLUTION 1836 | *2/18/22 KAP* |

## Finance Review

| Type of Document | Title of Document | Date Reviewed by Finance Director |
|---|---|---|
| *Resolution* | RESOLUTION 1836 | *2/18/2022* |

# ATTACHMENT 1

**RESOLUTION NO. 1836**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LAKE FOREST PARK, WASHINGTON, ESTABLISHING A CLIMATE COMMITTEE**

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**WHEREAS**, the Administration and City Council are in agreement that climate change poses real hazards to the City of Lake Forest Park and its citizens; and

**WHEREAS**, the Administration and City Council recognize that many citizens of Lake Forest Park possess important expertise pertaining to the effects and mitigations of climate change; and

**WHEREAS**, the Administration and City Council are in agreement with and support a request received from community groups to appoint a citizen committee to develop a Climate Action Plan for the City; and

**WHEREAS**, Chapter 2.22 of the Lake Forest Park Municipal Code (LFPMC), Volunteer Commission System, provides in section 2.22.020(c) for the creation of committees on a temporary or indefinite basis to deal with a specific policy area or issue;

**NOW, THEREFORE, BE IT RESOLVED,** by the City Council of the City of Lake Forest Park, as follows**:**

Section 1. CREATION CLIMATE COMMITTEE . Pursuant to section 2.22.020(C) LFPMC, the Mayor and City Council do jointly create the Climate Committee. The purpose of the Climate Committee is to gather and analyze climate information and draft a Climate Action Plan for recommendation to the City Council.

The Climate Committee will be comprised of ten members including one college or high school student, to be nominated by the Mayor and confirmed by the City Council. Each member of the Climate Committee will be appointed to a three-year term. The Climate Committee will internally select a chair and vice chair, will meet at least monthly in a public meeting, and will prepare an annual work plan for approval by the City Council. The City Council will appoint a Council liaison and administrative support will be provided by the Public Works Department.

Section 2. 2022 WORK PLAN. The Climate Committee is first tasked with drafting a 2022 Climate Committee Work Plan for recommendation to the City Council and Administration. Given the high level of expertise of members likely to be appointed to the Climate Committee, these members are uniquely qualified to draft a first-year work plan that will move forward the purpose of creating a Climate Action Plan for the City..

The following should be considered as the first-year work plan is drafted: review and use of existing municipal climate action plans, changes to City operations, additions

and amendments to legislation, community projects, interaction with City commissions and task forces, the financial needs for creating the Climate Action Plan, and how to achieve the Climate Action Plan goals financially.

Section 3. DISBANDMENT. The Climate Committee may be disbanded jointly by the Mayor and City Council at any time.

Section 4. CORRECTIONS. The City Clerk is authorized to make necessary corrections to this resolution including, but not limited to, the correction of scrivener's/clerical errors, references, ordinance numbering, section/subsection numbers and any references thereto

**PASSED BY A MAJORITY VOTE** of the members of the Lake Forest Park City Council this _____ day of _____ , 2022.

APPROVED:

_____
Jeff Johnson
Mayor

ATTEST/AUTHENTICATED:

_____
Matt McLean
City Clerk

FILED WITH THE CITY CLERK: February 4, 2022
PASSED BY THE CITY COUNCIL:
RESOLUTION NO.: 1836

# ATTACHMENT 2 - BERTRAM

# Miriam A. Bertram, Ph.D.

Lake Forest Park, WA
(cell) twitter @CliEdMiriam

## Summary

Collaborative, curious, educator and oceanographer with a 20 yr history working alongside scientists, high school and university educators, students, and community members, to bring climate science understandings to a broader audience.

## Academic Appointments

**Assistant Director Program on Climate Change (UW PCC)** *2017 - present*
University of Washington, Seattle, WA

**Affiliate Instructor, Physical Sciences, School of STEM** *2020 - present*
University of Washington, Bothell, WA

**Adjunct Faculty, Humanities and Science** *2011 & 2013*
Cornish College of the Arts, Seattle, WA

**Extension Lecturer, UW in the High School ATMS 211** *2012 - 2015*

**Program Operations Coordinator/Specialist** *2001 - 2017*
Program on Climate Change
University of Washington, Seattle, WA

## Education

**Ph.D. Oceanography** *1995*
Thesis: Benthic-biogeochemical responses to particle flux: the minerals and microbiota of Cross Seamount. University of Hawaii, Honolulu, HI

**M.S. Oceanography** *1989*
Thesis: The influence of temperature on the stability and kinetic behavior of magnesian calcites. University of Hawaii, Honolulu, HI

**B.A. Biology** *1985*
Brandeis University, Waltham, MA

**SEA Semester, Class of W-72** *1983*
Sea Education Association, Woods Hole, MA

## Leadership

### *Activities*

- Advise newly appointed UW PCC Directors as they begin their position and throughout their 3-6 yr rotation
- Advise graduate students developing capstone projects for their Graduate Certificate in Climate Science (GCeCS) (2011 – present)
- Advise undergraduates interested in climate and the Climate Minor (2012– present)
- Supervise undergraduate assistants in the UW PCC office
- Supervise Undergraduate Experiential Learning Project (for David Bonan, 2017-2018)

- Manage UWPCC events and meetings
- Manage UWPCC program budget
- Partner with development officers to promote UW PCC to donors
- Partner with external collaborators to develop programming and curriculum, including non-profits, k-12 educators, informal education institutions (museums, aquarium), and state agencies (DNR, Dept of Ecology)
- Lead development of program website, edit and manage content.
- Design and teach cross-disciplinary undergraduate courses and graduate climate communication seminars

### *Committees:*

- UW PCC Advisory Board (ongoing)
- UW PCC Director Selection Committee (2019)
- Initiative for Peer Education on Climate Change (IPECC) Advisory Board, 2018 to present. IPECC was founded at Sammamish High School, WA.
- UW College of Education Climate Science Education Working Group Member, 2*016-2018*
- Shorecrest High School Site Council, Shoreline School District, WA, *2015-2018*
- District Instructional Materials Committee (*DIMC*), Shoreline School District, WA, *2009-2015*

### *Reviewer:*

- Husky 100 Selection Committee Member, 2021.
- Initiative for Peer Education on Climate Change curriculum (IPECC, led by Sammamish High School students)
- Ecological Society of America Digital Library of Education Resources (EcoEdDL)
- Geochemica et Cosmochimica Acta
- NASA Graduate Fellowship Proposals
- NASA Global Climate Change Education Proposals
- Facing the Future Climate Change Curriculum

### *Convener or facilitator:*

- 2020 Summer PCC Teacher-Scientist Virtual 3-day workshop: Evaluating the impact of X°C (e.g., 2°C) of climate warming on animals and ecosystems—in the high school classroom, Lauren Buckley, UW Biology, PI.
- UW PCC Teacher-Scientist 1-day workshops, 2016, 2019, University of Washington, Seattle
- Seattle Youth Climate Action Now, Day at UW for High School Students, 2017, Seattle
- Bringing Climate Change into your High School Science Classroom, Washington Science Teachers Association Annual Conference, 2015, Shoreline, WA
- NASA GCCE Two 1-week workshops on teaching ATMS 211, climate science, for high school teachers, 2013 & 2014, Seattle, WA

- Climate Literacy: Higher Education Efforts in Climate Change Education, American Geophysical Union meeting, 2012, San Francisco, CA
- Highs and Lows of Collaborative Assessment Strategies in Geoscience Courses, National Alliance of Concurrent Enrollment Partnerships National Workshop, 2012, Seattle, WA
- Bringing Climate Science into the High School: a NASA/UW/HS Partnership, Joint WSTA (Washington Science Teachers Association) - EEAW (Environmental Education Association of Washington) Workshop, 2011, Poulsbo, WA
- UW Climate Quest, a summer camp for high school youth, 2008 & 2009, Seattle, WA

### *Leadership Training*

- Climate Reality Leadership Corp, Bellevue, WA (2017)
- Race, Bias, & Dissonance: The Intersection with Leadership, Equity, & Inclusion, UW Professional & Organizational Development (2016)
- Leadership Agility: Context Setting, UW Professional and Organizational Development (2014)

## Teaching

### *University of Washington*

- The Science and Narratives and Climate Science (2021, BCORE 116B/117G UW Bothell)
- Our future as told in "CliFi" (Climate Fiction) and "CliSci" (Climate Science) (2020, BCORE 116D & 117B, UW Bothell)
- Communicating Climate Graduate Seminar (2015 & 2020, ATMS/OCN/ESS 593, UW Seattle)

### *Cornish College of the Arts*

Visualizing the Natural World (HS 270 01, 2011) and Ocean Change (HS 270 04, 2013)

### *North Seattle Community College*

Environmental Issues & Problems I (ENVS150), Introduction to Oceanography (OCEA100), General Biology w/Lab (BIOL 160)

## Communication Training

### *Open Educational Resource (OER):*

- Advanced Pressbooks Publishing Webinar, 2021
- Publish Digital Books and Open Educational Resources with UW Libraries Pressbooks, Workshop, 2019
- Creative Commons Certification Course, 2018

### *Workshops and Classes:*

- PUBPOL 582 Climate Change Communication, 2020
- UW News Writing Workshop led by an editor from "The Conversation" and the UW News staff (2018)
- INTEGRATE Webinars on Undergraduate Teaching (2018)

- How to use social media to communicate your science to non-experts, and why you should. David Shiffman, Simon Fraser University at University of Washington (2017)
- Learn and Teach Communicating Climate Science., UC Berkeley Lawrence Hall of Science (2015)
- An introduction to evidence-based undergraduate STEM teaching, Vanderbilt University through Coursera, 2014

## Funding

***NSF Broader Impacts, collaboration with UW faculty (2011 to present).*** Facilitate K-12 teacher workshops and curriculum development (with PI's: Lundquist, CEE; Hille Ris-Lambers, Biology, Istanbulluoglu, CEE; Emerson, OCEAN, Armour, OCEAN/ATM S, Buckley, Biology). Partial salary support.

***NASA Global Climate Change Education Grant (2010-2013)*** *with University of Washington faculty LuAnne Thompson (Oceanography) and Tom Ackerman (Atmospheric Sciences). $448K* award was used to bring graduate students, faculty, teachers, and more together to create the framework curriculum and labs for an interdisciplinary dual enrollment course on climate science for the high school. Workshops prepared teachers to deliver the course. Partial salary support.

## Awards and Honors

- UW College of the Environment, Student Services Staff Professional Development Award, 2019
- UW College of the Environment, Distinguished Staff Award, 2014
- Nominee, University of Washington Distinguished Staff Award, 2008
- UW College of Ocean and Fishery Sciences, Distinguished Staff Award, 2007

## Certifications

- Creative Commons, 2018
- Wilderness First Aid, 2017

## Professional Service

### *Presentations:*

- Formalizing a Certificate Program at UW. School of Aquatic and Fishery Sciences - Interdisciplinary Study Areas (SAFS-INSTARS) Workshop - June 2021. **Invited Presentation.**
- Can examining the science and narratives of climate change together foster deeper understanding in undergraduates? MidAtlantic SENCER Center for Innovation Conference, Jan 16, 2021. **Panelist.** Slides.
- Teaching Climate Through Fiction, Data and Lived Experiences. 2020 Teaching and Learning Symposium. University of Washington, Seattle. **Poster Presentation**. Poster.

- American Meteorological Society (AMS) 2019 Annual Meeting, Symposium on Emerging Needs, Opportunities, and Careers in Climate Information Services, Academic Education and Training Programs. **Invited Panelist.**
- Climate Change for Environmental Educators: Part 1 Causes and Consequences, joint with graduate student advisee and UW Bothell faculty member. April 2019, Waskowitz Environmental Education Center, North Bend, WA.
- An Inconvenient Sequel: Presentation and Discussion, joint with two other climate reality leaders, Third Place Books, Seattle, WA. 2017.
- Oceanography and Atmospheric Sciences Career Paths, STEM fair, Panelist, Sammamish High School, 2016.
- Climate Science for the Classroom, co-presenter, Professional Development workshop for science teachers in the Bellevue School District, Sammamish, WA, 2016.
- Climate Change and Marine Ecosystems to 9th graders at Chief Sealth High School, 2014

### *Memberships:*

American Geophysical Union (AGU), Sigma Xi, National Earth Science Teachers Association (NESTA), Association for the Sciences of Limnology and Oceanography (ASLO), National Association of Geoscience Teachers (NAGT), National Center for Science and Civic Engagement (NCSCE/SENCER)

## Publications

Google Scholar Profile: https://scholar.google.com/citations?user=Sx50G_AAAAAJ&hl=en

Climate Science for the Classroom, edited by Miriam Bertram and Surabhi Biyani, (2019) https://uw.pressbooks.pub/climate

Bertram, M. A., L. Thompson, J. W. Murray, C. Bretherton, and C. Bitz (2019), Preparing graduate students for 21st century climate conversations, *Eos, 100,* https://doi.org/10.1029/2019EO115265. Published on 07 February 2019.

Chang, A., Bertram, M.A., Ivanochko, T. Calvert, S. E., Dallimore, A. and Thomson R. E. (2013) Annual record of particle fluxes, geochemistry and diatoms in Effingham Inlet, British Columbia, Canada, and the impact of the 1999-2000 La Nina event. *Marine Geology.* 10.1016/j.margeo.2013.01.003.

Chang, A. S, Bertram, M. A, Ivanochko, T. S, Calvert, S. E, Dallimore, A;, Thomson, R. *E*. (2013): Geochemistry and diatom abundances in sediment trap samples of Effingham Inlet, Canada. *PANGAEA*, https://doi.org/10.1594/PANGAEA.806330 (Data Supplement to Chang et al. 2013 above)

Dallimore, A., Thomson, R.E. and Bertram, M.A., (2005) Modern to Late Holocene deposition in an anoxic fjord on the west coast of Canada: implications for regional oceanography, climate and paleoseismic history. *Marine Geology* 219, 47-69.

Conway KW, Krautter M, Barrie JV, Whitney F, Thomson RE, Reiswig H, Lehnert H, Mungov G, Bertram M (2005) Sponge reefs in the Queen Charlotte Basin, Canada: controls on distribution, growth and

development. In Freiwald, A. and J.M. Roberts (eds), Cold-water Corals and Ecosystems. Springer-Verlag Berlin Heidelberg, 605-621.

Bertram M.A., Cowen J.P., Thomson R.E. and Feely R.A. (2002) Temporal variability in the composition of particles leaving a non-buoyant hydrothermal plume. *Journal of Geophysical Research-Oceans*, 107 (C11, 3191) doi:10.1029/2000JC000223.

Cowen J.P., Bertram M.A., Wakeham S., Thomson R., Lavelle J.W., Baker E.T., and Feely R.A. (2001) Ascending and descending particle flux from hydrothermal plumes at Endeavour Segment, Juan de Fuca Ridge *Deep-Sea Research*, 48, 1093-1120.

Bertram M.A. and Cowen J.P. (2000) Diagenesis of ferromanganese-crusts: Chemical and biological alteration of artificial substrates on Cross Seamount. SEPM (Society for Sedimentary Geology) Special Publication No. 66: *Marine Authigenesis: From Global to Microbial,* C.R. Glenn, L. Prévôt-Lucas and Jacques Lucas, eds..

Bertram M.A. and Cowen J.P. (1999) Temporal variations in the deep-water colonization rates of small benthic foraminifera: the results of an experiment on Cross Seamount. *Deep-Sea Research*, 46, 1021-1050.

Cowen J.P., Bertram M.A., Baker E.T. Massoth G., Feely R.A. and Summitt M. (1999) Geomicrobial transformation of manganese in Gorda Ridge event plumes. *Deep-Sea Research Part II*, 45, 2713-2737.

Bertram M.A. and Cowen J.P. (1998) Biomineralization in agglutinated foraminifera: an analytical SEM investigation of wall composition in three small test forms. *Aquatic Geochemistry*, 4(3-4), 455-468.

Bertram M.A. and Cowen J.P. (1997) Morphological and compositional evidence for biotic precipitation of marine barite. *Journal of Marine Research,* 55(3), 577-593.

Bertram M.A. and Cowen J.P. (1994) Testate rhizopod growth and mineral deposition on experimental substrates from Cross Seamount. *Deep-Sea Research*, 41, 575-601.

Bischoff W.D., Bertram M.A., Mackenzie F.T., and Bishop F.C. (1993) Diagenetic stabilization pathways of magnesian calcites. *Carbonates and Evaporites*, 8(1), 82-89.

Bertram M.A., Mackenzie F.T., Bishop F.C., and Bischoff W.D (1991) Influence of temperature on the stability of magnesian calcite. American Mineralogist, 76, 1889-1896.

## Published Abstracts

Bertram, M.A. and Campbell, D. Can examining the science and narratives of climate change together foster deeper understanding in undergraduates? MidAtlantic SENCER Center for Innovation Conference, Virtual, 2021.

Bertram, M.A., Thompson, L., Palevsky, H. and Flowers, N. Faculty, Graduate Students And Experienced High School Teachers Working Together For Ocean And Climate Change Education: What's Data Got To Do With It? Poster Presentation at the Ocean Sciences Meeting in Honolulu, HI, 2014.

Bertram, M.A., Thompson, L. and Ackerman, T. UWHS Climate Science: Uniting University Scientists and High School Teachers in the Development and Implementation of a Dual-Credit STEM-Focused

Curriculum. Poster Presentation at the American Geophysical Union Fall Meeting in San Francisco, CA, 2012.

Thompson, L. and Bertram, M.A. Climate Change Education at the University of Washington: Bridging Academic Degrees, Departments and Disciplines. Oral Presentation at the American Geophysical Union Fall Meeting in San Francisco, CA, 2012.

Bertram, M.A., Thompson, L. and Ackerman, T. Earth Observations and the Learning of Climate Science, Math and Technology in the High Schools: Partnership of NASA Science with High School Teachers and Learners. Poster presentation at the Tri-Agency Climate Change Education PI Meeting in Washington D.C., 2012.

Thompson, L., Ackerman, T. and Bertram, M.A. Earth Observations and the Learning of Climate Science, Math and Technology in the High Schools: Partnership of NASA Science with High School Teachers and Learners. Poster presentation at the Tri-Agency Climate Change Education PI Meeting in Virginia, 2011.

Bertram, M.A., Thompson, L., Bretherton, C.S. and Murray, J.W. The UW Program on Climate Change: a Structure and Context for an Evolving Partnership between Climate Change Graduate Education and Public Outreach. Poster presentation at the Ocean Sciences Meeting in Portland, Oregon, 2010.

Dallimore, A., Thomson, R.E., Enkin, R.J., Kulikov, E.A., Bertram, M.A., Wright, C.A., Southon, J.R., Barrie, J.V., Baker, J., Pienitz, R., Chang, A.S. and Pedersen, T.F. A high-resolution record of Holocene climate variability from a western Canadian coastal inlet. Poster presentation to the AGU (American Geophysical Union) Annual General Meeting, San Francisco, December, 2004.

Conway K. W., Krautter M., Barrie J.V., Whitney F., Thomson R. E., Mungov G., and Bertram M. Sponge Reefs in the Queen Charlotte Basin, Canada: Oceanographic and Geological Controls on Growth and Development. 2nd Deep Sea Coral Symposium, Sept. 9-12, 2003.

Bertram M.A., Cowen J. P., Thomson, R. E. and Feely R. A. Compositional variability in the ascending and descending flux from a hydrothermal plume. *EOS Trans. AGU,* 80(49), Ocean Sciences Meet. Suppl. OS103, 1999.

Bertram M. A. and Cowen J. P. Biogenic/diagenetic alteration of artificial marine ferromanganese-oxide substrates. GSA abstracts with Programs, 29(5), 4, 1997.

Bertram M. A., Cowen J. P., Shackelford R. and Thomson R. E. Geochemical evolution of suspended particles from the Endeavour Segment, Juan de Fuca Ridge. *EOS Trans. AGU,* 77(46),Fall Meet. Suppl., F2, 1996.

Cowen J. P., Bertram M., Wen X., Massoth G., Baker E. T. And Summitt M. Geomicrobial transformation of Mn in Gorda Ridge event plumes. *EOS Trans. AGU*, 77(46), Fall Meet. Suppl., F3, 1996.

Bertram M.A. and Cowen J.P. Biologically mediated diagenetic alteration of marine ferromanganese-oxide deposits: the results of an in-situ experiment on Cross Seamount. *EOS Trans. AGU*, 76(46), Fall Meet. Suppl., F319, 1995.

Bertram M.A. and Cowen J.P. The form, composition and origin of marine barite. *EOS Trans. AGU*, 75(44), Fall Meet. Suppl., 382, 1994.

Cowen J.P. and Bertram M.A. Benthic foraminiferal abundance and the supply of surface water particulates: the results of a time-series experiment on Cross Seamount. *EOS Trans. AGU*, 75(44), Fall Meet. Suppl., 397, 1994.

Bertram M.A. and Cowen J.P. Mineral composition of agglutinated rhizopod tests, a response to particle flux and substrate composition. *EOS Trans. AGU*, 75(3), Ocean Sciences Meet. Suppl., 38, 1994.

Bertram M.A. and Cowen J.P. Metal enrichment by sessile microbiota on the deep-sea-floor: the results of an in-situ experiment on Cross Seamount. *EOS Trans. AGU*, 73(43), Fall Meet. Suppl., 303, 1992.

Bertram M.A. and Mackenzie F.T. The solubility of magnesian calcites at elevated temperatures. *EOS Trans. AGU*, 69(16), Spring Meet. Suppl., 528, 1988.

## Mentors

Ocean Science: Fred T. Mackenzie (University of Hawaii), James P. Cowen (University of Hawaii), Jane Schoonmaker (University of Hawaii), Johanna Resig (University of Hawaii) and Rick Thomson (Fisheries and Oceans Canada, Institute of Ocean Sciences)

UW Program on Climate Change Directors: James Murray (2001-2006), Chris Bretherton (2006-2011), LuAnne Thompson (2011-2017), Cecilia Bitz (2017-2019), Becky Alexander (2019-present)

# ATTACHMENT 2 - CAMPBELL


## DANA L. CAMPBELL, Ph.D.

Division of Biology
School of STEM, University of Washington, Bothell — Lake Forest Park, WA 98155
18115 Campus Way NE, Bothell, WA 98011


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## EDUCATION AND TRAINING

**Harvard University**, Cambridge, MA — June 1998
M.A., Ph.D., Department of Organismic and Evolutionary Biology, Thesis advisor: N.E. Pierce
Thesis title: *Higher-level phylogeny and molecular evolution of the Riodinidae (Lepidoptera)*

**Wellesley College**, Wellesley, MA — June 1989
B.A. *Cum laude*, Biology

**Woods Hole Marine Institute**, Woods Hole, MA — Summer 1994
Participant, three-week molecular evolution workshop

**University of Washington Friday Harbor Laboratories,** Friday Harbor, WA — Summer 1990, 1991
Participant, five-week courses: Invertebrate zoology; Invertebrate embryology; Phycology

## POSITIONS HELD

**Part time Lecturer/Affiliate Instructor** University of Washington, Bothell, WA — 2013-present
Division of Biology, School of STEM and CORE program

**Scientific Instructional Technician 2**, University of Washington, Bothell — 2020-Present
School of STEM, Teaching Laboratories Management

**Associate Research Scientist**, North American Butterfly Monitoring Network — 2012-Present
Georgetown University, Washington, DC and University of Maryland, College Park.
Developing and coordinating strategy for data integration across butterfly survey organizations

**Master Curator,** Encyclopedia of Life, Smithsonian Museum of Natural History, Washington DC — 2010-2017
Full time consultant: Species Pages Group, Rapid Response Team (writing and data entry, EOL.org)

**Associate Research Scientist,** University of Maryland, College Park, MD — 2008-2012
Scientific liaison, world-wide aggregation of lepidopteran phylogenetic and trait data
Director of web tools development for LepTree.net (data now migrated to EOL.org)

**Blogger, InsideHigherEd.org,** Washington DC. — 2008-2012
Weekly Blog: ABC's and PhD's: Biologists at home, with Liz Stockwell, PhD and Susan Bassow, PhD

**Coordinator,** BEES program, University of Maryland, College Park, MD — 2007-2009
Support and facilitate graduate student experience from application through graduation

**Scholar,** Helen Riaboff Whiteley Center, University of Washington Friday Harbor Labs, WA — 2007, 2008
Research/writing: Non-Traditional Academics
Research/writing child development book: "*Baby Brains: ten projects to help you understand your developing child*."

**Associate Research Scientist**, University of Maryland — 2002-2003
Development of TaxonTree and other applications for accessing large biodiversity databases.
Human-Computer Interaction Lab. Project description: http://www.cs.umd.edu/hcil/taxontree/

**Research Associate**, Department of Biology, University of Maryland — 1999-2002
Research/writing, molecular evolution of the butterfly family Riodinidae.

**Consultant**, Human-Computer Interaction Laboratory, Univ. of Maryland. — 2000-2002
Biologist for Project SearchKids, a children's interactive animal database.

## TEACHING EXPERIENCE

**University of Washington, Bothell, WA**

Using Salmon Genetics to Detect Market Substitution. Intensive Laboratory Bootcamp (BBIO293) 2021
*Instructor, School of STEM, Division of Biology*

Organismal and Evolutionary Biology Laboratories (BBIO180) 1-2 quarters/year, 2013-present
*Instructor, School of STEM, Division of Biology*

Instructor, Cell and Developmental Biology Laboratories (BBIO200) 2019
*Instructor, School of STEM, Division of Biology*

The Science and Narratives of Climate Change (BCORE 116/117) 2020-present
*Instructor, First Year Discovery Core II course with Dr. Miriam Bertram.*

**Harvard University, Cambridge MA**

Human Health, the Environment, and Public Communication, tutorial with Steve Curwood Spring 1996, 97
*Teaching Fellow, Dept of Environmental Science and Public Policy.*

Human Behavioral Biology, Laboratory Spring 1993, Fall 1998
*Teaching Fellow, Dept of Anthropology*.

Biological Diversity, Laboratory Spring 1994
*Teaching Fellow, Dept of Organismic and Evolutionary Biology*

Organismic and Evolutionary Biology, Laboratory Fall 1990, 91
*Teaching Fellow, Dept of Organismic and Evolutionary Biology*

Introductory Cellular and Molecular Biology, Laboratory Fall 1995-99
*Teaching Fellow, Harvard University Extension School*

Introductory Organismic and Evolutionary Biology, Laboratory Spring 1996, 97
*Teaching Fellow, Harvard University Extension School*

## PROFESSIONAL DEVELOPMENT AND VOLUNTEER SERVICE

**Teaching Development,** University of Washington, Bothell
Participant, First Year and Pre-Major Program (FYPP) Summer Workshop Series Summer 2020, 2021
Participant, Teaching Online 101. Five-week asynchronous online course. Summer 2020

**Implicit Bias Training,** College of the Environment, University of Washington, Seattle WA July 2019
Office of Diversity, Equity & Inclusion. Fleur Larsen, Facilitator.

**Faculty Learning Community,** University of Washington, Bothell, WA 2019-2020
Teaching Climate Change

**Volunteer, Butterfly monitor, Sauk Mt.** North Cascades Butterfly Network, WA Summer 2020, 2021
Weekly structured surveys of butterflies and host plants, in association with the National Park Service

**Advisory Committee Board Member**, Lake Forest Park Water District, WA October 2019-present
Education, protection and advocacy of local water aquifer and surrounding environment; climate committee.

**Climate Leadership Training with Vice President Al Gore**, Bellevue, WA June 27-29 2017
Climate Reality Corps 35th Activist Training Program

**Lakeside School Parent and Guardian Association, Seattle, WA** 2016-2021
Participant, Diversity and Inclusion Affinity Group; Senior class Parent Representative, 2021; Editor, Parent and guardian newsletter; Recall manager, rummage recycling and fundraising program; Fundraising.

**Volunteer, Shorecrest High School, Shoreline, WA** **2013-2017**
PTSA Secretary and active member; Parent book club; Parent representative, site council (2 year term)

**Volunteer, Ridgecrest Elementary School, Shoreline, WA** **2013-2016**
Art docent grades 2-6; Coach, Math Olympiad 4th, 5th, 6th grade team.

**Non-Resident Tutor in Biology**, Leverett House, Harvard University, Cambridge, MA. 1992-99
Science advising and tutoring to Harvard undergraduates.

**Naturalist guide**, Harvard Museum of Comparative Zoology, Cambridge, MA 1992-99
Naturalist interpreter (Sea of Cortez and Copper Canyon, Mexico; Galapagos; S.E. Alaska).

**Docent**, Harvard Museum of Comparative Zoology, Cambridge, MA 1995-98
Lead tours of museum exhibits and special activities for school groups.

**Intern**, National Public Radio weekly broadcast "*Living On Earth*" Cambridge, MA 1997-98
Research/development of conservation-oriented news stories and assistance on sound production.

## GRANTS AND AWARDS

**Putnam Expedition Grant**, Museum of Comparative Zoology, Harvard University, MA. 1994, 1996, 1998
Funds to collect riodinid butterflies in Ecuador ($7500, $4600) and Arizona ($2000)

**Dissertation Improvement Grant,** National Science Foundation 1995
Funds to support lab expenses for dissertation work on riodinid butterflies ($8600)

**Citation of Merit**, Association for Women in Science Educational Foundation ($250) 1995

**Bok Center Certificate of distinction in teaching**, Harvard University, Cambridge, MA 1994

## PUBLICATIONS

**Campbell, D.L.,** Thessen, A.E., Reis, L, 2020. A novel curation system to facilitate data integration across regional citizen science survey programs. *PeerJ*, *8*, p.e9219.

Espeland, M.; J.P Hall; P.J. DeVries; D.C. Lees; M. Cornwall; Y-F Hsu; L-W. Wu; **D.L. Campbell**; G. Talavera; R. Vila; S. Salzman; S. Ruehr; D.J. Lohman; N.E. Pierce, 2015. Ancient Neotropical origin and recent recolonisation: Phylogeny, biogeography and diversification of the Riodinidae (Lepidoptera: Papilionoidea). *Molecular Phylogenetics and Evolution* 93: 296-306. PDF

**Campbell, D.L.**, 2008-2012. ABC's and Ph.D.'s: Biologists at Home. Blog. Inside Higher Ed.

**Campbell, D.L**., L. Stockwell, and S. Bassow. 2008. Non-Traditional Academics. *In*: Evans, E. and Grant, C. (ed) Mama Ph.D.: Women Write About Motherhood and Academic Life. Rutgers University Press.

Lee, B., Parr, C.S. **D. Campbell** et al. 2004. How users interact with biodiversity information using TaxonTree, 320-327. In *AVI 04 Proceedings of the working conference on Advanced visual interfaces*. http://portal.acm.org/citation.cfm?do...

Parr, C.S., B. Lee, **D. Campbell** et al. 2004. TaxonTree: Visualizing Biodiversity Information. In *Proceedings of AVI*. http://hcil.cs.umd.edu/trs/2003-40/20...

Parr, C.S., B. Lee, **D. Campbell**, and B. Bederson. 2004. Tree visualizations for taxonomies and phylogenies. *Bioinformatics* 20(17):2997-3004. Supplementary figure. See prototype downloads for datasets.

Lee, B., C.S. Parr, **D. Campbell**, and B. Bederson. 2004. How Users Interact with Biodiversity Information Using TaxonTree. *Proceedings of Advanced Visual Interfaces* (AVI 2004) pp. 320-327. ACM Press. An earlier version of this manuscript is available as TaxonTree: Visualizing Biodiversity Information. Technical report HCIL-2003-40.

Druin, A., G. Revelle, B.B. Bederson, J.P. Hourcade, A. Farber, J. Lee, **D. Campbell**. 2003. A collaborative digital library for children. *Journal of Computer Assisted Learning* **19**: 239-248.

**Campbell, D.L.** and N.E. Pierce. 2003. Relationships of the Riodinidae (Lepidoptera) and phylogenetic placement with respect to other butterfly families: Implications for the evolution of ant association? *In* W. Watt, C. Boggs and P. Ehrlich, Eds. Ecology and evolution taking flight: butterflies as model study systems.

Hourcade, J.P., A. Druin, L. Sherman, B.B. Bederson, G. Revelle, **D. Campbell**, S. Ochs, B. Weinstein. 2002. SearchKids: a Digital Library Interface for Young Children. *Proceedings of CHI,* ACM Press.

**Campbell, D.L**., A.V.Z. Brower, and N.E. Pierce. 2000. Molecular evolution of the *wingless* gene and its implications phylogenetic placement of the butterfly family Riodinidae (Lepidoptera: Papilionoidea), *Molecular Biology and Evolution* **17**(5):684-696.

Chang, B.S.W. and **D.L. Campbell**. 2000. Bias in phylogenetic reconstruction of vertebrate rhodopsin sequences. *Molecular Biology and Evolution* **17**(8):1220-1231.

## SELECTED PRESENTATIONS AND POSTERS

Bertram, M. and **Campbell, D**. (January 16, 2021). *Can examining the science and narratives of climate change together foster deeper understanding in undergraduates?* SENCER Conference: Narratives in Science. Online presentation through Zoom.

Bertram, M. and **Campbell, D**. (2020). *Teaching Climate through Fiction, Data and Lived Experiences.* April 2020 UW Teaching and Learning Symposium, University of Washington, Seattle, WA. Poster.

**White BD**, **Campbell D**, Madzima T, Lewis A (2019). *CURE labs and inquiry-based classrooms improve understanding of science practices in different ways.* 2019 Society for the Advancement of Biology Annual Meeting. University of Minnesota, MN. Presentation.

**Campbell, D**., Bertram, M. and Abelson, M. (Aug. 17, 2017) *Truth to Power: The Climate Crisis*. Community presentation given at 3rd Place Books, Seward Park, Seattle WA.

**Campbell, D**., Bertram, M. and Abelson, M. (Sept. 7 2017) *Truth to Power: The Climate Crisis*. Community presentation given at 3rd Place Books, Lake Forest Park, Seattle WA 98155

Parr, C.S., **D. Campbell**, and J. Park (June 2010) Community content building for evolutionary biology: Lessons learned from LepTree and Encyclopedia of life. Presentation. *Nature Proceedings*: http://dx.doi.org/10.1038/npre.2010.4603.1

Brown, J., **D. Campbell**, S. Cho, M. Cummings, D. Davis, A. Kawahara, C. Mitter, C. Parr, J. Regier, A. Roe, J. Sohn, S. Weller, J. Zaspel, A. Zwick (May 2009). LepTree – A genomics-inspired community collaboration. *Lepidoptera Society Meeting*, Mexico. Presentation.

Parr, C.S., B. Lee, **D. Campbell**, and B. Bederson (Nov. 2002). Tree browsing: Visualizing biodiversity information, *Biosciences Day* poster presentation (University of Maryland, College Park, MD). Poster.

**Campbell, D.L**. (August 1998). Examining ant association in the light of phylogenetic relationships of the Riodinidae. *Third International Butterfly Ecology and Evolution Symposium*, Mt. Crested Butte, CO. Presentation.

Chang, B.S.W. and **D.L. Campbell** (June 1998). The utility of opsin genes in molecular systematics: resolving issues of base composition and codon bias. *Annual meeting of the Society for the Study of Evolution*, Vancouver, British Columbia. Poster.

**Campbell, D.L.** (July 1997). Riodinid, lycaenid, and nymphalid butterflies: different rates of evolution? *Annual meeting of the Society for the Study of Evolution*, Boulder CO. Presentation.

**Campbell, D.L.,** P.J. DeVries and N.E. Pierce (July 1996) Utility of *wingless* in phylogeny reconstruction of the riodinid butterflies. *Society for Molecular Evolution*, Tucson, AZ. Poster.

**Campbell, D.L.** and N.E. Pierce (June 1996). Molecular phylogeny of the Riodinidae (Lepidoptera) based on nuclear and mitochondrial markers. *Annual Meeting of the Society for the Study of Evolution*, St. Louis, MO. Poster.

# ATTACHMENT 2 - COTE


## Jessica M. Côté, P.E.

**Lake Forest Park, WA 98155**


## Professional Profile

Ms. Côté has dedicated her career to integrating physical and biological sciences with the engineering process to develop creative solutions to complex coastal and ocean problems around the world. She has 23 years of experience in data collection and analysis, multi-disciplinary engineering design and management of a wide variety of projects in coastal and estuarine environments on the East, West, and Arctic coasts. She has spent the last 16 years working as an engineering consultant on understanding the environmental effects of the interaction of coastal and geologic process with infrastructure in the Pacific Northwest. Ms. Côté opened Blue Coast Engineering in 2018 to work more intensely on the feasibility, design, and construction of aquatic and marine habitat restoration projects in riverine, estuarine, and marine environments. She is committed to assisting communities decrease their impact on the ecosystem and to developing nature-based solutions to protect shorelines from further degradation as the result of the changing climate.

Ms. Côté currently serves on the Washington-British Columbia Green Shores for Homes Advisory Board, Island County Technical Advisory Committee for Salmon Recovery and the Stillaguamish Technical Advisory Committee for Salmon Recovery. She guests lectures for the bi-annual Coastal Engineering Course at University of Washington and teaches short courses annually on coastal processes for Washington State University Extension Beach Watchers Stewardship Program. Ms. Côté regularly speaks to the public and stakeholders during outreach meetings and is praised for her ability to convey complex concepts in easy to digest language. She works with non-profit organizations, tribal communities, and local and state agencies to develop funding options and obtain grant funding to study coastal processes and evaluate/implement projects in the Pacific Northwest.

## Professional Experience

**Blue Coast Engineering LLC (Lake Forest Park, WA), June 2018 to Present**

*Manager, Principal Coastal Engineer*

- Owner of small (8 staff) consulting Company responsible for staff development, strategic marketing, and financial planning for the Company.
- Technical lead for fast ferry feasibility studies (Puget Sound and Lake Washington), estuary restoration research, and armor reduction along rivers, lakes, and marine waterways for the Company.
- Project management of interdisciplinary planning, engineering, and modeling projects, including stakeholder and community outreach.
- Design engineer for estuary and shoreline restoration, coastal protection structures, in-water dredging, and other ports and harbors works.

**Confluence Environmental Company (Seattle, WA), April 2016 to May 2018**

*Principal Coastal Engineer*

- Principal of company leading strategic planning, marketing and project management of coastal engineering, physical oceanographic data collection, and restoration market sector and projects.

- Project management of interdisciplinary planning, engineering, and modeling projects, including client, subcontractor, stakeholder and community engagement as needed for project success.
- Technical project work, including data collection, geomorphic analysis, engineering design (calculations, drawings, specifications).

**Golder Associates (Redmond, WA), December 2008 to March 2016**

*Coastal & Ocean Practice Leader*

- Responsible for Coastal and Ocean business development, client management, strategic practice planning, technical quality assurance and compliance with company's visions and values
- Team leader of professionals with specialties in physical and biological measurements, coastal engineering analysis and design and numerical modeling
- Projects involving Sea Level Rise, Wave &Tidal Energy, Arctic Ice Studies, Sediment Removal and Depletion, Water Quality Studies

**Pacific International Engineering (Edmonds, WA), May 2006 to November 2008**

*Senior Coastal Engineer*

- Project manager for federally funded research projects on emerging waterborne transportation systems
- Lead for feasibility and conceptual design of sediment dredging and disposal, coastal protection structures, soft shoreline stabilization, and wake wash impact studies
- Responsible for organizing, implementing, and managing meteorological, oceanographic, and geological field data collection programs and instrumentation

**Blue Coast Scientific, (Charlotte, NC), October 2003 to April 2006**

*Owner, Coastal Engineer*

- Owned and operated a small consulting company providing services in coastal & oceanographic field data collection, data analysis, data management, and reporting
- Clients included federal agencies, state agencies, research institutions, and international energy companies
- Onsite supervising engineer of community scale beach nourishment installation

**Applied Coastal Research & Engineering, (Mashpee, MA), September 2000 to September 2003**

*Coastal & Ocean Engineer*

- Coordinated multi-disciplinary team of professionals leading to the successful field investigation of estuarine hydrodynamics for over 10 embayment systems as part of a state-wide water quality assessment program in Massachusetts
- Played a key role in conducting baseline field studies and monitoring construction activities to assess the potential environmental impacts of dredge disposal and pipeline installation projects
- Conducted multiple studies of the potential impacts of sand removal from offshore borrow sites in the US Atlantic Ocean
- Designed, implemented, and deployed oceanographic mooring systems for deep water oil and gas exploration including data analysis and reporting

## Education, Licensure, and Professional Organization Roles

- Oregon State University, M.S., Ocean Engineering, 1999
  - Thesis: *A new technique for measuring offshore sand bar movement on a dissipative coast*
  - Fully funded research assistantship in coastal/beach morphodynamics
  - Conducted research on coastal erosion and community resilience on Kosrae, Micronesia
- Tufts University, B.S., Mechanical Engineering, Environmental Studies Minor, 1993
- School for Field Studies, Marine Ecology & Resource Management Program, 1992
- Professional Engineer:
  - State of Washington, and State of Alaska
- Professional Organizations:
  - American Society of Civil Engineers/COPRI (member)
  - Washington Coastal Hazards Resilience Network (member)

## Selected Peer Reviewed Publications


Côté, J. and Sanderson, T. under review (2022). Criteria for restoration the primary tidal channel in barrier embayment systems. in Conway-Cranos, L., Toft, J.D., Trimbach, D.J., Faulkner, H., Krienitz, J., Williams, D., des 7 Roches, S., eds 2022. The 2021 Puget Sound Nearshore Restoration Summit Proceedings pp. 219-222

Côté, J. and Osborne, P., 2016. The value of stakeholder engagement in a long-term scientific research program in Puget Sound. Salish Sea Ecosystem Conference, April 2016, Vancouver, BC.

Côté, J. and Osborne, P., 2014. Sustainable Passenger Only Fast Ferry Operations in a Wake Sensitive Waterway, Rich Passage, Puget Sound, WA. Presented at PIANC World Congress on June 3, 2014.

Côté, J., Osborne, P., and Sierra-Carrascal, E., 2013. Measurements of Beach Morphology and Coarse Sediment Transport on a Fetch Restricted Coast Exposed to Vessel- Generated Waves. In Proceedings of Coastal Dynamics 2013 pp. 375-386.

Osborne. P.D., J.M. Cote, and G. Curtiss. 2011. Characterization of waves, currents and suspended sediment flux for littoral drift restoration at Mouth of Columbia River. Coastal Sediments, 2011, ASCE.

Osborne, P.D., Curtiss, G., and Côté, J.M. 2010. Gravel Transport and Morphologic Response on a Supply-Limited Beach, Point White, Bainbridge Island. In Shipman, H., Dethier, M.N., Gelfenbaum, G., Fresh, K.L., and Dinicola, R.S., eds., 2010, Puget Sound Shorelines and the Impacts of Armoring—Proceedings of a State of the Science Workshop, May 2009: U.S. Geological Survey Scientific Investigations Report 2010-5254, p. 127-134.

Côté, J.M., Byrnes, M. R., 2002. Spatial and Temporal Variability of Circulation Patterns at Offshore Shoals on the Eastern Florida Continental Shelf. Proceedings of 2002 AGU/ASLO Ocean Sciences Meeting

Côté, J.M. and P. Ruggiero. Nearshore Bathymetry within the Columbia River Littoral Cell. Southwest Washington Coastal Erosion Study Report 1998, USGS Open-File Report, 99- 524 (1999), 147-156.

Côté, J.M. 1997. Kosrae Coastal Protection Strategy. Technical Report submitted to the

U.S. Department of the Interior, Office of Insular Affairs, Kosrae Island Resource Management Program, and the University of Oregon Micronesia and South Pacific Program.

## ATTACHMENT 1: Representative Project Experience

**Harbor Island Dock Demolition and Shoreline Stabilization | King County Solid Waste Division as sub to KPFF, Seattle, WA (2019-2021).** This project involves the demolishing and creosote-treated timber dock at a former Mill site along the western shoreline of Harbor Island, at the mouth of the Duwamish River. Ms. Côté is the lead Coastal Engineer responsible for feasibility assessment, alternatives analysis, preliminary design, final design and technical specifications for the excavation of debris and sediments and replacement with new shoreline stabilization structure and beach substrate. She developed a set of alternatives to stabilize beach slopes including the placement of beach nourishment, installation of soft shoreline stabilization, and installation of hard shoreline stabilization. A coastal processes assessment was conducting to determine the dominant mechanism for sediment transport at the site to develop coastal engineering design criteria, which includes evaluation of water levels, sea level rise, wind-waves, vessel-generated waves, propwash scour, and tidal currents.

**King County Fast Ferry Route Implementation Studies for King County Department of Transportation: Marine Division as a sub to KPFF | Central Puget Sound and Lake Washington, WA (2019-2020).** Ms. Côté worked with KPFF to provide a preliminary analysis of potential environmental impacts from Passenger Only Ferry (POF) service along an expansion route from Ballard to downtown Seattle through Puget Sound and a new service between Kenmore and University of Washington on Lake Washington. King County proposes to operate one to two 150-passenger vessels at an operating speed of up to 28 knots in unrestricted areas. The route options were evaluated using publicly available data and data digitized for this project using ArcGIS to visually represent the potential environmental impacts resulting from implementation of these POF services and to provide a guide for future environmental work required for the implementation of POF service on these routes. The evaluation also considered the potential environmental impacts at two alternative ferry landing sites being considered for the City of Kenmore and three alternative landing sites being considered in Seattle.

**Puget Sound Region Passenger Only Ferry Study, Puget Sound, WA | Puget Sound Regional Council as a sub-consultant to KPFF Consulting Engineers (2020-2021)**. A study conducted to identify and analyze existing and potential Passenger Only Ferry (POF) routes and associated capital and operating elements, including passenger demand/ridership, terminal locations, and capacity, and to assess environmental aspects of the passenger-only ferry service. Ms. Côté's role on the project included evaluation of the potential environmental effects at the terminal locations and along the routes as a result of fast ferry operation including evaluation of vessel wakes, operational requirements in confined waterways, and potential changes to ecological habitats. Ms. Côté as involved in the development of criteria used in POF route and terminal assessment, preliminary route assessment to determine near-term and long-term route viability, and final route assessment of near-term routes. The outcome of the project provides recommendations for routes that implementers may include in regional transportation plans within the study area based upon results of the analysis.

**Martha Creek Restoration Design-Build | The Tulalip Tribes & Reese Construction (2019-2020).** Project Manager/Lead Engineer. Completed fish barrier removal, habitat restoration design and construction oversight for 500 feet of lower Martha Creek in Warm Beach, Washington, which is tidally influenced. Work included hydrodynamic modeling, development of design alternatives, selection of preferred design, development of final design documents and construction oversight for the project. Ms. Côté was also responsible for responding to comments and questions from regulatory agencies on the design and potential changes to sediment transport and coastal processes at the site as an effect of the project. Project was constructed in late 2020.

**Lone Tree Lagoon Restoration Feasibility Study, La Conner, WA | Skagit River System Cooperative (SRSC), 2018-2019.** Lone Tree Lagoon is an important site to the Swinomish Indian Tribal Community (SITC) for cultural, recreational, and economic reasons. SITC and SRSC are concerned about erosion and overwash of the southern shoreline adjacent to the lagoon. Ms. Côté led and managed an analysis of the feasibility, design considerations, and potential methods for restoring the beach elevation along the south spit to preserve the estuarine function of the lagoon. The project involved the analysis of shoreline change through historic aerial photographs and beach volume change through historic LiDAR surveys to estimate historic erosion rates and predict future erosion rates; field data collection and analysis of tidal currents and wind-waves to determine and quantify the primary forcing mechanism for sediment transport; and development of conceptual restoration actions including potential armor removal, beach nourishment, and tidal channel reconfiguration.

**Benefit Cost Analysis of Shore Friendly Practices | Island County Department of Natural Resources. (2018).** Conducted a study on behalf of the Island County Shore Friendly program to determine the economic benefits and costs of five shoreline protection strategies available to property owners. These strategies include installation of hard armor, armor removal to restore a natural beach, soft shore protection, managed retreat of structures inland or in elevation, and conserving the natural beach. These strategies were evaluated to determine the relative private benefits and costs, public benefits and costs, and ecosystem benefits and costs.

**Point No Point Estuary Restoration Feasibility, Hansville, WA | Mid Sound Fisheries Enhancement Group (2017-present).** Manager and Engineering lead for technical studies and design for replacement of a tide gate and outfall with an open channel to restore tidal influence on the historic salt marsh at Point No Point Park. The site is a heavily used park owned by Kitsap County surrounded by private properties which experiences regular flooding events from precipitation and extreme water levels. Ms. Côté is leading the assessment of existing physical, hydraulic, and biological conditions, managing sub-consultants to conduct geology, groundwater, drainage, and cultural studies, and developing preliminary restoration design. The proposed design will accommodate the park uses, improve stormwater drainage, restore saltwater influence on the marsh, and maintaining access and prevent impacts to the adjacent properties and structures. Ms. Côté is also supporting Mid Sound in stakeholder outreach with Kitsap County departments who are involved in the management of the park, conversations with surrounding landowners, and outreach to other key stakeholders.

**Dredge Engineering Design and Disposal Site Evaluation | Port of Kalama (2018 to present)** Engineering support services for the dredge program from 2018 to present including technical studies for environmental review. Engineering plans, technical specifications, bid package and construction support for dredging of deep water berth. Evaluation and monitoring of dredge material placement at in-water and beach nourishment sites to evaluate fate and dispersion of sediment for environmental compliance. Technical support for permitting new in-water and beach nourishment placement sites. Evaluation of large-scale hydrodynamics and sediment transport patterns to provide technical information for long range planning of site facilities at Port of Kalama. Evaluation of sediment transport, design of plans and specifications for dredge of material around marina structures because of prop wash.

**North Mercer /Enatai Interceptor Upgrade Shoreline Protection & Mitigation, King County Wastewater Treatment as sub to TetraTech (2017-2018).** Coastal engineering design for the landing areas of pipeline crossings on Lake Washington to provide stability of the shoreline around the pipeline and improve habitat function. Developed soft shoreline design to replace existing concrete bulkhead including large wood, beach nourishment and plantings to work with geomorphology and provide shoreline stability. Incorporated predictions of sea level rise and climate change into design criteria.

# ATTACHMENT 2 - HOLMAN

Linda Holman

Lake Forest Park, WA 98155
Email

I have been a resident of Lake Forest Park since 1983.

My work history is in the medical field where I retired from the University of Washington Medical Center in 2008 after 30 years in the Department of Neurological Surgery.

In the 1980's I served on the LFP Park Board.

I have been a King County Master Gardener since 2009 and am the leader of the Animal Acres demonstration garden in partnership with the city.

After I retired I served in the city on the Community Services Commission.

I am a member of the LFP Rotary Club. I am cochair of the Community Services Committee. I also serve on the Executive Board and am a member of the Membership Committee, Nominating Committee and the Environment Committee.

My interest has always been in the environment and I believe both my past and current activities will be an asset on this committee.