

Climate Impact Advisory Committee: Tracy Petroske

Subject: Online Form Submittal: Board and Commission Application
Date: Wednesday, December 30, 2020 7:14:19 PM

Board and Commission Application

Step 1

Application for Appointment to Whatcom County Boards and Commissions

Public Statement

THIS IS A PUBLIC DOCUMENT: As a candidate for a public board or commission, the information provided will be available to the County Council, County Executive, and the public. All board and commission members are expected to be fair, impartial, and respectful of the public, County staff, and each other. Failure to abide by these expectations may result in revocation of appointment and removal from the appointive position.

Title	Ms.
First Name	Tracy
Last Name	Petroske
Today's Date	12/30/2020
Street Address	6022 Bell Creek Logging Rd 243, PO Box 243
City	DEMING
Zip	98244-024
Do you live in & are you registered to vote in Whatcom County?	Yes
Do you have a different mailing address?	YES
Mailing Address	PO Box 243, Deming, WA 98244
Primary Telephone	3605949486
Secondary Telephone	4259456455
Email Address	tracy.petroske@gmail.com

Step 2

1. Name of Board or Committee	Climate Impact Advisory Committee
Climate Impact Advisory Committee Position:	I do not have previous work or educational experience in the requested fields of expertise.
2. Do you meet the residency, employment, and/or affiliation requirements of the position for which you're applying?	Yes
3. Which Council district do you live in?	District 3
4. Are you a US citizen?	Yes
5. Are you registered to vote in Whatcom County?	Yes
6. Have you declared candidacy (as defined by RCW 42.17A.055) for a paid elected office in any jurisdiction within the county?	No
7. Have you ever been a member of this Board/Commission?	No
8. Do you or your spouse have a financial interest in or are you an employee or officer of any business or agency that does business with Whatcom County?	No
You may attach a resume or detailed summary of experience,	Resume_Tracy Petroske_Bell Creek Science.pdf

qualifications, & interest in response to the following questions

9. Please describe your occupation (or former occupation if retired), qualifications, professional and/or community activities, and education

Former teacher (physics, mathematics), and Education/Public Outreach professional. I am now the owner of Bell Creek Science Services, a consulting business to capitalize on my blend of science, education, and communication expertise. Services include:
Writing, editing, publication support, simplify and condense complex scientific content, create and fact-check materials prior to publication, literature searches, edit English-as-a-Second-Language research articles
Curriculum development, create outreach materials, draft scientific posters, prepare Power Point presentations, plan and facilitate public outreach events, meetings and classes
Liaison between the general public and elected officials in response to scientific disputes, represent groups through presentations or seminars, assist with identification and development of durable partnerships
Field work, includes monitoring of cetaceans, collection of high-altitude tree DNA, classifying downed birds
Develop and implement robust scientific study and resource management plans

10. Please describe why you're interested in serving on this board or commission

I would like to be part of the conversation with all stakeholders about practices that affect our climate - how to best manage and maintain our lands in a way that is ultimately beneficial for all stakeholders; the physical environment, wildlife, and human residents. My science background, education/outreach and facilitation experience could be of valuable service as this commission makes decisions and communicates that information to other parties.

References (please include daytime telephone number):

David Roberts, 360-483-7341, Kulshan Environmental Services, LLC
Doug Clark, 360-201-3599, WWU Geology Professor

Signature of applicant:

Tracy M Petroske

Place Signed / Submitted

Welcome, WA

(Section Break)

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Tracy McCallister Petroske

Tracy.petroske@gmail.com (360) 594-9486 Bellingham, WA

<i>Experience</i>	2018	Bell Creek Science Services, Owner
	2016-20	Institute for Global Environmental Strategies , Science and Education Review
	2016-18	Caltech , Education & Public Outreach Coordinator
	2001-16	Snoqualmie & Bellevue SD , Educator/STEM Program Manager/Math Chair
	1998-01	Source Net , Technical Writer, Software Test & Configuration Manager
	1991-94	Univ. of Washington , Graduate student - Oceanography/Environmental science
	1989-91	Boeing Kent Space Center , Physicist-Engineer (fluid dynamics)
	1985-89	Scripps Institute of Oceanography , Oceanography Research Assistant

<i>Education</i>	2009	National Board Certification, Teaching , Adolescence/Young Adulthood Mathematics
<i>&</i>	2002	Pacific Lutheran University, Teaching Certifications , Environmental/Earth Science, Mathematics, Physics
<i>Training</i>	1993	University of Washington , M.S. Oceanography
	1989	UC San Diego , B.S. Physics, studies in Aquatic Biology and Zoology
		Environmental Science Certificates:
		Protected Species Observer Certification
		Cetacean Passive Acoustic Monitoring Certificate
		BOSIET (offshore helicopter, fire suppression, emergency medical)
		Bureau of Ocean and Energy Management - Approval for Wind Energy Monitoring
		National Marine Fisheries Service - Approval for Wind Energy Monitoring
		Operations & Dredging Endangered Species System (ODESS)
		Eastside Fire and Rescue Academy , Emergency Medical Technician
		9-1-1 Whatcom Police Dispatch , Call Receiver

Relevant Highlights

Bell Creek Science Services: I founded this consulting business in 2018 to capitalize on my blend of science, education, and communication expertise. Services include:

- Writing, editing, publication support, simplify and condense complex scientific content, create and fact-check materials prior to publication, literature searches, edit English-as-a-Second-Language research articles
- Curriculum development, create outreach materials, draft scientific posters, prepare PowerPoints presentations, plan and facilitate public outreach events, meetings and classes
- Liaison between the general public and elected officials in response to scientific disputes, represent groups through presentations or seminars, assist with identification and development of durable partnerships
- Field work, includes monitoring of cetaceans, collection of high-altitude tree DNA, classifying downed birds
- Develop and implement robust scientific study and resource management plans

Institute for Global Environmental Strategies Product Review, Education consultant

As needed, I review environmental science educational materials, compose detailed reports, recommend modifications, and take part in web conferences for final analysis. Recent projects include: (1) Analysis of sea-level rise in US estuaries and the impact on local species. (2) Evaluation of temperature projections using NASA's Goddard Institute Climate Model E2.

Caltech: Picked up a languishing project (STEMdex), performed a needs assessment, formed a working group, and found a technology group at Harvard that was willing to integrate our project into theirs. Supported work on four

NASA Universe of Learning (UofL) Programs, including team-writing scripts for NASA UofL videos. Performed fact verification. Edited proposals and research papers. Supported public events and meetings.

Education & Education Management: Taught Calculus, Physics, Environmental Science, Biochemistry, Forensics/Law. Managed teams and budgets. Represented the department and district at meetings and public events. Wrote grant proposals. Managed a Pearson Education team scoring National Board portfolios. Interfaced with stakeholders to achieve initiatives to support indigenous students during periods of high absenteeism due to tribal events.

Additional Information & Activities

Technology: Very high-level proficiency with MS Office suite (Word, Excel, PowerPoint, OneNote) and with tools for web conferencing and communication (e.g., Zoom, Slack). Some experience with QGIS.

Salish Sea Expeditions

Wrote grant proposals to fund 30 students for multiday science and sailing experiences. On each trip, we addressed a scientific hypothesis by collecting and analyzing hydrographic data.

Underwater BOTS for Girls in Science

Wrote two successful National Science Foundation grant proposals to develop, market and execute an underwater LEGO robotics program for junior high females.

Adventure Scientists, *field data collection*

Summer 2020: Wild and Scenic Rivers. Our data sampling will empower river managers to preserve water resources that support fish, wildlife, and human communities.

Summer 2019: DNA collection of Pacific Northwest Alaska Yellow Cedar, to enable the US Forest Service to compile genetic databases which could ensure legal harvesting of wood.

Whatcom Wildlife Rehabilitation— *ongoing, weekly, since April 2018*

Train new volunteers, tube feed juvenile birds and mammals, prepare animal diets, provide enrichment, clean, assist with necessary surgical procedures.

COASST, [*Coastal Observation and Seabird Survey Team*] – *since Dec 2017*

Monthly solo surveys to locate and identify downed birds at Point Whitehorn, near Birch Bay, WA.

Medical and Emergency Response: 9-1-1 Call receiver, volunteer fire and rescue, active member of Bellingham Mountain Rescue Council.

Publications and Certificates

(some under prior name: McCallister-Roberts)

Petroske, T. (2020), The Status of Consultation and Consent with Indigenous Peoples, Thirty Meter Telescope (TMT) White Paper, TMT Basecamp, Nov 2020.

Petroske, T. (2020), Placemaking in Natural Spaces and Culturally Sensitive Localities – A Literature Review, Thirty Meter Telescope (TMT) White Paper, TMT Basecamp, Sept 2020.

Rebull, L.M., **T. Roberts**, et al., Motivations of Educators for Participating in an Authentic Astronomy Research Experience Professional Development Program, Physical Review Physics Education Research, 14, 010148, June 2018.

Rebull, L, D. French, W. Laurence, **T. Roberts**, et al. (2018), Major outcomes: An Analysis of 8 years of Data from NITARP, *Physical Review Physics Education Research*, 14, 010148, June 2018.

L. M. Rebull, M. Fitzgerald, **T. Roberts**, et. al., The NASA/IPAC Teacher Archive Research Program (NITARP), Physics Education, arXiv:1804.08743, April 2018

Roberts, Tracyanne M. Boys, Girls, and the Pursuit of Science. *Astrobites*, Astrobites, 11 Aug. 2017, astrobites.org/2017/08/12/boys-girls-and-the-pursuit-of-science/.

Roberts, Tracyanne M. STEMdex Technical paper, NASA UofL Basecamp, 2017.

Roemmich, D, **T. McCallister** and J. Swift, (1991), A Transpacific Hydrographic Section along Latitude 24 N: Distribution of Properties in the Subtropical Gyre. *Deep-Sea Research*, Vol. 38, supplement 1A, pp S1-S20.

Roemmich, D. and **T. McCallister** (1989), Large Scale Circulation of the North Pacific Ocean. *Progress in Oceanography*, Vol. 22, pp 171-204.

