

Environmental Toxicology

Chronic Effects/Case Studies



The Northwest Environmental Training Center presents:

Chronic Effects and Toxicity of Contaminants to Organisms in Aquatic and Marine Systems Case Studies in Environmental Toxicology

Course ID: ETOX-420
July 17, 2008, 8:30 A.M. to 5 P.M. (Thursday)
Emerald Bay at the Bellingham Yacht Club
2625 S Harbor Loop Drive
Bellingham, Washington

Instructor: Ruth M. Harper, Ph.D.

Description: The emphasis of this class is on the toxicity of contaminants to organisms in aquatic and marine systems. In the recent history of environmental toxicology, the understanding of the potential for non-lethal effects to low levels, environmentally realistic concentrations, of contaminants has increased. This has resulted in a focused assessment of what effects to look for, how these effects occur, and what contaminants cause the effects and at what concentrations.

These sublethal effects can decrease the fitness of exposed populations, and are an important component to consider when contaminant exposures are possible. Four general categories of sublethal effects will be discussed using examples from the literature and government documents. Discussions on controlled studies will be used to help guide an understanding of the modes through which effects occur and field studies will be discussed as they contribute to our understanding of these effects.

Course Topics

Behavioral Effects	Immunotoxicity
Reproductive Effects	Endocrine Disruption

Direct and indirect effects will also be included in course material.

Prerequisites: ETOX-410 recommended but not required.

Intended Audience:

After Completing this Course:

Course Materials: All participants will receive a binder containing course proceedings, references, and resources.

Credit: 0.7 Continuing Education Units (CEUs)

What to Bring: Pen or pencil, coffee mug and water bottle (to reduce waste).

Registration: \$250 (*\$195 reduced tuition available for Native American tribes; government employees; nonprofits; students; and [NAEP](#), [NEBC](#), [NWAEP](#) members). You may register via the link below or by calling the Northwest Environmental Training Center at 206-762-1976.

Cancellation Policy: *Registration fees are fully refundable up to 30 days prior to the event and 50 percent refundable (or 100% credit) thereafter up to 3 business days prior to the event. No refunds are issued for cancellations occurring less than 3 business days before the start day. Course registration fees and cancellation policy are subject to change without notice.*

Disability Accommodations: *To request disability accommodations, please contact us at info@nwetc.org or (206) 762-1976 at least 30 days prior to the event.*

Northwest Environmental Training Center

A nonprofit 501(c)(3) program of the Northwest Environmental Education Council
650 S. Orcas Street, Suite 220, Seattle, Washington 98108
Phone: (206)762-1976, Fax: (206)762-1979
www.nwetc.org



Bellingham
Washington

Directions to:

Emerald Bay at the Bellingham Yacht Club

2625 S Harbor Loop Drive
Bellingham, Washington 98225
(800) 449-4393
<http://emeraldbayevents.com/>

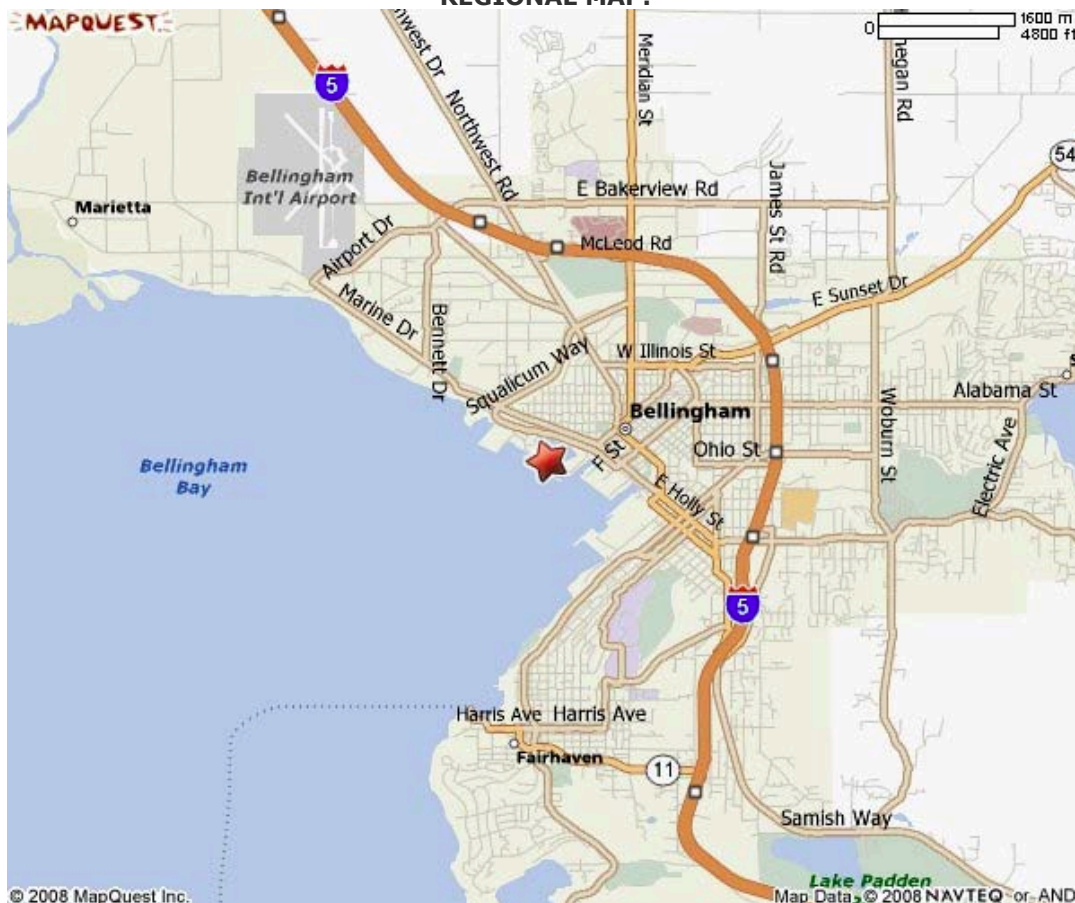
AMTRAK CASCADES: station is approximately 5 miles away: <http://www.amtrak.com/>
INTERCITY BUS: <http://www.greyhound.com/> or <http://www.airporter.com/>

FROM I-5 (North or South)

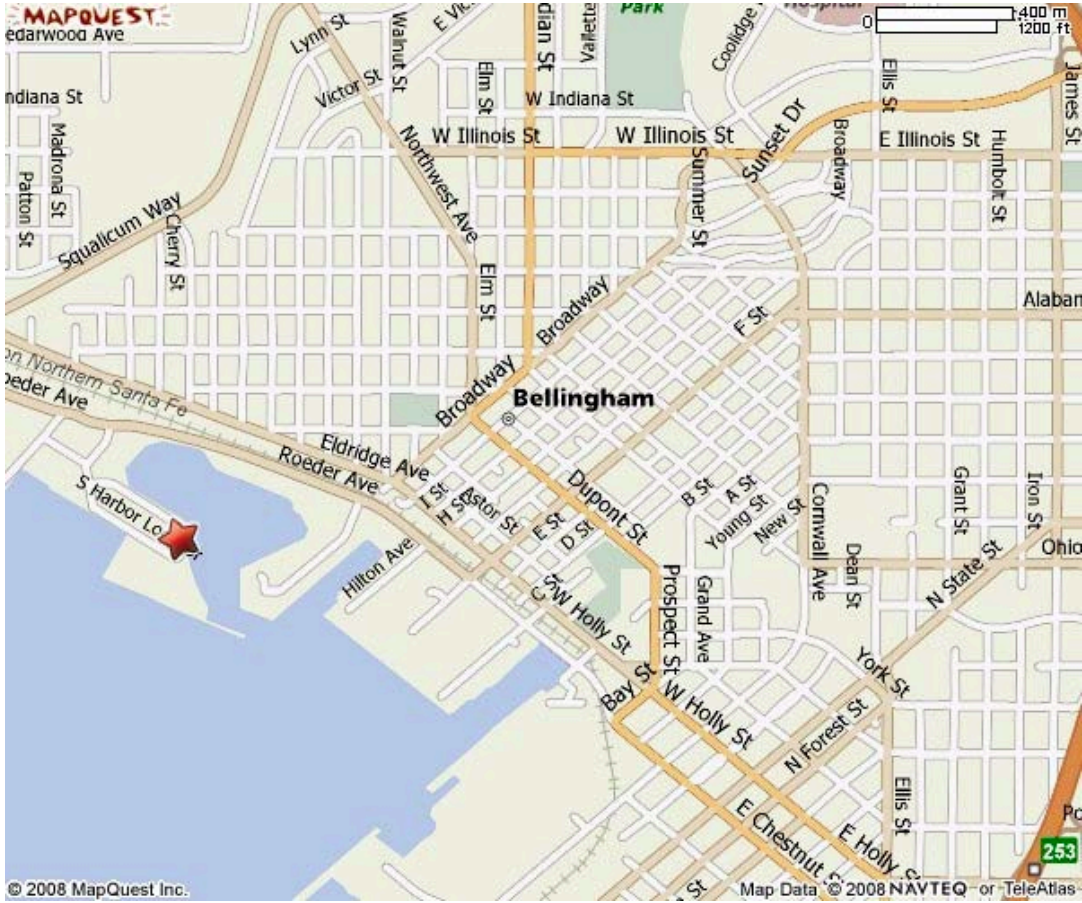
Take exit 256 (Meridian Street)
Turn right on Meridian Street (southbound)
Turn right on Squalicum Parkway
Slight left at Roeder Avenue
Turn right at Coho Way
Turn left at S Harbor Loop Drive

Bellingham & surrounding county busses: <http://www.ridewta.com/>

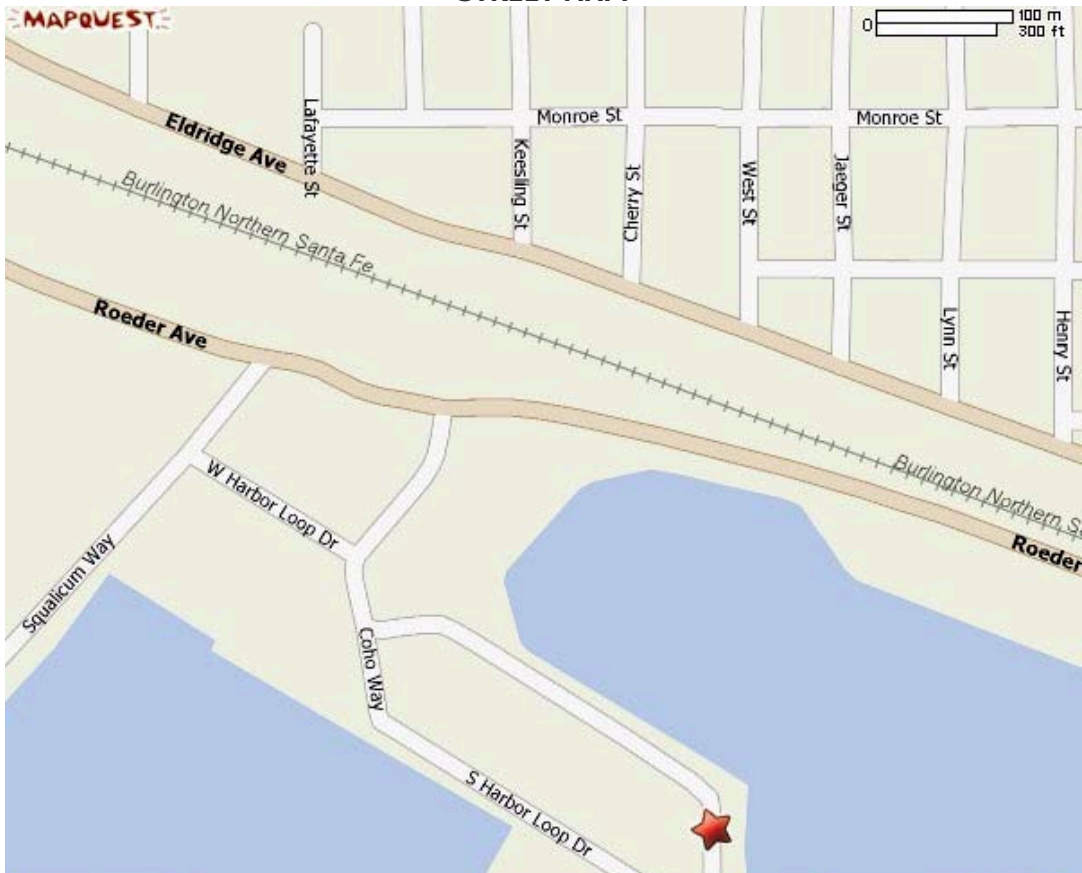
REGIONAL MAP:



CITY MAP:



STREET MAP:





Bellingham
Washington

ACCOMMODATIONS near Emerald Bay at the Bellingham Yacht Club

Workshop location: [2625 Harbor Loop Drive, Bellingham, WA 98225](#)

<p>Hotel Bellwether 1 Bellwether Way Bellingham, WA 98225</p>	(877) 411-1200	<p>Lions Inn Motel 2419 Elm Street Bellingham, WA 98225</p>	(360) 733-2330
<p>Best Western Lakeway Inn 714 Lakeway Drive Bellingham, WA 98229</p>	(360) 671-1011	<p>Rodeway Inn 3710 Meridian Street Bellingham, WA 98225</p>	(360) 738-6000
<p>Days Inn Bellingham 215 North Samish Way Bellingham, WA 98225</p>	(360) 734-8830	<p>Val-U Inn 805 Lakeway Drive Bellingham, WA 98229</p>	(800) 443-7777
<p>Travelodge 101 North Samish Way Bellingham, WA 98225</p>	(360) 733-8280	<p>Chrysalis Inn 804 10th Street Bellingham, WA 98225</p>	(888) 888-0005

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NORTHWEST ENVIRONMENTAL TRAINING CENTER

650 S Orcas Street, Suite 220, Seattle, Washington 98108

Ph: (206)762-1976, Fax: (206)762-1979

www.nwetc.org

REGISTRATION FORM

Name: _____ Today's Date: _____

Agency/Organization: _____

Street Address: _____

Street Address (cont'd): _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____ Title: _____

Chronic Effects and Toxicity of Contaminants to Organisms... \$ _____

Course ID: ETOX-420 July 17, 2008, 8:30 A.M. to 5 P.M.

Emerald Bay at the Bellingham Yacht Club 2625 S Harbor Loop Drive

Bellingham, Washington

Registration: \$250 (\$195*)

*Reduced rates for Native American Tribes; nonprofits; government; students; and AFS, NEBC, NAEP, RMAEP members.

Payment Method: Check PO Visa Mastercard Total: \$ _____

Credit Card or PO #: _____ Exp: _____

Notes: Please make checks payable to Northwest Environmental Training Center.

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