



LONG TOM WATERSHED COUNCIL

September 2018

Action
Through
Understanding

Public Meeting Invitation

Geologic History of the Long Tom Watershed

Tuesday, September 25, 6 - 8 p.m.

Veneta Community Center (25192 E. Broadway Ave., Veneta)



Photo USGS

Left: Soil scientist Karin Baitis posing next to a bank of the Willamette River formed from by the Missoula Floods. These silts are ~ 8-10 feet thick and were created during the Missoula Floods. Right: Crater Lake is the remnant of former Mount Mazama.

Meeting Topics:

- What this area likely looked like thousands of years ago
- How geomorphic processes and major events (like the Missoula Floods and Mount Mazama eruption) shaped our region
- How geologic events have influenced the soil of the valley floor in places like the West Eugene Wetlands and Amazon Creek basin.
- Likely evolution of the Long Tom River’s path over its history

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The Long Tom Watershed Council serves to improve water quality and watershed condition in the Long Tom River basin and surrounding drainages through education and collaboration among all interests, using the collective wisdom and voluntary action of our community members.

www.longtom.org



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751 S. Danebo Ave., Eugene, OR 97402

• Phone: (541) 338-7055 • Email: coordinator@longtom.org



September 25: Geologic History of the Long Tom Watershed

Thousands of years ago, the Long Tom Watershed, along with the entire Willamette Valley and much of the Pacific Northwest, were sculpted by potent geologic processes. One such event was the eruption of Mount Mazama, approximately 7,700 years ago. This formerly 12,000+ foot mountain erupted and deposited ash over a wide swath of the Northwest, including the Willamette Valley. The caldera it left behind is the iconic Crater Lake.

The Missoula Floods mark another significant series of events in our area's history toward the end of the last ice age, approximately 15,000 years ago. Ice dams in the northern Columbia River Basin would periodically rupture, and the backed up glacial melt would result in powerful floods from Spokane to Eugene (see map at right), and these floodwaters would scour the landscape and deposit thick layers of silt.

The watershed is also very slowly, but constantly, being shaped today as it has in the past by the more constant and long-term forces from wind, water, and the movement of the Earth's plates. Learn about these processes, both slow and abrupt, which have altered the appearance of our watershed over time—including the flow and direction of the Long Tom River itself. These historical events and ongoing processes are in large part why the Willamette Valley looks the way it does today, and are responsible for many of the wetland habitats and fertile soil we enjoy in our area.

You won't want to miss this captivating presentation!

Presenters



Left: Josh Roering, University of Oregon professor in the Geological Sciences Department. Right: Karin Baitis, retired soils scientist for the Eugene District Bureau of Land Management



Image courtesy of DOGAMI

LTWC public meetings are free and open to all! Light refreshments will be provided. Questions? 541-338-7055 or operations@longtom.org

An artistic glimpse into the Willamette Valley's history. This LIDAR rendering of the Willamette River shows how its path changed over 15,000 years. The section shown is from Independence (left) upstream to Albany (right) with the Luckiamute River joining from the west (bottom) and Santiam from the east (top). Image: Daniel Coe, DOGAMI



21st Annual Meeting & Celebration—Registration Now Open!

Monday, October 22, 5:30—8 p.m.

WildCraft Ciderworks Tasting Room

232 Lincoln St, Eugene

“Connecting Communities for Watershed Health”

Featuring:

- **Program on how the work of the Urban Waters & Wildlife Program fits into the bigger picture of a healthy Long Tom Watershed!** Short presentations by technical volunteer Kevin Shanley, Jodi Sommers of Essex General Construction, and Melissa Koke of QSL Print Communications.
- **Delicious spread of Thai tapas** prepared by Krob Krua
- **Fantastic cider** as well as non-alcoholic beverages
- **Live music by the Eugene City Barnstormers!**
- **Watershed awards**—join us in appreciating this year’s outstanding volunteers and community partners!
- **Election of volunteer board members**
- **The very best in watershed community!** Talk with fellow neighbors, community members, and LTWC board and staff.



Register by October 15!

How to register: Online or send check with enclosed registration form, payable to LTWC, to 751 S. Danebo Ave., Eugene, OR 97402

* longtom.org/annualcelebration2018 *

Tickets: \$25/person, \$15/child (kids under 10 free), and \$60 for family of 3 or more

Don't miss our biggest event of the year!

Questions: Contact Sarah Pollock or Rob: 541-338-7055

Receive a Gift for your Gift!

Receive a Long Tom Watershed **gift when you include a donation with your ticket!** Gifts based on the following donation tiers:

- \$25 Receive 2 beverage tickets (alcoholic or non)
- \$50 Plush River Otter (LTWC logo on bandanna)
- \$100 Steel Pint Glass w/LTWC logo + 2 drink tickets
- \$100 Family Package! Plush River Otter + 3 drink tickets
- \$175 Case of WildCraft Urban Apple Drive Cider + 2 drink tickets
- \$250 Receive your copy of *Along the Long Tom River: Observations from Past & Present* by David Turner + Plush River Otter +2 drink tickets!!

Recent Gifts - Thank You for Your Support!

Individual or General Gifts: Deborah Mailander, Richard Morgan

Annual Celebration Gifts: Mike Brinkley, Ryan Collay, Ginnie Grilley, Gary Holzbauer, Alec & Donna Hrynyshyn, Darian Lightfoot, Richard Margerum, Patricia McDowell, John Moriarty, Kevin Shanley, Jabrila Via

Urban Office Space Rent Contribution: Lee & Veronica Davis

Stock Donation: Anonymous gift of over \$25,000

A Special THANK YOU to Linda and Doug Carnine for generously gifting over \$30,000 in timber revenue from the Andrew Reasoner Wildlife Preserve oak restoration project to the Council! Those funds will be directed toward the Team TEK Native Youth Internship Program.



WildCraft Cider Works launches Community Apple Drive!

The Community Apple Drive is on! Our partners at WildCraft Cider Works are launching this community effort again to benefit local nonprofit organizations including LTWC! WildCraft is collecting donations of apples from folks across the watershed, and they will donate 10% of all proceeds to Council from the sales of the Long Tom branded Urban Orchard Apple Cider brewed from those apples!

From now through November, deliver any extra apples from your orchard, backyard trees, or neighborhood to the WildCraft Cider Mill & Tasting Room: 232 Lincoln Street, Eugene. This year's Urban Orchard Apple Cider will be released at WildCraft's Harvest Party event, on Friday & Saturday, October 5th and 6th.

Thank you to owner Sean Kelly and the entire WildCraft team for their community vision and generosity!

For more information of the Community Apple Drive and Harvest Party, Visit wildcraftciderworks.com/ for more information.



Support LTWC when you make purchases at Amazon.com!

You can support LTWC and the health of our watershed every time you shop at Amazon.com using "Amazon Smile." Amazon will donate 0.5% of each purchase made through this link to LTWC! It's simple, doesn't cost you anything extra, and best of all, it gives us extra cash for cool projects to enhance our local streams and habitat.

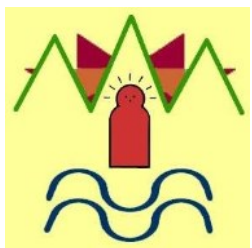
To begin, go to smile.amazon.com to log in and indicate you want to support LTWC with your purchases. Once you've registered your account with Amazon

Smile, **remember you need to type in smile.amazon.com each time you make a purchase in order for us to receive a percentage!** Once you're logged in, entering "smile.amazon.com" is just like going to Amazon's main page.



Youth Internships for Native American Students:

LTWC Team TEK accepting applications for Fall 2018



The Team TEK Internship Program is resuming for fall 2018! The LTWC Team cohort will consist of a small group of Native American youth and their families with an interest in learning and using Traditional Ecological Knowledge (TEK) and Tribal wisdom in the Long Tom Watershed and southern Willamette Valley. Both high school and college aged students are eligible to participate.

The program will resume on the fall equinox. On September 22nd, we'll kick things off at a gathering on the Andrew Reasoner Wildlife Preserve and continue through the season until winter solstice.

The Team TEK Internship Program emphasizes working as a group to approach TEK in several ways to share a better understanding of what is involved in the restoration of habitat. Learning and teaching will include traditional Tribal culture, outcome and standards-based lessons, hands-on, "place-based" projects, and opportunities to make the a learner into the teacher. Interns will also be able to build off curriculum and topics introduced earlier this spring, hear from guest speakers, and attend educational field trips to learn cultural practices from Native educators.



We can help interns with transportation costs, and all the materials, supplies, and tools necessary will be provided. A \$1,000 stipend will be provided to participants who successfully complete the program. Families are strongly encouraged to participate at every point along the way!

If you or someone you know may be interested in learning more, email Team TEK at TTEK@teamtek.org.

Monroe Area Christmas Tree Farm Wins Award!

Congratulations to Stroda Brothers Farm Christmas Tree Lot! They were awarded the grand champion tree in the Pacific Northwest Christmas Tree 2018 contest as part of the Pacific Northwest Christmas Tree Association's 2018 Tree Fair.

The winning tree, a Turkish fir pictured at right, was entered in a contest that included all Oregon and Washington tree growers.

Kudos to Stroda Brothers Farm on the recognition for this Long Tom grown tree!



Photo Stroda Bros. Farm

Highlights of Upcoming Work this Year

This summer, LTWC's Board of Directors approved the Council's annual work plan for Fiscal Year 2019 (July 1, 2018 - June 30, 2019). Below are a some highlights from a few of our major program areas. For a more comprehensive view, our full annual Work Plan is available at longtom.org/about-ltwc/action-plan. If you have any thoughts or questions about work this year, feel free to contact Clinton Begley: 541-654-8965, coordinator@longtom.org.

Lower Long Tom Community Outreach

We have secured grants from the Hewlett Foundation and Oregon Watershed Enhancement Board to continue engaging Monroe area stakeholders. The Council, Army Corps, and Monroe community are working collaboratively to decide the best fish passage solution for the lower Long Tom River that maximizes watershed benefits and also meets community needs. Funding is also secured to create conceptual designs for potential fish passage solutions at the Monroe dam.



Traditional Ecological Knowledge Internship Program

After conversations with area Tribes, Native youth organizations, local elders, educators, and interested partners, Team TEK developed an internship program last spring for Native American youth. We're currently preparing to start our fall cohort of the Team TEK internship program, and hopefully continue for the 2018-19 school year. The program facilitates opportunities for Native youth to learn about traditional knowledge, language, history, and habitat restoration practices.



Uplands Habitat Restoration

Project implementation to improve rare oak savanna, oak woodland, upland prairie, wet prairie, and wetland habitat will occur on seven sites this year. We're also continuing to expand our understanding of restoration techniques on these habitats, particularly by exploring cross cultural communication to incorporate traditional ecological knowledge from indigenous cultures, building skills and awareness for the controlled use of fire as a restoration tool, and exploring biochar creation as an alternative to restoration slash.



Urban Waters & Wildlife Program

This year, we'll continue to collect pesticide data and provide technical assistance to businesses in the form of feasibility studies, sharing of best management practices, and the implementation of stormwater projects. We also have funding to focus on improving water quality in the Amazon basin upstream of the City of Monroe's drinking water intake, and we're expanding our services to perform feasibility studies for businesses in the communities of Monroe, Junction City, and Veneta.



Upcoming Events

SAVE THE DATE

Biochar: Know It, Make It, Use It

Workshop for resource professionals, landowners & others
Tuesday November 6, 2018 | 9:30 a.m. – 2 p.m. Indoor workshop | Free

Wednesday Nov. 7 – Thursday Nov. 8, 2018 | Outdoor biochar creation demonstrations on oak habitat restoration project sites in the Long Tom Watershed | Drop in 9-5 | Free

Stay tuned for more information in our next newsletter

November 27th Public Meeting:

History and Culture of the Confederated Tribes of the Siletz, presented by Joe Scott. 6—8 p.m. Location TBD. Stay tuned!

June 26th Public Meeting Recap

Thank you to the 30 or so community members who gathered at the Hrynshyn property for a restoration project tour along Owens Creek. We especially want to thank Al and Donna Hrynshyn for hosting and David Walp for an engaging and educational talk on area wildlife!



The Long Tom Watershed Council, a local nonprofit, counts on participation from many people and organizations. The local office of the Bureau of Land Management (BLM) donates postage for our mailings. They use the following disclaimer, standard procedure for all BLM partnerships:

BLM Disclaimer: "The views and conclusions contained in this document are those of the authors and should not be interpreted as representing the opinions or policies of the U.S. Government. Mention of trade names or commercial products does not constitute their endorsement by the U.S. Government."

The Long Tom Watershed Council is still a local nonprofit (since 1998) with no government authority. We partner with local people, businesses, and agencies in the interest of finding local solutions and bringing grant funding from private and public sources to do restoration, education, and monitoring work in the Long Tom River basin. We're thankful for the donation of postage expenses!

LTWC Board of Directors

Lower Long Tom

Steve Horning
 Alec Hrynshyn

At Large

Ginnie Grilley, *Vice-Chair*
 Darian Lightfoot
 Pat McDowell
 Jonathan Powell, *Treasurer*

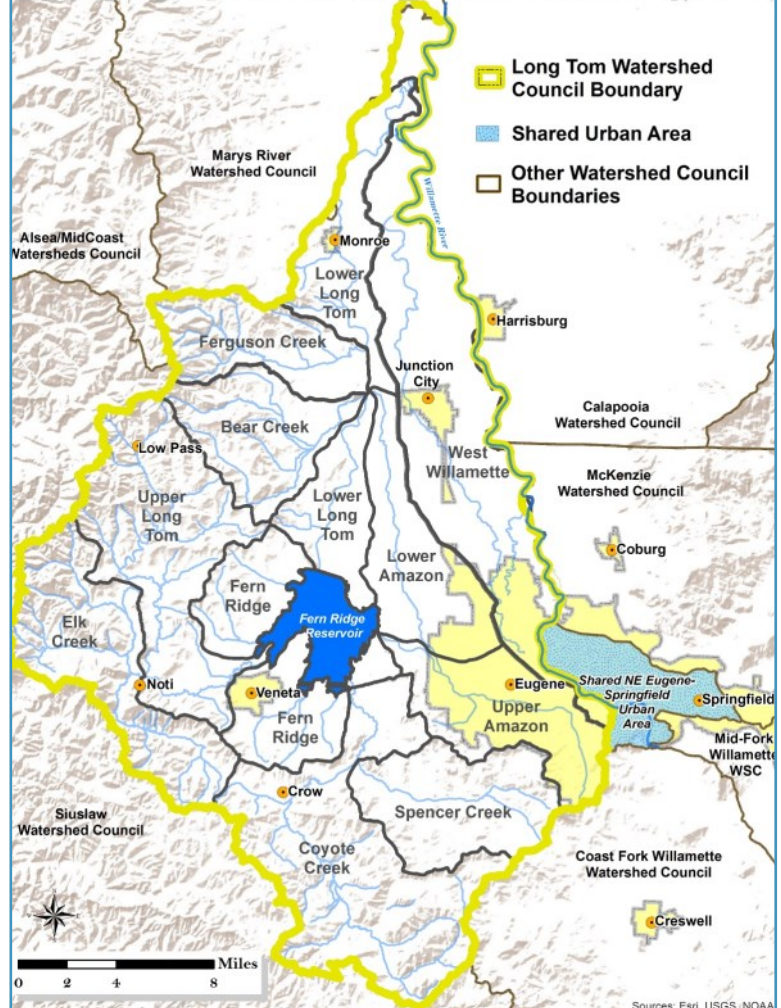
Upper Long Tom

Lindsay Reaves
 Jabrila Via

Amazon

Shelly Miller, *Chair*
 Dave Thomas, *Secretary*

Long Tom Watershed Sub-basins & Area of Work



Council Staff Contacts

Clinton Begley, Watershed Coordinator/ED: 541-654-8965

Rob Hoshaw, Operations Director: 338-7055

Dana Dedrick, Special Projects Lead: 654-8965

Jed Kaul, Fish Biologist: 338-7058

Katie MacKendrick, Ecologist: 338-7033

Sarah Whitney, Urban Habitat & Stormwater: 654-8965

Amanda Reinholtz, Habitat & Water Quality Spc: 338-7060

Heidi Heisler, Fiscal Manager: 338-7042

Sarah Pollock, Administrative Assistant: 338-7055

Summer Paddle & Pull Events—Thank you, Volunteers!

We would like to extend a huge thank you to the volunteers who helped with our July and August Paddle and Pull events! More than 15 volunteers spent a Saturday morning (or two!) giving back to the Long Tom by scouring the streambanks by canoe to hand-pull the highly invasive water primrose, or Ludwigia. The volunteer events were held on Clear Lake (part of the Amazon Creek system near the Eugene Airport) and on the Long Tom River just south of the Monroe dam.

Ludwigia is an extremely aggressive aquatic weed that forms dense mats along the water's edge or on shallower, slower-moving bodies of water, so this work is critically important in efforts to suppress upstream source populations of Ludwigia and limit its spread to the rest of the watershed and Willamette Valley.

Our hard-working volunteer crews included new volunteers, project partners, and former board members. It is always wonderful to see happy people out enjoying and caring for our river!

Thank you for all your work on behalf of the watershed!



Register for LTWC's 21st Annual Meeting & Celebration!

Monday, October 22nd, 5:30 - 8:00 p.m. WildCraft Cider Works Tasting Room
232 Lincoln St., Eugene

Go to www.longtom.org for easy online registration

Please send with check payable to: Long Tom Watershed Council (LTWC), 751 S. Danebo Ave, Eugene, OR 97402

Name(s) of attendees: _____

Organization: _____ Phone: _____

Email: _____ Dietary preferences: _____

Ticket & Payment Information • \$25/adult • \$15/child (children under 10 free) • \$60/family

Adult Tickets _____ @ \$25 each: \$ _____

Child Tickets (kids under 10 free) _____ @ \$15 each: \$ _____

Family Ticket (1 or 2 adults and kids) @ \$60: \$ _____

Subtotal: \$ _____

Yes! I would like to donate a tax-deductible gift of: \$25 \$50 \$100 \$175 \$250 Gift Amount: \$ _____

Receive a Long Tom Watershed gift when you include a donation with your ticket!
(See reverse for details)

Total Enclosed: \$ _____