



Welcome to Full Circle Newsletter

■ **We Are Accepting Applications for the Tribal Waste and Response Steering Committee**

We are now accepting applications for our Tribal Waste and Response Steering Committee. We will be accepting up to six tribal professionals, who work for federally-recognized tribes or Alaska Native Villages, in the fields of solid waste, brownfields, Superfund, USTs, and/or emergency response.

This Steering Committee plays several critical roles, including developing an annual Priority Document for the USEPA and National Tribal Caucus, providing two-way communication between Tribes and federal agencies, and working with ITEP on the Tribal Lands and Environment Forum. Please visit http://www7.nau.edu/itep/main/Waste/waste_ntsc to learn more about this Steering Committee.

If you are interested in being considered for this Steering Committee, please visit the website above to download an application. The deadline for applications is May 25, 2018. If you have any questions, or want an application, please do not hesitate to contact Todd Barnell at todd.barnell@nau.edu.

■ **Proposals Being Accepted For the 2018 TLEF**

ITEP is currently accepting proposals for breakout sessions and trainings at the 2018 TLEF, which will be taking place August 13-16, 2018 in Spokane, Washington. This is your chance to showcase your Superfund, emergency response, UST, brownfield, solid waste, or Tribal water projects and programs. The deadline for proposals is **May 4** so don't delay!

Your TLEF team and the Tribal Waste and Response Steering Committee are also developing several exciting field trips and special presentations for this year's TLEF. Be sure to visit our website at http://www7.nau.edu/itep/main/Conferences/conf_tlef, where you can register, submit your session proposals, sign up for a table at the Multi Media Meetup, and learn more about the TLEF.

■ **Tribal Initiatives in Marine Debris and Ocean Management**

Marine debris, an increasingly important topic, has been in the news recently. Most recently we have learned about the increasing size of the Great Pacific Garbage Patch¹ and research findings that state the dangers that microplastics are having on some of the filter-feeding marine megafauna². From time to time we hear encouraging stories where communities are working towards solutions at the local, national, and international level. Tribes along the coast are really seeing these effects and doing something about it.

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■ **Full Circle Network**
Did someone forward this newsletter to you? Send an email to Todd Barnell to subscribe or unsubscribe to the newsletter. Archived issues can be found at: www7.nau.edu/itep/waste

Cleaning up the mess that ends up on coastal Tribal lands is a huge effort. The Coquille Tribe has partnered up with NOAA, the Surfrider foundation, and Oregon environmental organizations to engage youth in community service learning projects for prevention and removal of marine debris along Oregon coasts³. In Washington the Quinault Tribe⁴ and Stillaguamish Tribe (a member of the West Coast Marine Debris Alliance)⁵ have centered their initiatives on fisheries debris, by working to survey and develop recovery programs for lost crab pots and removing the pots when possible. The Makah Tribe has held beach clean ups along Washington coasts and are working to remove abandoned vessels from the Neah Bay Marina⁶. The Wiyot Tribe of California,⁷ and the Native Villages of Shishmaref, Wales, and Kotzebue⁸ have also led major efforts for marine debris removal along the North Pacific coasts.



ups along Washington coasts and are working to remove abandoned vessels from the Neah Bay Marina⁶. The Wiyot Tribe of California,⁷ and the Native Villages of Shishmaref, Wales, and Kotzebue⁸ have also led major efforts for marine debris removal along the North Pacific coasts.

Staying involved in marine planning for the protection of ocean ecosystems is just as important. Tribes with marine planning departments and members involved in regional and national planning efforts are increasing. When new Marine Protected Areas were proposed in California, the InterTribal Sinkyone Wilderness Council made sure Tribal input and protections were included⁹. In 2017, representatives from the Confederated Tribes of Grand Ronde and the Confederated Tribes of Coos, Lower Umpqua and Siuslaw have collaborated on the Oregon Marine Debris Action Plan³. On a national level, 13 Tribes are represented in the West Coast Regional Planning Body to plan and manage ocean ecosystems¹⁰. The Tolowa Dee-ni Nation in Northern California opened up dialog of Native management initiatives by coordinating the Indigenous Ocean Science Forum in 2013¹¹. Here, Pacific coast Tribes worked together to develop a Common Tribal Marine Planning Framework¹² which incorporates Tribal values and Traditional Ecological Knowledge to guide sustainable ocean activities and management.

So give it up for these Tribes and others who are taking initiative on solutions to marine debris and ocean ecosystem management. Now, the next time you see a water bottle rolling around from the wind, lend a hand to Tribes down river/wind and find the best way to recycle or re-use it. And remember that refusing single use items and plastic is another way to help. For more reading on these issues follow the links below.

Photo: <https://marinedebris.noaa.gov/discover-issue>.

1. Great Pacific Garbage Patch Article: <https://news.nationalgeographic.com/2018/03/great-pacific-garbage-patch-plastics-environment/>.
2. Microplastics and filter feeding megafauna: <https://news.mongabay.com/2018/03/microplastic-pollution-in-worlds-oceans-poses-major-threat-to-filter-feeding-megafauna/>.
3. Oregon Marine Debris Action Plan: https://marinedebris.noaa.gov/sites/default/files/publications-files/2017_Oregon_Marine_Debris_Action_Plan.pdf.
4. Quinault Marine Resources Program: <http://qlandandwater.org/departments/fisheries/marine-resources/>.
5. Stillaguamish Tribe: <http://www.stillaguamish.com/derelictfishggear.asp>.
6. Makah Tribe: <https://marinedebris.noaa.gov/removal/removal-sunken-derelict-vessels-makah-marina-neah-bay-wa>.
7. Wiyot Tribe: <http://www.wiyot.us/ArchiveCenter/ViewFile/Item/49>.
8. Alaska Native Villages: <https://www.nps.gov/articles/aps-15-1-10.htm>.
9. InterTribal Sinkyone Wilderness Council: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=47378>.
10. West Coast Regional Planning Body: <http://www.westcoastmarineplanning.org/partners/>.
11. Smith River Rancheria Tolowa Dee-ni' Nation: <http://www.tolowa-nsn.gov/tcmsp/>.
12. Tribal Marine Planning Framework: http://www.tolowa-nsn.gov/wp-content/uploads/2013/02/Summary-Handout_Tribal-Data-Framework-and-Standards_v5_Final.pdf.

■ News and Resources of Interest

Tribal Waste Management Funding Resources

The Tribal Waste Management Funding Resources Directory is a searchable resource listing financial waste management assistance sources (grants, loans, cost-sharing) available to tribes and nonprofit organizations. Search at

<https://www.epa.gov/tribal-lands/tribal-waste-management-funding-resources-directory>

Interstate Technology Regulatory Council Annual Meeting

Interstate Technology Regulatory Council Annual Meeting is in Anaheim, CA. ITRC will bring together environmental professionals from across the country for an opportunity to network and collaborate on advancing innovative environmental solutions. 4/16-4/18/2018

<https://www.itrcweb.org/Meetings/Upcoming>

Environmental Literacy Grants: Supporting the education of K-12 students and the public for community resilience

The goal of this Federal Funding Opportunity (FFO) is to support the education of K-12 students and the public so they are knowledgeable of the ways in which their community can become more resilient to extreme weather events and/or other environmental hazards, and become involved in achieving that resilience. Many U.S. communities are increasingly contending with issues related to preventing, withstanding, and recovering from disruptions caused by extreme weather and other environmental hazards. 4/20/2018

<https://www.grants.gov/web/grants/view-opportunity.html?oppId=298495>

Unsafe Water a Problem for Canada's First Nations

At the Six Nations of the Grand River reserve, about 10 men are gathered in a classroom in the Haudenosaunee community center. The older men are teaching about traditions — on this day, a funeral ritual. But soon, Leroy Hill shifts the conversation to a new topic: water. Read more at

<http://greatlakes today.org/post/unsafe-water-problem-canadas-first-nations>

Melting Arctic Permafrost Could Release Tons of Toxic Mercury

A study published Feb. 5 in the journal Geophysical Research Letters reports that the amount of natural mercury bound up in Arctic permafrost may be 10 times greater than all the mercury humans have pumped into the atmosphere from coal-burning and other pollution sources over the last 30 years. Read more at

<https://news.nationalgeographic.com/2018/02/melting-arctic-permafrost-toxic-mercury-environment/>

Food Distribution Program on Indian Reservations Nutrition Education Grant

Desired outcomes include: Improve nutrition-related knowledge among FDPIR participants, resulting in healthier food choices and a better understanding of healthy food preparation methods. Foster tribal capacity to provide nutrition education through the development of nutrition education resources, such as lesson materials and videos, and facilities, such as food demonstration spaces and educational gardens. Develop skills among FDPIR participants, such as canning, preparing fresh produce, and using lower fat cooking methods, leading to greater self-sufficiency and providing participants with greater flexibility in how they utilize healthy foods. 4/16/2018

<https://www.grants.gov/web/grants/view-opportunity.html?oppId=300768>

Seed Systems Support Activity

This NFO seeks applications from organizations with demonstrated expertise in seed systems and proven management capabilities with the broad range of needed seed-related support services as well as innovative tools, approaches, information, and methods to develop and

deploy those critical support services. The goal of Seed Systems Support Activity (S3A) is to enhance farmers' access to a full range of seed choices and options to maximize their responsive decision making and planning for production. 4/23/2018

<https://www.grants.gov/web/grants/view-opportunity.html?oppId=300555>

EPA's Request for Proposals from Indian Tribes and Intertribal Consortia for Nonpoint Source Management Grants

Section 319 base funds may be used for a range of activities that implement the tribe's approved NPS management program, including: hiring a program coordinator; conducting NPS education programs; providing training and authorized travel to attend training; updating the NPS management program; developing watershed-based plans; and implementing watershed-based plans and on-the-ground watershed projects. 5/2/2018

<https://www.epa.gov/nps/nonpoint-source-tribal-current-grant-information>

Native American Fish and Wildlife Society National Conference

The Native American Fish & Wildlife Society (NAFWS) was incorporated in 1983 to develop a national communications network for the exchange of information and management techniques related to self-determined tribal fish and wildlife management. As a communication network organization, the NAFWS hosts a national conference each year. The conference is an opportunity for tribal natural resource managers, technicians, conservation law officers, government agencies, and many others, to receive training, network, share information, and discuss current technical information and legislative initiatives. 5/8-5/10/2018

<https://www.nafws.org/events/national-conference>

Research to Improve Native American Health

This opportunity provides grants for exploratory developmental research to improve Native American health through environmental health research, minority health and health disparities research, etc. including: conducting secondary analysis of existing data, merging various sources of data to answer critical research questions, conducting pilot and feasibility studies, assessing and validating measures that are being developed and/or adapted for use in Native American communities. 5/14/2018 <https://www.ruralhealthinfo.org/funding/4260>

Research to Action: Assessing and Addressing Community Exposures to Environmental Contaminants Funding

This Funding Opportunity Announcement encourages applications using community-engaged research methods to investigate the potential health risks of environmental exposures of concern to the community and to implement an environmental public health action plan based on research findings. The overall goal is to support changes to prevent or reduce exposure to harmful environmental exposures and to improve the health of a community. Deadline 5/8/2019

<https://www.grants.gov/web/grants/view-opportunity.html?oppId=298374>

■ Other Upcoming Trainings and Webinars

Do You Work For A California Tribe and Are Interested in FREE Managerial Trainings and Technical Assistance Workshops? EFCWest Wants To Hear From You!

Hello Tribal Water, Utility, and Environmental Managers. The Environmental Finance Center West (EFCWest), located in the San Francisco Bay Area, has been working with Tribes in California and throughout the southwest for over 15 years, providing workshops and technical assistance for waste, water, and energy planning and supporting initiatives for economic development, including business plans and feasibility studies. Help them customize their workshops and support opportunities to address your specific Tribal utility, environmental, and

management needs!

Please take their short survey at: [EFCWEST CA TRIBAL RESILIENCE PRE-WORKSHOP SURVEY](#)

For more information, please visit their [CA Tribal Resilience webpage](#).

EPA Region 8 Tribal Solid & Hazardous Waste Workshop, May 22-23 2018 in Pierre, SD
(Co-sponsored by the Lower Brule and Yankton Sioux Tribes). Come learn and talk shop with other tribes and federal, state and local agencies about solid and hazardous waste topics impacting tribal nations and what resources are available. Training will be a day and a half with a field trip to the City of Pierre Solid Waste Bailing Facility. Environmental Directors, Solid Waste Directors and staff are invited to attend. We have quite a few presenters lined up so I hope you can make it. To register, email George Honeywell at ghoneywell@lbtst-epo.org or call 605-730-2603. You can also contact me at hancock.roger@epa.gov, 303-312-6135. This workshop is being offered by US EPA at no cost.

Indian Country Class A/B UST Operator Training, May 16, 2018, Grand Mound, WA
By October 2018, Class A/B training is required by EPA for all Indian Country operators of regulated underground storage tank (UST) systems. This live training class by national recognized UST training expert Ben Thomas meets and exceeds EPA requirements. Learn about responding to alarms, preventing leaks and spills and protecting precious Tribal drinking water supplies. <https://usttraining.com/indian-country-class-a-b-live-course-may-16-in-wa/>

Society of Environmental Toxicology and Chemistry (SETAC) Focused Meeting
High throughput screening and environmental risk assessment. April 16-18, 2018 in Durham, NC. This is an opportunity to use the data and tools from these programs to address ecological health. The overall purpose of this meeting is to provide environmental toxicologists and risk assessors an introduction to high-throughput data and tools. <https://hts.setac.org/register/>

Third Annual Emergency Management Workshop, April 3-5, 2018 at the University of Nebraska at Omaha
RSVP and direct all questions to Sarah Krafka at skrafka@unomaha.edu.

Online Training: Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management
April 5, 2018, 1:00-3:15PM EST. To register please visit: <https://clu-in.org/conf/itrc/PVI/>



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➡ www.facebook.com/TEPNau

Learn more...

➡ [Tribal Waste and Response Assistance Program \(TWRAP\)](#)

TWRAP is a program focused on assisting tribes with all waste management, brownfields, USTs, contaminated sites, and response programs. This program is funded by the USEPA's Office of Land and Emergency Management.

➡ [Tribal Solid Waste Education and Assistance Program \(TSWEAP\)](#)

TSWEAP's focus is providing training and assistance to tribes working on solid and hazardous

waste management and diversion. This program is funded by the USDA, IHS, and USEPA.