



Welcome to ITEP's Tribal Climate Change Newsletter. This monthly newsletter provides news items, resources, announcements about funding opportunities, conferences, and training, and other information relevant to tribal climate change issues.

ITEP's Tribal Climate Change Newsletter

July 2018



New Pollinator Garden (1 of 4), Navajo Nation Zoo, Window Rock, AZ
Photo credit: Leanna Begay

Ya'at'teeh! Siyo! Boozhoo! Hello!

Monsoon season has arrived here in the Southwest! We hope everyone is getting much needed moisture to help with watering their agriculture fields and livestock, while also helping wildlife and reducing wildfire risk.

As we're enjoying the mid-summer season we have been busy preparing for the two remaining Climate Change Adaptation trainings. The next training will be in Choctaw, MS from July 31-August 2 and the last training will be in San Diego, CA from August 7-9. We are already planning for the 2019 season and we will hope to have some tentative dates and locations in the early fall season.

We'd also like to remind folks of the Tribal Lands and Environment Forum. If you're planning on attending and haven't registered its best to do so quickly. Online registration is open until August 3 with the registration fee of \$125. On-site registration will be available with the fee increasing to \$150. If you need more information please visit:

http://www7.nau.edu/itep/main/Conferences/confr_tlef.

We hope to see you at one of these events but if we don't please check out the Google Calendar for other events that may be taking place near you.

With that, we wish you well and look forward to seeing you soon!

-Nikki, Karen, Leanna, Colleen & Adrian

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Newsletter

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Tribes & Climate Change website

For more on tribes and climate change issues, visit ITEP's Tribes & Climate Change website at www7.nau.edu/itep/main/tcc/

In The News

RCCA hosting traditional Cherokee plant class Sunday

- The Rogers County Cherokee Association (RCCA) is hosting Cherokee Nation citizen, Dr. Melissa Lewis, for a traditional plants class which includes an overview of identifying and gathering plants as well as preparing and processing the plants for teas, syrups, and lip balms. The class is essentially home economics for Cherokees. The Claremore Daily Progress, 07/12/2018. http://www.claremoreprogress.com/news/lifestyles/rcca-hosting-traditional-choerokee-plant-class-sunday/article_ef897086-85d9-11e8-b477-a7595395cff4.html

Climate Change is Heating up Los Angeles. We Need a Grid That Can Keep the Power on When It's Sweltering

- The record-breaking heat that baked Southern California and prompted mass power outages last weekend was just a taste of what is to come. Summers in SoCal have already been getting hotter over the last century. Climate change is expected to produce more frequent and more blistering heat waves in the coming years that will put unprecedented stress on the electrical grid and challenge utilities to keep the power on. © Los Angeles Times, 07/12/2018. <http://www.latimes.com/opinion/editorials/la-ed-dwp-heat-storm-20180712-story.html>

Climate Change, Fossil Fuels, and Human Well Being

- Climate campaigners demand ever-greater government control over energy markets, resources, and infrastructure. Many believe the best thing governments can do with fossil energy is “keep it in the ground.” They claim fossil-fueled civilization is “unsustainable” and headed for a climate catastrophe. Are they correct? © Competitive Enterprise Institute, 07/11/2018. <https://cei.org/blog/climate-change-fossil-fuels-and-human-well-being>

NASA Scientists Track Climate-Changing Methane Leaks from the Air

- Science correspondent Miles O'Brien joins us from the atmosphere above Southern California, where NASA engineers leverage state-of-the-art technology to measure methane. Released through oil and gas production, livestock emissions, and organic waste, methane is about 85 times more potent at trapping heat than carbon dioxide. California wants to identify specific methane leaks so it can plug them. © PBS News Hour, 07/11/2018. <https://www.pbs.org/newshour/show/nasa-scientists-track-climate-changing-methane-leaks-from-the-air>

Climate Change Threat Sends Coffee Roaster on Bean Hunt

- Coffee lovers beware. Climate change is threatening supplies of high-quality beans with one Japanese coffee house hunting for the perfect bean to withstand the warmer conditions. © Bloomberg, 07/11/2018. <https://www.bloomberg.com/news/articles/2018-07-11/climate-change-threat-sends-japanese-coffee-roaster-on-bean-hunt>

Reshaping the Supreme Court: What 2 Dissents on Climate Rules Tell Us

- What frightens environmental advocates is how far out of step conservative justices have been with science in the past. It showed in Massachusetts v. EPA. © Inside Climate News, 07/10/2018. https://insideclimatenews.org/news/28062018/justice-anthony-kennedy-retirement-environmental-laws-climate-change-case-massachusetts-v-epa-supreme-court?utm_source=InsideClimate+News&utm_campaign=ee944cfe76-&utm_medium=email&utm_term=0_29c928ffb5-ee944cfe76-327881649

Global Temperature Rises Could be Double Those Predicted by Climate Modelling

- Researchers say sea levels could also rise by six meters or more even if 2 degree target of Paris accord met. © The Guardian, 07/05/2018. <https://www.theguardian.com/environment/2018/jul/06/global-temperature-rises-could-be-double-those-predicted-by-climate-modelling>

South East Asia to Bear the Biggest Burden as Climate Change Hits Nutritional Content of Crops

- Human health will suffer when climate change strips back the nutritional content of crops, according to new research, which has stated that South East Asia will bear the brunt of the burden. © Food Navigator Asia, 07/04/2018. <https://www.foodnavigator-asia.com/article/2018/07/04/south-east-asia-to-bear-the-biggest-burden-as-climate-change-hits-nutritional-content-of-crops>

Controversial Enbridge Line 3 Oil Pipeline Approved in Minnesota Wild Rice Region

- The new pipeline, opposed by Native American tribes, would increase the flow of Canadian tar sands crude oil, a contributor to climate change. © Inside Climate News, 06/28/2018. https://insideclimatenews.org/news/28062018/enbridge-tar-sands-oil-pipeline-minnesota-tribes-wetlands-watershed-route-approval?utm_source=InsideClimate+News&utm_campaign=ee944cfe76-&utm_medium=email&utm_term=0_29c928ffb5-ee944cfe76-327881649

These Are the Toughest Emissions to Cut, and a Big Chunk of the Climate Problem

- Without improvements in shipping, cement and steel, major sources of greenhouse gas pollution will be locked in for generations, new research shows. © Inside Climate News, 06/28/2018.
https://insideclimatenews.org/news/28062018/global-warming-pollution-industrial-sources-cement-steel-trade-solutions-technology-shipping?utm_source=InsideClimate+News&utm_campaign=ee944cfe76-&utm_medium=email&utm_term=0_29c928ffb5-ee944cfe76-327881649

Tropical Forests Suffered Near-Record Tree Losses in 2017

- In Brazil, forest fires set by farmers and ranchers to clear land for agriculture raged out of control last year, wiping out more than 3 million acres of trees as a severe drought gripped the region. Those losses undermined Brazil's recent efforts to protect its rain forests. © The New York Times, 06/27/2018.
<https://www.nytimes.com/2018/06/27/climate/tropical-trees-deforestation.html>

Atlanta Charts a Path to 100 Percent Renewable Electricity

- A City Council committee is considering three proposals. The goals: Make this Southern city a leader in renewable power and fight climate change. © Inside Climate News, 06/26/2018.
https://insideclimatenews.org/news/25062018/atlanta-city-council-renewable-energy-100-percent-clean-power-climate-change?utm_source=InsideClimate+News&utm_campaign=ee944cfe76-&utm_medium=email&utm_term=0_29c928ffb5-ee944cfe76-327881649

NOAA's Acting Chief Floated New Mission, Ignoring Climate Change

- He walked it back after a sharp reaction from scientists, but it's a stark example of Trump efforts to undermine federal work on global warming risks, advocates say. © Inside Climate News, 06/25/2018.
https://insideclimatenews.org/news/25062018/noaa-mission-climate-change-science-weather-research-oceans-coasts-timothy-gallaudet-trump?utm_source=InsideClimate+News&utm_campaign=ee944cfe76-&utm_medium=email&utm_term=0_29c928ffb5-ee944cfe76-327881649

Europe's First Solar Panel Recycling Plant Opens in France

- PARIS (Reuters) - French water and waste group Veolia has opened what it says is Europe's first recycling plant for solar panels and aims to build more as thousands of tonnes of ageing solar panels are set to reach the end of their life in coming years. © Reuters, 06/25/2018. https://www.reuters.com/article/us-solar-recycling/europes-first-solar-panel-recycling-plant-opens-in-france-idUSKBN1JL28Z?utm_source=InsideClimate+News&utm_campaign=ee944cfe76-&utm_medium=email&utm_term=0_29c928ffb5-ee944cfe76-327881649

IRS Issues Favorable Tax Credit Guidance for New Solar Projects

- The Internal Revenue Service released a new guidance Friday that establishes when the construction of a solar facility starts to qualify for the solar Investment Tax Credit. © Green Tech Media, 06/22/2018.
https://www.greentechmedia.com/articles/read/irs-issues-favorable-tax-credit-guidance-for-new-solar-projects?utm_source=InsideClimate+News&utm_campaign=ee944cfe76-&utm_medium=email&utm_term=0_29c928ffb5-ee944cfe76-327881649#gs.OmEL4zQ

Resources

Climate Change and Health Curriculum

- Understanding the connection between climate and health is essential for health professionals of all disciplines. © University of Minnesota, 2018. <https://globalhealthcenter.umn.edu/education/climatehealth>

Results and Highlights from the "Sea State and Boundary Layer Physics of the Emerging Arctic" Program

- A recent program funded by the Office of Naval Research, as a Department Research Initiative (DRI), has focused on the sea state and boundary layer physics of the emerging Arctic. © Arctic Research Consortium of the United States, 06/29/2018 <https://www.arcus.org/witness-the-arctic/2018/6/highlight/1>

Using Coproduction to Facilitate Climate Change Adaptation on Hawai'i Island

- On the remote island of Hawai'i, humans are intimately connected with a unique and dynamic natural environment. However, changing climate conditions threaten both the natural environment and human communities of Hawai'i Island and the entire Hawaiian archipelago. Communities and infrastructure are threatened by decreasing and more variable annual rainfall, coastal erosion, sea-level rise, increased storm intensity, and flooding. Impacts to plants and animals include the spread of invasive species, increased reef acidification, larger and more frequent wildfires, and changes in forest and forest bird communities. © USGS Climate Adaptation Science Centers,

06/28/2018. <https://casc.usgs.gov/content/using-coproduction-facilitate-climate-change-adaptation-hawai%CA%Bbi-island>

Hawaiian Endemic Plants Are Vulnerable to Climate Shifts, New Study Suggests

- Over 2,000 different plant species are found in Hawai'i, however, only half are native to the islands. The other half were introduced by people. Some of these introduced, non-native plant species are not disruptive to the natural ecosystem, while others have become invasive and displace native species by taking over their habitat. Of the approximately 1,000 native plant species, nearly all are endemic to Hawai'i, meaning they are found nowhere else in the world. Because Hawai'i's native plant life is highly endemic, it is more vulnerable to habitat loss that can result from changes in climate and encroachment of non-native or invasive species. Already, one-third of native Hawaiian plants are listed as endangered or threatened by the U.S. Fish and Wildlife Service. © USGS Climate Adaptation Science Centers, 06/28/2018. <https://casc.usgs.gov/content/hawaiian-endemic-plants-are-vulnerable-climate-shifts-new-study-suggests>

Including INDIGENOUS Health in Climate Change Assessments: Overview of Methods and Results from Swinomish

- Many indigenous communities are at the forefront of developing and implementing plans to address climate change in their homelands. These plans vary in focus and content, but always remain rooted in the geography of the community's homelands, making each plan unique. © National Indian Health Board, 06/12/2018. https://www.nihb.org/public_health/climate_resources.php

Challenging the Prevailing Paradigm of Displacement and Resettlement: Risks, Impoverishment, Legacies, Solutions

- Development-caused forced displacement and involuntary resettlement has increased exponentially in recent years, making it one of the top problems on the international development agenda. This book challenges existing weak policies and dysfunctional practices, and proposes a robust set of solutions to improve the performance of resettlement policies and to tackle injustices and violations. At a time when governments, development agencies and universities worldwide are urgently seeking solutions, this book will be of interest to development practitioners, students, and researchers of international development, sociology, political science and economics. © Routledge, 05/2018. www.routledge.com/9781138060517

Food Sovereignty

- We all eat to live, but sound food policy can help restore tribal culture and improve the health of its members. This premise underlies the "food sovereignty" movement that has been sweeping through American Indian and Native Hawaiian communities for the past few years. © Magazine of Smithsonian's National Museum of the American Indian, 2018. <https://www.americanindianmagazine.org/story/food-sovereignty>

Understanding the Long-Term Evolution of the Coupled Natural-Human Coastal System the Future of the U.S. Gulf Coast (2018)

- The U.S. Gulf Coast provides a valuable setting to study deeply connected natural and human interactions and feedbacks that have led to a complex, interconnected coastal system. The physical landscape in the region has changed significantly due to broad-scale, long-term processes such as coastal subsidence and river sediment deposition as well as short-term episodic events such as hurricanes. Modifications from human activities, including building levees and canals and constructing buildings and roads, have left their own imprint on the natural landscape. This couple natural-human coastal system and the individual aspects within it (physical, ecological, and human) are under increased pressure from accelerating environmental stressors such as sea level rise, intensifying hurricanes, and continued population increase with its accompanying coastal development. Promoting the resilience and maintaining the habitability of the Gulf Coast into the future will need improved understanding of the couple natural-human coastal system, as well as effective sharing of this understanding in support of decision-making and policies. © National Academies of Sciences, Engineering, and Medicine, 2018. <https://www.nap.edu/catalog/25108/understanding-the-long-term-evolution-of-the-coupled-natural-human-coastal-system>

Regional Climate Response Collaboratives: Multi-Institutional Support for Climate Resilience

- Federal investments by U.S. agencies to enhance climate resilience at regional scales grew over the past decade (2010s). To maximize efficiency and effectiveness in serving multiple sectors and scales, it has become critical to leverage existing agency-specific research, infrastructure, and capacity while avoiding redundancy. We discuss lessons learned from a multi-institutional "regional climate response collaborative" that comprises three different federally supported climate service entities in the Rocky Mountain west and northern plains region. These lessons include leveraging different strengths of each partner, creating deliberate mechanisms to increase cross-entity communication and joint ownership of projects, and placing a common priority on stakeholder-relevant research and outcomes. We share the conditions that fostered successful collaboration, which can be transferred elsewhere, and suggest mechanisms for overcoming potential barriers. Synergies are essential for producing actionable

research that informs climate-related decisions for stakeholders and ultimately enhances climate resilience at regional scales. © American Meteorological Society, 2018. <https://journals.ametsoc.org/doi/pdf/10.1175/BAMS-D-17-0183.1>

Climate Change and Indigenous Peoples Recording by Wisdom of the Elders

- Wisdom of the Elders recorded the 2018 Climate Change and Indigenous Peoples Lecture: Climate Change, Water, and Landscapes: Impacts to Indigenous Culture and Sovereignty in the U.S. with Dr. Karletta Chief and Dr. Margaret Redsteer at the University of Oregon. *The link to the lecture is here:* <https://vimeo.com/273763275>. For more information on this event, visit: <https://ccip.uoregon.edu/>

The Climate Science Special Report, Vol. 1 of the Fourth National Climate Assessment

- This report is an authoritative assessment of the science of climate change, with a focus on the United States. It represents the first of two volumes of the Fourth National Climate Assessment, mandated by the Global Change Research Act of 1990. © U.S. Global Change Research Program, 2017. https://science2017.globalchange.gov/?utm_source=NCAnet&utm_campaign=af8ff5fccb-EMAIL_CAMPAIGN_2017_09_26_COPY_01&utm_medium=email&utm_term=0_e8692a508c-af8ff5fccb-291173009

Other Items of Interest

Job Vacancy: Director of California Sea Grant, Sea Grant California

- ❖ Scripps Institution of Oceanography (SIO), University of California San Diego (UCSD), seeks a vibrant, accomplished, and collaborative leader to serve as the Director of California Sea Grant (CASG). The Director assumes overall responsibility for leadership and programmatic oversight of CASG, and has national, state-wide, and university-wide responsibilities. Working with a team that includes 18 staff members, 9 extension specialists and an extension director (each of whom holds an academic position), the Director secures financial support for the program and builds successful partnerships across numerous and diverse constituencies within and beyond the state of California. The Director facilitates high-impact research, outreach, fellowship and communications activities to increase the understanding of, responsible interaction with, and use of California's ocean and coastal resources. The Director leads the CASG Management Team that also includes the extension director, business manager, and communications coordinator. Interested applicants must apply online at the UCSD Job Bulletin. For questions about this position, please contact Dr. Doug Bartlett, Chair of the Search Committee, at dbartlett@ucsd.edu. <https://caseagrant.ucsd.edu/jobs/director-of-california-sea-grant> To ensure full consideration, applications must be received via the UCSD online submission portal **no later than Friday, August 24, 2018** by 11:55 p.m. Pacific Standard Time.

USDA National Graduate Fellowship (NNF) in Native American Forestry at School of Forestry, Northern Arizona University

- ❖ Two Master's-level fellowships are available. The program goal is to produce the next generation of Native American leaders. Fellows are expected to conduct research aimed at managing resilient forest agroecosystems in tribal lands, and engaging in tribal outreach, teaching and community engagement. Project directors are Dr. Yeon-Su Kim; Dr. Thomas Kolb; Dr. Peter Fulé, Dr. Andrew Sánchez-Meador at School of Forestry and Dr. Manley Begay at Applied Indigenous Studies. Other partners include the Institute for Tribal Environmental Professionals (ITEP), and other supporting units at NAU and various land management agencies and Native American tribal governments. The fellowship includes a stipend (\$18,500/yr for two years), tuition waiver, health insurance, and educational allowance. For more information, contact Dr. Yeon-Su Kim at ysk@nau.edu (or call 928-523-6643). **Review of applications will begin on October 1, 2018.**

Call for Proposals: 4th National Adaptation Forum

- ❖ Proposals are now being accepted for Symposia, Training Sessions, Working Groups, Oral Presentations, Posters, and the Tools Cafe. Submissions should reflect the best thinking in the adaptation field, informed by theory, research and practice on subjects related to **identified focal topics and cross-cutting themes**. Don't miss your opportunity to submit today. **Deadline for proposals is August 3, 2018.** <https://www.nationaladaptationforum.org/proposals>

Between the Lines: Tree Rings Reveal Avalanche History

- ❖ Come late May in southeast Alaska, AK CASC scientists Eran Hood and Gabriel Wolken have something unexpected on their minds: snow. Specifically, avalanches. Standing among snags and downed trees on a steep slope near Eaglecrest Ski Area in Juneau, the evidence of disturbance is obvious to any bystander. © USGS Climate Adaptation Science Centers, 06/22/2018. <https://casc.usgs.gov/content/between-lines-tree-rings-reveal-avalanche-history>

Funding Opportunities

NOTE: More Funding Opportunities can be found at the Tribes & Climate Change website:

<http://www7.nau.edu/itep/main/tcc/Resources/funding>. Also, see the Tribal Climate Change Guide maintained by the Pacific Northwest Tribal Climate Change Project at the Univ. of Oregon: <http://tribalclimateguide.uoregon.edu/>

EPA Announces WIFIA Funding for Water Infrastructure Projects

- EPA has announced the availability of approximately \$5.5 billion in credit that could finance over \$11 billion in water infrastructure projects through the Water Infrastructure Finance and Innovation Act (WIFIA) program. Prospective borrowers seeking WIFIA credit assistance must **submit a letter of interest by July 31, 2018**. EPA's WIFIA program will host webinars and information sessions for prospective borrowers to foster a greater understanding of the WIFIA program requirements and pave the way for successful applications to the program. A WIFIA Letter of Interest Submission and Selection Process Question and Answer Session has been scheduled for May 30, 2018, 2:00 p.m. - 3:30 p.m. (ET). To register, please visit: <https://www.epa.gov/wifia/wifia-resources#informationanchor>

DOI WaterSMART Grants: Small-Scale Water Efficiency Project

- Through Small-Scale Water Efficiency Projects, Reclamation provides assistance to states, tribes, irrigation districts, water districts, and other entities with water or power delivery authority to undertake specific small-scale water efficiency projects that have been prioritized through planning efforts led by the applicant. This Small-Scale Water Efficiency Projects FOA supports specific small-scale water efficiency projects that have been prioritized through planning efforts led by the applicant. These projects conserve and use water more efficiently; mitigate conflict risk in areas at a high risk of future water conflict; and accomplish other benefits that contribute to water supply reliability in the western United States. Eligible Entities: States, Indian tribes, irrigation districts, water districts, or other organizations with water or power delivery authority located in the Western United States or United States Territories as identified in the Reclamation Act of June 17, 1902, as amended. **Applications Due: July 31, 2018**. For more information, visit the funding opportunity [description](#).

Montana Conservation Garden Project

- The Natural Resources Conservation Service - Montana State Office, an agency under the United States Department of Agriculture (USDA), is seeking support from and opportunities to partner with likeminded natural resource conservation partners to develop community gardens, pollinator gardens and/or seasonal high tunnels. The overall intent of this opportunity is to solicit partnerships to help enhance the implementation of key conservation objectives and priorities outlined further in this document. Proposals will be accepted from eligible entities for projects located in Montana. NRCS anticipates that the total amount awarded under this announcement in Federal fiscal year 2018 will be approximately \$100,000. Proposals are requested for competitive consideration of grant awards for one year in duration from city or township governments, county governments, special districts, state governments, nonprofit organizations, independent school districts, institutions of higher education, and federally recognized Native American tribal governments. Funding Opportunity # USDA-NRCS-MT-18-01. **Applications Due August 10, 2018**. <https://www.grants.gov/web/grants/search-grants.html?keywords=tribes>

Power Resources Office Request for Proposals for Strategic Energy Initiatives

- Issued by the Power Resources Office (PRO) using appropriated funding, this Request for Proposal (RFP), solicits strategic energy project proposals from Reclamation regional, area, and facility offices (collectively, the regions); and the Denver Technical Service Center (TSC). Through this RFP, the PRO aims to leverage Bureau expertise and increase regional participation in advancing the Department's [Memorandum of Understanding for Hydropower](#) and [Strategic Plan for Fiscal Years 2018-2022](#) to better manage water resources across Reclamation.

Project proposals must seek to accomplish one, or both, of the following: 1) Analyze or demonstrate innovative and cost-effective solutions that can strengthen hydropower generation or energy efficiency at Reclamation projects where outcomes or lessons learned can be used to deliver a greater, Reclamation-wide benefit and 2) Assist Tribes in the development of sustainable energy resources to enhance the management of water resources. Per the RFP, proposals are due to the PRO (Clark Bishop, cbishop@usbr.gov) **Deadline: August 17, 2018**. The PRO anticipates notifying successful applicants by September 7, 2018.

EPA Tribal Clean Diesel Funding Assistance Program

- EPA's Office of Transportation and Air Quality is soliciting proposals nationwide for projects that achieve significant reductions in diesel emissions in terms of tons of pollution produced by diesel engines and diesel emissions exposure, particularly from fleets located in areas designated as having poor air quality. Further, priority for funding will be given to projects which result in outcomes that benefit affected communities, those that engage affected

communities with respect to the design and performance of the project, and those which can demonstrate the ability to promote and continue efforts to reduce emissions after the project has ended. Eligible Entities: Tribal governments and Alaska Native Villages which have jurisdiction over transportation or air quality. **Deadline: September 6, 2018.** For more information, visit the Clean Diesel Tribal Grants [web page](#).

Solicitation of Project Proposals: Public Transportation on Indian Reservations Program

- The Federal Transit Administration (FTA) announces the availability of approximately \$5 million in funding provided by the Public Transportation on Indian Reservations Program (Tribal Transit Program (TTP)), as authorized by 49 U.S.C. 5311(c)(1)(A), as amended by the Fixing America's Surface Transportation Act (FAST), Public Law 114-94 (December 4, 2015). This is a national solicitation for project proposals and includes the selection criteria and program eligibility information for Fiscal Year 2018 projects. The primary purpose of these competitively selected grants is to support planning, capital, and, in limited circumstances, operating assistance for tribal public transit services. Funds distributed to Indian tribes under the TTP should not replace or reduce funds that Indian tribes receive from states through FTA's Section 5311 program. **Applications Due: September 10, 2018.** Funding Opportunity #: FTA-2018-001-TPM0TR <https://www.grants.gov/web/grants/search-grants.html?keywords=tribes>

DOI National Park Service: Land and Water Conservation Fund Outdoor Recreation Legacy Partnership Program

- This NOFO is to advise States, local units of government, and federally-recognized Indian Tribes of the availability of funds for grants from the Land and Water Conservation Fund's (LWCF) Outdoor Recreation Legacy Partnership (ORLP) Program. The purpose of the LWCF ORLP is to provide grants to acquire and/or develop public lands for outdoor recreation purposes consistent with the purposes of the LWCF, but with the further specific goals of funding projects that: 1) Are located within or serve jurisdictions delineated by the Census Bureau from the 2010 Census as "urbanized areas," that is, areas with a population of 50,000 or more people and consisting of densely settled territory, 2) Are located in or are directly accessible to neighborhoods or communities that are underserved in terms of parks and recreation resources and where there are significant populations of people who are economically disadvantaged. Eligible Entities: State and local government agencies and federally recognized Indian tribes. **Applications Due: September 14, 2018.** For more information, visit the funding opportunity [description](#).

Paleo Perspectives on Climate Change (NSF)

- The goal of research funded under the interdisciplinary P2C2 solicitation is to utilize key geological, chemical, atmospheric (gas in ice cores), and biological records of climate system variability to provide insights into the mechanisms and rate of change that characterized Earth's past climate variability, the sensitivity of Earth's climate system to changes in forcing, and the response of key components of the Earth system to these changes. Funding opportunity #: 17-582. Eligibility is unrestricted. **Deadline: 10/22/2018.** <https://www.grants.gov/web/grants/search-grants.html>

Upcoming Events

NOTE: More Upcoming Events can be found at the Tribes & Climate Change website:
<http://www7.nau.edu/itep/main/tcc/Home/Events>

August

Webinar (Clean Water Act Coffee Break "30 Minute" Webinar Series): CAFOs

August 1, 10 a.m. (ET). Concentrated Animal Feeding Operations (CAFOs). In this session, we will explore some of the possible environmental problems at CAFOs, EPA's overall approach to CAFOs, and OECA's enforcement approach to CAFOs. To view complete listing and to register, visit: https://epawebconferencing-events.acms.com/content/connect/c1/7/en/events/catalog.html?folder-id=126978073&OWASP_CSRFTOKEN=77e2f94e0470bf17c9970327aaab5bfd595b5dd84bf7db4eac09ac43fdbe4302

Webinar (Clean Water Act Coffee Break "30 Minute" Webinar Series): Oil Spills, Prevention, and Response Planning

August 1, 2 p.m. (ET). The Oil Pollution Act of 1990 (OPA) amended Section 311 the CWA to increase enforcement authorities and penalties for oil spills. This session will provide an overview of the oil spill prohibitions, spill prevention and response planning regulatory authority, and enforcement. To view complete listing and to register, visit: https://epawebconferencing-events.acms.com/content/connect/c1/7/en/events/catalog.html?folder-id=126978073&OWASP_CSRFTOKEN=77e2f94e0470bf17c9970327aaab5bfd595b5dd84bf7db4eac09ac43fdbe4302

OneNOAA Science Seminar Series: Climate Science Special Report**Climate Potential Surprises - Compound Extremes and Tipping Elements**

August 2, 12:00 p.m. (ET). This webinar series was developed in conjunction with NOAA and NCA. The eight-part series will focus on the findings of NCA4 Vol. 1: The Climate Science Special Report. Diverse lines of evidence suggest that the further the climate system is 'pushed' through increases in greenhouse gas concentrations, the greater the potential for rapid changes that are difficult to model or otherwise foresee. Several examples will be presented within a risk management framework, ranging from a) the probable to b) the low probability but catastrophic should they occur. Webinar Access: dial toll-free from US or CAN: 1-877-708-1667, code 7028688#. For the webcast, go to www.mymeetings.com Under "Participant Join", click "Join an Event", then add conf no: 744925156.

ITEP Training: Climate Change Adaptation Planning

August 07-August 09, La Jolla, CA. ITEP is excited to be collaborating with *Climate Science Alliance: South Coast* on an **Introduction to Climate Change Adaptation Planning** course. This course provides an overview to planning for climate change impacts, highlighting the work of several tribes. The course is intended for tribal environmental and natural resource professionals who expect to be involved in climate change adaptation planning. **Registration is now closed.**

Webinar (4 of 6): Preparing for a Budget for Your Grant Proposal

August 8, 1:00 p.m. (ET). The Health Resources and Services Administration (HRSA) is hosting a FREE Grants Education and Technical Assistance Webinar Series for Tribes, Tribal Organizations, Indian Health, Tribal and Urban Indian Health Programs. Learn about the federal grant application process, how to write better grant proposals and evaluation plans for your projects, strategies for successful grant management, and more. Participants will also have the opportunity to connect with HRSA subject matter experts, grant reviewers, as well as peers to discuss best practices and barriers to successful grants application and management. Register here: https://hrsa.connectsolutions.com/federal_grant_application_recording/event/registration.html

Webinar (Clean Water Act Coffee Break "30 Minute" Webinar Series): Effluent Guidelines

August 8, 10 a.m. (ET). Effluent guidelines are important in determining the appropriate NPDES permit limits for a facility. This presentation will provide background on effluent guidelines and describe what types of facilities have effluent guidelines. This session will also explore how effluent guidelines are developed. To view complete listing and to register, visit: https://epawebconferencing-events.acms.com/content/connect/c1/7/en/events/catalog.html?folder-id=126978073&OWASP_CSRFTOKEN=77e2f94e0470bf17c9970327aaab5bfd595b5dd84bf7db4eac09ac43fdb4302

Webinar (Clean Water Act Coffee Break "30 Minute" Webinar Series): Construction Stormwater

August 8, 2 p.m. (ET). There are regulations that apply to stormwater from a construction site. Discussed will be the key best management practices (BMPs) that a construction site must follow to reduce stormwater flow or reduce the likelihood that stormwater will pick up pollutants like sediment, debris and chemicals from loose soil. To view complete listing and to register, visit: https://epawebconferencing-events.acms.com/content/connect/c1/7/en/events/catalog.html?folder-id=126978073&OWASP_CSRFTOKEN=77e2f94e0470bf17c9970327aaab5bfd595b5dd84bf7db4eac09ac43fdb4302

Conference: 2nd Annual National Native Health Research Training Conference

August 8-10, Prior Lake, MN. The goal of the NNHRT conference is to disseminate new research and best practices around American Indian and Alaska Native health to build capacity and promote tribally-driven research activity. <http://www.nnhrti.org/>

OneNOAA Science Seminar Series: Climate Science Special Report**Climate Long-Term Climate Mitigation Perspectives and the 2°C Objective**

August 9, 12:00 p.m. (ET). This webinar series was developed in conjunction with NOAA and NCA. The eight-part series will focus on the findings of NCA4 Vol. 1: The Climate Science Special Report. The presentation addresses estimates of different cumulative carbon budgets in light of future global warming objectives--with a particular focus on the now oft-cited 2°C goal, its origin, and the chances of meeting such an objective. Webinar Access: dial toll-free from US or CAN: 1-877-708-1667, code 7028688#. For the webcast, go to www.mymeetings.com Under "Participant Join", click "Join an Event", then add conf no: 744925156.

ITEP Conference: 8th Annual Tribal Lands and Environment Forum

August 13-16, Spokane, WA. This year's Forum will feature special trainings, field trips, and breakout sessions focused on our conference theme: A National Conversation on Tribal Land and Water Resources. Topics

highlighted at the forum include solid/hazardous waste management, brownfields, UST/LUSTs, Superfund sites, and emergency response. Tribal water program topics – water quality, drinking water, and habitat restoration (including wetlands, streams and fisheries) will also be included with breakout sessions, trainings and field trips. http://www7.nau.edu/itep/main/Conferences/confr_tlef

Webinar (Clean Water Act Coffee Break “30 Minute” Webinar Series): Wetlands

August 15, 10 a.m. (ET). An area that, based upon its soils, hydrology and vegetation is considered a “water of the United States” under the CWA. In this session, you will find out what a wetland is and the CWA statutory provisions and regulations that apply. To view complete listing & to register, visit: https://epawebconferencing-events.acms.com/content/connect/c1/7/en/events/catalog.html?folder-id=126978073&OWASP_CSRFTOKEN=77e2f94e0470bf17c9970327aaab5bfd595b5dd84bf7db4eac09ac43fdba4302

**OneNOAA Science Seminar Series: Climate Science Special Report
The Causes and Consequences of a Rapidly Changing Arctic**

August 16, 12:00 p.m. (ET). This webinar series was developed in conjunction with NOAA and NCA. The eight-part series will focus on the findings of NCA4 Vol. 1: The Climate Science Special Report. Earth's climate system is highly interconnected, meaning that changes to the global climate influence the United States climatically and economically. This presentation discusses the changes in the observed in the Arctic, the projected changes, and the potential impacts to us living the U.S. Webinar Access: dial toll-free from US or CAN: 1-877-708-1667, code 7028688#. For the webcast, go to www.mymeetings.com Under "Participant Join", click "Join an Event", then add conf no: 744925156.

Webinar (Clean Water Act Coffee Break “30 Minute” Webinar Series): NPDES Electronic Reporting Rule

August 22, 10 a.m. (ET). Electronically submitted data for NPDES-regulated facilities. In this session, you will learn why NPDES permittees are not already reporting information electronically. To view complete listing and to register, visit: https://epawebconferencing-events.acms.com/content/connect/c1/7/en/events/catalog.html?folder-id=126978073&OWASP_CSRFTOKEN=77e2f94e0470bf17c9970327aaab5bfd595b5dd84bf7db4eac09ac43fdba4302

**OneNOAA Science Seminar Series: Climate Science Special Report
Climate Tides of the Tides**

August 23, 12:00 p.m. (ET). This webinar series was developed in conjunction with NOAA and NCA. The eight-part series will focus on the findings of NCA4 Vol. 1: The Climate Science Special Report. Human activities are a significant contributor to the rise in global sea levels, which have risen about 7-8 inches since 1900 with about 3 of those inches occurring since 1993. Webinar Access: dial toll-free from US or CAN: 1-877-708-1667, code 7028688#. For the webcast, go to www.mymeetings.com Under "Participant Join", click "Join an Event", then add conf no: 744925156.

Conference: National Conference on Ecosystem Restoration

August 26-30, New Orleans, LA. The purpose of **NCER** is to provide an interactive forum for physical, biological and social scientists, engineers, resource managers, planners and policy makers to share their experiences and research results concerning large-scale ecosystem restoration on both national and international levels. <http://conference.ifas.ufl.edu/ncer2018/index.html>

Conference: 3rd California Adaptation Forum

August 27-29, Sacramento, CA. The biennial California Adaptation Forum gathers the adaptation community to foster knowledge exchange, innovation, and mutual support to create resilient communities throughout the state. The Forum offers a series of engaging plenaries, sessions, networking opportunities, workshops, and tours to support our transition from adaptation awareness and planning to action. <http://www.californiaadaptationforum.org/>

Webinar: OneNOAA Science Seminar Series: Climate Science Special Report

August 28, 12:00 p.m. (ET). This webinar series was developed in conjunction with NOAA and NCA. The eight-part series will focus on the findings of NCA4 Vol. 1: The Climate Science Special Report, which confirms prior assessments in concluding that the climate on our planet, including the United States, is changing, and changing rapidly. This presentation provides an overview of the findings from the new assessment, with a special focus on severe weather. Webinar Access: dial toll-free from US or CAN: 1-877-708-1667, code 7028688#. For the webcast, go to www.mymeetings.com. Under "Participant Join", click "Join an Event", then add conf no: 744925156.

Webinar (Clean Water Act Coffee Break “30 Minute” Webinar Series): Vessels

August 29, 10 a.m. (ET). An overview of EPA's regulation of ballast water and other incidental discharges from vessels under the NPDES Vessel General Permit (VGP). We will discuss why certain discharges need permit

coverage, the types of vessels that are eligible for permit coverage, and the applicable CWA standards. To view complete listing and to register, visit: https://epawebconferencing-events.acms.com/content/connect/c1/7/en/events/catalog.html?folder-id=126978073&OWASP_CSRFTOKEN=77e2f94e0470bf17c9970327aaab5bfd595b5dd84bf7db4eac09ac43fdbe4302

September

Conference: Our Estuary at an Intersection

September 10-12, Sacramento, CA. The Biennial Bay-Delta Science Conference is a forum for presenting technical analyses and results relevant to the Delta Science Program's mission to provide the best possible, unbiased, science-based information for water and environmental decision-making in the Bay-Delta system. The goal of the conference is to offer new information and syntheses to the broad community of scientists, engineers, resource managers, and stakeholders working on Bay-Delta issues. <http://scienceconf2018.deltacouncil.ca.gov/>

Webinar (5 of 6): Effective Grants Management/Administration & Reporting

September 12, 1:00 p.m. (ET). The Health Resources and Services Administration (HRSA) is hosting a FREE Grants Education and Technical Assistance Webinar Series for Tribes, Tribal Organizations, Indian Health, Tribal and Urban Indian Health Programs. Learn about the federal grant application process, how to write better grant proposals and evaluation plans for your projects, strategies for successful grant management, and more. Participants will also have the opportunity to connect with HRSA subject matter experts, grant reviewers, as well as peers to discuss best practices and barriers to successful grants application and management. Register here: https://hrsa.connectsolutions.com/federal_grant_application_recording/event/registration.html

Summit: Global Climate Action Summit

September 12-14, San Francisco, CA. The 2018 Summit will bring people together from around the world to showcase climate action and inspire deeper commitments from nation governments, and each other, in support of the Paris Agreement. <https://globalclimateactionsummit.org/>

October

Conference: 9th Annual Northwest Climate Conference

October 9-11, Boise, ID. The Northwest Climate Conference annually brings together more than 300 researchers and practitioners from around the region to discuss scientific results, challenges, and solutions related to the impacts of climate on people, natural resources, and infrastructure in the Pacific Northwest. <http://pnwclimateconference.org/index.html>

Webinar (6 of 6): Successful HRSA Tribal Grantees

October 10, 1:00 p.m. (ET). The Health Resources and Services Administration (HRSA) is hosting a FREE Grants Education and Technical Assistance Webinar Series for Tribes, Tribal Organizations, Indian Health, Tribal and Urban Indian Health Programs. Learn about the federal grant application process, how to write better grant proposals and evaluation plans for your projects, strategies for successful grant management, and more. Participants will also have the opportunity to connect with HRSA subject matter experts, grant reviewers, as well as peers to discuss best practices and barriers to successful grants application and management. Register here: https://hrsa.connectsolutions.com/federal_grant_application_recording/event/registration.html

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