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 Climate Change Program News

Goosenecks, Utah. Photo credit: Colleen Cooley

Happy New Year! ITEP is gearing up for a busy season of conferences and trainings which you can check on http://www7.nau.edu/itep/main/Training/.

The climate change team will be present at the National Adaptation Forum in St. Paul, MN from May 09-11, 2017, and to register, please visit http://www.nationaladaptationforum.org/registration.

In addition, ITEP is planning climate change breakout sessions at the National Tribal Forum (NTF) on Air Quality in Tucson, AZ from May 01-04, 2017. If you are interested in presenting, please contact the climate change team, or attending, please visit the NTF website for more information, http://www7.nau.edu/itep/main/Conferences/confr_ntf.

We hope to see you!

-Nikki, Karen, Fletcher and Colleen

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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**

**Clean Energy: The Challenge of Achieving a “Just Transition” for Workers**

Tackling climate change is good for the economy, good for business and good for people. Around the world, there is a growing movement demanding a “just transition” for the workforce, so that workers are not left in the cold as fossil fuels become consigned to the past. Arizona’s Navajo tribe is one example of a community already fighting for a just transition. © Eco-Business 2009-2017, 01/05/2017.


**How Will the National Park Service Protect America’s Heritage from Climate Change?**

Marcy Rockman, an archaeologist with the National Park Service (NPS) likes to say that “Every place has a climate story.” And telling those stories, as well as effectively responding to the growing risks, is central to an ambitious new strategy to manage the nation’s cultural resources in a rapidly changing climate. © Union of Concerned Scientists. 01/06/2017.


**Blog: The Importance of Traditional Ecological Knowledge (TEK) When Examining Climate Change**

Traditional Ecological Knowledge (TEK) was far from being on the radar for non-Native agencies at that point, and even as the Native American Graves Protection and Repatriation Act existed, the common attitude about Native Traditional Knowledges (TK) was that it was frequently discounted and dismissed. © Union of Concerned Scientists. 01/18/2017.


**Women for Climate Justice Raise Their Voices**

The reality of climate change demands immediate action by the United States to cut emissions, invest in protecting our water, land and air, and put an end to the era of fossil fuels. We as women in all of our diversity stand together, more determined than ever, to call for a just transition towards a renewable energy future, an intersectional approach in all climate actions, and gender-responsive climate policy and action. We will never give up – We will continue to advocate for a healthy and peaceful planet, today and every day.” – Bridget Burns, Co-Director, Women’s Environment and Development Organization (WEDO). © Westender – West End 4101. 01/20/2017.


**Center for Native American Youth to Honor American Indian and Alaska Native Youth Leaders in Washington, DC**

The policy program at the Aspen Institute, will introduce the fifth class of CNAY Champions for Change through a series of events in Washington, DC next month. This year’s Champions are strengthening intergenerational ties by honoring tribal elders; tackling youth suicide with innovative uses of social media; encouraging healthy nutritional choices that move tribal communities toward food sovereignty; coordinating culture camps to preserve culture and language; and protecting subsistence ways of life by raising awareness of effects of climate change on tribal communities, among other initiatives. © 2017 Yahoo News. 01/19/2017.


**At Sundance, Al Gore Says Storytellers Can Rally the Fight on Climate Change**

The former vice president told an audience Sunday at the 2017 Sundance Film Festival that the growing affordability of renewable energy — like solar and wind power — is making such technology more attractive than fossil fuels, not just for the environmental benefit but economic benefit. © 2017, the Salt Lake Tribune. 01/22/2017.


**Donald Trump’s Nominees Say Climate Change is Real but They Refuse to Deal with It**

President Donald Trump’s nominees to the positions that would directly oversee environmental policy all disavowed his stance that climate change is a “hoax” in Senate confirmation hearings this month. © 2017 TheHuffingtonPost.com, Inc. 01/24/2017.

http://www.huffingtonpost.com/entry/trump-climate-change_us_58875e93e4b0e3a7356bb17a

**Bernie Sanders Lashes Ryan Zinke on Climate Change, Native Americans**

Rep. Ryan Zinke (R-Mont.), the interior secretary nominee, acknowledged the climate is changing as a result of human activity and vowed to address health and education on Native American reservations during his Senate confirmation hearing on Tuesday. © 2017 TheHuffingtonPost.com, Inc. 01/17/2017.

http://www.huffingtonpost.com/entry/bernie-zinke_us_587e893ce4b0c147f0bb9e1c

**Opinion: Climate Change is Damaging Treaty Rights**

Climate change isn’t happening to some of us. It’s happening to all of us, and it’s going to take all of us to meet its challenges. Lorraine Loomis is the Chair of the Northwest Indian Fisheries Commission. © 2017 Lions Light Corp. 01/18/2017.
Environmental Justice for Indigenous Populations
Climate change has an inordinate effect on vulnerable populations. The EPA has published multiple fact sheets outline the effects of climate change on vulnerable populations, all of which are populations that social workers encounter. © 2016 Social Work Helper, PBC. 01/26/17.

Resources

A Global Estimate of Seafood Consumption by Coastal Indigenous Peoples (PLOS)
Coastal Indigenous peoples rely on ocean resources and are highly vulnerable to ecosystem and economic change. Their challenges have been observed and recognized at local and regional scales, yet there are no global-scale analyses to inform international policies. We compile available data for over 1,900 coastal Indigenous communities around the world representing 27 million people across 87 countries. 12/05/2016.
http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0166681

The purpose of this decision support framework is aimed at helping managers think critically about how to apply climate information to their management decisions. Specifically, the framework is meant to help managers: 1) articulate an appropriate conservation goal for cold-adapted native salmonid populations taking into account the impacts of climate change on habitat suitability, threats from non-native fish, and connectivity; 2) consider the climate adaptation strategies that might best support that goal; and 3) identify actions that are available to implement the chosen strategies. 2017.

Cultural Resources Climate Change Strategy (NPS)
This report sets out a vision and broad approach for managing impacts to and learning from cultural resources under modern climate change. This connects major directions for action from the NPS Climate Change Response Strategy (2010) and the NPS Director’s Policy Memo Climate Change and Stewardship of Cultural Resources (2014) to create four overarching Goals for cultural resources and climate change. 01/06/2017.
https://www.nps.gov/subjects/climatechange/culturalresourcesstrategy.htm

The Roots of Wisdom Exhibition: Native Knowledge. Shared Science
This exhibition explores four inspiring stories of environmental and cultural restoration, and is a 5-year cross-cultural collaboration involving OMSI, IEI, Smithsonian NMAI and four Native Community partners. 2017.
http://omsi.edu/exhibitions/row/

Other Items of Interest

10 Indigenous and Environmental Struggles – and How You Can Help in 2017
While international attention has been on the Standing Rock Sioux and the #NoDAPL struggle, the Obama and Trudeau administrations have approved several other pipeline projects slated to run across indigenous territories from Canada to the U.S. and Mexico. The struggle to protect sacred lands from climate change, toxic pollution, and the fossil fuel industry continues to rage around the world. 01/06/2017.

For Indigenous Communities, Fish Means Much More Than Food
The practice of catching fish affirms their worldviews and puts them into action in nature. These relationships and values cannot be reflected in a number, but quantifying the dietary importance of seafood for these communities can help us understand the importance of indigenous fisheries and relationships to the oceans on a global scale. 2010-2017, The Conversation US, Inc. 01/29/2017.

Job Announcement: Environmental Specialist: EPA/Waste Regulatory Compliance (Navajo Nation EPA)
Incumbent will be employed at the Resource Conservation and Recovery Program office within the Waste Regulatory Compliance Department to do civil enforcement of the Navajo Nation Solid Waste Act and associated rules through investigative field work, and occasionally will work cooperatively with environmental criminal enforcement officers in developing dual proceeding court cases. Position #243824 and to be located in Window Rock, AZ. Deadline: 02/10/2017.
http://www.dpm.navajo-nsn.gov/jobs.html
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/

HHS Impacts of Climate Change on Oceans and Great Lakes Program (NIH)
The purpose of this FOA is to invite applications for multi-component projects that will investigate the impact of climate change on emerging public health threats associated with marine and Great Lakes Basin environments. The focus of the program will be to support research on the exposures, toxicities and human health impacts that arise in these environments and how climate change is influencing these factors now and in the future. The FOA solicits applications that will achieve program goals through integrated, multidisciplinary scientific approaches and a community engagement component. Eligibility includes federally recognized tribal governments and Alaska Native serving institutions. Funding opportunity #: RFA-ES-16-009. Letter of Intent Deadline: 02/07/17. https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-16-009.html#_Section_III._Eligibility

Anticipating the Environmental Impacts and Behavioral Drivers of Deep Decarbonization Program (EPA)
This announcement is making available funding for research that improves understanding of the public health and environmental impacts and behavioral drivers of significant changes in energy production and consumption, especially changes associated with reducing greenhouse gas emissions consistent with achieving international climate change goals. Eligibility includes tribal governments. Funding opportunity #: EPA-G2017-STAR-B1. Deadline: 02/10/17. https://www.epa.gov/research-grants/anticipating-environmental-impacts-and-behavioral-drivers-deep-decarbonization

BOR Drought Response Program FY2017
The objective of the Drought Contingency Planning FOA is to invite eligible applicants to leverage their resources by cost sharing Drought Contingency Planning with Reclamation to build resilience to drought in advance of a crisis. Applicants under this FOA may request funding to develop a new drought plan or to update an existing drought plan. Applicants may also request technical assistance from Reclamation for the development of elements of the Drought Contingency Plan. Deadline: 02/14/2017.

NOAA climate Program Office’s Regional Integrated Sciences and Assessments (RISA) Program (Dept. of Commerce)
Part of NOAA’s vision is to create and sustain enhanced resilience in ecosystems, communities, and economies, as outlined in the NGSP. RISA is holding two competitions for research funding focused on three geographies. We are soliciting proposals for: 1) Competition 1: a RISA team focused on the Arizona/New Mexico region of the US; and 2) Competition 2: a RISA team focused on either the California/Nevada region of the US or on the Midwestern region of the US. Eligibility includes Indian tribal governments. Funding opportunity #: NOAA-OAR-CPO-2017-2005017. Deadline: 02/16/17. http://www.grants.gov/web/grants/search-grants.html

Native Agriculture and Food Systems Initiative: Program Support Grants (First Nations Development Institute)
With the generous support of the W.K. Kellogg Foundation and Agua Fund, proposals will be accepted under its Native Agriculture and Food Systems Initiative (NAFSI). Twelve grants will be awarded up to $35,000 each to support projects that aim to strengthen local food-system control; increase access to local, healthy and traditional foods; and decrease food insecurity and food deserts, all with an emphasis on serving Native American children and families. Eligibility includes U.S. – based, Native American-controlled, nonprofit 201©(3) organizations, tribal organizations or Native American community-based groups and Native 7871 organizations. Deadline: 02/17/17. http://www.firstnations.org/grantmaking/2017NAFSI

FY 2017 NOAA Coastal Resilience Grants Program (NOAA)
The objective of this FOA is to implement projects that build resilient U.S. coastal communities, economies, and ecosystems. This program is intended to build resilience by reducing the risk to coastal communities, economies and ecosystems from extreme weather events and climate-related hazards. Funding opportunity #: NOAA-NOS-NRPO-2017-2005159. Deadline: 03/15/17. https://coast.noaa.gov/funding/_pdf/NOAA-NOS-NRPO-2017-2005159-FFO.pdf

Coastal Program (FWS)
This funding opportunity is to provide direct technical assistance and financial assistance to coastal communities and landowners to restore and protect fish and wildlife habitat on public and private lands. Projects should specify benefits for species and habitats considering the expected effects of climate change. Eligibility includes federally recognized tribal

Upcoming Events

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

February 2016

Conference: Alaska Forum on Environment
February 06-10, Anchorage, AK. The Alaska Forum on the Environment (AFE) is a statewide gathering of environmental professionals from government agencies, non-profit and for-profit businesses, community leaders, Alaskan youth, conservationists, biologists and community elders. http://www.akforum.org/

Webinar: Drought, Water Extremes and Infrastructure
February 07, 2:00-3:00 p.m. (Eastern). Offered by the USDA Office of Sustainability & Climate Change. This webinar will explore how researchers and resource managers are assessing and addressing the impacts of drought and water challenges on facilities, dams, roads and other infrastructure. http://www.climatewebinars.net/webinars/drought-water-extremes-and-infrastructure

Webinar: Developing Scenarios for the Landscape-Scale
February 08, 12:00-1:00 p.m. (Mountain). Offered by the Rocky Mountain Research Station. This webinar will explore activities and tools that facilitate effective adaptation and build social-ecological resilience in the context of changing landscapes. https://www.fs.fed.us/rmrs/social-ecological-resilience-and-changing-landscapes-webinar-series

Conference: Tribal Water in Arizona
February 09-10, Phoenix, AZ. Offered by Law Seminars International. This Conference will present a comprehensive and current overview of the legal and practical issues impacting Tribal water rights and the development of Tribal water projects. It is particularly timely as we transition to a Trump administration with the attendant uncertainty at the federal level. http://www.lawseminars.com/seminars/2017/17TRIBWAZ.php

Conference: 2017 National Native Seed Conference
February 13-16, Washington, D.C. Offered by the Native Seed Network and Institute for Applied Ecology. The National Native Seed Conference connects research, industry, land management, and restoration professionals, providing the premier opportunity to develop relationships and share information about the collection, research and development, production, and use of native plant materials. http://nativeseed.info/

Webinar: Using Social Network Analysis to Evaluate Change in a Large-Scale Collaborative Management Initiative
February 15, 11:00 a.m. – 12:00 p.m. (Pacific). Offered by the GNLCC Rocky Mountain Partner Forum. The purpose of this webinar will describe the use of social network analysis as a tool to monitor and track longitudinal change in the social-governance system of a landscape conservation network, the Roundtable on the Crown of the Continent. https://attendee.gotowebinar.com/register/8159024269287487236?mc_cid=77b6a7457a&mc_eid=404a699b4c

Webinar: Integrative Forest Management for Wildlife and Forest Health
February 15, 1:00-2:00 p.m. (Eastern). Offered by USDA. This webinar will discuss forest management strategies to improve wildlife habitat in forests while maintaining productivity and health. http://www.climatewebinars.net/webinars/integrative-forest-management-for-wildlife-and-forest-health

Conference: Northwest Basin & Range Ecosystem Symposium
February 15-17, Lakeview, OR. Offered by the Great Basin LCC. The NW Great Basin ecoregion is one of the most intact ecosystems in the west. It is also a biological hotspot for migratory birds, greater sage-grouse and a stronghold for pronghorn antelope. However, altered fire regimes, invasive species, water scarcity, development, and climate change threaten the integrity of this landscape. Several efforts are ongoing for individual species, specific threats or sub-geographies, and over 60 existing plans and assessments have been identified for the region. http://greatbasinlcc.org/nw-basin-range
Conference: Climate Change in the West – The Path Forward
February 16-17, Seattle, WA. Offered by Law Seminars International. Our faculty of expert attorneys, policy makers, and environmental advocates will explore the climate strategies that are underway within Western states and Canadian provinces, the integration of the Western electricity grid as a means of achieving reductions, the adaptation strategies being undertaken at all levels of government, and the increasing sense that environmental justice needs to inform all of these efforts.

Conference: Great Basin Consortium Conference
February 21-23, Reno, NV. Offered by the GBLCC. The conference will focus on the implementation of the Science Plan being developed as part of the Secretarial Order on Rangeland Fire Prevention, Management and Restoration by hosting workshops to address the key science needs described in the forthcoming plan. The output from these discussions will help shape the implementation of the science plan.
http://greatbasinlcc.org/calendar/great-basin-consortium-conference

ITEP: Climate Change Adaptation Training
February 21-23, Anchorage, AK. Offered by the Institute for Tribal Environmental Professionals (ITEP). The course provides an introduction to planning for climate change impacts, including identifying impacts, vulnerabilities, and adaptation strategies; and tools, resources, and partnerships. The course is intended for tribal environmental and natural resource professionals and other tribal staff who expect to be involved in climate change adaptation planning within the Alaskan region.
http://www7.nau.edu/itep/main/Training/training_cc

Webinar: Targeting Restoration Based on Demand, Not Just Supply: Why Putting People on the Map Matters
February 22, 2:00-3:00 p.m. (Eastern). Offered by the ETPBRLCC. This webinar will feature Bonnie Keeler who will speak about ongoing assessments in Iowa and Minnesota aimed at informing the targeting of restoration and best management practices in agricultural landscapes, and Craig Miller who will speak about farmers’ land use value orientations, land ethic and perceived responsibilities.

Webinar: Introduction to Plant Identification
February 23, 2:00-3:00 p.m. (Eastern). Offered by USDA. The goal of this webinar is to provide participants with a basic understanding of plant ecology and a framework for determining the identity of plants.
http://www.climatewebinars.net/webinars/introduction-to-plant-identification

March 2016

Conference: Climate Leadership Conference
March 01-03, Chicago, IL. Offered by USEPA, C2ES & The Climate Registry. The conference will convene a global audience of climate, energy, and sustainability professionals to address climate change through policy, innovation and business solutions.
http://www.climateleadershipconference.org/

Training: National Environmental Justice Conference and Training Program
March 08-10, Washington, D.C. Offered by NEJCTP. Leaders from various sectors will engage in 3 days of free exchange of ideas and approaches to achieving environmental justice. These interactive training sessions will feature voices of experience, research, discussions, and thought-provoking dialogue.
http://thenejc.org/

ITEP Training: Climate Change Adaptation Training
March 14-16, Spokane, WA. The course provides an introduction to planning for climate change impacts, including identifying impacts, vulnerabilities, and adaptation strategies; and tools, resources, and partnerships. The course is intended for tribal environmental and natural resource professionals and other tribal staff who expect to be involved in climate change adaptation planning within the Northwest region.
http://www7.nau.edu/itep/main/Training/training_cc

ITEP Training: WASTE: Composting Programs and Tribal Food Sovereignty
March 21-23, Tucson, AZ. Offered by ITEP’s Waste & Response Program.
http://www7.nau.edu/itep/main/Training/training_waste

Conference: 4th Annual HBCU Climate Change Conference
March 30-April 03, New Orleans, LA. Offered by Dillard University’s Deep South Center for Environmental Justice. The
The purpose is to bring together HBCU faculty and students, researchers, climate professionals and environmental justice and coastal community residents impacted by toxic facilities and severe weather events to bridge the gap between theory and experiential realities of climate change.


April 2016

Conference: Tribal Energy in the Southwest
April 03-04, Albuquerque, NM. Offered by the Law Seminars International. This conference will focus on the newly changing landscape for Tribal energy development, including recent state regulatory trends, federal leadership, policy, and regulatory changes, project financing, and project development trends. Our distinguished faculty will provide attorneys, Tribal representatives, industry executives and consultants with key information on successful Tribal energy development in the Southwest.


Conference: 2017 NCR Water Resources Symposium
April 07, 8:30 a.m. – 4:30 p.m. Eastern. Offered by the American Water Resources Association. This one-day symposium will bring together experts from governmental agencies, academia, the private sector, and non-profits to present and discuss innovations in water research, technology, policy and management to respect and reflect the true value of water.


Training: National Cohesive Wildland Fire Management Strategy Workshop
April 25-27, Reno, NV. Offered by the Int’l Association of Wildland Fire & Nat’l Cohesive Wildland Fire Mgt. Strategy. This workshop will provide a clear understanding of the importance and critical role of science in all Cohesive Strategy planning and implementation (leaders intent on why, where we are now, and where we will be when completed or in the future).

http://campaign.r20.constantcontact.com/render?m=1105231108197&ca=c42da349-7e70-4d8a-adc5-e0fa506d91e6

Training: Adapting to Climate Change: Actions, Implementations, and Outcomes
April 28-May 01, University of Notre Dame. Offered by the Northwest CSC. This workshops will showcase cutting edge social science research on climate change adaptation.

https://www.nwclimatescience.org/events/adapting-climate-change-actions-implementations-and-outcomes

May 2016

Conference: 15th Annual Climate Prediction Applications Science Workshop
May 02-04, Anchorage, AK. Offered by NOAA, ACCAP and others. The 2017 conference will have the theme “Understanding Extreme Events and Decision-Maker Needs in the Context of Climate Variability and Change”. The meeting format will include symposium-style sessions, panel sessions, discussions, and keynote speakers that address this theme.

http://nwbllc.org/?p=2107

Conference: National Adaptation Forum
May 09-11, St. Paul, MN. The National Adaptation Forum is the gathering of the adaptation minded. Since the Forum is created by and for the members of the adaptation community, the meeting focuses on issues of the day - established and emerging.

http://nationaladaptationforum.org/

Conference: Impacts of a Changing Environment on the Dynamics of High-latitude Fish and Fisheries
May 09-12, Anchorage, AK. Offered by Sea Grant Alaska. This symposium examines the impacts of the environment, especially climate change and variability, on the dynamics of arctic and subarctic species of commercial, subsistence, and ecological importance. We will focus on the effects of warming, loss of sea ice, ocean acidification, and oceanographic variability on the distribution, phenology, life history, population dynamics, and interactions of these species and how a better understanding of these effects can inform the assessment and management of fish and invertebrate populations in a changing ocean for the benefit of affected communities.

https://seagrant.uaf.edu/conferences/2017/wakefield-fish-dynamics/

Conference: Great Basin Bird Conference
May 17-21, Reno, NV. Offered by the GBLCC. In addition to showcasing birds and habitat conservation efforts in the region, the conference will be a wonderful celebration of Great Basin Bird Observatory’s 20-year anniversary and will have a lively keynote address by Ted Floyd.

http://greatbasinlcc.org/calendar/great-basin-bird-conference
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