



NORTHERN ARIZONA  
UNIVERSITY



Institute for Tribal Environmental Professionals



## *Tribal Climate Change Newsletter*

### *March 2016*

*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*



*The Rio Grande bordering Santa Ana Pueblo, NM.. Photo credit: Sue Rose*

The upcoming **Climate Change Adaptation Planning trainings** in Alaska (April 19-21) and Idaho (April 26-28) are full and have waiting lists. Registration is open for the training in Pala, California (June 7-9); application forms are available on our website: [http://www7.nau.edu/itep/main/Training/training\\_cc](http://www7.nau.edu/itep/main/Training/training_cc). We are still scheduling trainings for Bayfield, Wisconsin (July 12-14), Billings, Montana (August TBD), and Nebraska City, Nebraska (Sept 13-15 tentative).

ITEP, the National Tribal Air Association, and other partners have been busy planning the **National Tribal Forum on Air Quality (NTF)**, scheduled for May 17-19 at the Seneca Niagara Resort in Niagara Falls, NY. NTF will include sessions on air quality and climate change and opportunities for networking. There are several pre-conference trainings scheduled for Monday, May 16, including a half-day introductory session on the Clean Power Plan. Please visit the website for more information: [http://www7.nau.edu/itep/main/Conferences/confr\\_ntf](http://www7.nau.edu/itep/main/Conferences/confr_ntf).

ITEP is also planning the annual **Tribal Lands & Environment Forum (TLEF)**, scheduled for August 15-18 at the Mohegan Sun Resort in Uncasville, Connecticut. The forum will feature special trainings, field trips, and breakout sessions focused on solid/hazardous waste management, brownfields, UST/LUSTs, Superfund sites, emergency response, water (water quality, drinking water, and habitat restoration), and

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#### Newsletter

To subscribe or unsubscribe to this newsletter, please go to [www7.nau.edu/itep/main/listsrv/](http://www7.nau.edu/itep/main/listsrv/) where you can manage your Tribes & Climate Change Listserv and other ITEP Listserv subscriptions.

#### 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/](http://www7.nau.edu/itep/main/tcc/)

climate change (focus on land and water issues). Presentation proposals are being accepted through May 6, and registration is now open. Please visit the website for more information: [http://www7.nau.edu/itep/main/Conferences/confr\\_tlef](http://www7.nau.edu/itep/main/Conferences/confr_tlef)

--Sue Rose, Program Manager  
(please note my new name and email address: [susan.rose@nau.edu](mailto:susan.rose@nau.edu))

## *In The News*

### **Rising Sea Levels Will Force 13.1 Million Americans to Relocate.**

First the National Aeronautics and Space Administration (NASA) announced that the average surface temperature across the globe in February was the hottest ever on record. Then a new study published by scientists at the University of Georgia found that, unless we reduce our dependence on petroleum, 13.1 million Americans will have to move to higher ground before the end of the century because of the rising sea levels caused by global warming. © 2006-2016 AXS Digital Group LLC, 03/15/16.

<http://www.examiner.com/article/rising-sea-levels-will-force-13-1-million-americans-to-relocate>

### **Obama Administration Opens Arctic and Gulf of Mexico to More Offshore Drilling**

Today, the Obama Administration released the draft of its 2017-2022 plan for offshore drilling, known as the Outer Continental Shelf Oil and Gas Leasing Program. © IC Magazine, 03/15/16.

<https://intercontinentalcry.org/obama-administration-opens-arctic-gulf-mexico-offshore-drilling/>

### **Louisiana's Vanishing Island: The Climate 'Refugees' Resettling for \$52m**

Isle de Jean Charles has lost 98% of its land and most of its population to rising sea levels – but as remaining residents consider relocation, what happens next is a test case to address resettlement needs. © 2016 Guardian News and Media Limited, 03/15/16.

<http://www.theguardian.com/environment/2016/mar/15/louisiana-isle-de-jean-charles-island-sea-level-resettlement>

### **County Climate Change Group Talks Forest Management**

The Umatilla County Climate Change Focus Group held a workshop on Saturday to discuss adaptive forest management. Seated in a circle around the conference room at Blue Mountain Community College, about 30 people gathered Saturday afternoon to discuss the effects of climate change on local forests and what can be done to make the landscape more adaptable. © 2016 East Oregonian, 03/14/16.

<http://www.eastoregonian.com/eo/local-news/20160314/county-climate-change-group-talks-forest-management>

### **Obama, Trudeau Pledge Partnership on Climate Change, Energy, Arctic**

Prime Minister Justin Trudeau and United States President Barack Obama say they will make climate change and the long-term health of the Arctic environment and its people a priority as they work together on implementing their commitments under last December's COP21 agreement on climate change. © 1995-2016 Nortext Publishing Corporation (Iqaluit), 03/11/2016.

[http://www.nunatsiaqonline.ca/stories/article/65674obama\\_trudeau\\_pledge\\_partnership\\_on\\_climate\\_change\\_energy\\_arctic/](http://www.nunatsiaqonline.ca/stories/article/65674obama_trudeau_pledge_partnership_on_climate_change_energy_arctic/)

### **Bernie Asked at Town Hall If He Will Protect Native Lands**

During MSNBC's Town Hall last Thursday featuring Democratic candidates Hillary Clinton and Bernie Sanders, a tall Paiute man, William Anderson addressed Sanders from the audience: "There are those who oppose the American people's ownership of public lands, and would see those lands sold to private interest. As president, how would you ensure that our public lands remain in public hands, and preserve our heritage and lives by stopping corporation from destroying Mother Earth?" © 2016 Indian Country Today Media Network, LLC, 02/22/16.

<http://indiancountrytodaymedianetwork.com/2016/02/22/bernie-asked-town-hall-if-he-will-protect-native-lands-163497>

### **Scientists and American Indian Tribal Members Talk Climate Change Realities at AAAS**

Despite an above average snowpack and several months of wet weather, drought and changing climate conditions continue to plague farmers and ranchers across Nevada and other western states. For American Indian communities in Northern Nevada, the consequences of a changing ecosystem are severe and will impact generations to come, according to new research and outreach presented today at the American Association for the Advancement of Science (AAAS) Annual Meeting in Washington, D.C. © 2016 by the American Association for the Advancement of Science (AAAS), 02/13/16.

[http://www.eurekalert.org/pub\\_releases/2016-02/dri-sa021316.php](http://www.eurekalert.org/pub_releases/2016-02/dri-sa021316.php)

## Resources

### **Exotic Brome-Grasses in Arid and Semiarid Ecosystems of the Western U.S.: Causes, Consequences, and Management Implications (USFS)**

This book synthesizes available literature on the biology, ecology, sociology and economics of *Bromus* grasses to develop a more complete picture of the factors that influence their invasiveness, impacts and management in the western U.S. 01/16.

<http://fresc.usgs.gov/products/ProductDetails.aspx?ProductNumber=50188>

### **From Icefield to Ocean (USGS)**

This poster by Shad O'Neel (USGS Alaska Science Center), Kristin Timm (University of Alaska Fairbanks), and Eran Hood (University of Alaska Southeast) received the 2015 Eugene M. Shoemaker Communication Award, which depicts the important linkages between glaciers and the ocean. The team felt that it was particularly important to find a compelling way to communicate these research findings to Alaskans because Alaska's coastal glaciers are among the most rapidly changing areas on the planet and glacier runoff can influence marine habitats, ocean currents and economic activities. 02/29/16.

<https://nccwsc.usgs.gov/content/ak-csc-poster-%E2%80%9Cicefield-ocean%E2%80%9D-receives-shoemaker-award-external-communications>

### **Office of Indian Energy Website (DOE)**

The Office of Indian Energy Policy and Programs and the Office of Energy Efficiency and Renewable Energy's Tribal Energy Program have officially joined forces, forming a single entity with a shared mission and vision: to be the premier federal office for providing American Indians and Alaska Natives with the knowledge, skills, and resources needed to maximize the development and deployment of strategic energy solutions that benefit tribal communities. 03/16.

<http://www.energy.gov/indianenergy/office-indian-energy-policy-and-programs>

### **Understanding Climate Change Impacts on Water Resources (EPA)**

EPA has released a new online training module, [Understanding Climate Change Impacts on Water Resources](#). This module is intended to increase water resource professionals' understanding of the causes of climate change, its potential impacts on water resources, and the challenges that water resource professionals face. The module also describes how federal, state, tribal, and local governments and communities are working to make the United States more resilient to the impacts of climate. The 45-minute training is part of the [EPA Watershed Academy](#) Web certificate program. 03/16.

<http://www.epa.gov/watershedacademy/understanding-climate-change-impacts-water-resources>

## Other Items of Interest

### **Alaska Voices on Climate (U.S. EPA)**

The EPA is seeking videos on the impact of climate on Alaska today and the work that is being done to ensure a healthy environment for future generations. Submission of videos should address how climate change has affected your community, what your community is doing to adapt, and what lessons you can share to help other communities to become more resilient.

<http://www.epa.gov/ak/alaskan-voices-climate>

### **Midwestern Regional Climate Center (MRCC) Summer Intern-Climatologist (NOAA)**

The MRCC is seeking college applicants to apply for an intern position who will serve in a support role within the service and research-based environment. The intern will assist MRCC climatologists with service activities including responding to data and information requests in the service office as well as work on applied climate research projects. **Deadline: 03/28/16.**

[http://mrcc.isws.illinois.edu/multimedia/releases/2016/MRCC\\_SummerIntern\\_Climatologist2016.pdf](http://mrcc.isws.illinois.edu/multimedia/releases/2016/MRCC_SummerIntern_Climatologist2016.pdf)

### **Postdoc at Michigan State University/College of Menominee Nation on Indigenous Peoples and U.S. Climate Science (NSF)**

Michigan State University and the College of Menominee Nation invite applicants for a research associate (postdoctoral research fellow) under a National Science Foundation grant. This project seeks to understand the range of practices that U.S. climate science organizations employ to prepare their staff for ethical issues that will occur when engaging with Indigenous peoples and to evaluate the perceptions of the effectiveness of these practices from organizational and Indigenous perspectives. Posting #2549.

<https://jobs.msu.edu/applicants/jsp/shared/frameset/frameset.jsp?time=1452901908833>

### **Remote Alaskan Communities Energy Efficiency Competition (U.S. DOE)**

The U.S. Department of Energy's Office of Indian Energy and Office of Energy Efficiency and Renewable Energy

announced a new energy efficiency competition to help remote Alaskan communities with energy challenge. The goal is to empower Alaskan communities and Alaska Native villages to develop effective tools to advance the use of reliable, affordable, and energy efficient solutions that are replicable throughout Alaska and other Arctic regions. **Deadline: March 31.** <http://www.energy.gov/remote-alaskan-communities-energy-efficiency-competition>

#### **Spring/Summer 2016 K-12 BIE/BIA Tribal Student Climate Change Photo Contest (BIE/BIA)**

Using a classroom or cell phone camera, take a picture of things of value in your community that climate change might affect, include a climate caption, and submit the photo or questions by e-mail. **Spring deadline: April 30 and summer deadline: August 26.**

<http://www.indianaffairs.gov/cs/groups/webteam/documents/document/idc1-032906.pdf>

### ***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/>

#### **GBLCC FY16 Funding Request for Pre-Proposals for Information Synthesis, Knowledge Discovery, and Conservation Planning (USFWS)**

The Great Basin Landscape Conservation Cooperative intends that awards under this announcement will support its mission and goals regarding how climate change and other stressors affect natural and cultural resources within the geographic range of the GBLCC. Eligibility includes federally recognized Native American tribal governments and Native American tribal organizations. Funding opportunity # F16AS00092. Deadline: 03/25/16.

<http://www.grants.gov/web/grants/search-grants.html?keywords=F16AS00092>

#### **California LCC FY2016 Place-Based Projects (CA LCC)**

The purpose is to support collaborative place-based projects that meet the goals and objectives of the 5 year Science-Management Framework. The goals of the Framework are: 1) Conserve resilient, adaptable, and self-sustaining aquatic and terrestrial ecosystems that maintain California's biodiversity, 2) Promote landscape-scale connectivity and ecological and physical processes that function within current and future ranges of variability to support diverse and thriving ecosystems and 3) Ameliorate the impacts of climate change and other co-occurring stressors to ecosystems and species. Eligibility includes tribes. 03/28/16.

[http://californialcc.org/sites/default/files/news\\_files/2016\\_GUIDELINES%20for%20CA%20LCC%20proposals%20Final.pdf](http://californialcc.org/sites/default/files/news_files/2016_GUIDELINES%20for%20CA%20LCC%20proposals%20Final.pdf)

#### **Wetlands Mitigation Banking Program (NRCS)**

The purpose of this notice is to announce the availability of Wetland Mitigation Banking Program grant funds for the development and establishment of mitigation banks and banking opportunities solely for agricultural producers with wetlands subject to the Wetland Conservation Compliance provisions of the 1985 Food Security Act (as amended). Eligibility includes federally recognized Native American tribal governments. Funding opportunity #USDA-NRCS-NHQ-WMBP-16-01. Deadline: 03/28/16.

<http://www.grants.gov/web/grants/view-opportunity.html?oppld=281191>

#### **Environmental Education Local Grants Program (EPA)**

The purpose of this request for proposal is to support locally-focused environmental education projects that increase public awareness and knowledge about environmental issues and provide the skills that participants in its funded projects need to make informed environmental decisions and take responsible actions toward the environment. Eligibility includes tribal education agencies such as a school or community college controlled by a federally recognized Indian tribe, band or nation. Funding opportunity #EPA-EE-16-01. Deadline: 04/08/16.

[http://www.epa.gov/sites/production/files/2016-02/documents/2016\\_ee\\_local\\_grants\\_rfp\\_final\\_2\\_9\\_16\\_508version.pdf](http://www.epa.gov/sites/production/files/2016-02/documents/2016_ee_local_grants_rfp_final_2_9_16_508version.pdf)

#### **Drought Resiliency Project Grants for Fiscal Year 2016 (BOR)**

The objective of this funding opportunity announcement (FOA) is to invite States, tribes, irrigation districts, water districts, and other organizations with water or power delivery authority to leverage their money and resources by cost sharing with Reclamation on Drought Resiliency Projects that will increase the reliability of water supply; improve water management; implement systems to facilitate the voluntary sale, transfer, or exchange of water; and provide benefits for fish, wildlife, and the environment to mitigate impacts caused by drought. Eligibility includes tribes. Funding Opportunity # R16-FOA-DO-006. Deadline: 04/11/16.

<http://www.grants.gov/web/grants/view-opportunity.html?oppld=281469>

#### **Establishment of an Inter-Tribal Technical Assistance Energy Providers Network (DOE)**

This funding opportunity announcement (FOA) is soliciting applications to provide technical assistance on a regional basis,



to best meet the needs of their member Indian tribes, resulting in clear measurable outcomes or end-products that include a plan to become financially sufficient beyond Department of Energy's Office of Indian Energy funding and a methodology of equitably providing services across member Indian tribes or Alaska Native villages. Eligibility includes Alaska Native Regional Corporations as defined in and established pursuant to the Alaska Native Claims Settlement Act, and inter-tribal organizations. Funding opportunity #DE-FOA-0001453. Deadline: 04/14/16.

<https://eere-exchange.energy.gov/#Foald47df7cd5-5f75-4e14-954b-bce53b93cdca>

#### **BLM CO – Vegetation Management and Fuels Reduction (BLM)**

The project/program is to restore and maintain healthy, productive ecosystems and wildlife populations through management activities including to continue to reduce the risk of undesirable catastrophic wildfires. Disruption of the pre-settlement disturbance regimes and climate have caused vegetative changes that now put many of Colorado's ecosystems at risk of uncharacteristic damaging wildfire and unhealthy conditions. Eligibility is unrestricted. Funding opportunity #L16AS00037. Deadline: 04/19/16.

<http://www.grants.gov/web/grants/view-opportunity.html?oppld=281608>

#### **Integrating Human Health and Well-Being with Ecosystem Services (EPA)**

The EPA announces the request for applications (RFA) to fund community-based research that will foster better understanding of how human health and well-being are interconnected with-and depend on-ecosystem services. The RFA aims to develop information that allows communities to integrate environmental, societal and economic information and to better manage multiple stressors and their cumulative impacts on humans and ecosystems. Eligibility includes federally recognized Indian tribal governments. Funding opportunity #EPA-G2016-STAR-A1. Deadline: 04/21/16.

<http://www.epa.gov/research-grants/integrating-human-health-and-well-being-ecosystem-services>

#### **WaterSMART: Cooperative Watershed Management Program (CWMP) for Fiscal Year (FY) 2016 (BOR)**

The objective of this funding opportunity announcement is to invite eligible entities to submit proposals for Phase I activities to establish or further develop a watershed group. Funding provided under this announcement may be used to develop a mission statement, project concepts, and/or a restoration plan. Eligibility includes Indian tribes. Funding opportunity #R16-FOA-DO-008. Deadline: 05/04/16.

<http://www.grants.gov/web/grants/view-opportunity.html?oppld=281889>

#### **Research to Action: Assessing and Addressing Community Exposures to Environmental Contaminants (NIH)**

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 health action plan based on research findings. Eligibility includes tribally controlled colleges and universities, federally recognized tribal governments, and Native American tribal organizations. Funding opportunity # PA-16-0836. Deadline: 05/05/16.

<http://grants.nih.gov/grants/guide/pa-files/PA-16-083.html>

#### **2017 National Urban and Community Forestry Grant Program (USFS)**

This request for proposals (RFP) seeks innovative (new, cutting-edge or builds upon existing studies) grant proposals for program development, study, and collaboration that will address strategies in the National Ten Year Urban Forestry Action Plan (2016-2026). Specifically, this RFP is to address the following priority issues: 1) Developing a National Urban Forestry Funding Assessment and Methodology, and 2) Understand Urban Forest Ecosystem/Ecological Services. Eligibility includes federally recognized Native American tribal governments. Funding opportunity # USDA-FS-UCF-01-2017. Deadline: 06/17/16.

<http://www.grants.gov/web/grants/view-opportunity.html?oppld=281798>

### *Upcoming Events*

**NOTE:** More Upcoming Events can be found at the Tribes & Climate Change website:

<http://www7.nau.edu/itep/main/tcc/Home/Events>

#### **March 2016**

##### **Training: 14th Annual Climate Prediction Applications Science Workshop**

March 22-24, Burlington, VT. Offered by the NOAA National Weather Service Climate Services Branch, University of Vermont, and other climate services. The workshop will bring together a diverse group of climate researchers, information producers, and users to share developments in the research and applications of climate predictions for societal decision-making.

<http://www.uvm.edu/~cpasw/>

**Webinar: The Importance of Traditional Ecological Knowledge in Adaptation Planning**

March 23, 1:00 – 2:00 p.m. EST. Offered by the National Adaptation Forum. TEK is knowledge handed down through generations through traditional stories and beliefs, including the relationship with the natural environment. This webinar will focus on the importance and role of TEK in adaptation planning at local, regional, and national level.

<http://nationaladaptationforum.org/other-adaptation-events/webinars/importance-traditional-ecological-knowledge-adaptation-planning>

**Conference: Northwest Scientific Association Annual Meeting**

March 23-26, Bend, OR. Offered by the Northwest Scientific Association. Special Sessions include a Fire Symposium, Historical and Pre-Historical Ecosystem Baselines, Convergence of Arts, Humanities, and Ecology in the Inspiring Wildlands of the Northwest, Lichen & Bryophyte Ecology and a Workshop on Rare, Threatened, and Endangered Lichens East of the Cascades.

<http://www.northwestscience.org/page-1844479>

**Online Training: Climate Adaptation and Emergency Mitigation Planning for Alaskan Communities**

March 28-May 06, Offered by the Water Policy Consulting, LLC. This six week on-line training is intended for environmental professionals, policy makers and community members in Alaska who are involved in climate change adaptation and emergency mitigation planning in their community.

<http://www.waterpolicyconsulting.com/>

**Webinar: Grassland Vulnerability to Climate Change in Southwest Deserts**

March 29, 12:00-1:00 p.m. MST. Offered by the Southern Rockies Landscape Conservation Cooperative. Climate change predictions include warming and drying trends, which are expected to be particularly pronounced in the southwestern United States. In this region, grassland dynamics are tightly linked to available moisture, yet it has proven difficult to resolve what aspects of climate drive vegetation change.

<http://southernrockieslcc.org/webinar/march-29-webinar-grassland-vulnerability-to-climate-change-in-southwest-deserts/>

**Training: Climate Fundamentals Academy: South Florida Regional Workshop #2**

March 29-30, Fort Lauderdale, FL. Offered by the Association of Climate Change Officers. These training activities provide participants with a foundation for understanding greenhouse gas emissions and related reporting and disclosure frameworks, strategies for engaging stakeholders and leading organizational change, assessing the legal and policy landscape and examining the economic implications of climate change.

<http://community.accoonline.org/events/EventDetails.aspx?id=691002>

**Training: GHG Mitigation Innovation and Perspective from the Field Workshop**

March 29-30, Chicago, IL. Offered by the USDA Northern Forests-Climate Hub and the Forest Climate Working Group. This workshop will focus on climate change mitigation in the forest sector, targeting innovators from USDA, state agencies, non-governmental organizations, and other groups who have experience developing forest management and conservation projects with greenhouse gas mitigation benefits.

<http://www.climatehubs.oce.usda.gov/northernforests/ghgworkshop>

**April 2016****Training: Northern California Climate Fundamentals Academy**

April 04-05, Berkeley, CA. Offered by the Association of Climate Change Officers. This is one part of 2-day training academies to enable attendees to satisfy all course requirements for the Climate Governance Certificate, a credential issued through ACCO's CCO Certification™ Program. These academies will provide curriculum on topics including understanding climate science and variability, identifying climate hazards and conducting vulnerability assessments, basics of greenhouse gas accounting, explanations of the food-water-energy nexus, and fundamental governance and stakeholder engagement strategies.

[http://climatefundamentals.org/northerncalifornia.html?utm\\_source=Newsletter+2.17.16&utm\\_campaign=Constant+Contact&utm\\_medium=email](http://climatefundamentals.org/northerncalifornia.html?utm_source=Newsletter+2.17.16&utm_campaign=Constant+Contact&utm_medium=email)

**Conference: Local Solutions: Eastern Regional Climate Preparedness Conference**

April 04-06, Baltimore, MD. Offered by the Antioch University and U.S. EPA. This capacity-building, "how to" conference, convened by Antioch University's Center for Climate Preparedness & Community Resilience in partnership with the U.S. Environmental Protection Agency (EPA), is designed to build capacity for local decision makers from throughout the Eastern United States (EPA Regions 1-4).

<http://www.communityresilience-center.org/conference-2016/>

**Conference: Fortieth Annual National Indian Timber Symposium**

April 04-07, San Carlos, AZ. Offered by the Intertribal Timber Council and hosted by the San Carlos Apache Tribe. The

symposium will offer field trips, workshops, panels, and featured speakers addressing the theme, “*Strengthening Traditional Connections to the Land: The Future of Forest Management.*”

[http://www.itcnet.org/issues\\_projects/projects\\_2/symposium.html](http://www.itcnet.org/issues_projects/projects_2/symposium.html)

**Webinar: Freshwater Discharge into the Gulf of Alaska: Historical Conditions and Future Scenarios**

April 5, 10:00 a.m. Alaska. Offered by the Alaska Center for Climate Assessment and Policy. Freshwater discharge into the Gulf of Alaska (GOA) is controlled by a complex set of meteorologic and hydrologic processes. We use a set of climate models and future emissions scenarios in order to test the sensitivity of the hydrologic system to changes in precipitation and temperature patterns. Initial results demonstrate large changes in runoff characteristics.

[https://accap.uaf.edu/?q=freshwater\\_discharge\\_gulf\\_of\\_alaska](https://accap.uaf.edu/?q=freshwater_discharge_gulf_of_alaska)

**Webinar: Patterns, Causes & Consequences of Spring Onset Timing Variations & Trends in the U.S.**

April 06, 3:30-4:30 p.m. EST. Offered by the Northeast Climate Science Center. This webinar will feature Julio Betancourt (USGS) who will discuss how seasonal timing has myriad impacts on plants and animals, biospheric processes, and human systems, and is critical for formulating adaptive responses to both climate variability and change.

<https://necsc.umass.edu/webinars/%E2%80%9Cpatterns-causes-and-consequences-spring-onset-timing-variations-and-trends-us%E2%80%9D>

**Conference: Keeping History Above Water**

April 10-13, Newport, RI. Offered by the Newport Restoration Foundation. This will be one of the first national conversations to focus on the increasing and varied risks posed by sea level rise to historic coastal communities and their built environments. This is not a conference about climate change, but about what preservationists, engineers, city planners, legislators, insurers, historic home owners and other decision makers need to know about climate change—sea level rise in particular—and what can be done to protect historic buildings, landscapes and neighborhoods from the increasing threat of inundation.

<http://www.historyabovewater.org/>

**Conference: Native American Fish & Wildlife Society: 27<sup>th</sup> Annual Great Plains Region Conference**

April 10-13, Red Lodge, MT. Offered by the Native American Fish & Wildlife Society who are dedicated to the conservation, protection and enhancement of tribal fish, wildlife, habitat and cultural resources.

**Webinar: Alaska River Break-up: Historic comparison and 2016 Spring Outlook - What can we expect?**

April 12, 10:00-11:00 a.m. Alaska. Offered by the Alaska Center for Climate Assessment and Policy. Each year the National Weather Service provides a breakup outlook for Alaska Rivers. This winter stands out as unusual with both temperature and precipitation anomalies observed throughout the state. This will be followed by a comparison of historic breakup years and a spring/summer climate outlook.

[https://accap.uaf.edu/?q=2016\\_RiverBreakup](https://accap.uaf.edu/?q=2016_RiverBreakup)

**Conference: 2016 National Watershed & Stormwater Conference**

April 12, 9:00-7:00 p.m. EST. Offered by the Center for Watershed Protection. Join for a unique conference uniting in-person discussion with online participation that concurrently addresses local and national watershed issues and tools.

<https://cwp.org/2016-national-watershed-stormwater-conference/>

**Webinar: Environmental Code Development for Alaska Natives**

April 13, 11:00 - 12:15 p.m. AKT - Offered by the Water Policy Consulting, LLC. Presentation will focus on policy tools available to Tribal communities in Alaska to further their goals of long term resilience to climate and other stressors, while at the same time promoting Tribal sovereignty and strengthening their ability to participate in government to government relationships with state and local agencies.

[https://events-na11.adobeconnect.com/content/connect/c1/1083313451/en/events/event/shared/1395892285/event\\_landing.html?sco-id=1405370265&\\_charset=utf-8](https://events-na11.adobeconnect.com/content/connect/c1/1083313451/en/events/event/shared/1395892285/event_landing.html?sco-id=1405370265&_charset=utf-8)

**Webinar: Solar for All: Making it Happen in Low-Income Communities**

April 13, 2:00-3:30 p.m. Eastern. Offered by the U.S. EPA. This 90-minute webcast will provide a nationwide overview of community solar (shared solar) and rooftop solar programs available to low-income households, and will feature case study discussions by solar energy policy experts to illustrate the opportunities, challenges, and benefits of providing low-income households access to solar energy.

<https://attendee.gotowebinar.com/register/3795662946328688641>

**Conference: National Conference on Ecosystem Restoration (NCER) 2016**

April 18-22, Coral Spring, FL. Offered by the University of Florida. This is an interdisciplinary conference on large-scale ecosystem restoration presenting state-of-the art science and engineering, planning and policy in a partnership

environment.

<http://www.conference.ifas.ufl.edu/NCER2016/>

**ITEP Training: ITEP/ANTHC Training: Climate Change Adaptation Planning**

April 19-21, Anchorage, AK. Offered collaboratively by the Institute for Tribal Environmental Professionals (ITEP) and the Alaska Native Tribal Health Consortium (ANTHC). 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 in the Alaskan region.

[http://www7.nau.edu/itep/main/Training/training\\_cc](http://www7.nau.edu/itep/main/Training/training_cc)

**Conference: 4<sup>th</sup> Climate Change and Indigenous Peoples Symposium**

April 25, 6:30 p.m. Pacific. Eugene, OR. Offered by the University of Oregon. Keynote speakers are Maxine Burkett, William S. Richardson School of Law at the University of Hawai'i at Manoa and Elizabeth Kronk Warner, University of Kansas.

<http://ccip.uoregon.edu/>

**Webinar: Recreational Seascapes: Integrating Human and Mechanical Observations on Hawai'i Island**

April 26, 3:00 p.m. EDT. Offered by the National Climate Change and Wildlife Science Center and National Conservation Training Center. Seascapes symbolize both the physical dimensions of ocean and coastal areas, as well as the meanings humans ascribe to their observations, interactions, and relationships to the sea. In Hawai'i, seascapes are particularly important given that the ocean contributes considerably to the well-being of coastal communities which are vulnerable to climate change and other human pressures. Monitoring and understanding how these areas are changing requires fully knowing the relationship between physical and cultural dynamics.

<https://nccwsc.usgs.gov/webinar/583>

**ITEP Training: Climate Change Adaptation Planning**

April 26-28, Fort Hall, ID. 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 Great Basin region.

[http://www7.nau.edu/itep/main/Training/training\\_cc](http://www7.nau.edu/itep/main/Training/training_cc)

**Webinar: A Research and Decision Support Framework to Evaluate Coastal Landscape Change**

April 27, 3:30 p.m. EST. Offered by the Northeast Climate Science Center. Speaker Erika Lentz will address how coastal change occurs in response to a variety of processes and drivers over a range of timescales.

<https://necsc.umass.edu/webinars/%E2%80%9Cresearch-and-decision-support-framework-evaluate-coastal-landscape-change%E2%80%9D>

**May 2016**

**Conference: 3rd Sea-Level Rise Summit: Connected Futures from Alaska to Florida**

May 03-05, Fort Lauderdale, FL. Offered by the Florida Center for Environmental Studies at Florida Atlantic University. The meeting will convene leading researchers, decision-makers, and other interested stakeholders to discuss the state of sea-level rise science, and how public policy and private adaptation efforts can lessen the impacts everywhere. Discussions will revolve around the following topic areas: Human health, Infrastructure, Ecosystems & Water, Society & Economy, Governance, and National Security & International Response.

<http://www.ces.fau.edu/arctic-florida/>

**Training: Climate Change Science and Communication in the Pacific West**

May 03-05, San Francisco, CA. Offered by the NPS, NASA and USFWS. This free, in-person workshop-style course will provide you with a foundation in climate science with emphasis on the connection of global to local processes and on climate impacts of direct relevance to western coastal states.

[http://files.ctctcdn.com/d332aa07201/4c399f32-8bcb-4127-837a-0e7989eedeef.pdf?utm\\_source=Newsletter+1.20.16&utm\\_campaign=Constant+Contact&utm\\_medium=email](http://files.ctctcdn.com/d332aa07201/4c399f32-8bcb-4127-837a-0e7989eedeef.pdf?utm_source=Newsletter+1.20.16&utm_campaign=Constant+Contact&utm_medium=email)

**Training: Adaptation Forum Workshops in the Four-Corners and Upper Rio Grande Basin**

May 04-05, Durango, CO. Offered by the Southern Rockies Landscape Conservation Cooperative. Workshops will be arranged around delivering and developing relevant science and decision support tools for the practitioner based on previous and ongoing SRLCC projects.

<http://southernrockieslcc.org/>

**Training: Adaptation Forum Workshops in the Four-Corners and Upper Rio Grande Basin**

May 09-11, Albuquerque, NM. Offered by the Southern Rockies Landscape Conservation Cooperative. Workshops will be



arranged around delivering and developing relevant science and decision support tools for the practitioner based on previous and ongoing SRLCC projects.

<http://southernrockieslcc.org/>

**Conference: Fourth Ocean Climate Summit**

May 17, San Francisco, CA. This summit will offer events on resilience through climate-smart conservation.

<http://californialcc.org/news-events/events>

**Conference: 2016 National Tribal Forum on Air Quality**

May 17-19, Niagara Falls, NY. The Institute for Tribal Environmental Professionals (ITEP), the National Tribal Air Association (NTAA), and the Seneca Nation of Indians and the Saint Regis Mohawk Tribe invite you to attend the 17th Annual National Tribal Forum on Air Quality (NTF) with funding made available by the US Environmental Protection Agency (EPA). The NTF provides environmental professionals from tribes, EPA, and other organizations an opportunity to meet and discuss current policies, regulatory initiatives, funding, and technical topics in air quality, and includes climate change sessions.

[http://www7.nau.edu/itep/main/Conferences/confr\\_ntf](http://www7.nau.edu/itep/main/Conferences/confr_ntf)

**Training: Climate Smart Conservation Training**

May 18, San Francisco, CA. This training will offer an introduction to climate adaptation for conservation.

<http://californialcc.org/news-events/events>

**June 2016**

**ITEP Training: Climate Change Adaptation Planning**

June 07-09, Pala, CA. 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 southwest region.

[http://www7.nau.edu/itep/main/Training/training\\_cc](http://www7.nau.edu/itep/main/Training/training_cc)

**July 2016**

**Conference: 2016 Climate Strategies Forum - East Coast**

July 18-20, Arlington, VA. Offered by the Association of Climate Change Officers. Climate Strategies Forum events are the premier programs featuring formal climate change preparedness for credit applicable to credentials issued under the CCO Certification™ program. The Forum also features a suite of keynote conversations, Women's Climate Collaborative speed mentoring session, CCO Roundtable sessions, networking events, a tools and methodologies showcase and a tabletop exhibition.

<http://www.ClimateStrategiesForum.org>.

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