



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

March 2019



*Flathead Lake
Polson, MT*

Kia ora!

It's Spring Break season! We hope everyone gets out and enjoys some quality time with family.

For our readers who have been impacted by the bomb-cyclone to the flooding in the Central U.S. we hope you are all safe. Thank you to all the first responders, volunteers, tribal employees and tribal governments who are operating through this time as many seek relief.

We are reminded by these extreme events the importance of protecting our people, natural resources (ecocultural resources), and communities. Many of you work to protect these valuable resources and if there is a need for additional resources or topics needing to be shared as a webinar please let us know.

As summer approaches the heightened travel season is under way. Many opportunities for events such as webinars, trainings, conferences, and workshops are listed in this month's newsletter. With so many we hope to see you at one of these events.

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

-Leanna, Nikki, Karen, Colleen, & Bobbi Ann

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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

Digging for Indigenous Science in 3,000-Year-Old Clam Beds

- Marco Hatch, a Coastal Salish scholar, talks about the importance of bringing indigenous knowledge to Western research — and what science loses when we don't. © Crosscut, 03/25/2019. <https://crosscut.com/2019/03/digging-indigenous-science-3000-year-old-clam-beds>

Indigenous Peoples Unite in Fight to Save the Salish Sea

- For thousands of years they have treasured the marine life, especially the local orca population. © The Good Men Project, 03/23/2019. <https://goodmenproject.com/featured-content/indigenous-peoples-unite-in-fight-to-save-the-salish-sea/>

Way to Recognize Huge Contribution of Indigenous Peoples to Forests, Nature and Climate

- There are more than 370 million indigenous peoples in 90 countries and they maintain forests that are home to 80 per cent of terrestrial biodiversity. © Devdiscourse, 03/23/2019. <https://www.devdiscourse.com/article/agency-wire/454368-way-to-recognize-huge-contribution-of-indigenous-peoples-to-forests-nature-and-climate>

How Carving Halibut Hooks Teaches Juneau Students Both Science and Tradition

- In a science classroom at Juneau-Douglas High School: Yadaa.at Kalé, students are holding carving knives. Teacher Henry Hopkins walks up and down the rows of desks, showing them how to shape the hunks of yellow cedar in their hands. © KTOO Public Media, 03/22/2019. <https://www.ktoo.org/2019/03/22/how-carving-halibut-hooks-teaches-juneau-students-both-science-and-tradition/>

“Water Is Life”: Midwestern Floods Threaten Indigenous Communities at Forefront of Climate Crisis

- As Nebraska and the U.S. Midwest recover from devastating climate change-fueled floods, we speak with Lakota historian Nick Estes on how two centuries of indigenous resistance created the movement proclaiming “Water is life.” Estes’s new book is titled “Our History Is the Future.” He is a co-founder of the indigenous resistance group The Red Nation and a citizen of the Lower Brule Sioux Tribe. © Democracy Now, 03/22/2019. https://www.democracynow.org/2019/3/22/water_is_life_midwestern_floods_threaten

Microgrid System Saves Tribe \$200,000 a Year

- The Blue Lake Rancheria's solar-powered system makes the California tribe more self-sufficient. © Yale Climate Connections, 03/22/2019. <https://www.yaleclimateconnections.org/2019/03/microgrid-system-saves-tribe-200000-a-year/>

Tribal Nations in Nebraska Are Reeling from Midwestern Floods

- The flooding to hit the Midwest as a result of last week's wild bomb cyclone is no joke. It's already killed at least four people, according to the Washington Post, and Vice President Mike Pence was in Nebraska Tuesday to survey the damage. Satellite images tell a tale of swollen rivers and dramatic flooding in Nebraska, Iowa, South Dakota, Kansas, and Missouri, which is creating major problems for local farmers. © Earther, 03/20/2019. <https://earther.gizmodo.com/tribal-nations-in-nebraska-are-reeling-from-midwestern-1833418301>

Lack of Ice and Climate Change Creating Fear in Alaska

- Subsistence hunting is becoming a key issue as food becomes more scarce. © Anchorage Press, 03/20/2019. https://www.anchoragepress.com/lack-of-ice-and-climate-change-creating-fear-in-alaska/article_aae8b78e-49e7-11e9-b9d7-e3dbcb42f1e3.html

Climate Change Forces Wildlife to Change Migration Routes in Northwest

- Scientists are mapping what they're calling 'wildlife escape routes' in the Northwest and ranking them by priority for restoration. © King5 News, 03/19/2019. <https://www.king5.com/article/tech/science/environment/climate-change-forces-wildlife-to-change-migration-routes-in-northwest/281-1c560505-2871-40ca-86d6-6de0b923d7f8>

Adapting to Melting Ice Trails Isn't Easy, Even for Arctic Locals

- Climate scientists wanted to understand how their lives are changing. © Popular Science, 03/19/2019. <https://www.popsoci.com/inuit-ice-trails-climate-change>

New Mexico Passes Landmark Clean Energy Bill, But Some Tribal Groups Feel Left Out

- The clean energy revolution has arrived, and... it's complicated. New Mexico is now the third state to adopt a 100 percent clean energy mandate, with the legislature passing a bill Tuesday mandating the state reach that goal by 2045. Governor Michelle Lujan Grisham is expected to sign the bill any day now. © Earther, 03/15/2019. <https://earther.gizmodo.com/new-mexico-passes-landmark-clean-energy-bill-but-some-1833296299>

Solar Power Comes to Ute Mountain Tribe

- \$2 million project will lower electricity bills for Towaoc residents. © The Journal, 03/15/2019. <https://the-journal.com/articles/131295>

Indigenous Guardians Sound Alarm About Climate Change Impacts in Canada

- More than 40 Indigenous communities in Canada have launched guardian programs. © Houston Today, 03/14/2019. <https://www.houston-today.com/news/indigenous-guardians-sound-alarm-about-climate-change-impacts-in-canada/>

Can Native American Tribes Protect Their Land if They're Not Recognized By the Federal Government?

- State laws and policies in California have made some progress possible, but many tribes still lack legal recognition and struggle to maintain their cultural heritage and the environment. © Nation of Change, 03/13/2019. <https://www.nationofchange.org/2019/03/13/can-native-american-tribes-protect-their-land-if-theyre-not-recognized-by-the-federal-government/>

The Karuk Tribe Fights a Growing Wildfire Threat and a Lack of Funding

- Surrounded by forests they often can't manage without breaking the law, California tribes struggle to protect themselves from wildfires. © High Country News, 03/12/2019. <https://www.hcn.org/articles/tribal-affairs-in-california-the-karuk-tribe-fights-a-growing-wildfire-threat-and-a-lack-of-funding>

Study Examines Indigenous Agriculture, How It Could Help State Food Problems

- Basic logic demands agricultural production increase as Earth's population grows. But the ever-expanding impacts of climate change, exacerbated by that population growth, will inevitably drive agricultural productivity downward. © Hawaii Tribune Herald, 03/11/2019. <https://www.hawaiitribune-herald.com/2019/03/11/hawaii-news/study-examines-indigenous-agriculture-how-it-could-help-state-food-problems/>

New Research Explores the Effects of Climate Change on Deer & Moose Populations in the Midwest

- A new study examines the past and future effects of climate change on white-tailed deer and moose in 13 states of the midwestern U.S. and 3 states of Canada. © Northeast Climate Adaptation Science Center, 03/11/2019. <https://casc.usgs.gov/content/new-research-explores-effects-climate-change-deer-moose-populations-midwest>

President Proposes \$983 Million FY20 Budget for USGS

- Budget Focuses on Priorities Supporting American Energy Enterprise, National Security, and Natural Hazard Response Efforts. © USGS, 03/11/2019. <https://www.usgs.gov/news/president-proposes-983-million-fy20-budget-usgs>

Yurok Chairman Testifying to Congress This Afternoon About Climate Change Impacts

- Today, Yurok Chairman Joseph L. James is back in Washington DC to deliver testimony on how the Yurok Tribe can work with Congress to address climate change threats to the Yurok people and the Klamath River Basin. © Redheaded Blackbelt, 03/06/2019. <https://kymkemp.com/2019/03/06/yurok-chairman-testifying-now-to-congress-about-climate-change-impacts/>

Resources

Report Outlines Growing Climate Change-Related Threats to Great Lakes Region

- A team of Midwestern climate scientists has released a new report with grim predictions about the impact of climate change on the Great Lakes region. The report foresees a growing trend of wetter winters and springs, with increases in heavy rain events leading to flooding, particularly in urban areas with hard surfaces that cannot absorb the excess water. Rural areas will likely see more erosion, and unpredictable cycles of heat and rainfall could undermine agriculture. © University of Illinois News Bureau, 03/22/2019. <http://elpc.org/gclimatechange/>

Sustainable Climate Change Adaptation in Indian Country

- Much of the academic literature and policy discussions about sustainable development and climate change adaptation focus on poor and developing nations, yet many tribal communities inside the United States include marginalized peoples and developing nations who face structural barriers to effectively adapt to climate change. There is a need to critically examine diverse climate change risks for indigenous peoples in the United States and the many structural barriers that limit their ability to adapt to climate change. This paper uses a sustainable climate adaptation framework to outline the context and the relationships of power and authority, along with different ways of knowing and meaning, to illustrate the underpinnings of some tribes' barriers to sustainable climate adaptation.

Vulnerabilities of Navajo Nation Forests to Climate Change

- This is the final report to the Navajo Nation and Bureau of Indian Affairs Tribal Resilience Program. This report derives from a collaborative, multi-faceted effort to identify and describe the vulnerabilities of Navajo forests to climate change. By providing place-based ecological data, this report can aid in developing priorities for forest management. Through the implementation of adaptive, science-based management, the Navajo forests can become more resilient to the effects of climate change. Final report to the Navajo Nation and Bureau of Indian Affairs Tribal Resilience Program. © Bureau of Indian Affairs Tribal Resilience Program, 2019. https://chquiterman.github.io/Nav_report/index.html

Climate Change & Tribes: Exploring Current Impacts and Future Predictions for America's First People

- Imagine a world where one Arctic summer per decade is too warm to support the sea ice that helps maintain our global ecosystem and environment, directly impacting the people and animals of these far north communities. A world where coral reefs, once bustling with the rich diversity of sea life, have all but completely disappeared from the oceans. A world where mass global migration from tropical areas leads to a drastic population increases in cooler parts of the world. A new report, released in October 2018 by the Intergovernmental Panel on Climate Change (IPCC), predicts that this barren world will be reality if global temperatures continue rising by just 2°C (3.6°F), compared to temperatures from pre-industrial times. © National Indian Health Board, 2019. <https://myemail.constantcontact.com/Tribes-and-Climate-Change.html?soid=1110714960954&aid=gk52NDEJTP4>

Educational and Youth Engagement Opportunities

Pathways Internship Program

- ❖ The Pathways Internship Program is designed to attract, recruit, hire develop and retain American Indian/Alaskan Native students for science, technical, engineering, mathematics (STEM) career fields. The Intern's role is crucial to the various missions of the Department, BIA and the Tribes, in all efforts to provide sound stewardship of natural and cultural resources. Starting **March 6 through April 5, 2018**, www.USAJOBS.gov will begin advertising [BIA Student Trainee Rangeland positions](#). The duty stations for the positions are located nationwide. Go directly to the job announcement at: <https://www.usajobs.gov/GetJob/ViewDetails/526519600>

The Doris Duke Conservation Scholars Program at the University of Washington

- ❖ The Doris Duke Conservation Scholars are a diverse, committed and creative community of young professionals from around the country who aim to change the face, practice and future of conservation. We support emerging conservation scholars in developing innovative perspectives and skills by providing opportunities to strengthen connections between conservation, identities, and environmental justice. We are looking for 20 undergraduates with a strong interest in conservation, with an emphasis on students from underrepresented groups in the conservation field or who reflect cross-cultural perspectives. To apply and more information visit: <http://uwconservationscholars.org/>

Climate Academy

- ❖ Natural resource and conversation professionals are tasked with understanding climate change impacts and using this knowledge in making decisions. This 8 week online course is designed to cover the fundamentals of climate science, provide an overview of tools and resources for climate adaptation, and increase climate literacy and communication skills. The course is designed to encourage networking among conservation professionals engaged in the management of fish, wildlife, habitat and cultural resources and provides participants an opportunity to interact with experts as they address case studies across multiple habitat types. For more information visit: <https://nctc.fws.gov/nctcweb/catalog/CourseDetail.aspx?CourseCodeLong=FWS-ALC3193>

Graduate Student Recruitment: Climate Adaptation and Resilience Research Group at the Voinovich School of Leadership and Public Affairs

- ❖ The Climate Adaptation and Resilience Research Group at the Voinovich School of Leadership and Public Affairs, Ohio University is seeking applicants for the 2019 academic year for fully funded MS degrees in Environmental Studies. Students should be able to identify research interests in one of three topical areas: Local Climate Change Policy (LCCP), Native Waters on Arid Lands (NWAL), and Resiliency Training for Professionals. Positions are competitive and applications will go through the graduate school application process. Students with backgrounds in empirical social sciences are preferred, community level and regional collaborative governance around climate adaption and resiliency. Research examines organizational motivation for collaboration on climate issues, factors

leading to implementation of climate adaptation efforts, the evolution of networked governance systems, and assessing knowledge gaps in resiliency training. Please direct questions to Associate Professor Derek Kauneckis, kaunecki@ohio.edu. For more information about the three topical areas please visit <https://www.linkedin.com/feed/update/urn:li:activity:6466757269202751488> or <https://twitter.com/DerekKauneckis/status/1060992842154291201>

Paid Summer Research Program

- ❖ PathwaysToScience.org has a searchable database of 650+ summer research programs in all STEM disciplines. These are all FULLY FUNDED opportunities including programs sponsored by NSF, NASA, NIH, etc. <https://pathwaystoscience.org/Undergrads.aspx>. If you are considering graduate school, search 250+ FULLY FUNDED graduate programs in a variety of disciplines, and view resources on applying: <https://pathwaystoscience.org/Grad.aspx>. If you need help finding a program that's a good fit, please feel free to email ldetrick@ibparticipation.org for assistance. You can also follow us on Facebook for program deadlines and updates.

Other Items of Interest

Call for Nominations: Natural Resource Climate Adaptation Leadership Awards

- ❖ The Climate Adaptation Leadership Awards for Natural Resources is seeking nominations for 2019! The Award recognizes the outstanding and exemplary leadership by individuals, agencies, businesses, students, and youth to reduce effects and advance adaptation of the Nation's vital natural resources in a changing world. **Nominations will be accepted until May 18th.** Individuals, groups, organizations, and government agencies are eligible to apply. Up to eight Awards will be announced in September during the AFWA Annual Meeting in Saint Paul, Minnesota. <https://www.wildlifeadaptationstrategy.gov/award.php>

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/>

NIHB Community Changemaker Grants for Native Youth-led Health Projects

- Applications accepted until funding is gone! **Apply ASAP.** AI/AN youth ages 14-24 years old are eligible to apply for NIHB's Community Changemaker Grants. These are small amounts of money (\$250) that can help supercharge a **YOUTH-led** and **YOUTH-planned** health event. For more information visit: https://www.nihb.org/for_youth/changemaker_grants.php

Call for Request for Proposals: Exploring Scenario Planning with Tribes in the Colorado River Basin

- The Sonoran Institute and the Babbitt Center for Land and Water Policy are seeking tribal communities in the Colorado River Basin that are interested in using exploratory scenario planning to assist in a planning or decision-making process that engages multiple stakeholders around water resource issues. **Deadline for applications is April 5, 2019 by 5p.m.** If you have questions regarding the application process, please contact Sonoran Institute at 602-466-3031 or bruiz@sonoraninstitute.org.

Wildlife Conservation Society Climate Adaptation Fund RFP

- This funding opportunity aims to fund one to two-year projects that implement science-driven, on-the-ground actions that assist wildlife and ecosystems to adapt to climate change at a landscape scale. Eligible applicants include U.S.-based non-profit conservation organizations with approved IRS 501 (c)(3) status, Organizations proposing adaptation projects within the 50 U.S. states and territories, and Organizations proposing adaptation projects in terrestrial, inland aquatic, or coastal aquatic systems. **Applications are due by April 5, 2019.** For more information and to apply, go to <https://www.wcsclimateadaptationfund.org/program-information>

The Network for Landscape Conservation Catalyst Fund

- The purpose of the Landscape Conservation Catalyst Fund is to accelerate the pace and effective practice of place-based, collaborative landscape conservation across the United States. The Fund seeks to build capacity and forward momentum in landscape conservation partnerships by supporting the key activities and collaborative processes that move partnerships forward. The Catalyst Fund is pleased to have a portion of the Fund dedicated to Indigenous-led partnerships that serve Indigenous communities working on landscape conservation. Applicants may request a one or two year grant of \$10,000-\$25,000. There is no requirement for matching funds. Projects that

are eligible include on and off-reservation work and tribally led initiatives. **Applications are due on April 26, 2019.** For more information visit: <http://landscapeconservation.org/catalyst-fund/>.

Energy Infrastructure Deployment on Tribal Lands

- DOE's Office of Indian Energy is soliciting applications from Indian Tribes, which include Alaska Native Regional Corporations and Village Corporations (hereafter referred collectively as "Indian Tribes"), Intertribal Organizations, and Tribal Energy Development Organizations to:
 - (1) install energy generating system(s) and/or energy efficiency measure(s) for Tribal Building(s) (Topic Area 1); or,
 - (2) deploy community-scale energy generating system(s) on Tribal Lands (Topic Area 2); or,
 - (3) install energy system(s) for autonomous operation (independent of the traditional centralized electric power grid) to power a single or multiple essential tribal facilities during emergency situations or for tribal community resilience (Topic Area 3). FOA#: DE-FOA-0002032. **Deadline for applications is May 1, 2019 by 5p.m. ET.** <https://eere-exchange.energy.gov/Default.aspx#Foald0ca7096c-6685-48e4-a080-ed4d35de836a>

Upcoming Events

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

April

Webinar: Tribal Health and Climate Change

April 1, 4pm ET. This webinar will describe the basics of climate change and how it is affecting Tribal communities. The webinar will also give a brief overview of NIH's Climate Ready Tribes Project, funded by the Centers for Disease Control and Promotion (CDC). Register [here](#).

Webinar: Co-Producing Tribal Resources for Climate Change Vulnerability Assessment

April 2, 11am PT. Sponsored by the Northwest Climate Adaptation Science Center. Tribes are actively engaged in efforts to anticipate and respond to climate impacts on tribal natural and cultural resources. And yet, some tribes have faced difficulties initiating and completing the critical first step of the climate adaptation planning process: an assessment of locally-specific climate risks that accounts for the unique priorities, values, and concerns of individual tribes. The University of Washington Climate Impacts Group worked in close collaboration with tribal partners to develop a suite of resources aimed at building the capacity of Northwest and Great Basin tribes to evaluate climate risks to natural and cultural resources.

This webinar will describe the collaborative process employed by project partners to ensure these resources would be useful and used by tribes. It will also describe efforts to observe best practices in partnering with tribes. This webinar is designed to offer useful practices and lessons learned to inform similar climate adaptation efforts with tribes and other communities. To register visit:

https://washington.zoom.us/webinar/register/WN_cr0707l_RXqTY0TiX1Zb_Q

Webinar: Climate Adaptation Science for Coastal Habitats, Species, and Ecosystems

April 3, 12pm ET. In this talk, NE CASC Science Coordinator Michelle Staudinger, will present a compilation information to help to develop a more comprehensive understanding of how coastal ecosystems will respond to climate change and how land and resource management decisions could potentially help these systems. As the effects of climate change on ecological and human communities grow, the possibility of crossing tipping points or thresholds of viability increases the potential for rapid and possibly irreversible changes in ecosystems. This talk synthesizes information from NE CASC projects Critical thresholds and ecosystem services for coastal ecological and human climate adaptation and Ecological and management implications of climate change induced shifts in phenology of coastal fish and wildlife species in the NE CASC region. To join, visit:

<https://necsc.umass.edu/webinars/climate-adaptation-science-coastal-habitats-species-and-ecosystems>

Webinar: Introductory Webinar: Using Earth Observations to Monitor Water Budgets for River Basin Management

April 3, 1:00 pm PT. Session 4: Using Earth Observations to Monitor Water Budgets for River Basin Management. Rivers are a major source of freshwater. They support aquatic and terrestrial ecosystems, provide transportation, and generate hydropower. Managing river basin watersheds is critical for developing policies for sustainable water allocation and development. Over the course of four sessions, this introductory webinar series will address using satellite data and Earth system modeling data sources to estimate surface water budgets. The final session will include a review of remote sensing data sources for surface water budget components, and run through estimating a water budget of a watershed using remote sensing components. To register visit:

<https://register.gotowebinar.com/register/4773589502102480898>

Webinar: Timing is Everything: Customizing Phenological Information for Invasive Species Management
April 9, 1pm ET. To join, visit: <https://umass-amherst.zoom.us/j/579420555>

Conference: Great Plains Tribal Water Alliance

April 9-10, Rapid City, SD. The Great Plains Tribal Water Alliance (GPTWA) is committed to ensuring clean and abundant water for the people of the Great Sioux Nation now and for generations to come. The protection of water resources is becoming increasingly complex. For more information and to register visit: <https://www.tribalwateralliance.org/>

Listening Session: Tribal Representatives to Participate in Environmental Health Listening Sessions

April 10, 1:30pm MT, Rapid City, SD. To help elevate Indigenous knowledge and the expertise of Tribal leaders in addressing environmental concerns, the National Indian Health Board is working in partnership with the Centers for Disease Control and Prevention to convene listening sessions where we will discuss environmental health concerns in Tribal Nations and innovative ways Tribes are addressing these concerns. The information shared during these sessions will inform the development of national program and policies. These are in-person listening sessions only. If you would like to join listening session or if you have any questions, please contact Stephen Valliere, National Indian Health Board Project Coordinator at SValliere@nihb.org or 202-507-4082. To be held at 2019 Spring Water Conference, Great Plains Tribal Water Alliance, Best Western Ramkota Hotel.

Conference: 2019 Western South Dakota Hydrology Conference

April 11, Rapid City, SD. For more information and to register visit: https://www.usgs.gov/centers/dakota-water/science/western-south-dakota-hydrology-conference?qt-science_center_objects=0#qt-science_center_objects

Listening Session: Tribal Representatives to Participate in Environmental Health Listening Sessions

April 17, 4pm MT, Anacortes, WA. To help elevate Indigenous knowledge and the expertise of Tribal leaders in addressing environmental concerns, the National Indian Health Board is working in partnership with the Centers for Disease Control and Prevention to convene listening sessions where we will discuss environmental health concerns in Tribal Nations and innovative ways Tribes are addressing these concerns. The information shared during these sessions will inform the development of national program and policies. These are in-person listening sessions only. If you would like to join listening session or if you have any questions, please contact Stephen Valliere, National Indian Health Board Project Coordinator at SValliere@nihb.org or 202-507-4082. To be held at Quarterly BOD Meeting, Northwest Portland Area Indian Health Board Swinomish Casino and Lodge.

Webinar: CDC's Climate and Health Program: Public Outreach and Dissemination

April 18, 1pm ET. Join CDC's Climate and Health Program for a webinar on Public Outreach and Dissemination. Led by climate communication specialist Rob Gould, who helped developed the What We Know website for the American Association for the Advancement of Science, this webinar will instruct health officials how to package information and work with the news media to disseminate climate and health messages. To register visit: https://zoom.us/webinar/register/WN_iLIS8Ss_RX2dBXSuEoSUKg

Webinar: Indigenous Practices Contribute to Carbon Management and Climate Adaptation

April 23, 9am PT. Webinar hosted by NOAA in the Series, "From Science to Solutions: The State of the Carbon Cycle (SOCCR2) Seminar Series". To join the session, go to <https://noaabroadcast.adobeconnect.com/nossscienceseminars/>, enter as "Guest", and please enter your first and last name.

Conference: National Adaptation Forum

April 23-25, Madison, WI. The National Adaptation Forum is excited to gather adaptation practitioners. Attendees will learn how to make their work climate-informed, share what they learned with others, and develop a stronger network of like-minded peers. Those who attend will benefit from exposure to all aspects of the field, professional development, and information sharing through an innovative and comprehensive program featuring plenary sessions, symposia, working groups, training sessions, exhibit booths, poster sessions, and networking events. For more information and to register, go to <https://www.nationaladaptationforum.org/registration>

May

Webinar: Mapping Climate Change Refugia for Vernal Pools

May 1, 12pm ET. This talk will provide a preliminary assessment of the resistance of particular vernal pools to changes in climate. Vernal pools are small, seasonal wetlands that provide critically important seasonal habitat for many amphibian species of conservation concern. Natural resource managers and scientists in the Northeast identified vernal pools as a priority ecosystem to study, and highlight climate change and disease as primary threats to key vernal pool ecosystems. The information is part of an ongoing NE CASC project Mapping Climate

Change Resistant Vernal Pools in the Northeastern U.S. To join, visit: <https://necsc.umass.edu/webinars/mapping-climate-change-refugia-vernal-pools>

Conference: Living Breath of Indigenous Foods and Ecological Knowledge

May 3-4, Seattle, WA. This symposium brings people together to share knowledge on topics such as traditional foods, plants and medicines; environmental and food justice; food sovereignty; health and wellness; and treaty rights. Indigenous peoples in the Northwest have maintained a sustainable way of life through a cultural, spiritual, and reciprocal relationship with their environment. This symposium serves to foster dialogue and build collaborative networks as we, Native peoples, strive to sustain our cultural food practices and preserve our healthy relationships to the land, water, and all living things. For more information and to register visit: <http://www.livingbreathsymposium.org/>

Conference: 20th Annual National Tribal Forum on Air Quality

May 6-9, Temecula, CA. The NTF provides environmental professionals from tribes, EPA, and other organizations an opportunity to meet and discuss current policies, regulatory initiatives, technical and other relevant topics in air quality & climate change. There will be optional training sessions on Monday 5/6/2019. Online Registration is open. There is also scholarship support for tribal attendees and sponsorship opportunities available. To check for updates, go to: http://www7.nau.edu/itep/main/Conferences/confr_ntf

Workshop: Climate Training Workshop for Tribes

May 9-10, Ada, OK. For more information on registration or the training workshop, contact April Taylor at: april.taylor@chickasaw.net.

Summit: National Tribal Public Health Summit

May 13-15, Albuquerque, NM. This year's Summit will feature dynamic national speakers, interactive workshops and roundtable discussions, a welcome reception, the annual Special Diabetes Program for Indians poster session, a morning fitness event, culture night, as well as the presentation of the 2019 Native Public Health Innovation awards! Summit Tracks include: Health Promotion and Disease Prevention; Public Health Policy, Infrastructure and Systems; Substance Misuse and Behavioral Health; Environmental Health and Climate Change; and Emergency Preparedness and Emerging Issues in Public Health. For more information visit: <https://web.cvent.com/event/11bb90a9-a689-4fa6-83e3-b525561587f8/summary>. To register, visit <https://web.cvent.com/event/11bb90a9-a689-4fa6-83e3-b525561587f8/regProcessStep1>.

Workshop: 7th Annual Rising Voices Workshop: Converging Voices: Building Relationships and Practices for Intercultural Science

May 15-17, Boulder, CO. Rising Voices facilitates intercultural approaches for understanding and adapting to extreme weather and climate events, variability, and change. It is a vibrant network of Indigenous and Western scientific professionals, tribal and community leaders, environmental and communication experts, students, educators, and artists from across the US and around the world. At its core, Rising Voices aims to advance science through collaborations that bring Indigenous and Earth (atmospheric, social, biological, ecological) sciences into partnership, supports adaptive and resilient communities through sharing scientific capacity, and provides opportunities for Indigenous students and early career scientists through scientific and community mentoring. Registration is open at <https://www.regonline.com/registration/Checkin.aspx?EventID=2551286>

Conference: National Native American Fish and Wildlife Society

May 20-24, Chandler, AZ. The conference is an opportunity for tribal natural resource managers, technicians, conservation law officers, government agencies, and many others, to receive training, network, share information, and discuss current technical information and legislative initiatives. A climate change pre-session will be held on Monday, May 20. For more information and to register visit: <https://nafws.org/events/national-conference>

Webinar: CDC's Climate and Health Program: Creative Material Development

May 30, 1pm ET. Join CDC's Climate and Health Program for a webinar on Creative Material Development. Led by Karen Ong, Creative Director for Marketing for Change, this webinar will show how visual and content cues can be used to convey key messages quickly in a cluttered media environment. For registration go to: https://zoom.us/webinar/register/WN_WHULyD1OQFG2rdE-LZ8avw

June

Training: Introduction to Climate Change Adaptation Planning Training

June 4-6, Las Cruces, NM. This course provides an introduction to planning for climate change impacts, with examples of tribes that have been going through the adaptation planning process. The course is intended for tribal environmental and natural resource professionals who expect to be involved in climate change adaptation planning. Since the course will focus on climate change impacts in the region, we especially encourage people

from the region to attend. Others are welcome to attend but should realize that that there will be a focus on that region. To register visit: <http://www7.nau.edu/itep/main/tcc/Training/Trainings>

2019 Tribal Climate Camp

June 16-21, Polson, MT. TCC is organized through a collaboration of Tribal and Non-tribal partners. The Affiliated Tribes of Northwest Indians (ATNI), Institute for Tribal Government (ITG) United South and Eastern Tribes (USET), and the Department of the Interior's (USDI) Northwest Climate Science Center (NW CSC) and Bureau of Indian Affairs (BIA) are collaborating to offer The Tribal Climate Camp (TTCC) to support teams of tribal leaders, climate change coordinators, planners, and program managers to build skills, gather information, and develop tribal policy needed to address climate change impacts. DELEGATE COSTS: The only expense required of the attending delegates is their transportation to and from the camp; all other expenses including food, lodging, local transportation, curriculum, etc. will be provided by ATNI. If interested in attending, please complete and submit an enquiry form by March 1, 2019 online at <http://atnitribes.org/climatechange/tribal-climate-camp/>. For more information or questions please contact: Don Sampson, Don@seventhgenerationllc.com, 541-215-2753 or Peggy Harris, Peggy@seventhgenerationllc.com, 541-215-2919.

Conference: At What Point Managed Retreat? Resilience Building in the Coastal Zone

June 19-21, New York, NY. Organized by the Climate Adaptation Initiative at Columbia University's Earth Institute, this conference will address a range of issues facing coastal communities in the United States and around the world as sea levels rise and coastal flooding becomes more frequent and intense. The science around retreat is still ill-defined, and policy discussions remain contentious. This conference will bring together thought leaders on this topic to advance the science and policy dialogue. Specifically, the conference is intended to be of interest to academics, planners, practitioners, and industry representatives from sectors such as real estate and insurance. Abstracts are welcome from researchers and those involved in policy, planning, or corporate foresight activities. While the primary focus is expected to be on coastal issues, we anticipate additional talks/sessions focused on additional hazards facing diverse regions, such as drought/fire, heat stress, and inland flooding. For more information visit: <http://adaptation.ei.columbia.edu/conference/at-what-point-managed-retreat-conference/>

Webinar: CDC's Climate and Health Program: Ally Acquisition

June 20, 1pm ET. How can public health officials effectively reach across sectors to talk about the health impacts of a changing climate? Join CDC's Climate and Health Program for a webinar on Ally Acquisition. Experts from the behavior change agency Marketing for Change will show how health officials can identify new ways to frame key messages to increase the relevance to audiences outside public health circles. To register for this to go: https://zoom.us/webinar/register/WN_J42jv9tKSLaSRauuTBsQ_g

Forum: 14th Annual Tribal Leader/Scholar Forum

June 23-26, Reno NV. The NCAI Policy Research Center's Tribal Leader/Scholar Forum provides an opportunity for researchers, practitioners, community members, and others to present their findings to tribal leaders, policymakers, and tribal members during NCAI's Mid Year Conference. For more information visit: <http://www.ncai.org/policy-research-center/initiatives/tribal-leader-scholar-forum>.

July

Youth: Native Youth Community Adaptation and Leadership Congress

July 7-13, Shepherdstown, WV. Join students from across the country to discuss community adaptation and related environmental issues impacting Native peoples. The mission of the Native Youth Community Adaptation and Leadership Congress (NYCALC) is to develop future conservation leaders with the skills, knowledge, and tools to address environmental change and conservation challenges to better serve their schools and home communities. For more information visit: https://docs.google.com/forms/d/1Cq_W4Z16PlzP-PIUil4-Mlo8_isxTBUzYg7gal81qwo/viewform?edit_requested=true

Webinar: CDC's Climate and Health Programs: Communication Data for Maximum Impact

July 18, 1pm ET. Join CDC's Climate and Health Program for a webinar on Communicating Data for Maximum Impact. Experts from behavior change agency Marketing for Change will show how health officials can gather and present data points to tell a more powerful story in press releases and policy briefs. For registration go to: https://zoom.us/webinar/register/WN_qe8MZcjrT-6Jf4_y117ePq

Summit: 2019 Tribes and First Nations Climate Change Summit

July 30-31, Airway Heights, WA. This summit will convene leaders from Tribes and First Nations throughout the Pacific Northwest and North America to advance tribal climate change policy and action. The summit will focus on topics such as tribal climate change resiliency, protecting and applying Traditional Knowledges in climate change initiatives, and implementing a unified tribal climate change policy agenda. More information coming soon.

August

Summit: 2019 Southwestern Tribal Climate Change Summit (SWTCCS)

August 13-16, Idyllwild Arts Academy, CA. The 2019 Southwestern Tribal Climate Change Summit (SWTCCS) provides an opportunity to come together, focus on climate strategies and solutions, and advance Tribal resilience efforts throughout the Southwest and North America. This 2019 Summit will be an interactive leadership-style retreat with small group breakout sessions, plenary style presentations on Tribal case studies, and a powerful climate training opportunity for student ambassadors. The summit is a cooperative endeavor co-sponsored by the La Jolla Band of Luiseno Indians, Climate Science Alliance (CSA), the Pala Band of Mission Indians and The Institute for Tribal Environmental Professionals (ITEP), and made possible by support and funding from the U.S. Bureau of Indian Affairs (BIA) Tribal Resilience Program. Pre-Applications are due March 31, 2019. For more information, visit: http://www7.nau.edu/itep/main/tcc/Training/confr_stccs

Forum: Tribal Lands and Environment Forum

August 19-22, Palm Springs, CA. This year's TLEF will feature special trainings, field trips, and breakout sessions focused on the conference theme: *A National Conversation on Tribal Land and Water Resources*. Topics highlighted at the TLEF 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. Plenty of networking opportunities will also be offered, making this a terrific event for tribal professionals, federal staff, nonprofit and industry personnel, and students of environmental sciences and Native American Studies, to connect with their colleagues who are also protecting the environment and their communities. For more information visit: http://www7.nau.edu/itep/main/Conferences/confr_tlef

Conference: 6th Annual National Joint Tribal Emergency Management Conference

August 21-23, Green Bay, WI. Please consider joining us this coming year for the largest gathering of Native American emergency managers and homeland security personnel in the Country as we travel to the Oneida Nation in Wisconsin! If you have been waiting to work more closely with Tribal Country, then this is the conference for you! This year we celebrate the 6th Anniversary of the National Tribal Emergency Management Council. In addition, our partner organizations will be joining us in raising greater awareness to our Tribal Emergency Management programs, while increasing even further information sharing across the country. For more information and to register visit <http://ntemc.org/> and click on "Registration is now Open: Click Here!!!"

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