



*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**

**February 2019**



*South Thompson River  
Chase, BC*

Weytpk!

We hope everyone is doing well and keeping warm. Northern Arizona received two feet of snow!

We'd like to express our sincerest gratitude to the speakers and listeners who have joined us over the past year. We hit a record for one webinar of 241 registered listeners who joined us for the NCA4 webinar! If there are additional topics to consider please do share them with us, we'd be happy to hear them.

Our next webinar will be on March 7<sup>th</sup> – Tribal Emergency Management in the Face of Climate Change. Registration for this webinar is open and can be found at: [http://www7.nau.edu/itep/main/tcc/Training/Webinars\\_Schedule](http://www7.nau.edu/itep/main/tcc/Training/Webinars_Schedule). We hope you can join us!

We also would like to extend a "Congratulations!" to Oscarville Traditional Village for their recent completion of their "Pektayiinata = We are Resilient: Oscarville Tribal Climate Adaptation Plan document: [Click here to access](#). This document has been included to the [Adaptation Planning Tool Kit](#).

We have been busy working in teaming up with many of our friends and partners to organize tribal climate change sessions at several conferences this year. We hope to see you at one of the many scheduled events such as the Rising Voices conference, the National Adaptation Forum, the National Tribal Forum on Air Quality and the Tribal Lands and Environment Forum to name a few. Remember to register and make lodging reservations as deadlines to do so are fast approaching.

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

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

#### About Us:

*Leanna Begay*  
Program Coordinator  
[Leanna.Begay@nau.edu](mailto:Leanna.Begay@nau.edu)

*Nikki Cooley*  
Co-Program Manager  
[Nikki.Cooley@nau.edu](mailto:Nikki.Cooley@nau.edu)

*Karen Cozzetto*  
Co-Program Manager  
[Karen.Cozzetto@nau.edu](mailto:Karen.Cozzetto@nau.edu)

*Colleen Davis*  
Administrative Assistant  
[Colleen.Davis@nau.edu](mailto:Colleen.Davis@nau.edu)

*Bobbi Ann Cooley*  
Student Worker  
[bac372@nau.edu](mailto:bac372@nau.edu)

#### 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/)

## *In The News*

### **Science Fair Mixes Science with Indigenous Culture**

- The File Hills Qu'Appelle (FHQ) Tribal Council Science Fair mixes science with traditional Indigenous culture. © CTV News Regina, 02/27/2019. <https://regina.ctvnews.ca/science-fair-mixes-science-with-indigenous-culture-1.4315677>

### **Researcher Looks At Climate Change's Impact On Plains**

- Climate change already impacts the Northern Great Plains in major ways, a University of Nebraska researcher says. © Yankton Daily Press & Dakotan, 02/26/2019. [https://www.yankton.net/community/article\\_4d9197b2-3a48-11e9-a15f-7f796c4d9451.html](https://www.yankton.net/community/article_4d9197b2-3a48-11e9-a15f-7f796c4d9451.html)

### **Indigenous Knowledge, Key to a Successful Ecosystem Restoration**

- Ecological restoration projects actively involving indigenous peoples and local communities are more successful. A new study places value on indigenous and local knowledge contribution in the restoring of degraded ecosystems, and highlights the need to engage them in these projects for ensuring a long-term maintenance of restored areas. © Science News, 02/26/2019. <https://www.sciencedaily.com/releases/2019/02/190226112300.htm>

### **NASA and Navajo Nation Partner in Understanding the Universe**

- When you pick out the stars that make up the Big Dipper, do you see a cluster of glowing balls of plasma or a pattern of gemstones carefully arranged by holy figures? For students in the Navajo Nation, the answer may well be both. © Space.com, 02/26/2019. <https://www.space.com/nasa-partnership-with-navajo-nation.html>

### **European Colonizers Killed so Many Native Americans That it Changed the Global Climate, Researchers Say**

- When Europeans arrived in the Americas, they caused so much death and disease that it changed the global climate, a new study finds. © CNN, 02/02/2019. <https://www.cnn.com/2019/02/01/world/european-colonization-climate-change-trnd/index.html>

### **How to Think About the Costs of Climate Change**

- Many of the big economic questions in coming decades will come down to just how extreme the weather will be, and how to value the future versus the present. © The New York Times, 01/17/2019. <https://www.nytimes.com/2019/01/17/upshot/how-to-think-about-the-costs-of-climate-change.html>

### **First Native American Woman Elected to Washington State House Wears Traditional Regalia at Swearing-In**

- Washington State Rep. Debra Lekanoff (D), who is the first Native American woman to ever be elected to the state's House of Representatives, was sworn into office wearing traditional regalia this week. © The Hill, 01/15/2019. <https://thehill.com/homenews/state-watch/425526-first-native-american-woman-elected-to-washington-legislature-wears>

### **How Do People Know About Nature?**

- Western science and indigenous knowledge are often presented as conflicting. But there are areas where they converge. © Bay Nature, 01/15/2019. <https://baynature.org/2019/01/15/how-do-people-know-about-nature/>

### **Indigenous People to Have Say in UN Climate Policy**

- Indigenous peoples will have a chance to share their traditional knowledge on the environment and play a role in the implementation of the 2015 Paris Agreement to combat climate change and build a sustainable low carbon future. © SciDev, 01/15/2019. <https://www.scidev.net/asia-pacific/indigenous/news/indigenous-people-to-have-say-in-un-climate-policy.html>

### **In First, Native American Tribe Displaced by Sea Gets Land to Relocate**

- A small Native American tribe in Louisiana whose land has nearly vanished into the sea has moved a step closer to relocating its community further inland after authorities acquired new land for the move, part of a first-of-its-kind project. © Thomson Reuters Foundation News, 01/10/2019. <http://news.trust.org/item/20190110211137-oqwt/>

### **Something Old, Something New**

- The Green New Deal is touching up its (grass)roots. © Grist, 01/09/2019. <https://grist.org/article/heres-the-green-new-deal-debate-you-havent-heard-yet/>

### **NM Tree Die-Off Hits State, Tribal and Private Forest Land**

- The latest assessment of forests across New Mexico showed unexpectedly large areas of dead or dying trees. Aerial surveys conducted by the U.S. Forest Service in mid-2018 found trees died in New Mexico on about 120,000 acres largely because of bark beetles. © Public News, 01/08/2019. <https://www.publicnewsservice.org/2019-01-08/climate-change-air-quality/nm-tree-die-off-hits-state-tribal-and-private-forest-land/a65142-1>

#### **Soil Health: The Next Agricultural Revolution**

- By adopting three practices—no-till farming, cover crops and diverse crop rotations—farmers worldwide can help preserve the world's soils, feed a growing global population, mitigate climate change and protect the environment. © EcoWatch, 01/07/2019. <https://www.ecowatch.com/soil-health-as-the-next-agricultural-revolution-2625362894.html>

#### **There's A Lot At Stake In The Weekly U.S. Drought Map**

- Crippling drought this year has caused more than \$1 billion in damage. As it has played out, anyone affected by the drought or trying to manage it has turned to a once obscure map that has become key to understanding what's happening: the U.S. Drought Monitor. © KUNC, 01/02/2019. <https://www.kunc.org/post/theres-lot-stake-weekly-us-drought-map#stream/0>

#### **How Native American Diets Benefit From Tucson's Indigenous Seed Bank**

- Housed inside a welcoming midtown Tucson shop, the nonprofit Native Seeds/SEARCH works to preserve endangered or rare plants of the Sonora Desert region. To accomplish this the organization sources, stores, distributes and sells approximately 1,900 varieties of drought-tolerant, non-GMO (genetically modified organism) seed. © Foodtank.com, 01/2019. <https://foodtank.com/news/2019/01/tucson-nonprofit-preserves-indigenous-foods/>

#### **COP 24 in Katowice Concludes with a Historic Victory and some Disappointments for Indigenous Peoples in the International Fight to Halt Climate Change**

- It was close to midnight December 15, 2018, when the President's gavel came down for a final time, concluding two weeks of intense debate at the 24th Conference of the Parties of the United Nations Framework Convention on Climate Change (UNFCCC COP 24) in Katowice Poland. © Cultural Survival, 12/27/2018. <https://www.culturalsurvival.org/news/cop-24-katowice-concludes-historic-victory-and-some-disappointments-indigenous-peoples>

#### **How 12 Communities Are Fighting Climate Change and What's Standing in Their Way**

- They're using renewable energy, urban planning, their voices and the law to try to rein in climate change that's already in their front yards. © Inside Climate News, 12/26/2018. <https://insideclimatenews.org/news/26122018/climate-change-solutions-obstacles-2018-year-review-oil-lawsuits-clean-energy-urban-planning>

#### **Climate Change Will Hit State's Farmers, Tribes and Infrastructure**

- Oklahoma will experience an increase in extreme weather events, more days above 100 degrees and declining water access that will significantly challenge the state's agriculture industry, according to a new federal climate change report. © NewsOK.com, 11/28/2018. <https://newsok.com/article/5616226/climate-change-will-hit-states-farmers-tribes-and-infrastructure>

#### **To Share or Not To Share?**

- Tribes risk exploitation when sharing climate change solutions. © Grist, 11/21/2018. <https://grist.org/article/indigenous-knowledge-climate-change-solution/>

#### **Climate Change & Tribes**

- Exploring Current Impacts and Future Predictions for America's First People. © National Indian Health Board, 2019. <https://conta.cc/2FA1Pjt>

## ***Tribal Liaison in Focus: Althea Walker (Southwest)***

This month, we are pleased to feature our friend and colleague, Althea Walker as our tribal climate/resilience liaison in focus. Read on to learn more about Althea and she can help you.



### **What motivated you to apply for and accept the position of tribal resilience/climate liaison?**

I applied for this position because I wanted to serve multiple tribal communities, all while further expanding my knowledge and experience around Indigenous populations and climate change. This opportunity has covered all of that and so much more and I am truly thankful and excited to be able to serve in this capacity.

### **How can tribes use the services and knowledge of the liaisons?**

As a free resource to the tribes, I serve as an important resource to tribal nations and tribal colleges and universities (TCUs) within the Southwest Climate Adaptation Science Center (SW CASC) service area (Arizona, California, Nevada, and Utah) by providing information, technical assistance, and access to subject matter experts necessary to support local climate resilience research, planning, and implementation efforts. The SW CASC is a collaborative partnership between USGS and a consortium of seven academic institutions from across the region, in which I can connect tribes and TCUs with subject matter experts from the following institutions, but not limited to:

- University of Arizona (Host Institution)
- Colorado State University
- Desert Research Institute
- Scripps Institution of Oceanography at UC San Diego
- University of California, Davis
- University of California, Los Angeles
- Utah State University

### **How can tribes use the services and knowledge of the liaisons?**

As the SW CASC/AIHEC Tribal Climate Adaptation Science Liaison, the most interesting and memorable place I've visited so far was Scandinavia. I flew into Sweden, then over to Norway, and drove from Kirkenes, Norway down to Tornio, Finland. I was asked to represent the US Southwest at the Northern Fishing Traditions Festival in Tornio, Finland, where I was on a mission to bring together Indigenous peoples from the US Southwest and Arctic. I engaged with Indigenous delegates from around the world, including Western Siberia, Greenland, British Columbia, and New Zealand regarding cultural heritage, climate change, ecological restoration, and issues related to traditional foods. The most influential part of this journey was the opportunity to spend time with the Sami, the Indigenous people from Finland, Russia, and Sweden, in which they shared their culture, struggles, food, and prayers with me. I am truly thankful for this opportunity to represent the US Southwest, to bring together Indigenous peoples of the US Southwest and Arctic, and I look forward to the journey ahead as the SW CASC/AIHEC Tribal Climate Adaptation Science Liaison.

**Contact Althea:** [Awalker@aihec.org](mailto:Awalker@aihec.org)

## Resources

### **Pektayiinata = We are Resilient: Oscarville Tribal Climate Adaptation Plan**

- With more frequent and unpredictable weather patterns, the people of Oscarville are having to rethink adaptation and how to respond to a rapidly changing environment. This report utilizes the traditional wisdom of the Yup'ik people and infuses the Western science and research into a new space for value-based decision making for adaptation. © Oscarville Traditional Council, 02/2019. [https://anthc.org/wp-content/uploads/2019/02/4-Oscarville-Adaptation-Plan\\_1-31-19\\_Screen-resolution.pdf](https://anthc.org/wp-content/uploads/2019/02/4-Oscarville-Adaptation-Plan_1-31-19_Screen-resolution.pdf)

### **Building Cultures of Preparedness: Report for the Emergency Management Higher Education Community**

- This report highlights the vast diversity of American communities and households, indicating that a one-size-fits-all strategy is not well-suited to the specific demands of variable and distinctive environments – our Culture of Preparedness will have to be built one community at a time. Preparedness is a local matter, requiring solutions tailored to different cultural contexts and embraced by communities. Supporting the vision of a resilient nation in the Strategic Plan requires us to think in the plural, in terms of building “Culture(s) of Preparedness.” This report presents a culture-based approach to the preparedness goals laid out in the Strategic Plan. It lays out four Guiding Principles for building Cultures of Preparedness, followed by practical strategies and examples that demonstrate successful outcomes in real-world settings, and offers a distinct approach to operationalize the Guiding Principles. © U.S. Federal Emergency Management Agency, 01/2019. [https://training.fema.gov/hiedu/docs/latest/2019\\_cultures\\_of\\_preparedness\\_report\\_10.22.18%20final.pdf](https://training.fema.gov/hiedu/docs/latest/2019_cultures_of_preparedness_report_10.22.18%20final.pdf)

### **A Global Assessment of Indigenous Community Engagement in Climate Research**

- For millennia Indigenous communities worldwide have maintained diverse knowledge systems informed through careful observation of dynamics of environmental changes. Although Indigenous communities and their knowledge systems are recognized as critical resources for understanding and adapting to climate change, no comprehensive, evidence-based analysis has been conducted into how environmental studies engage Indigenous communities. Here we provide the first global systematic review of levels of Indigenous community participation and decision-making in all stages of the research process (initiation, design, implementation, analysis, dissemination) in climate field studies that access Indigenous knowledge. © IOP Science, 12/13/2018. [http://iopscience.iop.org/article/10.1088/1748-9326/aaf300?fbclid=IwAR2AOLxmPX4L0tEC4ouq3SziKlptqS3IzVhLPgEuiWm\\_3ThyazSsNIFreto](http://iopscience.iop.org/article/10.1088/1748-9326/aaf300?fbclid=IwAR2AOLxmPX4L0tEC4ouq3SziKlptqS3IzVhLPgEuiWm_3ThyazSsNIFreto)

### **CAP Showcases Climate Adaptation Plan at Colorado River Water Users Association Conference**

- This year's Colorado River Water Users Association (CRWUA) conference includes a panel on climate adaptation. This is a very apropos topic considering the conference theme -- “No Shortage of Concern: Beyond the Shadow of Drought.” © Central Arizona Project, 12/12/2018. <http://www.cap-az.com/public/blog/887-cap-showcases-climate-adaptation-plan-at-colorado-river-water-users-association-conference>

### **Respecting Our Science and Ways of Knowing: Indigenous Peoples Food Sovereignty, Traditional Lifeways and Climate Change**

- On August 24-26, 2018, more than 60 Indigenous community members and experts gathered to discuss climate change, traditional knowledge, and food sovereignty in Ixtlán de Juárez, Oaxaca, Mexico, at a convening organized by Cultural Survival and the International Indian Treaty Council, “Respecting Our Traditional Science and Ways of Knowing: Indigenous Peoples’ Sovereignty, Lifeways, and Climate Change.” © Cultural Survival, 09/06/2018. <https://www.culturalsurvival.org/news/respecting-our-science-and-ways-knowing-indigenous-peoples-food-sovereignty-traditional>

### **Making Climate Assessments Work: Learning from California and Other Subnational Climate Assessments: Proceedings of a Workshop**

- Climate assessment activities are increasingly driven by subnational organizations—city, county, and state governments; utilities and private companies; and stakeholder groups and engaged publics—trying to better serve their constituents, customers, and members by understanding and preparing for how climate change will impact them locally. Whether the threats are drought and wildfires, storm surge and sea level rise, or heat waves and urban heat islands, the warming climate is affecting people and communities across the country. To explore the growing role of subnational climate assessments and action, the National Academies of Sciences, Engineering, and Medicine hosted the 2-day workshop on August 14-15, 2018. This publication summarizes the presentations and discussions from the workshop. © National Academies of Sciences, Engineering, and Medicine, 2019. <https://www.nap.edu/catalog/25324/making-climate-assessments-work-learning-from-california-and-other-subnational>

### **The State of Tribal Data Capacity in Indian Country: Key Findings from the Survey of Tribal Data Practices**

- Many tribes now are interested in conducting their own surveys and censuses for local planning and governance. In order to better understand the landscape of individual tribal data practices across Indian Country, NCAI conducted a Tribal Data Practices Survey (TDPS). The overall objective of the TDPS was to assess current tribal data capacity and future needs. The TDPS sought to understand: 1) the types of data or information tribes currently use; 2) how tribes access, collect, manage, and report these data; and 3) what types of data tribes need. This report includes the methods and key findings from the TDPS. View Webinar presentation by Desi Rodriguez-Lonebear at: <https://www.youtube.com/watch?v=4YLqm9psGas&t=3s>. © National Congress of American Indians, 1/16/2019.

## ***Educational and Youth Engagement Opportunities***

### **The Doris Duke Conservation Scholars Program: 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>

### **Climate Challenge: Youth Ambassadors @ the 2019 Southwest Tribal Climate Change Summit**

- ❖ August 13 – 16, Idyllwild Arts Academy, Idyllwild, CA. In association with the [2019 Southwestern Tribal Climate Change Summit](#), students are invited to participate in The Climate Challenge. This immersive experience connects youth ambassadors to scientists, managers, and artists at the Summit and challenges them to investigate the climate impacts in their communities. Students will work in teams to develop climate strategies and solutions relevant to their sphere of influence and develop action plans to implement them. The Climate Challenge serves to inspire and activate youth ambassadors to come together and make a difference in their community. Visit website for more info or to register: [http://www7.nau.edu/itep/main/tcc/Training/confr\\_stccs](http://www7.nau.edu/itep/main/tcc/Training/confr_stccs)

### **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](mailto:kaunecki@ohio.edu). For more information about the three topical areas please visit [Linkedin](#) or at [Twitter](#).

### **Native Youth Community Adaptation & Leadership Congress (NYCALC)**

- ❖ July 07 – 13, 2019. Join students from across the country to discuss community adaptation and related environmental issues impacting Native peoples. The mission of 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. More info @ [https://docs.google.com/forms/d/1Cq\\_W4Z16PlzP-PIUil4-Mlo8\\_isxTBUzYg7gal81gwo/viewform?edit\\_requested=true](https://docs.google.com/forms/d/1Cq_W4Z16PlzP-PIUil4-Mlo8_isxTBUzYg7gal81gwo/viewform?edit_requested=true). **Application Deadline: March 29, 2019.**

### **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](mailto:ldetrick@ibparticipation.org) for assistance. You can also follow us on Facebook for program deadlines and updates.

## *Other Items of Interest*

### **Internship: University of Oklahoma, Summer 2019 Mellon Foundation Curatorial Internship in Native American Art**

- ❖ The Mellon Foundation Native American Curatorial Internship seeks to foster increased representation of Native Americans working the curatorial field and to increase scholarship and research on Native collections at the Fred Jones Jr. Museum of Art. The FJMA is now accepting applications for summer and fall Mellon Foundation curatorial internships. These competitive internships provide practical experience for students pursuing careers in Native American art. Projects are tailored to intern expertise, interests, and the needs of the department. Projects may include but are not limited to: research and planning for special exhibition and gallery installations, collection research and writing, archival work, and other curatorial tasks. **Deadline to apply: March 15, 2019.** For more information and application procedures visit: <https://aam-us-jobs.careerwebsite.com/job/summer-2019-mellon-foundation-curatorial-internship-in-native-american-art/46209305/>

### **Air Quality Planning for Wildland Smoke**

- ❖ April 2-3, 2019, Boise, ID. Tribal staff have an opportunity to participate in a two-day, hands-on workshop in which participants will learn and practice skills that will be useful in preparation for wildland smoke events. Prior to the workshop, participants will watch five (5) recorded webinars and one (1) live webinar. Participants will also need to complete a brief Listening Guide for each webinar and return it to the course coordinator. The workshop announcement and application are available on the ITEP website: [http://www7.nau.edu/itep/main/Training/training\\_air](http://www7.nau.edu/itep/main/Training/training_air). The announcement will provide more details about the webinars and the workshop. If you have questions, please contact Pat Ellsworth, Institute for Tribal Environmental Professionals, at 928-523-6721 or [patricia.ellsworth@nau.edu](mailto:patricia.ellsworth@nau.edu).

### **Advancing Climate Adaptation in Public Health**

- ❖ Do you work in public health? Are you interested in how climate change is affecting your efforts? Are you planning to or actively incorporating climate change into your work? EcoAdapt and the Natural Resources Defense Council are partnering to assess the state of climate adaptation planning and implementation for climate-related threats to public health in 16 U.S. states! If you have any questions, please contact project lead, Rachel Gregg. For more information and to take the survey, follow the link: <https://www.surveymonkey.com/r/EcoAdaptHealth>.

## *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/>

### **Udall Undergraduate Scholarship**

- Up to \$7,000 is awarded to 50 sophomores and juniors pursuing careers related to the environment. Scholars get to attend the Udall Scholar Orientation in August, meeting alumni and community leaders for exceptional networking opportunities, and gain lifetime membership in a growing and active alumni network. Applications must be submitted through a Udall faculty representative at the student's college or university. For more information, visit us at [www.udall.gov](http://www.udall.gov). **Deadline: March 7, 2019.**

### **Notice of Intent: Energy Infrastructure Deployment on Tribal Lands – 2019**

- DOE's Office of Indian Energy may solicit applications from Indian Tribes, which for purposes of this FOA, include Alaska Native Regional Corporations and Village Corporations and Tribal Energy Resource Development Organizations to: (1) Install energy efficiency measure(s) and/or energy generating system(s) for Tribal Building(s);

(2) Deploy community-scale energy generating system(s) on Tribal lands; (3) Install energy system(s) for autonomous operation to power a single or multiple essential tribal facilities during emergency situations or for tribal community resilience. DOE envisions awarding multiple financial assistance awards in the form of grants. Funding Opportunity Number: DE-FOA-0002031. **Deadline to apply: March 12, 2019.** DOE's Office of Indian Energy plans to issue the FOA on the EERE Exchange website (<https://eere-exchange.energy.gov/>).

#### **Solicitation of Proposals to Build Tribal Energy Development Capacity**

- The goal of the Tribal Energy Development Capacity (TEDC) program is to develop tribal management, organizational and technical capacity needed to maximize the economic impact of energy resource development on Indian land. The TEDC grant gives tribes the ability to develop or enhance their business and regulatory environment for energy resource development. Proposed projects must include building tribal capacity to: develop organizational structures, business entity structures, or develop or enhance regulatory functions. All of the functions are related to building tribal energy development capacity for the purpose of strengthening tribal capacity for development and management of energy projects. Funding Opportunity Number: BIA-000-0009-TEDC. **Deadline to apply: March 15, 2019.** For more information visit: [www.grants.gov](http://www.grants.gov).

#### **WaterSMART Drought Response Program: Drought Resiliency.**

- The objective of this 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 supplies; improve water management; and provide benefits for fish, wildlife, and the environment to mitigate impacts caused by drought. Indian Tribes are included as eligible applicants. **Deadline to apply March 27, 2019.** Funding opportunity number: BOR-DO-19-F003. For more information and to apply, go to <https://www.grants.gov/web/grants/view-opportunity.html?oppld=312255>

#### **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](mailto:bruiz@sonoraninstitute.org).

### *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**

##### **Workshop: Monitoring and Reporting Drought in Arizona**

March 6, Scottsdale, AZ. Join experts from the National Drought Mitigation Center, the Arizona Drought Monitoring Technical Committee, and the USDA for a one-day workshop to learn about and discuss: the U.S. Drought Monitor, Drought Tools and Resources, Increasing the coverage of ground-measured precipitation data in AZ, and Opportunities and technologies for drought impact reporting. For more information and to register visit: <https://www.eventbrite.com/e/monitoring-and-reporting-drought-in-arizona-tickets-54888614323>

##### **Workshop: Climate Training Workshop for Tribes**

March 11-12, Okmulgee, OK.

This climate training is the 1st training to take place and will introduce the concepts and definitions in the climate field. This training is a good first step toward determining tribal priorities and interests in pursuing climate related grants or including climate in your grants or planning efforts. For registration or questions, contact April Taylor at [April.Taylor@chickasaw.net](mailto:April.Taylor@chickasaw.net).

##### **Summit: BE. Hive: Climate Change Needs Behavior Change**

March 19, Washington DC. Climate change is the most pressing threat facing our species and our planet. Human behavior lies at the center of the challenge. But it also may be the solution. At the BE.Hive: Climate Change Needs Behavior Change summit, you will learn about the latest insights from behavioral science, get inspired by the world's leading environmentalists, be ignited by artists, storytellers and explorers, and tap into some of the most promising approaches for shifting human behavior to reduce greenhouse gas emissions. Register today and join us for BE.Hive: Climate Change Needs Behavior Change, a one-day summit to explore global climate change through the lens of human behavior. For more information visit: <https://give.rare.org/event/be-hive-2019/e202755>

**Workshop: Data and Tools for Weathering Nevada's Variable Climate**

March 19, Reno, NV. This workshop is designed for people who want to learn how to interpret climate data, use online resources and tools, and report drought impacts to stakeholders. Participants will learn about; interpreting long range weather forecast products, the Nevada Climate Tracker, Climate Engine, the National Drought Mitigation Center's Drought Impact Reporter, NIDIS Drought Resources and CoCoRaHS. The workshop format is intended to be hands on and interactive. After each short presentation, participants will have the opportunity to practice what they have learned about a data-set or to try out a tool. For more information and to register visit: [https://docs.google.com/forms/d/1aDhaDoGW\\_GhjPGd7\\_X3pBwmiDpHO41rD6w9PNsAkUAo/viewform?edit\\_requested=true](https://docs.google.com/forms/d/1aDhaDoGW_GhjPGd7_X3pBwmiDpHO41rD6w9PNsAkUAo/viewform?edit_requested=true)

**Call: South Central Climate Adaptation Science Center: Quarterly Tribal Engagement Call**

March 21, 3:00 p.m. (CST). Quarterly Tribal Engagement Call is to promote open communication between all federal agency members in the South Central Region who work with tribes and climate change. The purpose for this open communication is for us all to become more efficient in helping tribal staff with their needs. The calls also allow all federal agency workers in the region who work with tribes and climate change to be aware of the projects we are all working on as to increase the diversity of our projects and to prevent any redundancy of projects. Quarterly Tribal Engagement Calls take place every three months on the third Thursday of the month at 3:00 p.m. Central Time. To connect to call: dial (405)325-6688; 7444677#.

**Workshop: Talk Climate Institute**

March 25-26, Duluth, MN. Join us for a two-day engaging workshop where you'll learn new ways to have conversations about climate change that build respect and understanding. Discover your own personal climate story, and learn how to use it as a tool to inspire solutions. Full and partial scholarships are also available, with priority given to people of color and Indigenous people. For more information and to register visit: <https://www.climategen.org/our-core-programs/trainings/public-trainings/talk-climate-institute/>

**Seminar: 20<sup>th</sup> Annual OMW Tribal Environmental Seminar for Tribal Leaders, Tribal Environmental Program Managers and In-House Counsel**

March 27-28, Seattle, WA. The theme for the 2019 Seminar is "Exercising Governmental Sovereignty: What have Tribal environmental programs accomplished in the last 20 years and what does the future hold?" Industrial Economics, Inc., an environmental and economic consulting firm, will co-sponsor the seminar. The co-sponsor attendees will also assist in the Day Two activity. Seating is limited. To reserve your seat, please request and complete a Seminar Registration Form and return it at your earliest convenience by fax to: (206) 447-0215 or by email to [msimmons@omwlaw.com](mailto:msimmons@omwlaw.com). If you have any questions regarding our Tribal Environmental Seminar, please give Jennifer Sanscrainte or Ogden Murphy Wallace a call at 206.447.7000.

**April****Conference: Evaluation, Exploitation, and Enhancement of Arctic Observing Systems across Disciplines**

April 7-12, Vienna, Austria. This session aims at bringing together multidisciplinary studies that address the current state of Arctic observing systems, including strategies to improve them in the future. Conveners invite contributions covering atmosphere, ocean, cryosphere and terrestrial spheres, or combinations thereof, by use of remote sensing, in situ observation technologies, and modeling. This session will be supported by the EU-H2020 project INTAROS, and welcomes contributions from other pan-Arctic networks, multi-disciplinary campaigns, or databases. For more information visit: <https://www.egu2019.eu/>

**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/>

**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](https://www.usgs.gov/centers/dakota-water/science/western-south-dakota-hydrology-conference?qt-science_center_objects=0#qt-science_center_objects)

**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

### **Conference: 20<sup>th</sup> 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](http://www7.nau.edu/itep/main/Conferences/confr_ntf)

### **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>

### **Summit: 10th Annual 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 and to register, go to <https://web.cvent.com/event/11bb90a9-a689-4fa6-83e3-b525561587f8/summary>

### **Workshop: 7<sup>th</sup> 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>

## June

### **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.

### **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. **Application Deadline: March 29, 2019.** For more information visit:  
[https://docs.google.com/forms/d/1Cq\\_W4Z16PlzP-PIUil4-Mlo8\\_isxTBUzYg7ga181qwo/viewform?edit\\_requested=true](https://docs.google.com/forms/d/1Cq_W4Z16PlzP-PIUil4-Mlo8_isxTBUzYg7ga181qwo/viewform?edit_requested=true)

## **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](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 our 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. For more information visit: [http://www7.nau.edu/itep/main/Conferences/confr\\_tlef](http://www7.nau.edu/itep/main/Conferences/confr_tlef)

---

**\*\*\*You are receiving this email because you are subscribed to ITEP's Tribes & Climate Change Listserv. To manage your ITEP listserv subscriptions, go to <http://www7.nau.edu/itep/main/listsrv/> . Thank you!\*\*\***

**©2018 Institute for Tribal Environmental Professionals at Northern Arizona University  
email: [itep@nau.edu](mailto:itep@nau.edu)**