



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

December 2018



Institute for Tribal Environmental Professionals

Ya'at'teeh!

Season's greetings to one and all! We hope everyone is enjoying time with family and friends during this holiday season.

As many of you prepare your calendars for the upcoming new year we'd like to remind you of a few events taking place in January. First, two webinars will be hosted by ITEP on January 10th – Fourth National Climate Assessment – Tribes and Indigenous Peoples and on January 28th – Part 3: Why conduct a vulnerability assessment? Registration for the January 10th webinar is open and can be found at: http://www7.nau.edu/itep/main/tcc/Training/Webinars_Schedule. The January 28th webinar registration will be open soon.

Second, the Culturally Relevant Climate Change Adaptation Planning for Tribes and Tribal Partners will be hosting a conference January 23-24 in Cloquet, MN in addition a webinar will be hosted on January 9. For registration information visit: <https://forestadaptation.org/Tribal-adaptation-2019>

We hope you enjoy the plentiful list of resources provided in this newsletter as we had many to include. With all the recent activity of the Global Climate Summit to COP24, we are reminded that tribes can still be signatories in taking climate action to meet the Paris Agreement. Nine tribes have already joined and if you are interested visit We Are Still In at <https://www.wearestillin.com> to learn how.

With that, we wish everyone a very happy holiday season filled with laughter, food and time with family.

-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

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>

How Climate Change Is Affecting Glaciers Around the World

- NASA satellites are offering new insights into how glaciers in Antarctica and Asia are responding to warmer temperatures. © Pacific Standard, 12/26/2018. <https://psmag.com/environment/how-climate-change-is-affecting-glaciers-around-the-world>

Reindeer Now Smaller and Lighter Due to Climate Change, Study Finds

- Reindeer herders in Finnish Lapland are concerned their prized animals are getting smaller because of climate change. © Euronews, 12/25/2018. <https://www.euronews.com/2018/12/25/reindeer-now-smaller-and-lighter-due-to-climate-change-study-finds>

The World Faces Rising Costs of Climate Change as Oil Prices Drop

- In the last few weeks, two important climate reports were released – the Fourth National Climate Assessment (NCA4) and the UN Emissions Gap Report 2018. Both studies highlight the risks of rising greenhouse gas emission (GHG) concentrations in the Earth's atmosphere, and the potential consequences should these trends continue. © Forbes, 12/18/2018. <https://www.forbes.com/sites/arielcohen/2018/12/18/the-world-faces-rising-costs-of-climate-change-as-oil-prices-drop/#633ec12f5937>

Climate Coverage Misses 'Whole' Indigenous Story

- Indigenous communities are often uniquely and disproportionately affected by climate change, but experts say mainstream media don't often tell the whole story. © E&E News, 12/17/2018. <https://www.eenews.net/stories/1060109809>

Seven-State Colorado River Drought Plan Approved

- A powerful Colorado River agency formally approved a far-reaching set of drought plans this week, paving the way for a critical seven-state accord designed to stave off mandatory cutbacks in water use in the midst of a 19-year drought. © Journal-Advocate, 12/14/2018. http://www.journal-advocate.com/sterling-local_news/ci_32331061/seven-state-colorado-river-drought-plan-approved

Integrating Indigenous Knowledge into National Climate Adaptation Plans at COP24

- When it comes to state action on climate change, there is perhaps no better exemplar than Bolivia. After all, the plurinational state has integrated indigenous traditional knowledge (ITK) into its climate mitigation and adaptation process. © Intercontinental Cry, 12/14/2018. <https://intercontinentalcry.org/integrating-indigenous-knowledge-into-national-climate-adaptation-plans-at-cop24/>

How US Corn Farmers Adapted to Climate Change

- Changing weather and planting practices in recent decades have led to increased corn yields, but whether the findings will apply to other crops and regions remains unknown. © Inside Science, 12/14/2018. <https://www.insidescience.org/news/how-us-corn-farmers-adapted-climate-change>

Federal Report Highlights Tribes' Vulnerability to Climate Change

- Climate change has already begun to harm communities in the Southwest with warmer temperatures, bigger wildfires, and diminishing water supplies. Indigenous communities are especially at risk. That's one conclusion of the Fourth National Climate Assessment, published by the federal government last month. © Knau, 12/13/2018. https://www.knau.org/post/federal-report-highlights-tribes-vulnerability-climate-change?utm_source=Environment+Wrap-Up&utm_campaign=439a422084-EMAIL_CAMPAIGN_2017_07_12_COPY_01&utm_medium=email&utm_term=0_be5ca4cdac-439a422084-142250421&mc_cid=439a422084&mc_eid=5fa146057a

Antarctica's Contribution to Sea Level Rise was Mitigated by Snowfall

- A new NASA-led study has determined that an increase in snowfall accumulation over Antarctica during the 20th century mitigated sea level rise by 0.4 inches. However, Antarctica's additional ice mass gained from snowfall makes up for just about a third of its current ice loss. © NASA Global Climate Change, 12/13/2018. <https://climate.nasa.gov/news/2836/antarcticas-contribution-to-sea-level-rise-was-mitigated-by-snowfall/>

Study: Evidence for Climate Change is More Compelling Than Ever

- A new study, published this week in the journal Science by a University of Virginia environmental scientist and colleagues at other academic organizations, has found that evidence supporting the Environmental Protection Agency's 2009 "endangerment finding" for greenhouse gases is even stronger and more conclusive in the changing climate of today. © University of Virginia, 12/13/2018. <https://news.virginia.edu/content/study-evidence-climate-change-more-compelling-ever>

Major Health Study Shows Benefits of Combating Climate Change

- During the holiday season, people often drink toasts to health. There's something more we can do to ensure that we and others will enjoy good health now and into the future: combat climate change. © EcoWatch, 12/12/2018. <https://www.ecowatch.com/climate-change-health-suzuki-2623187887.html>

U.S., Russia, Saudis Balk at Endorsing Key Climate Change Report

- A diplomatic standoff over a single word could set the stage for a bigger showdown during the second half of this year's U.N. climate summit. © CBS News, 12/10/2018. <https://www.cbsnews.com/news/us-russia-saudi-arabia-kuwait-balk-at-endorsing-key-climate-change-report-poland-conference/>

How Alaska Fixed its Earthquake-Shattered Roads in Just Days

- A need for speed. © The Verge, 12/8/2018. <https://www.theverge.com/2018/12/8/18128983/alaska-earthquake-roads-fixed-anchorage-damage>

Melting of Greenland's Ice is Off the Charts,' Study Shows

- Greenland's massive ice sheets contain enough water to raise global sea levels by 23 feet, and a new study shows that they are melting at a rate "unprecedented" over centuries – and likely thousands of years. © CNN, 12/7/2018. <https://www.cnn.com/2018/12/06/world/greenland-ice-sheet-melting-unprecedented-rate-climate-change-wxc/index.html>

2019 May Be the Hottest Year Yet—Here's Why

- Spurred by a likely El Niño as well as climate change, the planet is expected to heat up even more, scientists warn. © National Geographic, 12/6/2018. <https://www.nationalgeographic.com/environment/2018/12/2019-may-be-hottest-year-yet-el-nino-climate-change/>

Everyday People Are Feeling Effects of Climate Change, Says Scientist

- Stanford University scientist Rob Jackson on Thursday said that everyday people across the U.S. have started to feel the impacts of climate change, citing natural disasters like wildfires as well as rising sea levels. © The Hill, 12/6/2018. <https://thehill.com/hilltv/rising/420025-everyday-people-are-feeling-effects-of-climate-change-says-scientist>

Mass Extinction that Killed Most Life on Earth Caused by Climate Change

- The biggest mass extinction in Earth's history wiped out 90 percent of lifeforms because they couldn't breathe, scientists have revealed. © New York Post, 12/6/2018. <https://nypost.com/2018/12/06/mass-extinction-that-killed-90-of-life-on-earth-was-caused-by-climate-change/>

World Bank Group Announces \$200 billion over Five Years for Climate Action

- The World Bank Group today announced a major new set of climate targets for 2021-2025, doubling its current 5-year investments to around \$200 billion in support for countries to take ambitious climate action. © The World Bank, 12/3/2018. <http://www.worldbank.org/en/news/press-release/2018/12/03/world-bank-group-announces-200-billion-over-five-years-for-climate-action>

Co-Production of Knowledge and Multi-Level Governmental Collaboration in A Rapidly Changing Arctic

- The Arctic is in the midst of an unprecedented environmental transition caused by increasing land and ocean temperatures. Arctic sea ice is rapidly decreasing. © Arctic Research Consortium of the United States, 11/30/2018. <https://www.arcus.org/witness-the-arctic/2018/11/highlight/2>

Climate Change Means We're Dry and Getting Drier

- Study says water scarcity in Southwest is the new norm. © Indian Country Today, 11/30/2018. <https://newsmaven.io/indiancountrytoday/news/climate-change-means-we-re-dry-and-getting-drier-GhxfAj4y8ki8NTYqmkzuOg/>

Ocasio-Cortez, Diverse Lawmakers Prioritize Climate Change with 'Green New Deal'

- 'Our lives are on the line,' says Rep.-elect Alexandria Ocasio-Cortez regarding climate change. © NBC News, 11/30/2018. <https://www.nbcnews.com/news/latino/ocasio-cortez-diverse-lawmakers-prioritize-climate-change-green-new-deal-n942336>

Fires in Northern California Present Challenges to Native Tribes

- Fire is foundational to the Karuk Tribe, who live and manage 1.048 million acres of their aboriginal lands along the Klamath and Salmon Rivers in northern California. By removing accumulated fuels, fire makes room for new growth and change. This renewal helps ensure the quality of traditional foods and cultural materials and serves as a medium of cultural education. Ceremonies surrounding fire strengthen the Tribe's social networks and enhance its members' physical and mental health. © Weather Nation, 11/29/2018. <http://www.weathernationtv.com/news/fires-in-northern-california-present-challenges-to-native-tribes/>

What Ice Age Plants Can Tell Us About Modern Climate Change

- What Ice Age vegetation tells us about the dangers of climate change. © Arizona Public Media, 11/20/2018. <https://www.azpm.org/p/home-art-radio/2018/11/20/141451-episode-157-what-ice-age-plants-can-tell-us-about-modern-climate-change/>

The Tolowa People Work with Western Science to Monitor Coastal Health

- We tend to think of environmental protection in terms of the sciences, namely western biology and western ways of knowing. We go to universities to learn about the natural and cultural world around us but fail at times to recognize the world prior to colonization and the devastating environmental changes that have occurred because of it. © KCET, 11/15/2018. <https://www.kcet.org/shows/tending-nature/the-tolowa-people-work-with-western-science-to-monitor-coastal-health>

New Resources Support Tribes in Preparing for Climate Change

- As the natural world responds to climate change, American Indian tribes across the country are grappling with how to plan for a future that balances inevitable change with protecting the resources vital to their cultural traditions. The University of Washington Climate Impacts Group and regional tribal partners have developed a collection of resources that may be useful to tribes at any stage in the process of evaluating their vulnerability to climate change. The project is a partnership among tribes, tribal associations, universities and the federal government. © USGS Climate Adaptation Science Centers, 11/14/2018. <https://casc.usgs.gov/content/new-resources-support-tribes-preparing-climate-change>

Environment Report: Tribes Want a Say in the Colorado River's Future

- The San Diego County Water Authority offers to end a long-running legal battle, President Trump and the mayor of San Francisco agree on something and more in our biweekly roundup of environmental news. © Voice of San Diego, 11/5/2018. <https://www.voiceofsandiego.org/topics/science-environment/environment-report-tribes-want-a-say-in-the-colorado-rivers-future/>

Resources

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

Water in the Lumbee World: A River and Its People in a Time of Change

- This article explores relationships between Lumbee people and the riverine landscapes of their home. I draw upon my lived experience as a Lumbee person and my training as an environmental scientist to evaluate the riverine environment of the Lumbee River as both a template for change and a fragile resource. © Environmental History, 12/6/2018. <https://academic.oup.com/envhis/article/24/1/25/5232296>

Diné Native Plants Program: Navajo Nation Native Plant Needs and Feasibility Assessment

- This initial feasibility assessment has established a need for locally sourced native seeds to help revegetate Navajo land. © Navajo Nation Department of Fish and Wildlife, 12/2018. https://nndfw.org/NNHP/docs_reps/NNPP_Feasibility_Assessment_Report.pdf

Practitioners Gather to Build Integrated Climate Adaptation Network in the Southwest

- The Southwest U.S. is the hottest and driest region in the country. As climate conditions change, existing challenges that have shaped and defined the landscape - such as water availability, drought, and wildfire - are being exacerbated and placing increased stress on ecosystems and human communities alike. Reduction in the snowpack that feeds the region's largest rivers, larger and more severe wildfires, and widespread tree die-off, due to persistent drought and bark beetle outbreaks, threaten the Southwest's ecosystems, infrastructure, and economies. © USGS Climate Adaptation Science Centers, 11/26/2018. <https://casc.usgs.gov/content/practitioners-gather-build-integrated-climate-adaptation-network-southwest>

Fourth National Climate Assessment – Volume II: Impacts, Risks and Adaptation in the United States

- The National Climate Assessment (NCA) assesses the science of climate change and variability and its impacts across the United States, now and throughout this century. © U.S. Global Change Research Program, 11/23/2018. <https://nca2018.globalchange.gov/>

Building Tribal Capacity for Climate Change Vulnerability Assessment

- Preparing for and responding to the impacts of climate change are critical to the future wellbeing of tribal communities. Recognizing this, federal, academic, and tribal institutions have increased efforts to promote the capacity of tribes to manage climate change risks. © University of Washington, 11/2018. <https://cig.uw.edu/our-work/decision-support/building-tribal-capacity-for-climate-change-vulnerability-assessment/>

Trophic Implications of a Phenological Paradigm Shift: Bald Eagles and Salmon in a Changing Climate

- The effects of climate change and hydroelectric (e.g. dams) management contribute to a complex human footprint in the North Cascades National Park, an otherwise largely natural ecosystem. NCASC scientist Madeleine Rubenstein and National Park Service partners accounted for the impacts of climate change on bald eagles, salmon, and flood events, so that park managers and the operators of the hydroelectric system can more effectively ensure the resilience of the eagle-salmon relationship along the Skagit River. © Journal of Applied Ecology, 08/03/2018. <https://besjournals.onlinelibrary.wiley.com/doi/pdf/10.1111/1365-2664.13286>

Synthesizing Climate Change Impacts on Wildlife Health and Identifying Adaptation Strategies

- The goal of this project is to review and synthesize existing information on the impacts of climate change on fish and wildlife health across North America. Researchers will develop a searchable database containing this information, and will use that database to identify gaps in knowledge and unique areas of concern. Through a symposium with DOI scientists and stakeholders, including resource managers, state agencies, and Tribes, researchers will define near-term science priorities for better understanding the impacts of climate change on wildlife health and will identify potential adaptation strategies. © USGS Climate Adaptation Science Centers, 2018. <https://www.unh.edu/unhtoday/2018/10/winter-ticks-kill-70-percent-moose-calves-research-shows>

Great Lakes Coastal Community Climate Adaptation Checklist

- Significant climate change is likely, but there is a great deal of uncertainty about the precise impacts of climate change, particularly on issues relating to water resources. This checklist of climate-related decision points can help coastal communities smoothly integrate climate change data into their ongoing planning processes. Also included is a list of websites for further information. © University of Wisconsin Aquatic Sciences Center, 2018. <https://publications.aqua.wisc.edu/product/great-lakes-coastal-community-climate-adaptation-checklist/>

Indigenous Knowledge for Climate Change Assessment and Adaptation

- This unique transdisciplinary publication is the result of collaboration between UNESCO's Local and Indigenous Knowledge Systems (LINKS) programme, the United Nations University's Traditional Knowledge Initiative, the IPCC, and other organisations. Chapters, written by indigenous peoples, scientists and development experts, provide insight into how diverse societies observe and adapt to changing environments. A broad range of case studies illustrate how these societies, building upon traditional knowledge handed down through generations, are already developing their own solutions for dealing with a rapidly changing climate and how this might be useful on a global scale. Of interest to policy-makers, social and natural scientists, and indigenous peoples and experts, this book provides an indispensable reference for those interested in climate science, policy and adaptation. © Cambridge University Press, 09/2018. <https://www.cambridge.org/core/books/indigenous-knowledge-for-climate-change-assessment-and-adaptation>

[adaptation/040C74883218D38652166413CF0E5FB1?pageNum=1&searchWithinIds=040C74883218D38652166413CF0E5FB1&productType=BOOK_PART&searchWithinIds=040C74883218D38652166413CF0E5FB1&productType=BOOK_PART&sort=mtdMetadata.bookPartMeta_mtdPositionSortable%3Aasc&pageSize=30&template=cambridge-core%2Fbook%2Fcontents%2Flistings&ignoreExclusions=true#fndtn-information](https://www.routledge.com/Seeking-Justice-in-an-Energy-Sacrifice-Zone-Standing-on-Vanishing-Land/Maldonado/p/book/9781629584010)

Seeking Justice in an Energy Sacrifice Zone: Standing on Vanishing Land in Coastal Louisiana

- Seeking Justice in an Energy Sacrifice Zone is an ethnography of the lived experience of rapid environmental change in coastal Louisiana, USA. Writing from a political ecology perspective, Maldonado explores the effects of changes to localized climate and ecology on the Isle de Jean Charles, Grand Caillou/Dulac, and Pointe-au-Chien Indian Tribes. Focusing in particular on wide-ranging displacement effects, she argues that changes to climate and ecology should not be viewed in isolation as only physical processes but as part of wider socio-political and historical contexts. © Routledge, 09/2018. To order the book, you can go to the book's webpage, <https://www.routledge.com/Seeking-Justice-in-an-Energy-Sacrifice-Zone-Standing-on-Vanishing-Land/Maldonado/p/book/9781629584010>, or to request a review copy you can access a copy for free through this site, <https://www.routledge.com/resources/compcopy/9781351002943>

Understanding Living Shorelines

- Living shorelines connect the land and water to stabilize shorelines, reduce erosion, and provide valuable habitat that enhances coastal resilience. © NOAA Fisheries, 06/19/2017. <https://www.fisheries.noaa.gov/insight/understanding-living-shorelines>

Educational and Youth Engagement Opportunities

2019 Spring & Summer Volunteer Internship U.S. Environmental Protection Agency Office of Air & Radiation (OAR) Washington, DC

- ❖ This is an unpaid volunteer internship at the U.S. EPA Headquarters in OAR's Office of Air Policy and Program Support (OAPPS). Volunteer interns will gain valuable experience in efforts to protect public health and the environment with an emphasis on the Clean Air Act in concert with educational and research interests. The position requires a person with ability to analyze and coordinate international, economics, research, and science issues; engage stakeholders with effective communication and outreach; manage program operations; support top priorities cross-OAR policies and processes; and work independently and/or with small teams. To be considered, you must submit a cover letter and resume by email as a single Word or PDF file to: Joseph Morris (Morris.Joseph@epa.gov) and Mary Resendez (Resendez.Mary@epa.gov) **by January 9, 2019 for summer internships**. Please indicate your preference for the spring or summer internship in your cover letter. Questions may be directed to: Catrice Jefferson at Jefferson.Catrice@epa.gov or (202)564-1668.

Youth Employment Opportunity: Anishinaabek Stories and Lifeways Interpreters

- ❖ It is the Anishinaabek legend - the story of the devoted mother bear and her lost cubs - from which Sleeping Bear Dunes National Lakeshore's name is based. This fact alone is testament to the importance of the park's landscapes and natural resources to the Anishinaabek of northwest lower Michigan and their ancestors. The park has a goal to further develop partnerships with the region's Anishinaabek Tribes by involving Anishinaabek youth in developing educational programs related to the Anishinaabek way of life. This project will hire park rangers and interns to be part of the team to help develop this relationship and be a connection to the greater park community. To apply for this Student Park Guide position, you must create an account on usajobs.gov. **The position will be announced in early January 2019**. You will need to apply through [usajobs](http://usajobs.gov). When the announcement is posted we will update this site. If you are on our email list, we will contact you directly. To be added to our email list, if you are interested in applying, or have any questions, please contact Lisa Griebel (lisa_griebel@nps.gov; 231-326-4726).

NOAA's 2019 Climate & Global Change Postdoctoral Fellowship

- ❖ NOAA Climate and Global Change Postdoctoral Fellows focus on observing, understanding, modeling, and predicting climate variability and change on seasonal and longer time scales. This includes the documentation and analysis of past, current, or possible future climate variability and change as well as the study of the underlying physical, chemical, and biological processes. The application **deadline is January 4, 2019**. For more information and to apply, go to: <https://cpaess.ucar.edu/cgc/how-postdoctorates-apply/>

Apply or Nominate a Scholar for the 2019 Arctic Indigenous Scholars Opportunity

- ❖ Arctic Indigenous scholars have historically and continue to advance a variety of issues, such as food security, hunting and fishing rights, community resilience, climate change, biodiversity, and a number of other topics and

disciplines. The information and understanding put forward by such scholars is invaluable. It is increasingly clear that the study of the Arctic depends upon successfully empowering Arctic Indigenous scholars with the opportunity to provide insight and expertise to those scientists studying the Arctic within the realm of academic research, often from urban-based settings. The objective of this opportunity, led by the Arctic Research Consortium of the U.S. (ARCUS) and the Inuit Circumpolar Council (ICC) Alaska, and supported by the National Science Foundation's Division of Arctic Sciences, is to create a space for Indigenous scholars to educate and inform policy- and decision-makers engaged in Arctic Issues from the nation's capital, Washington, D.C. Four scholars will be selected to participate in 2019 and travel expenses and per diem will be provided. **Deadline to apply is January 10, 2019.** For more information visit: <https://www.arcus.org/indigenous-scholars>

National CASC 2019 Science to Action Fellowship

- ❖ The Science to Action Fellowship is provided through a partnership between the USGS National Climate Adaptation Science Center (NCASC) and Michigan State University (MSU). The program supports graduate students in developing a product that puts science into action, directly applying scientific research related to climate change impacts on fish, wildlife, or ecosystems to decision making about natural resources. During the fellowship year and beyond, Fellows benefit from collaborations with university and USGS mentors, from interactions with other colleagues and partners of USGS, and from exposure to high priority, real-world challenges in the natural resources policy arena. **Statement of Interest is due January 25, 2019.** For more information and to apply go to: <https://casc.usgs.gov/science-action-fellowship>.

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>

Undergraduate Research Opportunity: International Research Experience for Students - Conduct a Geological Research Project in France

- ❖ A four-week field program for Undergraduates. Undergraduates interested in geoscience (or allied disciplines): Consider applying for our National Science Foundation-funded International Research Experiences for Students program "Landscapes of Deep Time in the Red Earth of France— Research Training in Paleoclimate." This program involves four weeks of geological (sedimentological) fieldwork in France from late May through June 2019. It is fully-funded (in addition to a \$2500 stipend), and is open to current U.S. undergraduates in geoscience (or allied) disciplines. Preference will be given to undergraduates from underserved groups (we especially encourage applications from students of Native American heritage, and from those who are first-generation college students), and students interested in geology (especially those interested in sedimentology, fieldwork, paleoclimate). For details about the program and how to apply, visit <http://franceires.isoreghan.oucreate.com/Research/>. **Deadline for applications is February 1, 2019.** Please don't hesitate to contact Lily Pfeifer with any questions (Lspfeifer@ou.edu).

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

Tenure-Track Position: University of Minnesota Assistant, Associate or Full Professor of Tribal Natural Resources

- ❖ The University of Minnesota's College of Food, Agricultural and Natural Resource Sciences invites applications for a newly-established tenure-track position in Tribal Natural Resources. In collaboration with Minnesota-based Anishinaabe (Ojibwe) and Dakota tribes and potentially other North American tribes and indigenous groups, the successful candidate will develop a strong and impactful state- and regionally-based research program with national to international relevance. We seek candidates who are highly collaborative, have cross-cultural experience, and who employ integrative approaches to research and outreach. This faculty member must be committed to co-formulation of integrative and collaborative research and outreach agendas in partnership with tribal communities. A successful candidate will have one or more focal areas of expertise in indigenous customs and knowledge; policy and law; treaty rights; management and co- management of fisheries and wildlife, sustainable forests, habitat protection and restoration; and ecology and conservation of indigenous aquatic and terrestrial biota. All applications must be submitted online at: <https://humanresources.umn.edu/jobs>. Click the "External Faculty and Staff Applicants" tab and enter 327413 in the Search Jobs box. Combine all parts of the application (i.e., letter, CV, statements) into a single document before uploading. For questions or inquiries about the position, please contact Dr. Kristen C. Nelson (nelso468@umn.edu), Chair of the Tribal Natural Resources Search Committee. **Application review will begin on January 7, 2019.** The position is open until filled.

Call for Presentation Proposals: 2019 Tribal Leader/Scholar Forum

- ❖ The Call for Presentation Proposals is now available for the Tribal Leader/Scholar Forum at the 2019 NCAI Mid Year Conference in Reno, NV. The theme is "Data and Research: Tribes Taking Action." Presentations that share data that can inform tribal policy and decision-making are welcome. For more information visit: <http://www.ncai.org/policy-research-center/initiatives/tribal-leader-scholar-forum>. **Submission deadline is Friday, January 11, 2019.**

Call for Papers and Commentaries: Indigenous Food Sovereignty in North America

- ❖ The Journal of Agriculture, Food Systems, and Community Development and the Journal of American Indian Education jointly seek manuscripts and commentaries on practice-relevant and pedagogical research related to Indigenous food sovereignty issues, especially tribal and government policy, grassroots community organizing, culturally defined foods and practices, and the transfer of Indigenous knowledge. The **deadline for manuscript submissions is January 15, 2019.** <https://www.foodsystemsjournal.org/index.php/fsj/call-for-papers>

Visiting Assistant Professor in Native American and Indigenous Studies

- ❖ The Academic Council of the American Indian and Indigenous Collective (AIIC) at the University of California, Santa Barbara (UCSB), invites applications for the position of Visiting Assistant Professor in Native American and Indigenous Studies. The Visiting Assistant Professor will have research and teaching experience in the field of Native American and Indigenous Studies, broadly defined, focusing on the Peoples of North America. While the area of specialization is open, we are particularly interested in scholars with research and teaching interests in the histories, cultures, artistic and cultural production, sovereignty, political and social realities, and feminist and indigenous approaches to knowledge systems and epistemologies of Indigenous people. **Application review will begin January 15, 2019.**

Call for Presenters: "Living Breath of wəłəbʔaltxw" Indigenous Foods Symposium

- ❖ We invite Individual, Panel or Workshop abstracts for our "Living Breath of wəłəbʔaltxw" Indigenous Foods Symposium. Our 2019 theme is "Reclaiming Food as Family Medicine." We are looking for abstracts that focus on how Indigenous families are working together to reclaim and revitalize food traditions as a way to support community health and wellness. (Living Breath is a volunteer-led consortium and we may be able to provide modest travel funds and student scholarships). Email your abstracts to Dr. Charlotte Côté (Committee Chair) at clotise@uw.edu. For more information visit <http://www.livingbreathsymposium.org/>. **Deadline for Abstract Submission is January 18, 2019.**

Registration is now open for the National Adaptation Forum!

- ❖ The National Adaptation Forum is excited to gather adaptation practitioners in Madison, WI from April 23-25, 2019. 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. The **deadline for early bird registration is March 3, 2019**. For more information and to register, go to <https://www.nationaladaptationforum.org/registration>

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 will be available in early January 2019 on the ITEP website: 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.

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>.

7th Annual Rising Voices Workshop: Climate Resilience through Indigenous and Earth Sciences

- ❖ Save-the-Date: May 15-17, 2019, Boulder, CO at the National Center for Atmospheric Research. Rising Voices facilitates cross-cultural approaches for adaptation solutions to extreme weather and climate events, climate variability, and climate change. It has developed into a vibrant and productive cross-cultural network of Indigenous and Western scientific professionals, tribal and community leaders, environmental and communication experts, students, educators, and artists from across the United States, including Alaska, Hawai'i, and the Pacific Islands, 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 information and more details will be shared early 2019!

Assistant Professor Position: University of Washington, Health and Environment in Arctic Indigenous Communities

- ❖ The School of Marine and Environmental Affairs (SMEA) and the Department of American Indian Studies (AIS) at the University of Washington (UW) invite applications for a nine-month (100% FTE) tenure-track position at the rank of Assistant Professor. We seek a scholar who will advance our understanding of the relationships between health and environment in Arctic Indigenous communities. For more information and to apply, go to: <https://apply.interfolio.com/57516>

Wild Migrations: Atlas of Wyoming's Ungulates

- ❖ Wild Migrations: Atlas of Wyoming's Ungulates tells the story of the long-distance migrations that elk, mule deer, moose, pronghorn, bighorn sheep, bison, and mountain goats make each spring and fall across the landscapes of the American West. This book is the definitive synthesis of these epic journeys as seen through the eyes of the biologists and wildlife managers who have studied the ungulates, or hoofed mammals, of Wyoming. © Oregon State University Press, 2018. <http://www.osupress.oregonstate.edu/book/wild-migrations>

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/>

Community Changemaker Grants for Native Youth-led Health Projects

- To aid youth in advocating for the health of our communities, NIHB is offering Community Changemaker Grants. These grants are small amounts of money (\$250) that can help supercharge a youth-led health event. They are open to American Indian and Alaska Native youth ages 14-24 years old.
https://www.nihb.org/for_youth/changemaker_grants.php **Deadline to apply ASAP, until funding is gone!**

2019 Ecological Effects of Sea Level Rise Program (EESLR)

- This solicitation is to improve adaptation and planning in response to regional and local effects of sea level rise and coastal inundation through targeted research on key technologies, natural and nature-based infrastructure, physical and biological processes, and model evaluation. The overall goal of EESLR is to facilitate informed adaptation planning and coastal management decisions through a multidisciplinary research program that results in integrated models and tools of dynamic physical and biological processes capable of evaluating vulnerability and resilience under multiple SLR, inundation, and management scenarios. Eligible applicants include Indian Tribal Governments and tribal colleges. Funding opportunity number: NOAA-NOS-NCCOS-2019-2005813 at www.grants.gov. **Deadline 1/16/2019.**

Tribal Clean Water Act Section 319 Competitive Grant Request for Applications

- EPA is soliciting applications pursuant to Section 319 of the Clean Water Act (CWA) from eligible tribes and intertribal consortia to develop and/or implement watershed-based plans and implement watershed projects that will result in significant steps towards solving Nonpoint Source (NPS) impairments on a watershed-wide basis. Eligible entities are strongly encouraged to submit applications that develop and/or implement watershed-based plans designed to restore NPS-impaired waters and protect waters from NPS pollution. Funding opportunity number EPA-OW-OWOW-19-01 at www.grants.gov. **Deadline: January 24, 2019.**

Flood Mitigation Assistance Program (FMA)

- The FMA Grant Program makes available Federal funds to State, Local and Tribal Governments to reduce or eliminate the risk of repetitive flood damage to buildings and structures insured under the National Flood Insurance Program (NFIP). In FY18, the FMA Program will prioritize proposals that address community flood risk by setting aside \$70 million for this purpose. FMA will seek to fund two types of community flood mitigation activities: Advance Assistance for flood mitigation design and development of community flood mitigation projects and mitigation projects that address community flood risk for the purpose of reducing NFIP flood claim payments. Applicants must submit applications via the Mitigation eGrants system on the FMA Grants Portal: <https://portal.fema.gov>. Applicants may submit a maximum of 1 advanced assistance and 1 community mitigation project sub-application. Eligible entities: Native American Tribal governments (Federally recognized), state governments and others. Funding opportunity number: DHS-18-MT-029-000-99 at www.grants.gov. **Deadline: 01/31/2019.**

Pre-Disaster Mitigation Program (PDM)

- The PDM program makes available Federal funds to State, Local and Tribal Governments to implement and sustain cost-effective measures designed to reduce the risk to individuals and property from natural hazards, while also reducing reliance on Federal funding from future disasters. FEMA will provide allocations of \$575,000 as required by the Stafford Act to states and territories; and a tribal set aside of \$15 million for allocations up to \$575,000 for Native American Indian tribal governments to support overall mitigation planning and projects. The remaining PDM funds will be awarded on a competitive basis with a focus on multi-state/tribal mitigation initiatives. Applicants must submit applications via the Mitigation eGrants system on the FEMA Grants Portal: <https://portal.fema.gov>. Applicants may submit a maximum of 9 project sub-applications notwithstanding any project(s) submitted for the state/territory allocation or tribal set aside. In addition, any state or tribe willing to serve as the applicant for a multi-state or tribal activity may submit one additional plan or project sub application. Eligible entities: Native American Tribal governments (federally recognized), state governments, and others. Funding opportunity number: DHS-18-MT-047-000-99 at www.grants.gov. **Deadline: 01/31/2019.**

Native American Congressional Internship

- A nine-week summer internship in Washington, D.C., for Native American and Alaska Native students who wish to learn more about the federal government and issues affecting Indian Country. The Foundation provides round-trip airfare, housing, per diem for food and incidentals, and a stipend at the close of the program. View the application and visit www.udall.gov for more information. **Deadline: January 31, 2019.**

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. **Deadline: March 7, 2019.**

National Clean Diesel Campaign (EPA: Office of Transportation & Air Quality)

- EPA is soliciting applications nationwide for Tribal projects that achieve significant reductions in diesel emissions and diesel emissions exposure, particularly from fleets located in areas designated as having poor air quality. EPA anticipates \$2 million will be awarded to eligible Tribal applicants. EPA will hold two upcoming webinars about the FY 2018 Tribal DERA RFA. The first will be on Wednesday, September 19, 2018, at 2:00 p.m. (ET). The second will be on Thursday, February 21, 2019, at 2:00 p.m. (ET). Webinar information and links are available at <https://www.epa.gov/cleandiesel/clean-diesel-tribal-grants#2018rfp>. **Deadline to apply 04/03/2019.**

Upcoming Events

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

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

January

Webinar: Culturally Relevant Climate Change Adaptation Planning for Tribes and Tribal Partners

January 9, 1 p.m. (CST). Traditional and indigenous knowledges and perspectives have not often been recognized in climate adaptation planning efforts focused on natural and cultural resources. This training will use the new Tribal Adaptation Menu along with the Northern Institute of Applied Climate Science Adaptation Workbook to integrate tribal and traditional values with climate adaptation planning processes. Feedback and discussion on the menu will be welcomed and encouraged. Register by January 4th, 2019

<https://goo.gl/forms/6RNAm49HuqVcwlyU2>

Webinar: Fourth National Climate Assessment – Tribes and Indigenous Peoples

January 10, 12:30 p.m. (PST). Join us as NCA4 authors share an overview of the recently released assessment. Hear about how authors integrated indigenous issues and actions across the entire NCA4 through communicating with regional and sectoral chapter leads and supporting opportunities for input from tribes. In addition to the review of NCA4 an interactive mapping application will also be demonstrated <https://biamaps.doi.gov/nca/>. Register at:

<https://register.gotowebinar.com/register/4070314376087241730>.

Web Conference: Land Degradation and Restoration Knowledge Gaps and Needs

January 14-18, Introductory Webinar and Feedback on Identified Knowledge Gaps

The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) invites Governments, experts, and other stakeholders, including practitioners, to participate in a web conference whose objective is to review and further explore knowledge gaps and discuss knowledge needs and priorities regarding land degradation and restoration. The three-week web conference will take place from January 14th to February 4th, 2019. For more information and to register visit: <https://www.ipbes.net/web-conference-land-degradation-restoration-knowledge-gaps-needs-january-14th-february-4th-2019>.

Conference Call: Pacific Northwest Tribal Climate Change Network

January 16, 10 a.m. (PST). The PNW Tribal Climate Change Network fosters communication between tribes, agencies, and other entities about climate change policies, programs, and research needs pertaining to tribes and climate change. The Network meets via conference call on the third Wednesday of each month. The Network provides regular input into ongoing research, resource development and general efforts of the Tribal Climate Change Project. Participants in the Network have cited a critical need for coordination and collaboration between agencies and organizations to meet the needs tribes have in accessing climate change resources and information. To join the Network email list, email Kathy Lynn at kathy@uoregon.edu.

Web Conference: Land Degradation and Restoration Knowledge Gaps and Needs

January 21-25, Knowledge Needs in Practice and Policy

The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) invites Governments, experts, and other stakeholders, including practitioners, to participate in a web conference whose objective is to review and further explore knowledge gaps and discuss knowledge needs and priorities regarding land degradation and restoration. The three-week web conference will take place from January 14th to February 4th, 2019. For more information and to register visit: <https://www.ipbes.net/web-conference-land-degradation-restoration-knowledge-gaps-needs-january-14th-february-4th-2019>.

Workshop: Culturally Relevant Climate Change Adaptation Planning for Tribes and Tribal Partners

January 23-24, Cloquet, MN. Traditional and indigenous knowledges and perspectives have not often been recognized in climate adaptation planning efforts focused on natural and cultural resources. This training will use the new Tribal Adaptation Menu along with the Northern Institute of Applied Climate Science Adaptation Workbook to integrate tribal and traditional values with climate adaptation planning processes. Feedback and discussion on the menu will be welcomed and encouraged. Register by January 4th, 2019
<https://goo.gl/forms/6RNAm49HuqVcwlyU2>

Webinar: Built Environment – Resilient Water Features

January 24, 11:15 a.m. (MST). Climate change is expected to produce heavier rainfalls and more intense storms that can contaminate lakes and estuaries, while rising seas drive stronger currents that combine to erode shorelines. Resilient communities will need to be able to live with more water in motion. This session uses water resources planning and adaptation to better prepare for the next emergency, and to sustainably manage flooding and sea level rise. It covers a range of climate adaptation actions into their own real-world projects. This is a one-day, pre-conference workshop associated with the 2019 Midwest Fish & Wildlife Conference! Anyone with questions should contact Stephen Handler (sdhandler@fs.fed.us) and Olivia LeDee (oledee@usgs.gov).
<https://register.gotowebinar.com/register/6411216412221596684>.

Training: Climate Change Adaptation for Wildlife Managers: A Hands-on Workbook Process

January 27, 2019, Cleveland, OH. Wildlife managers face the growing challenge of helping wildlife populations and ecosystems respond to climate change. This active, hands-on workshop will help participants consider climate change and develop custom-built adaptation actions into their own real-world projects. This is a one-day, pre-conference workshop associated with the 2019 Midwest Fish & Wildlife Conference! Anyone with questions should contact Stephen Handler (sdhandler@fs.fed.us) and Olivia LeDee (oledee@usgs.gov).
https://casc.usgs.gov/sites/default/files/files/OH%20wildlife%20workshop_Save-the-Date%20%28002%29%20%281%29.pdf
Register by January 17th (registration will be capped at 30 participants) at:
<http://www.midwestfw.org/html/registration.shtml>

Webinar: Part 3: Why Conduct a Climate Change Vulnerability Assessment?

January 28, 10:30 a.m. (MST). This is the third webinar that will continue to provide in-depth overview of vulnerability assessment concepts and how resource managers can use these assessments within their respective and unique communities. Registration will open soon.

Web Conference: Land Degradation and Restoration Knowledge Gaps and Needs

January 28-February 1, How to Address These Knowledge Needs
The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) invites Governments, experts, and other stakeholders, including practitioners, to participate in a web conference whose objective is to review and further explore knowledge gaps and discuss knowledge needs and priorities regarding land degradation and restoration. The three-week web conference will take place from January 14th to February 4th, 2019. For more information and to register visit: <https://www.ipbes.net/web-conference-land-degradation-restoration-knowledge-gaps-needs-january-14th-february-4th-2019>.

Conference: Geoscience Alliance IV: Carrying Forward Ancestral Geoscience Knowledge to Work Through Today's Challenges -- Land Rights, Food Security, Natural Resource Extraction, Extreme Weather Events, Water, Land Use Change, and Education

January 31-February 3, Phoenix, AZ. The goals of the Geoscience Alliance are to 1) create new collaborations in support of geoscience education for Native American students, 2) establish a new research agenda aimed at closing gaps in our knowledge on barriers and best practices related to Native American participation in the geosciences, 3) increase participation by Native Americans in setting the national research agenda on issues in the geosciences, and particularly those that impact Native lands, 4) provide a forum to communicate educational opportunities for Native American students in the geosciences, and 5) to understand and respect indigenous traditional knowledge. Contact: Diana Dalbotten, dianad@umn.edu for more information. For registration and travel scholarship application, please visit: <https://geosciencealliance.wordpress.com/travel-and-logistics/>

February

Web Conference: Land Degradation and Restoration Knowledge Gaps and Needs

February 4, Summary and Synthesis of Contributions
The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) invites Governments, experts, and other stakeholders, including practitioners, to participate in a web conference whose objective is to review and further explore knowledge gaps and discuss knowledge needs and priorities regarding land degradation and restoration. The three-week web conference will take place from January 14th to February

4th, 2019. For more information and to register visit: <https://www.ipbes.net/web-conference-land-degradation-restoration-knowledge-gaps-needs-january-14th-february-4th-2019>.

March

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#.

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/>

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