

**Pacific Northwest Tribal Climate Change Project  
DRAFT Meeting Notes – Wednesday, July 15, 2015**

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**Call Participants:**

- Mary Basballe, Puyallup Tribe
- Kelly Coates, Cow Creek Tribe
- Robert Compton, Bureau of Indian Affairs
- Nathan Dexter, Fish and Wildlife
- Kathy Ferge, Natural Resource Conservation Service
- Laura Gephart, Columbia River Intertribal Fish Commission
- Eliza Ghitis, NW Indians Fisheries Commission
- Oliver Grah, Nooksack Indian Tribe
- George Hart, Navy Region Northwest
- Georgia Hart, Wisdom of the Elders
- Scott Hauser, Upper Snakes River Tribes Foundation
- Jennie Hoffman, Adaptation Insight
- James Holt, Nez Perce Tribe
- Brian Holter, Klawock Tribe
- Edna Jackson, Organized Village of Kake
- Kathy Lynn, University of Oregon
- Mary Mahaffy, North Pacific Landscape Conservation Cooperative
- Guillaume Mauger, UW Climate Impacts Group
- Andrew Miller, Organized Village of Kasaan
- Frederick Olson, Organized Village of Kasaan
- Cynthia Rossi, Point no Point Treaty Council
- Carrie Sykes, Organized Village of Kasaan
- Jonalee Squeochs, Yakama Indian Nation
- Ann Wyatt, Klawock Tribe

**Table of Contents**

FY 2015 Tribal Cooperative Landscape Conservation Program Awards ..... 2

Swinomish Climate Change Video Project ..... 2

EPA Seeks Tribal Feedback on Two New Climate Change Efforts ..... 2

Northwest Regional Climate Modeling Consortium ..... 3

Native Climate Council..... 3

ITEP Job Announcements..... 4

General Updates ..... 4

    ITEP Tribal CLimate Change Training ..... 4

    Cahokia Statement on Tribal Adaptation. .... 4

    Climate Solutions University now accepting applications for 2016 ..... 4

    BIA Tribal Climate Change Photo Contest ..... 4

    National Tribal Toxics Council Seeking Members - Applications due July 31, 2015 ..... 5

    Traditional Ecological Knowledge: A Model for Modern Fire Management? New Fire Science Digest. .... 5

    Five Tribes Selected for START Project Development Technical Assistance..... 5

Upcoming Events ..... **Error! Bookmark not defined.**

News, Publications and Resources ..... 10

**Upcoming PNW Tribal Climate Change Network Conference Call Dates**

- August 19, 2015
  - September 16, 2015
  - October 21, 2015
  - November 18, 2015
  - December 16, 2015
- Call-in Information:*
- Call Time: 10:00 am Pacific
  - Call-in #: 1-888-844-9904
  - Pass code: 5064716

## **MEETING NOTES**

### **FY 2015 Tribal Cooperative Landscape Conservation Program Awards ([Press Release](#))**

The Department of Interior announced that \$11.8 million funds have been awarded through the [Tribal Climate Resilience Program](#). The funding will help federally recognized tribes and tribally chartered organizations with climate change adaptation and ocean and coastal management planning projects. Projects will help tribes plan, train and participate in technical workshops and forums, while also supporting coastal tribes as they address the unique challenges of coastal erosion and development, rising sea levels, ocean acidification, and emergency management. A total of 104 awards totaling \$11,813,714 were made in five categories:

- Category 1: Trainings and Workshops – Awards: 7, Total Funding: \$823,407
- Category 2: Climate Adaptation Planning – Awards: 39, Total Funding: \$6,210,607
- Category 3: Travel (Climate) – Awards: 28, Total Funding: 619,940
- Category 4: Ocean and Coastal Management Planning – Awards: 23, Total Funding: \$3,837,454
- Category 5: Travel (Ocean and Coastal) – Awards: 7, Total Funding: \$322,306

To download the list of funded projects, visit:

<http://www.indianaffairs.gov/cs/groups/webteam/documents/document/idc1-030646.pdf>.

### **White House Tribal Youth Gathering**

Carrie Sykes with the Organized Village of Kasaan shared that she attended the White House Tribal Youth Gathering with a young woman from the Organized Village of Kasaan.

*About the gathering:* On July 9<sup>th</sup>, the White House hosted the inaugural Tribal Youth Gathering in collaboration with United National Indian Tribal Youth (UNITY) and the Departments of Justice (DOJ) and Health and Human Services (HHS). The Youth Gathering brought together over 875 Native youth representing 230 tribes from 42 states to engage with the First Lady, Cabinet officials, the White House Council on Native American Affairs, and non-federal partners on key issues, including cultural protection and revitalization, education, health and wellness, climate change and natural resources, tribal justice, and economic opportunity.

One of the programs highlighted at the Youth Gathering was bringing the Local Environmental Observers Program to Tribal Colleges. The Local Environmental Observers (LEO) network connects environmental experts with scientists at local universities to work alongside tribal elders to provide technical assistance. The LEO expansion will target tribal colleges and universities and engage hundreds of Native students in sharing observations about the impacts of climate change in their communities.

### **Swinomish Climate Change Video Project**

The Swinomish Indian Tribal Community is currently undertaking a video project to document tribal experiences with climate impacts. The project will culminate in a short video featuring testimony from Northwest coastal tribal members about climate impacts facing their communities. If you are interested in participating in this project, please contact Carson Viles at [cviles@uoregon.edu](mailto:cviles@uoregon.edu), or (541) 606-9485.

### **EPA Seeks Tribal Feedback on Two New Climate Change Efforts**

The EPA's Office of Air and Radiation has begun two new efforts:

1. to incorporate more tribally relevant information into EPA's climate change indicators project; and
2. to provide tribally focused climate change adaptation planning and implementation tools(e.g., web-based learning)

Feedback from tribes will help guide future content development. EPA is interested in hearing from tribes about needs, concerns, and recommendations regarding these projects specifically, and more generally about climate change and adaptation. To garner feedback from tribes, the EPA has prepared a handout available at <http://bit.ly/1d42IPk>. The EPA is also interested in anyone who might be willing to share knowledge, data, information, or stories with the public to help improve EPA's Climate Change Indicators and/or Tribal Climate Change Adaptation Training curriculum. To provide comments or feedback, contact Lisa Bacanskas at [bacanskas.lisa@epa.gov](mailto:bacanskas.lisa@epa.gov) by July 23, 2015.

### **Northwest Regional Climate Modeling Consortium**

Guillaume Mauger, University of Washington Climate Impacts Group, shared information about the Northwest Regional Climate Modeling Consortium. The goal of the Consortium is to support the development of regional climate model projections and their translation into actionable information regarding the impacts of climate change. Specific goals include:

1. Greatly expanded set of physically-based projections.
2. Improve regional modeling capabilities.
3. Link results to decision-making
4. Establish priorities for research

Currently, the Consortium is focused on Oregon, Washington and Idaho. Guillaume was not sure if it would extend to Alaska since there are different factors and data sets to consider, but he said it would be helpful to know if there was a perceived need. Several participants from Alaska said that they were interested in the Consortium.

Guillaume shared the Consortium model is prototyped after a similar effort at the University of Washington that has been focused on weather forecasting. Multiple agencies and organizations will come together to leverage funding resources, that there will be a governing board and regular meetings to establish and refine annual workplans and priorities for action. There were several questions about down-scaling, and over time, Guillaume hopes to provide more specific examples of down-scaled models, and illustrations of how statistical and dynamic models are different.

Guillaume is interested in gauging if the Northwest Regional Climate Modeling Consortium would be useful to tribes in the Northwest, and specifically, what would be needed for it to be useful? Kathy suggested that we could follow-up on a future call or potentially in a survey to participants in the PNW Tribal Climate Change Network to gauge questions and ideas about the Consortium. For more information about the Consortium or to provide feedback to these questions, contact Guillaume at [gmauger@uw.edu](mailto:gmauger@uw.edu).

### **Native Climate Council**

Wisdom of the Elders, Inc. (Wisdom) is forming the Native Climate Council in July. We would like to invite you to the convening meeting on Friday, July 24 at 10 am at PSU's Native American Student and Community Center (corner of SW Broadway and Jackson Streets at PSU's South Campus) or by teleconference. Please let us know if you will call in so we can arrange teleconferencing service. We are convening tribal representatives from along the Oregon coast and Native leaders, elders and youth in the Portland metropolitan area at our first meeting. Initial plans are to gain feedback from the community on climate issues impact Native people in Oregon; and which Native elders, scientists and cultural artists (storytellers, musicians, dancers and traditional artists) they suggest we record for

two climate documentary films and two public radio programs Wisdom is producing as part of our climate documentary and radio series. Wisdom has just produced the first two climate documentaries and two public radio programs on this topic. You can see the links at: The Cutting Edge: Climate and The People of the Caribou - <https://vimeo.com/117006307> and The Cutting Edge: Climate and The People of the Whale - <https://vimeo.com/122569798> The password is 2015SFSC

### **ITEP Job Announcements**

#### **Institute for Tribal Environmental Professionals hiring for the ITEP Climate Change Program and the ITEP Climate Change Program and American Indian Air Quality Training Program.**

The Institute for Tribal Environmental Professionals (ITEP) will be hiring for two new Program Coordinator positions – one position will be with ITEP’s Climate Change Program and the other position will be with ITEP’s Climate Change Program and American Indian Air Quality Training Program (AIAQTP). The positions are located on the campus of Northern Arizona University in Flagstaff, AZ. The application deadline for both job openings is **July 22, 2015**. The job descriptions (position # 602142 and #602143) and information about applying are available on the Northern Arizona University Human Resources website: [https://hr.peoplesoft.nau.edu/psp/ph92prta/EMPLOYEE/HRMS/c/HRS\\_HRAM.HRS\\_APP\\_SCHJO.B.GBL?FOCUS=Applicant&Siteid=1&FolderPath=PORTAL\\_ROOT\\_OBJECT.HC\\_HRS\\_CE\\_GBL2&IsFolder=false&IgnoreParamTemp=FolderPath%2525252clsFolder](https://hr.peoplesoft.nau.edu/psp/ph92prta/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJO.B.GBL?FOCUS=Applicant&Siteid=1&FolderPath=PORTAL_ROOT_OBJECT.HC_HRS_CE_GBL2&IsFolder=false&IgnoreParamTemp=FolderPath%2525252clsFolder). This is an excellent opportunity for advancing tribal environmental and natural resource management.

### **General Updates**

#### **ITEP Tribal Climate Change Trainings:**

The Institute for Tribal Environmental Professionals offers [training](#) to tribal environmental professionals to build their capacity to address climate change issues. The courses are taught by instructional teams that include staff from ITEP, federal agencies, universities, and/or organizations, and most importantly, the tribes themselves, who share their expertise and experience. Sue Wotkyns mentioned that they are seeking tribes to host upcoming trainings. If you are interested, please contact Sue at [Susan.Wotkyns@nau.edu](mailto:Susan.Wotkyns@nau.edu).

#### **Cahokia Statement on Tribal Adaptation.**

The Cahokia Statement on Tribal Adaptation has been assembled as a reflection of presentations made at the second National Adaptation Forum meeting that took place in St. Louis Missouri from May 12-14, 2015, as well as other recent publications, presentations and related activities by indigenous peoples in the United States and around the world. This Statement, while largely originating from the National Adaptation Forum, is not an official forum statement. It is open for endorsement by any individual or organization that wishes to support the issues and principles. <http://cahokiastatement.net/>

#### **Climate Solutions University now accepting applications for 2016**

(Model Forest Policy Program). Climate Solutions University has helped over 30 communities create adaptation plans that are ready for implementation. Participants foster positive, sustainable connections between people, economic, and ecosystem health. Contact Recruitment Coordinator Josh Dye at [josh@mfpp.org](mailto:josh@mfpp.org) or 612-481-8059 to get started. <http://www.mfpp.org/>

#### **BIA Tribal Climate Change Photo Contest**

**Deadline August 16, 2015.** The Bureau of Indian Affairs (BIA) has announced their 1<sup>st</sup> Tribal Climate Change Photo Contest for American Indian and Alaska Native students grades K-12. The purpose of this photo contest is to help students understand climate change and allow them to identify culture,

economic, physical, ecosystem, and other vulnerabilities in the world around them through the lens of climate change. As a result, students will be given the opportunity showcase their artistic skills while expressing what is valued in their culture and community. Deadline to submit photos:

8/16/15. <http://www.bie.edu/cs/groups/xbie/documents/text/idc1-030607.pdf>

### **National Tribal Toxics Council Seeking Members - Applications due July 31, 2015**

The National Tribal Toxics Council (NTTC) is seeking additional members for broader regional representation. The NTTC is a Tribal Partnership Group funded by Environmental Protection Agency Office of Pollution Prevention and Toxics (OPPT) and comprised of representatives from tribes across the country. OPPT was formed in 1977 with the primary responsibility for administering the Toxic Substances Control Act (TSCA) ([TSCA Summary](#)) and Pollution Prevention Act (PPA) ([PPA Summary](#)). The goal of TSCA is to understand the risk from a chemical before it is introduced into commerce in order to address unreasonable risk and prevent injury to human health and the environment and control risks of chemicals on the market. NTTC is focused on providing tribes with an opportunity for greater input on issues related to toxic chemicals and pollution prevention. Selection of new members for the Council will be based on diversity of geographic location and expertise, striving for a broad range of perspectives to further the NTTC's mission. This year the NTTC is looking for primary members and alternate members. All members are asked to meet once a month via conference calls and one member from each region, designated as a primary member, is requested to attend two in person meetings per year (travel, lodging, and per diem expenses will be reimbursed). Your assistance with this group will help identify tribal exposures to toxics, provide recommendations directly to OPPT and other EPA offices, encourage pollution prevention program development, enhance tribal collaboration, and provide outreach on issues that are relevant to tribes across the nation. Please go to [www.tribaltoxics.org](http://www.tribaltoxics.org) for more information about NTTC's priorities, charter, and bylaws. To download an application, visit: <http://www7.nau.edu/itep/main/nttc>. **Applications must be submitted by July 31, 2015.** Questions may be directed to Dianne Barton, NTTC Chair, at 503-731-1259 or Jennifer Williams, NTTC Support Staff, at 907-250-3826.

### **Traditional Ecological Knowledge: A Model for Modern Fire Management? New Fire Science Digest.**

The interagency Joint Fire Science Program has released its latest issue of the Fire Science Digest. This issue discusses how state-of-the-art management strategies might benefit from an infusion of ancient indigenous wisdom and outlines efforts to braid traditional ecological knowledge with Western science. <http://www.firescience.gov/Digest/FSdigest20.pdf>

### **Five Tribes Selected for START Project Development Technical Assistance**

The U.S. Department of Energy (DOE) Office of Indian Energy has selected five Tribes for the Strategic Technical Assistance Response Team (START) Renewable Energy Project Development Technical Assistance Program. The five Tribes selected are:

- Blue Lake Rancheria (Blue Lake, California) will receive assistance with a community microgrid
- Grand Portage Band of Chippewa Indians (Grand Portage, Minnesota) will receive assistance with a community-scale wind project
- Oneida Tribe of Indians of Wisconsin (Oneida, Wisconsin) will receive assistance with a solar photovoltaic (PV) project
- Picuris Pueblo (Peñasco, New Mexico) will receive assistance with a solar PV project
- Ute Mountain Ute Tribe (Towaoc, Colorado) will receive assistance with understanding their market and resources to help prioritize project development efforts and pursue various renewable energy projects.

## UPCOMING EVENTS

**July 16, 2015. 11 am - 12:30 pm Pacific. Webinar: [Food Security and Climate Change](#).** Climate Change for Alaska's Rural Communities webinar series. Presentation by Jessica Ryan, Interim Manager, Kachemak Bay National Estuarine Research Reserve, focusing on the impacts of climate change to food security in Alaska and food resiliency practices that are underway. For more information about the webinar series including details for each webinar, go to the website. <http://www.tcfwa.org/?q=node/131>

**July 21, 2015. 2:00 - 3:00 pm Pacific. NPLCC Science-Management Webinar: [Prioritizing restoration and enhancement of fish passage at stream-road crossings](#)**

This NPLCC-funded project with U.S. Geological Survey evaluated how climate change impacts might impact the risk of culvert failure and how to best prioritize culvert replacements. Presenters are Rachel Reagan and Jason Dunham of USGS. Register here: <http://northpacificlcc.us5.list-manage1.com/track/click?u=145bdf3c2e41f0d6cbce9a374&id=7a72fc3aa1&e=bee4a9f6f0>

**July 22, 2015. 11 am - 12:30 Pacific. Webinar: [Communicating the Connection between Climate Change and Heat Health](#).** EPA's Local Climate and Energy Program webcast. Climate change, the heat island effect, and public health are strongly connected. As temperatures rise due to climate change, the heat island effect (which causes built-up areas to be hotter than surrounding areas) is exacerbated, leading to increases in heat-related illnesses, deaths, and other health issues. This webcast will explore how public health and environmental professionals can effectively communicate and leverage these connections to raise awareness among the public and to promote progress on these issues. <https://attendee.gotowebinar.com/register/8676071799638715649>

**July 22-23, 2015. Training: [Fostering Climate Resilient Coastal Communities](#). Irvine, CA.** Learn more about how to build resilient coastal communities with available communication and planning tools, funding strategies, and resilient coastal designs. [http://files.ctctcdn.com/d332aa07201/33e441fa-c660-4f93-8c05-30645b6a5897.pdf?utm\\_source=May+19+2015+Newsletter&utm\\_campaign=Constant+Contact&utm\\_medium=email](http://files.ctctcdn.com/d332aa07201/33e441fa-c660-4f93-8c05-30645b6a5897.pdf?utm_source=May+19+2015+Newsletter&utm_campaign=Constant+Contact&utm_medium=email)

**July 23, 2015. 8:00 am Pacific. [Indigenous Community Science Seminar](#). Nisqually Indian Tribe, Department of Natural Resources. Olympia, WA**

This is a half-day seminar held by the Indigenous Water Project. This seminar will include presentations and participant discussions about recommended reading and will focus on regional and global adaptation strategies discussed in scientific and academic literature. The organizers will provide participants with recommended articles and an outline of the key points for each article. The seminar will include an introduction to climate change challenges and stages of adaptation planning and provide examples of adaptation strategies. For information on how to register, visit: <http://hozhoseminar2015.brownpapertickets.com/>

**July 27-29, 2015. Workshop: [New Mexico Community-Scale Tribal Renewable Energy Workshop](#). Albuquerque, NM.** The U.S. Dept. of Energy (DOE) Office of Indian Energy, with support from the National Renewable Energy Laboratory (NREL), is offering a series of interactive workshops that will walk participants through the process for developing community-scale renewable energy projects on tribal lands. The workshops offer a unique opportunity for participants to learn from renewable energy project experts, get hands-on experience using technology resource assessment tools,

explore project case studies, and hear about lessons learned from other Tribes. Workshop participants will learn about the five steps necessary to develop and finance renewable energy projects on tribal lands. <http://www.energy.gov/indianenergy/events/new-mexico-community-scale-tribal-renewable-energy-workshop>

**August 6, 2015. [Department of Energy Minorities in Energy Regional Climate Change Impacts Webinars](#) - Southeast and Caribbean.**

DOE will host [a series of webinars](#) highlighting the the impacts and opportunities of climate change and responses for minority communities, using information from Quadrennial Energy Review and the National Climate Assessment. Participants may [register at anytime](#) for the webinars, and the webinars will be recorded for those interested who aren't able to attend. The presenters for the Southeast and Caribbean are Jayantha Obeyesekera & Camille Coley. For more information and to register, visit: <http://www.energy.gov/diversity/mie-webinar>.

**August 11-13, 2015. [ATNI Energy Summit 2015](#). Portland, Oregon**

The Affiliated Tribes of Northwest Indians (ATNI) is hosting a three-day event and training for tribal, utility, and technology executives featuring premier policy, utility, and technology innovators as well as a showcase of the latest innovations, projects, and emerging opportunities. Technical experts from NREL will be presenting on the following topics: Energy Efficiency First for Tribal Energy Programs, How Policies and Incentives Affect Renewable Energy Development on Tribal Land, and Building Consensus for Tribal Energy Plans. Learn more about and register for the ATNI Energy Summit [here](#).

**Aug 16-21, 2015 – Eatonville, WA. [Northwest Climate Science Center Climate Boot Camp 2015](#)**

**August 17, 2015. [ITEP Training: Climate Change Adaptation Planning](#). Minneapolis, MN.** This training is being offered by the Institute for Tribal Environmental Professionals (ITEP) at the Tribal Lands and Environment Forum ([http://www4.nau.edu/itep/conferences/confr\\_tlf.asp](http://www4.nau.edu/itep/conferences/confr_tlf.asp)). This training provides an introduction to planning for climate change impacts, with an example of a tribe that has gone through the adaptation planning process. To register for the training, please email Todd Barnell ([Todd.Barnell@nau.edu](mailto:Todd.Barnell@nau.edu)).

**August 17-20, 2015. Conference: [Tribal Lands and Environment Forum](#) Minneapolis, MN.** Hosted by the Institute for Tribal Environmental Professionals, National TWRAP Steering Committee, and USEPA's Office of Solid Waste and Emergency Response (OSWER). The forum will feature special trainings, field trips, and breakout sessions focused on solid/hazardous waste management, brownfields, UST/LUSTs, Superfund sites, and emergency response, as well as sessions focused on water quality, drinking water, and habitat restoration (including wetlands, streams and fisheries) and on climate change. [http://www4.nau.edu/itep/conferences/confr\\_tlf.asp](http://www4.nau.edu/itep/conferences/confr_tlf.asp)

**August 21, 2015 - 8:00 a.m. to 12:00 p.m [Beaver Restoration Workshop](#), Portland, Oregon.**

**August 24-25, 2015. Conference: [California Climate Change Symposium 2015](#). Sacramento, CA.**

Convened by the California Natural Resources Agency, the California Environmental Protection Agency and the Governor's Office of Planning and Research. Forum for the sharing of cutting-edge research addressing the impacts of climate change on the state. This research informs the state's strategies and policies to reduce greenhouse gas emissions and to develop programs to safeguard California from a changing climate.

<http://californiascience.org/>

**September 1-3, 2015. Workshop: [Colorado Community-Scale Tribal Renewable Energy Workshop](#). Golden, CO.** The U.S. Dept. of Energy (DOE) Office of Indian Energy, with support from the National Renewable Energy Laboratory (NREL), is offering a series of interactive workshops that will walk participants through the process for developing community-scale renewable energy projects on tribal lands. The workshops offer a unique opportunity for participants to learn from renewable energy project experts, get hands-on experience using technology resource assessment tools, explore project case studies, and hear about lessons learned from other Tribes. Workshop participants will learn about the five steps necessary to develop and finance renewable energy projects on tribal lands. <http://www.energy.gov/indianenergy/events/colorado-commercial-scale-tribal-renewable-energy-workshop>

**September 3, 2015. [Department of Energy Minorities in Energy Regional Climate Change Impacts Webinars](#) - Alaska.**

DOE will host [a series of webinars](#) highlighting the the impacts and opportunities of climate change and responses for minority communities, using information from Quadrennial Energy Review and the National Climate Assessment. Participants may [register at anytime](#) for the webinars, and the webinars will be recorded for those interested who aren't able to attend. The presenter for the Alaska webinar is Sarah Trainor. For more information and to register, visit: <http://www.energy.gov/diversity/mie-webinar>.

**September 24-25, 2015. [National Tribal Energy Summit](#). Washington, D.C.** The National Summit supports the Obama Administration's ongoing commitment to assist tribal efforts to enhance energy security, increase community resiliency, and cultivate a sustainable energy future. The event will highlight challenges and showcase opportunities in the areas of: Science and technology, policy, and the regulatory environment; Community- and commercial-scale energy project development; Tribal education and workforce development; Federal procurement; and Energy sector supply chain participation. Representatives from federal agencies, state and tribal governments, tribal corporations, private industry, utilities, and academia will come together with scientists, educators, analysts, and experts in energy policy, regulation, financing, and technology-to-market to exchange ideas and explore solutions. [Download the postcard for more information](#). Additional details about the location and how to register will be provided in the coming weeks. In the meantime, questions may be directed to Ana M. Han at 202-586-9820. For more information, [click here](#).

**October 1, 2015. [Department of Energy Minorities in Energy Regional Climate Change Impacts Webinars](#) - Midwest.**

DOE will host [a series of webinars](#) highlighting the the impacts and opportunities of climate change and responses for minority communities, using information from Quadrennial Energy Review and the National Climate Assessment. Participants may [register at anytime](#) for the webinars, and the webinars will be recorded for those interested who aren't able to attend. The presenter for the Midwest webinar is Sara Pryor. For more information and to register, visit: <http://www.energy.gov/diversity/mie-webinar>.

**November 2-3, 2015. [Southwest Climate Summit: Bridging the Gap: Collaborative Science for Adaptive Management](#).** Join the Southwest Climate Science Center (SW CSC) for a 2-day conference, **November 2-3, 2015**, that brings together scientists and managers to share emerging climate science, Climate-Smart Conservation results, management and policy responses, and lessons learned across the Southwest. The conference, held in Sacramento, California, will feature presentations



by leading thinkers, oral and poster sessions, and workshops designed to engage participants in building collaborative partnerships for resilient southwestern landscapes. For more information: <http://www.swcsc.arizona.edu/content/2015-southwest-climate-summit>

**November 4-5, 2015. [Sixth Annual Pacific Northwest Climate Science Conference](#)**, Coeur d'Alene, ID. The PNW Climate Science Conference annually brings together more than 250 researchers and practitioners from around the region to discuss scientific results, challenges, and solutions related to the impacts of climate on people, natural resources, and infrastructure in the Pacific Northwest. It is the region's premier opportunity for a cross-disciplinary exchange of knowledge and ideas about regional climate, climate impacts, and climate adaptation science and practice.

**November 5, 2015. [Department of Energy Minorities in Energy Regional Climate Change Impacts Webinars - Hawai'i and Pacific Islands](#).**

DOE will host [a series of webinars](#) highlighting the the impacts and opportunities of climate change and responses for minority communities, using information from Quadrennial Energy Review and the National Climate Assessment. Participants may [register at anytime](#) for the webinars, and the webinars will be recorded for those interested who aren't able to attend. The presenters for the Hawai'i and Pacific Islands webinar are Jo-Ann Leong & Victoria Keener. For more information and to register, visit: <http://www.energy.gov/diversity/mie-webinar>.

**December 3, 2015. [Department of Energy Minorities in Energy Regional Climate Change Impacts Webinars - Great Plains](#).**

DOE will host [a series of webinars](#) highlighting the the impacts and opportunities of climate change and responses for minority communities, using information from Quadrennial Energy Review and the National Climate Assessment. Participants may [register at anytime](#) for the webinars, and the webinars will be recorded for those interested who aren't able to attend. The presenter for the Great Plains webinar is Bull Bennett. For more information and to register, visit: <http://www.energy.gov/diversity/mie-webinar>.

**January 7, 2016. [Department of Energy Minorities in Energy Regional Climate Change Impacts Webinars - Southwest](#).**

DOE will host [a series of webinars](#) highlighting the the impacts and opportunities of climate change and responses for minority communities, using information from Quadrennial Energy Review and the National Climate Assessment. Participants may [register at anytime](#) for the webinars, and the webinars will be recorded for those interested who aren't able to attend. The presenter for the Southwest webinar is Hilda Blanco. For more information and to register, visit: <http://www.energy.gov/diversity/mie-webinar>.

**February 4, 2016. [Department of Energy Minorities in Energy Regional Climate Change Impacts Webinars - Northwest](#).**

DOE will host [a series of webinars](#) highlighting the the impacts and opportunities of climate change and responses for minority communities, using information from Quadrennial Energy Review and the National Climate Assessment. Participants may [register at anytime](#) for the webinars, and the webinars will be recorded for those interested who aren't able to attend. For more information and to register, visit: <http://www.energy.gov/diversity/mie-webinar>.

## **News, Publications and Resources**

### **National Adaptation Forum Sessions Online**

National Adaptation Forum 2015 [presentations and posters](#) are now available on the [National Adaptation Forum website](#) under the [Program](#) tab. You can also visit the expanding Climate Adaptation Knowledge Exchange ([cakex.org](#)) regularly to review the [case study database](#), the [virtual library](#), and the growing [tools section](#), which includes new resources such as the USFS [Adaptation Workbook for Forest Management](#) with [Demonstration Projects](#). If you don't find a presentation you were looking for, please know we are still working with a handful of presenters to gather additional information needed to share their efforts. We will be loading these presentations as they are completed. If you still need to provide us with your presentation, please email us at [info@nationaladaptationforum.org](mailto:info@nationaladaptationforum.org) and we will work with you to get it up on the Forum website.

### **The Beaver Restoration Guidebook: Working with Beaver to Restore Streams, Wetlands, and Floodplains**

In 2013, the NPLCC partnered with U.S. Fish & Wildlife, NOAA, Portland State University, and the U.S. Forest Service to develop a comprehensive guide on using beaver for stream restoration. Throughout the past year, five sold out workshops were held to share information from this developing guidebook with over 200 land managers currently working with, or interested in, using beaver in restoration projects. Workshop participants provided input and feedback into the guidebook, and we are pleased to announce its finalization and official release. The goal of this guidebook is to provide an accessible, useful resource for anyone involved in using beaver to restore streams, floodplains, wetlands, and riparian areas. It provides a practical synthesis of the best available science, an overview of management techniques, and case studies from throughout the western US. To download the guidebook, [click here](#).

### **New Fire Science Digest: Traditional Ecological Knowledge: A Model for Modern Fire**

**Management?** The interagency Joint Fire Science Program has released its latest issue of the Fire Science Digest. This issue discusses how state-of-the-art management strategies might benefit from an infusion of ancient indigenous wisdom and outlines efforts to braid traditional ecological knowledge with Western science. <http://www.firescience.gov/Digest/FSdigest20.pdf>

**EPA: New Report on Benefits of Taking Action on Climate Change.** The Environmental Protection Agency released a new report, [Climate Change in the United States: Benefits of Global Action](#), that estimates the physical and monetary benefits to the U.S. of reducing global greenhouse gas emissions. This report summarizes results from the Climate Change Impacts and Risks Analysis (CIRA) project, a peer-reviewed study comparing impacts in a future with significant global action on climate change to a future in which current greenhouse gas emissions continue to rise. The report shows that global action on climate change will significantly benefit Americans by saving lives and avoiding costly damages across the U.S. economy.

**White House: New Climate Data and Tools for Transportation.** The White House announced new climate data and tools for the transportation sector. These resources include over 90 Federal datasets available through the [Climate Data Initiative](#) and case studies, visualizations, and other science-based resources available through the [Climate Resilience Toolkit](#).

**[Alaskans Sharing Indigenous Knowledge \(AKSIK.org\) project.](#)** A science and advocacy project documenting the impacts of climate change in two Native communities in Alaska and communicating

their adaptation needs - now has a new film on its website. The new video entitled Stay and Defend is the debut film by David Smith and documents how this village of 250 people is struggling to build a protective berm to guard against increasingly severe storms. You can view the film at: <http://aksik.org/content/stay-and-defend>. This is the sixth film on the impacts of climate change on Native peoples on our website. Please share with other interested networks and parties.

### **The Arctic Adaptation Exchange**

The Arctic Adaptation Exchange (AAE) facilitates knowledge exchange on climate change adaptation in the Arctic, and serves as a central information hub for communities, researchers and decision-makers in the public and private sectors. The AAE is a platform for individuals and organizations focused on northern issues to explore how others in the Arctic region have responded to the challenges and opportunities presented by climate change; share experiences and information on climate change impacts and adaptation initiatives and tools; and connect with others who have experience and knowledge.

### **Adaptation Workbook (NIACS)**

This is a new web-based tool by the Northern Institute of Applied Climate Science (NIACS). The Adaptation Workbook is a structured process to consider the potential effects of climate change on forest ecosystems and design forest management and conservation actions that can help prepare for changing conditions. The process is completely flexible to accommodate a wide variety of geographic locations, scales, forest types, management goals, and ownership types. <http://www.adaptationworkbook.org/>

### **Climate Registry for the Assessment of Vulnerability (CRAVe) (NCCWSC)**

The USGS National Climate Change and Wildlife Science Center worked with the non-profit EcoAdapt and other partners to develop this tool which will house metadata on climate change vulnerability assessments from across the nation and will be made available for searching by the general public. <https://nccwsc.usgs.gov/crave/>

### **Lessons Learned by Communities for Communities**

EPA's Local Climate and Energy Program released several new resources for local climate and energy program staff. This latest round of resources are written by communities, for communities. Each resource was driven by community needs, inspired by actual implementation experiences, and informed by staff who have developed successful climate and energy programs. Each resource provides concrete steps for communities to follow when building or growing a climate and energy program: the focus is on practical, how-to implementation information: Local Climate Action Framework: A Step-by-Step Implementation Guide: <http://epa.gov/statelocalclimate/local/implementation/>; Effective Practices for Implementing Local Climate and Energy Programs Tip Sheets: <http://epa.gov/statelocalclimate/local/showcase/csc-learn.html>, Local Climate and Energy Program Model Design Guide: <http://epa.gov/statelocalclimate/local/showcase/csc-learn.html#designguide>

### **Local Government Climate Adaptation Training (USEPA)**

The U.S. Environmental Protection Agency released an online training module to help local government officials take actions to increase their communities' resiliency to a changing climate. The virtual training, which was informed by the National Climate Assessment released last year, was developed with advice from EPA's Local Government Advisory Committee and is the latest addition to the U.S. Climate Resilience Toolkit announced in November 2014. It includes successful examples of effective resilience

strategies that have been implemented in cities and towns across the country.

<http://www.epa.gov/localadaptationtraining/>

### **NW Climate Magazine**

This is a new annual publication from the Northwest Climate Science Center, the Climate Impacts Research Consortium and the North Pacific Landscape Conservation Cooperative aimed at sharing stories about Northwest climate research.

<https://www.nwclimatescience.org/nw-climate-magazine>

### **2014 Highlights of Progress and 2015 Implementation Plan for the National Action Plan: Priorities for Managing Freshwater Resources in a Changing Climate**

This report highlights progress made in implementing the National Action

Plan ([https://www.whitehouse.gov/sites/default/files/microsites/ceq/2011\\_national\\_action\\_plan.pdf](https://www.whitehouse.gov/sites/default/files/microsites/ceq/2011_national_action_plan.pdf))

and describes the specific tasks that federal agencies are planning to undertake in 2015.

[http://acwi.gov/climate\\_wkg/NAP\\_2014\\_implementation\\_plan&2013\\_highlights\\_final3-24-14a.pdf](http://acwi.gov/climate_wkg/NAP_2014_implementation_plan&2013_highlights_final3-24-14a.pdf)

### **New Publication: Climate Change Adaptation in Indian Country: Tribal Regulation of Reservation Lands and Natural Resources.**

<http://web.wmitchell.edu/law-review/wp-content/uploads/2015/03/3.-Ford-Website.pdf>

**ITEP video Adapting to Change:** The Institute for Tribal Environmental Professionals (ITEP) produced the video Adapting to Change with assistance from Jeremy Scott, a graduate student in Northern Arizona University's School of Communication. The filming occurred at ITEP's Climate Change Adaptation training in September 2014 in Portland, OR. The film highlights climate change impacts on tribes and their resources in the Pacific Northwest and Alaska, adaptation, and the training. The video and the training were made possible with funding support from the USDA Forest Service PNW Research Station. <http://vimeo.com/118150835>

**ITEP Tribal Climate Change Fact Sheets:** The Institute for Tribal Environmental produces 2-page fact sheets that focus on climate change impacts, adaptation strategies, and other relevant topics. They may be used in outreach with tribal government staff, leadership and communities. Two recent fact sheets focus on climate change mitigation and solid waste and climate change and human health and are attached below. [http://www4.nau.edu/tribalclimatechange/resources/res\\_factsheets.asp](http://www4.nau.edu/tribalclimatechange/resources/res_factsheets.asp)

### **REGIONAL AND NATIONAL CLIMATE CHANGE RESOURCES, NEWSLETTERS AND CALENDARS**

[ITEP Tribes and Climate Change Newsletter](#)

[PNW Tribal Climate Change Project](#) and [Funding Guide](#)

Climate Adaptation Knowledge Exchange (CAKE): events: <http://cakex.org/community/events>.

[Northwest Climate Science Center](#) and [NPLCC Northwest Climate Digest](#); [NW CSC Calendar](#)

[Northwest Climate and Related Data](#)

Resources: [https://www.nwclimatescience.org/nw\\_data\\_resources](https://www.nwclimatescience.org/nw_data_resources)

[USDA Climate Hubs](#)

[EPA's Stormwater Calculator](#)

[EPA's Climate Resilience Evaluation and Awareness Tool](#)

Climate Resilience Toolkit: <http://toolkit.climate.gov/tools>

[Columbia River Intertribal Fish Commission Climate Change Resources](#)

[Climate Change Resource Center Education Modules](#): <http://www.fs.usda.gov/ccrc/climate-basics/education>