

Celebrating 25 years of improving local environmental health in Alaska



ATCEM

Alaska Tribal Conference on Environmental Management



Nov 19-22, 2019
Anchorage, Alaska

SAFE, HEALTHY AND
SUSTAINABLE ALASKA
COMMUNITIES



ALASKA NATIVE
TRIBAL HEALTH
CONSORTIUM

The Alaska Tribal Conference on Environmental Management, organized by the Alaska Native Tribal Health Consortium, is an annual gathering that brings tribes, local, regional, state and federal organizations, and agencies together for learning, sharing and networking – with a focus on Alaska’s unique environmental health challenges and solutions.

**We are excited to welcome all of our
2019 ATCEM Participants and Presenters!**



GENERAL INFORMATION

MASTER OF CEREMONIES



Jacqueline Qataliña Schaeffer – We are pleased to announce Jacqueline Schaeffer as our gracious master of ceremonies (MC) for this year's ATCEM. Jackie is an Iñupiaq from Kotzebue, Alaska. She is currently a Senior Project Manager for the Division of Environmental Health and Engineering at the Alaska Native Tribal Health Consortium. She has worked in comprehensive planning, energy, housing, and water/sanitation in rural communities across Alaska, utilizing a holistic approach to project development. Her passion has led her to infuse traditional Inuit knowledge into strategic planning to change the “top down” approach into a locally driven, grassroots approach. Jackie believes her ancestors' traditional knowledge will help bridge gaps

in our multicultural lifestyles and create balance in how we adapt to our rapidly changing climate. Her current work includes innovative sanitation solutions for unserved communities, tribal resiliency adaptation planning, and community engagement for relocation.

NAME BADGES

Name badges serve as conference attendees' entrance pass to all breakout sessions, meals, and events. Please wear your nametag at all times.

SILENCE CELL PHONES

Please remember to turn off or silence your cell phones during all sessions. If you need to take a call, please step outside the session.

EMERGENCIES

Dial 0 for the Hilton Anchorage hotel operator from any house phone and they will dispatch security, or call direct at 272-7411 and ask for the operator. You can also dial 911.

HILTON ANCHORAGE HOTEL CONTACT INFORMATION

500 W. Third Ave., Anchorage, Alaska 99501, 907-272-7411, www.hiltonanchorage.com

PARKING

The Hilton Anchorage offers valet parking at a rate of \$32 per day. Additional parking near the hotel is also available at the following locations:

- Lower Bowl (Third Avenue & E Street), 225 E St.: \$1/hour
- Post Office Mall, 344 W. Third Ave.: \$1/hour
- Fifth Avenue & B Street Garage, 420 B St.: \$1/hour

MESSAGES

A message board will be located at the registration desk on the second floor. Messages can be called in to the Hilton Anchorage at 907-272-7411. Please ask that the message be delivered to the Alaska Tribal Conference on Environmental Management registration desk.

BUSINESS CENTER/ INTERNET

The Hilton Anchorage Hotel has a business center located on the lobby level. Wireless internet will be available in the meeting spaces.

OPENING CEREMONY

8:00AM – 9:30AM

ANTHC WELCOME



Mike Brubaker - Mike Brubaker has been working in the Alaska tribal health system for over twenty years. His work focuses on environmental health, health impact assessments, climate change, and achieving safe, healthy, sustainable communities. He was born in Juneau and raised in Anchorage. He earned a B.S. in Biology from St. Lawrence University and a M.S. in Environmental Management from the University of San Francisco. He spent ten years as Community Services Director at the Aleutian Pribilof Islands Association, a regional tribal non-profit health consortium serving the Unangan population in southwestern Alaska. He has spent the past ten years working for the statewide arm of the tribal health system where he directs Alaska Native Tribal Health Consortium's Community Environment & Health Department. Mike co-founded and directs the Local Environmental Observer Network and is managing editor of the weekly e-journal, The Northern Climate Observer. He is associate faculty at Alaska Pacific University where he directs the Center for Climate and Health. Mike lives in Anchorage with his wife and four children.

KEYNOTE SPEAKERS



Santina Gay - With over two decades of experience working for U.S. Environmental Protection Agency as an Alaska Tribal Coordinator, Santina Gay has had the privilege of taking part in the evolution and impact that IGAP has had on Alaskan communities over time. She has developed and delivered technical training, facilitated consults with Tribal governments in Alaska, served as a creative springboard for community improvement projects around the state, and assisted tribes with day-to-day activities and solutions related to environmental program development. Santina has served as US Government (USG) lead to expansion projects under the trilateral North American Commission for Environmental Cooperation whose project funding enables key deliverables in Canada, Mexico, and the US. She leads USG efforts during community workshops in Russia, Canada, Finland, Norway, and Sweden, to instruct all levels of government in collaborative solutions to environmental issues. In the Arctic Council, she is a Project Lead for the Arctic Contaminants Action Program (ACAP) Working Group, which focuses on pollution and short-lived climate drivers, and has recently begun work on waste to address small community challenges regarding efficient waste management. Santina attended Arizona State University for her undergraduate education and Northern Arizona University for graduate school. She aspires to a lifetime of learning from her three strong, caring, talented children.



Laurel Katchatag - Laurel Aiyaapiin Katchatag is from Unalakleet, Alaska. Her parents are Sheldon & Darlene Katchatag and her grandparents are the late Hans & Grace Jemewouk of Elim and the late Stanton and Irene Katchatag of Unalakleet. She graduated from Frank A. Degnan High School in 2014 and received her B.S. in Biology from North Park University in 2018. She has worked for Norton Sound Health Corporation (NSHC) for the last two years, in the office of the President/CEO Angie Gorn. In her time at NSHC, Laurel has worked on community wellness events and health promotion. She participated in the 2017-2019 cohort of Arctic Youth Ambassadors program, focusing on sharing a youth voice on what it means to live in the Arctic.

TRACKS AND SESSIONS

9:40AM – 10:40AM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

IMPACTS TO TRIBES IN BLM RESOURCE MANAGEMENT PLANNING

The U.S. Bureau of Land Management (BLM) is currently undertaking two planning processes to determine the allowable uses of over 26 million acres of tribal land, now managed by the BLM. Once completed, the new plan will be in place for the next 20 to 30 years. Over 80 federally recognized Alaska Native tribes live within the Central Yukon and Bering Sea-Western Interior planning areas. Many of these tribes nominated local watersheds for protection in the planning process, yet none of them received protection in BLM's preferred proposed plan. More than 20 tribes have signed a letter asking BLM for the following: to seriously consider tribal concerns, to collaborate better with tribes in the planning process, and to make changes in the final plan to create greater balance and provide protections for tribal watershed nominations.

Presenter: Suzanne Little, Bering Sea-Western Interior Tribal Commission

COMMUNITY HEALTH: KING SALMON ROOM

MERCURY RELEASE TO THE ENVIRONMENT

Permafrost stores a significant amount of mercury (Hg), and permafrost regions store twice as much Hg as all other soils, the ocean, and atmosphere combined. Thawing permafrost in a warming climate may release Hg into the environment. To assess this possibility, we estimated future releases of Hg from thawing permafrost for different carbon emission scenarios. For the high emissions scenario, Hg exceeds EPA limits to water and food supplies within a hundred years.

Presenter: Paul Schuster, U.S. Geological Survey

PERMAFROST DEGRADATION & POTENTIAL RISKS FOR LOCAL COMMUNITIES IN ALASKA

Permafrost underlines about 80% of the State of Alaska. It's a crucial component in hydrological and ecological systems of this region. Recently, permafrost is undergoing dramatic changes. Degradation of permafrost initiates consequences that might be harmful for local indigenous communities. Thus, melting of ground ice will lead to ground surface collapse, formation of sinkholes, and wetlands extension. From another side within some areas, deepening of seasonal thawing will lead to soil drought and will affect changes of ecosystems and increase the risk of wildfires. The main goal of this session is to inform people about such potential hazards and obtain feedback about their worries and concerns associated with ongoing environmental changes.

Presenter: Alexander Kholodov, University of Alaska Fairbanks

SOLID & HAZARDOUS WASTE: ASPEN ROOM

USING SCIENCE TO MANAGE YOUR LANDFILL AND REDUCE HEALTH RISKS

Remember how fun science was in school? This presentation looks at how environmental science basics can help you make good management decisions about your landfill and what program actions might be the highest priority for protecting community health. By using typical landfill issues as examples, we look at how to tell what waste situations present a risk and how different chemicals can act differently and move in the environment differently. At the end, you will have learned some ways to reduce the zone of impact from your landfill so that your lands and community are better protected. And we will have fun doing it! We'll play Jeopardy at the end and there will be prizes!

Presenter: Dr. Lynn Zender, Zender Environmental Health and Research Group

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

STARTING AIR QUALITY CONVERSATIONS IN COMMUNITIES

The Institute for Tribal Environmental Professionals staff have a wide variety of air quality (AQ) and indoor air quality materials and resources that you will find useful as you discuss AQ (ambient and indoor) issues with community members and students. The presentation will include AQ learning demonstrations, as well as a display of the Tribal

Healthy Homes Network Air Matters Kit and the University of Arizona Asthma Walk. The first 30 participants will receive a USB Memory Drive with a variety of resources, including videos that can help share important ideas about AQ. Alaska Native Tribal Health Consortium's (ANTHC's) Tribal Air Quality Program will also share their resources with participants, including information on their mini-grant program.

Presenters: Mansel Nelson, Institute for Tribal Environmental Professionals; Abby Nelson, Alaska Native Tribal Health Consortium

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

ALASKA BLANKET EXERCISE

The Alaska Blanket Exercise is a participatory history lesson developed in collaboration with Alaska Native Elders, knowledge keepers, and educators, that fosters truth, understanding, respect, and reconciliation among Indigenous and non-Indigenous peoples. Through an experiential learning activity, participants will walk on blankets representing the land and into the role of Alaska Native people by reading scrolls and carrying cards which ultimately determine their outcome, as they literally "walk" through situations that include pre-contact, colonization, and resistance.

Presenters: Maria Crouch & Jolene Telford, Alaska Native Tribal Health Consortium

CONTAMINATION SUPPORT: ILIAMNA ROOM

FROM SPILL RESPONSE TO CONTAMINATED SITE CLOSURE

Join the Alaska Department of Environmental Conservation (ADEC) Contaminated Sites program to discuss how ADEC's Division of Spill Prevention and Response is organized into separate sections, how a site gets transferred from the Spill Response Program to the Contaminated Sites Program, and how sites get closed in the Contaminated Sites Program.

Presenters: Lisa Griswold & Bill O'Connell, Alaska Department of Environmental Conservation

INTRODUCTION TO SPILL RESPONSE KITS

Do you have a spill response kit in your community? Do you know where it is and how to use it? This session will cover the importance of having a spill response kit in your community, the typical items you might find in a spill kit and how to use them, and how to properly store and maintain a spill kit. Items will be demonstrated using a real 55-gallon universal spill response kit.

Presenter: Bailey Richards, Alaska Native Tribal Health Consortium

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

HOW CAN WE WORK BETTER TOGETHER? LINKING ENVIRONMENTAL MONITORING EFFORTS ACROSS THE NORTH

Across the north, there exist numerous environmental monitoring programs to collect critical information related to our natural resources and changing climate. However, connection and coordination among programs are fairly limited, resulting in duplication of efforts and fragmented information. Please join us in a dialogue to provide ideas and feedback for the launch of a collaborative effort that will help link existing monitoring efforts across large regions. This 2-year project, led by a diverse team representing dozens of entities in Alaska and western Canada, aims to: 1) better understand important phenomena and dynamics that can only be observed by examining information across large landscapes (e.g., wildlife migration patterns, shifting climate patterns, species and habitat shifts); 2) address shared needs while reducing duplication and leveraging limited resources; and 3) support and strengthen community-based monitoring programs.

Presenters: Leanna Heffner, Northwest Boreal Landscape Conservation Cooperative; Aaron Poe, Aleutian & Bering Sea Initiative

11:00AM – 12:00PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

THE IMPORTANCE OF COMPREHENSIVE MASTER PLANNING AND ITS CONNECTION TO PUBLIC HEALTH

A comprehensive plan is a long-range plan for a village, which captures the vision of where the community wants to be at some point in the future. It is an all-inclusive approach to analyzing and evaluating the future growth of a community.

Planning in the U.S. originated with a public health purpose. However, this focus changed over time, with government planners' attention focused more on land use and transportation. Today, local governments are beginning to include goals and objectives that promote public health into their comprehensive plans. We will discuss ideas for future planning paradigms in an Alaskan context.

Presenters: Cheryl Rosa, U.S. Arctic Research Commission; Jackie Qatalina Schaffer, Alaska Native Tribal Health Consortium

COMMUNITY HEALTH: KING SALMON ROOM

PLANTING THE SEEDS

This session will discuss resilience and wellness, which are rooted in all cultures and communities across Alaska. These diverse cultures incorporate connection, belonging, and healing into community practices. Whatever land you are on holds cultural knowledge and traditional practices and there are culture-bearers that can share that knowledge with you. All human beings in all cultures experience challenges in life. Traditional practices and ceremonies function to restore balance back to the individual and community and nurture wellness. We will discuss how these practices plant seeds of wellness that can be used to regain balance throughout life when faced with overwhelming challenges.

Presenter: LaVerne Demientieff, University of Alaska Fairbanks

SOLID & HAZARDOUS WASTE: ASPEN ROOM

COMPOSTING AT HOME - THE OTHER GOLD STRIKE

Do you hate your stinky garbage reeking up the house? Want to know how to turn your kitchen scraps into "black gold" - i.e. nutrient-rich, healthy soil for indoor plants and outdoor gardens? Come learn a simple and effective method to composting at home (or with neighbors), even in rural Alaska. By composting, you can not only reduce the waste that your household produces by up to 1/3, but also help the fight against climate change by reducing the methane emissions from your landfill AND create a valuable end product. Presentation complete with tips, tricks, and adaptations to Alaska's unique environment.

Presenter: Tait Chandler, Executive Director of GreenStar of Interior Alaska

GUSTAVUS COMMUNITY SPOTLIGHT: COMPOSTING, RECYCLING, AND MORE

Gustavus does it all! They recycle, run a baler, compost, and operate their landfill flawlessly. They also sell fun compost shirts because their composting program is so amazing. Want to know how they do it? Come and find out!

Presenter: Paul Berry, Gustavus Landfill Operator & Compost Guru at Zender Environmental Health and Research Group

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

LEVELOCK FIRE 2019

This session will discuss the wildfire that triggered the evacuation of the Village of Levelock in August 2019, where there was no emergency plan in place and the only fire truck was broken down. Village Council Member Janice Chukwak will describe the events leading to the evacuation, the evacuation itself, and Levelock's plans to handle wildfire emergencies in the future.

Presenter: Janice Chukwak, Native Village of Levelock;

FIREWISE ALASKA COMMUNITIES

The Firewise Communities Program managed by the Alaska Department of Natural Resources (ADNR), and the Alaska Wildfire Coordinating Group. This presentation will go over planning and consultation resources available to rural Alaska communities through the Firewise Communities Program, including the development of community wildfire protection plan, community certification to become a Firewise community, and available fire assistance grants through state and federal agencies.

Presenters: Paul Goodfellow, Alaska Department of Environmental Conservation; Stephanie Bishop, Alaska Department of Natural Resources

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

ALASKA BLANKET EXERCISE DEBRIEF - TALKING CIRCLE

Join us for a Talking Circle debrief from the previous Alaska Blanket Exercise session.

Presenters: Maria Crouch & Jolene Telford, Alaska Native Tribal Health Consortium

CONTAMINATION SUPPORT: ILIAMNA ROOM

ESTABLISHING A THPO IN ALASKA: WHY AND WHAT HISTORIC ISSUES CAN BE ENCOUNTERED IN BROWNFIELD CLEANUPS

This session will address two issues: 1) Why should an Alaska tribe establish a Tribal Historic Preservation Office (THPO) and what are the advantages? 2) What issues can arise when conducting a cleanup or remediation of a brownfield site that is also a historic site or building and how can they be addressed?

Presenters: McKensie Johnson, Alaska State Historic Preservation Office; Mickey Hartnett, Kansas State University; Abigail Jack-Brown (remotely), Village of Kake

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

SEABIRDS AS SENTINELS OF CHANGE: UNUSUAL MORTALITY IN ALASKA WATERS

Mass mortality of seabirds is among many concerning signals of climate change. A network of organizations including the Coastal Observation and Seabird Survey Team, U.S. Fish and Wildlife Service, and National Park Service, along with individuals and communities, are involved in tracking, responding to, and sharing information about these events.

Presenters: Hillary Burgess, Coastal Observation and Seabird Survey Team and the University of Washington; Stacia Backensto, National Park Service

1:30PM – 2:30PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

INFRASTRUCTURE PROTECTION AND ASSESSMENTS THROUGH AN INDIGENOUS VIEW

This session is a look at how climate impacts are endangering our core infrastructure in rural Alaska. Innovative engineering and creative thinking are key factors in how we adapt to the future. How do we take our thought process and change the way we look at climate and water systems? How will we change our current project implementation process to sustain extreme climate impacts of the future?

Presenter: Jackie Qataliña Schaffer, Alaska Native Tribal Health Consortium

WATER IS LIFE EDUCATION & OUTREACH CURRICULUM SHARING

Water is Life is a collaborative outreach project that centers on local culture in the quest to improve sustainable access to safe water. The National Tribal Water Center developed a Water is Life curriculum to guide interested leaders in carrying out this outreach project in their own community. This presentation will also cover how to apply for EPA IGAP funding to accomplish a Water is Life project in your community.

Presenter: Marleah LaBelle, Alaska Native Tribal Health Consortium

COMMUNITY HEALTH: KING SALMON ROOM

WHY ARE THERE TOXINS IN YOUR COUCH, PAJAMAS, AND COOKING PANS?

Join us to learn about the Toxic Substances Control Act and the way the Environmental Protection Agency (EPA) regulates toxic chemicals in consumer products. Learn about the National Tribal Toxics Council and its work towards including tribes in the risk assessment process for toxic substances. Alaska tribes are currently not represented in EPA's risk evaluation and we will discuss ways you can get involved in this process.

Presenters: Lina Shea & Lynn Zender, Zender Environmental Health and Research Group

SOLID & HAZARDOUS WASTE: ASPEN ROOM

PERSONAL PREPAREDNESS AT HOME: ARE YOU READY FOR ZOMBIES?

There are all kinds of emergencies out there that we can prepare for. Take a zombie apocalypse for example. That's right, I said z-o-m-b-i-e a-p-o-c-a-l-y-p-s-e. You may laugh now, but hey, maybe you'll learn a thing or two about how to prepare for a real emergency or disaster. Come find out what you need to do before zombies... or earthquakes or floods, for example, actually happens.

Presenter: Michelle Torres, Division of Homeland Security & Emergency Management

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

BED BUG BASICS - HOW RURAL ALASKANS CAN CONTROL BED BUGS

Bed bugs continue to be a challenge across Alaska. The good news is you can control bed bugs yourself. Pesticides are not required. Professional help is not required. Throwing out all your stuff is not required. This session explains how to inspect for bed bugs and effective steps you can take to control them.

Presenter: Karin Hendrickson, Alaska Department of Environmental Conservation

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

CULTURE HEALS: TOXIC STRESS AND COMMUNITY RESILIENCE

This session will explore how history, context, and culture shape the human brain, manifest in behavior, and pass along through the generations. The impact of toxic stress on brain development will be examined as well as the role of traditional cultural practices as mechanisms of individual and community resilience and healing.

Presenter: Dr. Rebecca Robinson, Alaska Native Tribal Health Consortium

CONTAMINATION SUPPORT: ILIAMNA ROOM

TRIBAL RESPONSE PROGRAM HOUR - BROWNFIELDS 055

Are you interested in learning more about brownfield sites? Come to our hands-on activity that will explain what a brownfield site is, the benefits to cleaning up and redeveloping brownfields, and the community visioning process for redeveloping a site!

Presenters: Jasmin Munoz & Bailey Richards, Alaska Native Tribal Health Consortium

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

A LOOK AT LCC PARTNERSHIPS & WHY THE FUTURE OF OUR EARTH REQUIRES COLLABORATION

Alaska's Landscape Conservation Cooperatives (LCCs) bring together diverse groups of individuals who work to support collaborative stewardship of natural resources, protect traditional knowledge and practices, promote sustainable economic development, and enhance resiliency in lands, waters, and peoples. The session includes an interactive partnership mapping exercise that offers a visual interpretation of our networks across the state. This opportunity for audience sharing will emphasize the importance of our partnerships and connections. In the face of a changing earth, LCCs provide space for creative collaboration across diverse landscape conservation. Highlights of ongoing LCC projects will also be provided.

Presenters: Danielle Stickman, Western Alaska LCC and Alaska Conservation Foundation; Leanna Heffner, Northwest Boreal LCC; Aaron Poe

2:50PM – 3:50PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

HOUSEHOLD WATER AND SANITATION STRATEGIES IN UNPIPED COMMUNITIES AND WAYS TO MOVE FORWARD

A research team from ANTHC has collected in-depth information on water, toilet, indoor air, and cleaning practices in three communities without piped water and is investigating new and innovative projects to decrease exposure to germs by improving access to water in the home and the handling of greywater and human waste. We want to share our

research findings and connect with community members who have or are living in unserved communities to hear about your experiences and ideas for improving health and well-being.

Presenters: Kaitlin Mattos & Laura Eichelberger, Alaska Native Tribal Health Consortium

COMMUNITY HEALTH: KING SALMON ROOM

DEVELOPING CANCER CONCERN GROUP IN ALASKA

Cancer in Alaska is personal: all of us know someone whose life has been touched by this disease. In response to your concerns, we are putting together a multi-agency group of public health professionals who work directly in cancer prevention and control. Our goal is that our agencies provide more complete, coordinated responses to your cancer concerns. The workgroup is in its early stages, so we are interested in hearing lessons learned from others who have developed similar collaborations. Please join us to share ideas about the workgroup's goals and processes.

Presenters: Sarah Nash, Alaska Native Tribal Health Consortium; Joe Sarcone, Alaska Pacific University

SOLID & HAZARDOUS WASTE: ASPEN ROOM

MAKE SENSE OF THE CRAZY! HOW TO STAY ORGANIZED AS AN IGAP COORDINATOR

Learn how to keep everything organized so you can excel with IGAP and other projects. Chalkyitsik's Environmental Program has achieved a lot and being organized has helped get grants and implement projects. In the past few years, Chalkyitsik has backhauled 60,000 pounds of material, hired their first Landfill Operator, and moved their office into a new building they built using IGAP funding. Come and find out how they did it!

Presenter: Patricia Salmon, Chalkyitsik Environmental Director

CLIMATE CHANGE, TRASH, AND SALMON

Climate Change and garbage: Chalkyitsik was surrounded by fire this summer. See how their firebreak worked in reverse and saved their new landfill from being destroyed before it even opened. White Mountain had a significant number of pre-spawn salmon die in their waters this year. Learn about how they responded with science.

Presenters: Patricia Salmon, Chalkyitsik Environmental Director; Henry Titus Sr, White Mountain Tribe

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

FINDING FUNDING & SUPPORT FOR HEALTHY HOMES WORK: EPA, HUD, BIA, AHFC, THHNW, ANTHC

In this interactive panel session, representatives from the Environmental Protection Agency (EPA), Housing and Urban Development HUD), Bureau of Indian Affairs (BIA), Alaska Housing Finance Corporation (AHFC), and Alaska Native Tribal Health Consortium (ANTHC) will speak about how their agencies can help Alaska Tribes and communities complete healthy homes and indoor air quality work. Topics will include funding (grants and loans), technical assistance, and examples of past collaborations with tribes. The Tribal Healthy Homes Network (THHNW) will also briefly share their updated online funding guide, which captures these, and other funding opportunities.

Presenters: Carma Reed & Greg Stucky, HUD; Dewayne Cooper, BIA; Mike Spencer, AHFC; Mahri Lowinger & Kayla Krauss, EPA; Aileen Gagney, THHNW; Abby Nelson, ANTHC

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

CLIMATE ADAPTATION THROUGH AN INDIGENOUS LENS

This presentation will share the reawakening of how the most resilient and adaptive people on the planet are now tapping into their ancestral DNA traits to plan for climate impacts. Using a universal perspective to lead the discussion of interconnectivity in our ecosystems, subsistence lifestyle, and cultural activities, we are able to capture and learn as we adapt and evolve into the future generations of rural Alaskans.

Presenter: Jackie Qataliña Schaeffer, Alaska Native Tribal Health Consortium

GOING HOME CELEBRATION

Ekuk is located 17 miles by air from Dillingham on Nushagak Bay. Tribal members began moving away from the village in the late 60s and early 70s as the school closed. Migration continued due to salmon fishing locations becoming a hazard with accelerated erosion and degradation. But people who are displaced still have strong ties and connection to the land and to each other. It is important to us as a community to nurture these connections. Let us show you what our first Going Home Celebration was like and how we hope to continue this annual tradition.

Presenters: Jennifer Quluqarmiu (Robinette) & Sabrina Savo, Ekuk Village Council

CONTAMINATION SUPPORT: ILIAMNA ROOM

BROWNFIELD SITE INFORMATION: WHERE TO FIND IT AND HOW TO RECORD AND MAP IT

The Alaska tribes and consortiums with 128(a) Tribal Response Program (TRP) Grants are required under Element 1 to develop an inventory of known or potential brownfield sites. These can be within or near their lands where they have the potential to impact the health and environment of their communities. The ANCSA settlement has added additional areas and potential brownfield sites to their areas of concern. Obtaining information on known sites as well as newly discovered or suspected sites can be a challenge. This session will provide the experience of a Tribal Consortium TRP Coordinator in seeking that information and insights from the EPA and the ADEC and others on how to seek, obtain, document, and map such information. We will cover techniques for using mobile devices for offline fieldwork and inputting the data from the field into online databases and digital maps without the need for transcription. We will learn how to use digital forms for soliciting community input that can be easily added to spreadsheets and maps used for Brownfields Inventories and other geospatial databases (GIS, etc.) and creating map mash-ups using publicly available data in spreadsheet and map file (KLM and SHP) formats from federal and state agency sources. Participants are encouraged to bring laptops and mobile devices (cell phones, tablets) to this session.

Presenters: CaSander Johnson, Bristol Bay Native Association; Cynthia Annett & Mickey Hartnett, Kansas State University

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

PARALYTIC SHELLFISH POISONING (PSP)

The Knik Tribe PSP project will review the PSP results from communities along the Gulf of Alaska coast up into the Bering Sea. The Sand Point weekly mussel samples showed a surprisingly early and strong PSP event and a peak of 17,900 micrograms/100 grams on May 21, 2019. That's over 220 times above the FDA limit for PSP in bivalves and the third highest level ever recorded in Alaska. Some salmon had high levels of PSP in their digestive tracts, kidneys and livers, but the eggs and edible meat that were tested had very low PSP levels.

Presenter: Bruce Wright, Knik Tribe

COASTAL VILLAGE OCEAN ACIDIFICATION MONITORING

An update on our IGAP program for village monitoring.

Presenters: Jeff Hetrick & Jacqueline Ramsay, Chugach Regional Resource Commission and Alutiiq Pride Shellfish Hatchery

4:00PM – 5:00PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

MOVING GROUND: LESSONS IN ARCTIC WATERS AND SEWERS

Piped water and sewer systems are central to a community's health, but building them is challenging, especially in remote and Arctic conditions. There have been a lot of successes and failures along the way. Ten years ago, Buckland began developing its first piped water and sewer system from the ground up. The project as a whole has been successful, but Village Safe Water has noticed that a significant number of sewer services were failing each year. This investigation evaluates the project, identifying issues, while providing solutions and recommendations that can help guide future water/sewer installations.

Presenter: Daniel Nichols, Kuna Engineering

CLOSING HONEY BUCKET BUNKERS WITHOUT THE MESS

There are honey bucket bunkers all across rural Alaska. Many are no longer used because they have been abandoned or are full. These unused bunkers pose a health and safety risk to the residents, but closing these bunkers can be expensive. Sometimes efforts can make a bigger mess, especially in areas with permafrost, tundra, or poor soils. Daniel works with Village Safe Water Engineer, Susan Randlett, to develop a manual for communities to safely close down their unused bunkers using local hires and materials. This presentation will cover the closure of honey bucket bunkers in Tuntutuliak and the lessons learned.

Presenter: Daniel Nichols, Kuna Engineering

COMMUNITY HEALTH: KING SALMON ROOM

UNDERSTANDING RISKS OF TICK BORNE PATHOGENS

The geographic range of many tick species has expanded substantially due to changes in climate, land use, and animal and human movement. We will present preliminary results from a collaborative project between University of Alaska Anchorage (UAA), Alaska Department of Fish and Game, and the Office of the State Veterinarian to understand the risk of ticks and tick-borne pathogens in Alaska. Through the Alaska Submit-A-Tick Program, we have received over 260 ticks in 2019 for species identification and pathogen testing. This presentation will provide an overview of ticks in Alaska, discuss surveillance results from the first year of the study, and share information on how you can get involved in the research program.

Presenter: Micah Hahn, UAA Institute for Circumpolar Health Studies

SOLID & HAZARDOUS WASTE: ASPEN ROOM

BACKHAUL ALASKA PILOT PROGRAM UPDATE

Backhaul Alaska will provide an update on the two pilot backhaul programs. This presentation will include details regarding how much material has been backhauled and lessons learned along the way. Participants in the Backhaul Alaska Pilot Program will share their insights and experiences while working with the program.

Presenters: Reilly Kosinski, Zender Environmental Health and Research Group; Vanessa Tahbone, Kawerak, Inc.; Augusta Edmund, Alakanuk Environmental Director

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

CHOOSE WISELY—USING DUST SUPPRESSANTS TO REDUCE ROAD DUST

Utilization of dust suppressants is sometimes necessary in parts of Alaska, especially those that experience more than 30 potential dusty days over the summer and where simply driving slower or watering the roads is not enough to fully control dust. So what should you consider when selecting a dust suppressant? In this session, participants will learn about methods for testing soils to determine the best type of dust suppressant and application rate, as well as other important considerations, such as effectiveness, equipment and storage needs, environmental impact, and the potential toxicity of these products.

Presenters: Billy Connor, University of Alaska Fairbanks; Kayla Krauss, Environmental Protection Agency; Paul Goodfellow, Alaska Department of Environmental Conservation

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

REGION 10 REGIONAL TRIBAL OPERATIONS COMMITTEE-FACILITATED BRAINSTORMING: BEING PROACTIVE IN A REACTIVE ENVIRONMENT

As Indigenous peoples, we inherently have a proactive, inter-generational approach to environmental protection, but this is challenged by rapidly changing political policy that keeps us in reactive, unproductive cycles. This session brings tribal minds together to brainstorm ways in which Tribal Governments and Environmental Professionals can be proactive in addressing the most pressing issues we face in protecting our environment. Facilitated by The Region 10 Tribal Caucus, we look forward to hearing your take on this challenge, and learning from you. Your participation will help guide our committee to become more proactive in addressing policy issues with the EPA, and we hope you take away a renewed ability to be more proactive influencers in your communities.

Presenters: Karla Brollier, Region 10 Tribal Consortium Director; Gayla Hoseth, Region 10 National Tribal Caucus

TUESDAY AGENDA

We will walk through the "clean-up" process of one of our contaminated sites. From inventory to partial cleanup and everything we learned in between. Collaboration is key to meeting your Tribal Response Program goals.

HOW TO SELECT AN ENVIRONMENTAL CONSULTANT

Presenter: Erin Gleason, Alaska Department of Environmental Conservation

INDIGENOUS OBSERVATION NETWORK: COMMUNITY-BASED MONITORING

Presenter: Edda Mutter, Yukon River Inter-Tribal Watershed Council

NOTES

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GENERAL SESSION

8:00AM – 9:30AM

KEYNOTE SPEAKERS



Mike Brubaker – Mike Brubaker has been working in the Alaska tribal health system for over twenty years. His work focuses on environmental health, health impact assessments, climate change, and achieving safe, healthy, sustainable communities. He was born in Juneau and raised in Anchorage. He earned a B.S. in Biology from St. Lawrence University and a M.S. in Environmental Management from the University of San Francisco. He spent ten years as Community Services Director at the Aleutian Pribilof Islands Association, a regional tribal non-profit health consortium serving the Unangan population in southwestern Alaska. He has spent the past ten years working for the statewide arm of the tribal health system where he directs Alaska Native Tribal Health Consortium's Community Environment & Health Department. Mike co-founded and directs the Local Environmental Observer Network and is managing editor of the weekly e-journal, The Northern Climate Observer. He is associate faculty at Alaska Pacific University where he directs the Center for Climate and Health. Mike lives in Anchorage with his wife and four children.



Erica Lujan - Erica Lujan is the Local Environmental Observers Network Coordinator at the Alaska Native Tribal Health Consortium (ANTHC). Prior to coming on board with ANTHC, she worked for the Division of Subsistence at the Alaska Department of Fish and Game and for the Institute for Circumpolar Health Studies at the University of Alaska Anchorage. She moved to Anchorage in 2009 from southern Colorado.

TRACKS AND SESSIONS

9:40AM – 10:40AM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

NATIONAL TRIBAL WATER COUNCIL INFORMATION SHARING & LISTENING SESSION

The National Tribal Water Council (NTWC) will provide a briefing of current water policy/regulatory issues potentially impacting tribal nations, such as the Water of the United States and Clean Water Act 401 Certification. Additionally, NTWC wishes to hear from Alaska Native tribes & villages about their challenges with water resources/water quality issues and concerns.

Presenter: Ken Norton, National Tribal Water Council

COMMUNITY HEALTH: KING SALMON ROOM

OPERATIONALIZING ONE HEALTH IN ALASKA

One Health recognizes the interdependence of human, animal, and environmental health and that a holistic approach to the well-being of all will lead to improved health outcomes and enhanced resilience. We operationalize One Health research via community outreach programs across Alaska and throughout the Circumpolar North. Working with

communities through a One Health approach helps to understand needs and collaboratively build strategies that mitigate problems and support adaptation and resilience with the goal of framing a sustainable future.

Presenter: Kelsey Nicholson, University of Alaska Fairbanks - Center for One Health Research

ONE HEALTH GROUP

This presentation provides an introduction to the One Health Group, a quarterly forum hosted by Alaska Native Tribal Health Consortium and the Centers for Disease Control, which is applying a One Health approach to look at emerging environmental threats. The presentation will demonstrate how quarterly weather data and community-based observations submitted through the Local Environmental Observer Network are selected on a quarterly basis to populate seasonal environmental event maps and are used by the One Health Group as a way to monitor emerging trends across Alaska.

Presenter: Michael Brubaker, Alaska Native Tribal Health Consortium

SOLID & HAZARDOUS WASTE: ASPEN ROOM

I'M SO TIRED OF ALL THESE TIRES!

The Pauloff Harbor Tribe IGAP Program, with assistance from the City of Sand Point, conducted a large backhaul of tires this year. Over 3,200 tires were shipped to Tire Disposal and Recycling. This included 68 pallets of non-rimmed tires (2,800 tires) in the first shipment and 450 rimmed tires in the second shipment. This presentation will discuss the logistics and execution of this successful project as well as lessons learned from the experience.

Presenter: Anne M. Morris, Pauloff Harbor Tribe Environmental Coordinator

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

INTRODUCTION TO PURPLE AIR MONITORS AND THE PROS AND CONS OF USING THEM FROM A REGULATORY STANDPOINT

The first part of this session will cover the basics of using Purple Air monitors, including pros and cons, suggested uses, common issues, and data interpretation. The second part of the presentation will cover the limitations of using low-cost sensors by the Alaska Department of Environmental Conservation (ADEC). ADEC Division of Air Quality used Purple Air Sensors (PA) for a saturation study in Juneau and also benefits from the statewide PA sensor network during the wildfire season. But ADEC has rejected the official use of the PA sensor network in the Fairbanks North Star Borough Non-attainment area. Learn about why this decision was made.

Presenters: Orly Stampfer, University of Washington; Barbara Trost, Alaska Department of Environmental Conservation

RESILIENCE & SUSTAINABILITY: FIREWEED ROOM

PANEL DISCUSSION

There are many components that make communities resilient. This panel will bring together a variety of perspectives to share ideas about the topics and themes presented in the Sustainability and Resilience track. Come join the conversation and share your own thoughts and experiences.

Panel Facilitator: Michelle Davis, Environmental Protection Agency

CONTAMINATION SUPPORT: ILIAMNA ROOM

AK STATE/FEDERAL SPILL RESPONSE PLANNING AND THE AK REGIONAL RESPONSE TEAM (ARRT)

Alaska is now better prepared for oil and chemical spill emergencies that negatively impact public health and the environment. The State of Alaska, U.S. Coast Guard, and the Environmental Protection Agency recently transitioned away from the long-standing Unified Plan to the nationally consistent Area and Regional Planning construct as stipulated by the National Oil and Hazardous Substances Pollution Contingency Plan. This presentation provides details on the advantages that the area and regional planning system brings to the State, the new role of the ARRT as a

technical advisory committee for Field On-Scene Coordinators/State On-Scene Coordinators and as manager of the Regional Contingency Plan, and how the public, stakeholders, tribal and local governments can integrate and have an impact on spill response planning and preparedness across the state.

Presenters: Mary Goolie, Environmental Protection Agency; Craig Ziolkowski, Alaska Department of Environmental Conservation; Marc Randolph, U.S. Coast Guard

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

EPA TRIBAL ENVIRONMENTAL PLANS I: OVERVIEW

This session is for sharing information about Environmental Protection Agency (EPA) Tribal Environmental Plans. What are they? Why are they important? What should be included? What can tribes do with them? What is EPA doing with them? How are they developed? How are they reviewed? How are they updated?

Presenter: Katherine Brown, Environmental Protection Agency

11:00AM – 12:00PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

PFAS IN RURAL ALASKA

Per- & polyfluoroalkyl substances (PFAS) have been popping up regularly in both Alaskan and national news. This presentation will discuss what PFAS are, why they are an emerging public health concern, where they have been used and found in Alaska, what is happening with national and state regulations/testing, and will provide some context concerning human exposures in rural Alaska.

Presenter: Brian Berube, Alaska Native Tribal Health Consortium

COMMUNITY HEALTH: KING SALMON ROOM

SHELLFISH POISONING IN ALASKA

This presentation provides a primer on the science of shellfish toxins in Alaska, with particular focus on paralytic shellfish poisoning. It will also help people to better understand the factors that promote toxin accumulation in shellfish, the clinical manifestation of illness, and public health surveillance and response efforts.

Presenters: Dr. Joe McLaughlin & Dr. Louisa Castrodale, Alaska Department of Health and Social Services

SOLID & HAZARDOUS WASTE: ASPEN ROOM

TIPS AND TRICKS FOR WORKING EFFECTIVELY WITH CITIES

Do you struggle to get different entities in your community to work together on a common goal? Can you not figure out how to get your City and Tribe to work together? This is something that Stebbins, Koyukuk, Elim, and Chuathbaluk do well and they are willing to share their secrets.

Presenters: Tia Katcheak, Stebbins; Annie Fredericks, Chuathbaluk; Matthew Murray, Native Village of Elim; Hazel Lolnitz, Koyukuk

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

PURPLE AIR SENSOR COMMUNITY PROJECTS: UAF MONITORING AIR QUALITY IN AK

During the summer of 2019, the Institute of Tribal Environmental Professionals and the University of Alaska Fairbanks (UAF) collaborated on a project to supply low-cost, easy-to-install Purple Air sensors in rural communities around Alaska. Julia Hnilicka, the intern who installed the sensors, and Justin Trenton, a recipient of a Purple Air sensor for his community of Tyonek, will be presenting information on installation and future implications.

Presenters: Julia Hnilicka, University of Alaska Fairbanks; Justin Trenton, Native Village of Tyonek

PURPLE AIR SENSOR COMMUNITY PROJECTS: MONITORING AIR QUALITY IN TULALIP TRIBES EARLY LEARNING ACADEMY IN TULALIP, WA

This session will cover the use of Purple Air monitors in comparing indoor and outdoor concentrations of PM_{2.5} at the Tulalip Early Learning Academy. Tulalip Tribes is impacted by wintertime wood smoke and summertime wildfire smoke. We will also discuss infiltration of outdoor air pollution indoors, and consider current common wildfire smoke health messaging.

Presenter: Orly Stampfer, University of Washington

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

WESTERN ALASKA WIND POWER, HEATING SOLUTIONS, ENERGY EFFICIENCY, AND RENEWABLE ENERGY

This session examines what one company, Intelligent Energy Solutions, has tried in rural Alaska with promising success utilizing thermal impact heaters, wind generation, smart grids, and electrical storage capacity.

Presenters: Patrick Boonstra, Intelligent Energy Systems; Gregory Kingsley, Pilot Point Tribal Council

ENERGY EFFICIENCY & RENEWABLE ENERGY: A COMMUNITY CAMPAIGN APPROACH TO RESILIENCE

Presenters will discuss current work in Southwest Alaska. This will include information on innovative approaches to increasing clean energy technology adoption at the household and building level. Resources currently available to reduce the cost of energy efficiency and renewable energy technologies will also be presented.

Presenters: Jamie Hansen, Information Insights; Jessie Huff, U.S. Department of Agriculture Rural Development

CONTAMINATION SUPPORT: ILIAMNA ROOM

APPROPRIATE USE OF UNMANNED AERIAL VEHICLES (UAVS) FOR ENVIRONMENTAL INVENTORIES

This session will provide a brief overview of when and how UAVs (i.e., drones) can be best used in tribal environmental work. We will cover Federal Aviation Association licensing, how to find out about local restricted air space, the cost of owning or contracting UAVs, when it is best to use UAV imagery vs. satellite imagery, when to use a drone vs. contracting an airplane for photographing sites, and what you will need to stay current with regulations if you buy a drone for tribal use. We will also demonstrate ways to manage the imagery files from drones.

Presenter: Cynthia Annett, Kansas State University

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

EPA TRIBAL ENVIRONMENTAL PLANS II: PROGRAM PLANNING

This session is about planning environmental programs. Learn how to create pathways from visions to realities with a Super Cool Planning Tool (aka logic model). Learn how to connect environmental priorities with Environmental Protection Agency Tribal Environmental Plans, annual GAP work plans, daily activities, environmental results, and progress.

Presenter: Katherine Brown, Environmental Protection Agency

NOTES

ENVIRONMENTAL EXCELLENCE AWARDS LUNCHEON

12:00PM – 2:00PM

MUSIC PERFORMANCE



Whitney Youngman – Whitney Youngman is originally from Phoenix, Arizona, and plays fingerstyle acoustic guitar to her soulful voice. She has worked in Anchorage since February 2014. Varied in style and influence, Whitney plays classic and contemporary covers as well as original songs written over the past 17 years. She enjoys the sounds of Amy Winehouse, Red Hot Chili Peppers, Leon Bridges, and 311. This year, Whitney has played at more venues than ever before, including the Anchorage Folk Festival, Spenard Jazz Festival, Salmonfest, Arctic Entries, and most recently, the Mayor's Charity Ball. She leads two music groups: Miguel & Whitney and the Youngman Project, both revolving around her vocals and rhythm acoustic guitar.

Every year at ATCEM we present five Environmental Excellence Awards to recognize the hard work performed every day to preserve our environment for future generations.

Join us for an afternoon celebrating our award winners with good food and stunning performances!

RISING STAR AWARD

The Rising Star Award is given to an individual, new to the tribal environmental field, who shows great promise to be an up-and-coming environmental leader in his/her community.

ENVIRONMENTAL LEADER AWARD

The Environmental Leader Award is given to an established tribal environmental professional who demonstrates outstanding motivation and leadership with environmental projects in his/her community.

LIFETIME ACHIEVEMENT AWARD

The Lifetime Achievement Award is given to an individual who has made long-lasting environmental contributions that improve environmental health in his/her community over the course of many years. This individual is a true inspiration and deserving the highest honor.

HELPING HANDS AWARD

The Helping Hands Award is given to an individual, team, or organization that has provided exceptional services to support environmental projects in tribal communities.

COMMUNITY / GROUP AWARD

The Community / Group Award is given to a group or a team that has demonstrated outstanding environmental leadership in their community and has worked together to improve their local environment.

DANCE PERFORMANCE

King Island Dancers



WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

ALGAL TOXINS....IN THE ARCTIC?

Introduction to harmful algal blooms and the potential impacts on marine resources and the health of people living in the Bering Strait Region.

Presenters: Gay Schefffield, Alaska Sea Grant; Racheal Lee, Norton Sound Health Corporation

COMMUNITY HEALTH: KING SALMON ROOM

PRE-SPAWN SALMON DIE-OFF

The session will cover the pre-spawn salmon die-off that occurred in the Norton Sound. We will look specifically at Fish River and Golovin Lagoon, where data were collected.

Presenter: Henry Titus Sr., Native Village of White Mountain

HEAT STRESS IN ALASKAN PACIFIC SALMON

Freshwater temperatures across Alaska now routinely exceed thresholds associated with heat stress and mortality in migrating Pacific salmon. We examined the rates of thermal stress and potential for freshwater mortality in two wild salmon populations, Pilgrim River sockeye salmon near Nome (2014-2016) and Yukon River Chinook salmon across the watershed (2016-2017).

Presenter: Vanessa von Biela, U.S. Geological Survey Alaska Science Center

SOLID & HAZARDOUS WASTE: ASPEN ROOM

RESOURCES ROUNDTABLE: WHO'S WHO IN SOLID WASTE AND RECYCLING

Are you new to IGAP or to the solid waste and recycling field? This session will include two large circles. The smaller circle will include all of the resource providers, end destination recyclers, and federal and state organizations that work in this field. Everyone will introduce him/herself and provide a brief overview of who they work for and what they do. To keep it fun, at the end of their time, a funky buzzer will go off signaling that it is time to pass the microphone. The larger circle will be the audience, who will be able to ask questions after the introductions.

Presenters: Solid Waste Rockstars!

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

HOONAH INDIAN ASSOCIATION'S WOOD STOVE PROJECT, OBSERVATIONS OF TOBACCO AND MARIJUANA USAGE, AND HOW IT ALL AFFECTS INDOOR AIR QUALITY

Hoonah Indian Association (HIA) has piloted a wood stove and air quality project for the past three years. In the first part of this presentation, hear about the project, the successes, and the challenges. In the second part, HIA and Alaska Native Tribal Health Consortium will discuss one of the challenges identified by HIA during this project: smoking, both tobacco and marijuana, and the effect on indoor air quality.

Presenters: Jeromy Grant, Hoonah Indian Association; Abby Nelson, Alaska Native Tribal Health Consortium

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

ADAPTING ENVIRONMENTAL EDUCATION FOR ALASKANS

Come and learn about environmental education material that the Yukon River Inter-Tribal Watershed Council (YRITC) has been working on, as well as sources for Alaska-based environmental education and tips on how to adapt lessons to make them relatable for your community.

Presenter: Kari Eschenbacher Young, Yukon River Inter-Tribal Watershed Council

USING LEO TO UNDERSTAND LOCAL ENVIRONMENTAL CHANGE

This session provides an overview of the Local Environmental Observer (LEO) Network, an introduction to using the platform for local event tracking, and an update on new features that enhance capacity for understanding environmental change and planning for resilience.

Presenter: Michael Brubaker, Alaska Native Tribal Health Consortium

CONTAMINATION SUPPORT: ILIAMNA ROOM

BROWNFIELDS LIABILITY AND ELIGIBILITY

Have you wondered why you should get a Phase I Environmental Site Assessment before taking ownership of a property? Or do you have other questions regarding how legal liability could affect getting Brownfields funding for a project in your community? Join the Alaska Department of Environmental Conservation Brownfields to discuss the various Federal and State laws that influence how and if a property is eligible for Brownfields funding, and the Environmental Protection Agency to discuss how to fill out the different sections of an R10 Brownfields Site Eligibility Worksheet.

Presenters: Lisa Griswold, Alaska Department of Environmental Conservation; Brandon Perkins, Environmental Protection Agency

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

EPA IGAP AND LITTLE DIOMEDE

Join us for an overview of Diomedes FY19 IGAP activities. You will learn about how the Environmental Program is planned and implemented, view slides of work plan accomplishments, and learn about workable strategies used for the community and the environment in Little Diomedes.

Presenter: Opik Ahkinga, Native Village of Diomedes

3:15PM – 4:00PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

THE PUBLIC HEALTH RESPONSE TO ARSENIC CONTAMINATION OF DRINKING WATER WELLS IN ALASKA

In late 2018, the Alaska Department of Health and Social Services, Environmental Public Health Program (EPHP), learned that highly elevated concentrations of arsenic had been measured in two groundwater wells that served a public building near Fairbanks, Alaska, USA. Due to the public health risk posed by elevated arsenic in drinking water, EPHP conducted an environmental investigation. This presentation will summarize the public health response, present results from the environmental investigation, and discuss health education messages and strategies for preventing arsenic exposure from drinking water wells.

Presenter: Sarah Yoder, Alaska Department of Health and Social Services

COMMUNITY HEALTH: KING SALMON ROOM

AGRABILITY - DISABLED ALASKANS HELPING SOLVE THE STATE'S FOOD SECURITY PROBLEM

Many people in Alaska like to harvest their own foods yet might, over time, accumulate disabilities that make gathering, fishing, or planting difficult. However, there are assessments and technical assistance for those experiencing arthritis, hearing loss, painful joints, missing limbs, etc. that can help. Whether by changing ways of movement, modifying tools used, or amending site locations, this program is there to help. If you know of an elder with disabilities or a veteran returning to your village, learn about the assistance available through the Alaska AgrAbility program and the new \$5,000 micro-grants that may be available.

Presenter: Art Nash, University of Alaska Fairbanks Cooperative Extension Service

SOLID & HAZARDOUS WASTE: ASPEN ROOM

BURNING BASICS & BEYOND BURNING: HYDER SPOTLIGHT

Hyder runs a rural landfill that is closer to Canada than anywhere else in Alaska. They have had to break through many roadblocks that include sharing a border and a road into another country. They have implemented recycling and local burning programs in order to succeed. Their burn unit gets so hot it melts glass and aluminum, and the best part is they made it locally. Come hear how Hyder reinvented their community and continues to improve rapidly.

Presenter: Richard Simpson, Hyder Community Association Landfill & Burn Unit Operator

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

RADON IN ALASKA: BEFORE AND AFTER THE 2018 EARTHQUAKE

Learn about this colorless, odorless, and naturally occurring radioactive gas that can have long-term health effects on you and your family. Also, learn about the possible effects of the 2018 Earthquake on radon leakage in Alaska and how the state and UAF Cooperative Extension Service listened to and addressed Alaskan observations and Healthy Homes concerns after the initial shock and subsequent tremors.

Presenters: Art Nash & Leif Albertson, University of Alaska Fairbanks Cooperative Extension Service

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

UNDERSTANDING THE BOARD OF GOVERNORS REGULATORY PROCESS: AIDING CO-MANAGEMENT OF TRIBAL SUBSISTENCE RESOURCES

Chugach Regional Resources Commission (CRRC) partnered with the University of Alaska Fairbanks Tribal Management program to host a four-day workshop on the operations and processes of the State of Alaska Board of Game. CRRC identified this as an opportunity to help build technical and administrative capacity for our community members to manage subsistence resources at a tribal level.

Presenters: Chelsea Kovalcsik & Rachel Fischer, Chugach Regional Resources Commission

CONTAMINATION SUPPORT: ILIAMNA ROOM

ENGAGING YOUTH IN ENVIRONMENTAL TOPICS

The Gakona Tribe will share their secrets to getting youth engaged in environmental issues in their community through outdoor activities.

Presenters: Brandie Radigan & Derrick Sinyon, Native Village of Gakona

SITKA TRIBE OF ALASKA TRIBAL YOUTH INTERNSHIP PROGRAM

The Sitka Tribe of Alaska will tell us about their Tribal Youth Internship Program.

Presenter: Helen Dangel, Sitka Tribe of Alaska

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

SECRETS OF SUCCESSFUL CONSORTIA

This session is an opportunity for consortia and their members to meet and discuss roles and responsibilities for both parties under a GAP grant and brainstorm solutions to current problems.

Presenters: Susan Conbere, Environmental Protection Agency; Anahma Shannon, Kawerak, Inc.; Rose Kalistook, Association of Village Council Presidents; Melani Eakin, Bristol Bay Area Health Corporation

4:15PM – 5:00PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

STATUS AND TRENDS OF LAKE WATER TEMPERATURE IN SOUTHWEST ALASKA PARKLANDS

Lake water quality can be a useful indicator of broad-scale stressors, such as climate change. The National Park Service (NPS) monitors several lake water quality variables in Alaska, including temperature, pH, conductivity, and dissolved

oxygen. This presentation describes the status and trends in temperatures of various lakes in Southwest Alaska parklands and the potential effects of warming waters on the sockeye salmon spawning and rearing in these lakes.

Presenter: Krista Bartz, National Park Service

MUNICIPAL RESPONSE TO LEAD EXCEEDANCE

In July of 2019, notices went out to hundreds of Bethel residents informing them that the lead (Pb) levels in some homes and public buildings exceeded the acceptable level of 15 parts per billion. This was surprising because the source water for the community had not been known to contain Pb and previous routine samples had shown Pb levels to be well under the action level. This presentation will detail the investigation and resolution of these Pb exceedances from the perspective of the municipality.

Presenter: Leif Albertson, University of Alaska Fairbanks

COMMUNITY HEALTH: KING SALMON ROOM

COLON CANCER, DIET, AND ALASKA NATIVE PEOPLE

Alaska Native people have the highest colon cancer rates in the world. Studies have shown that diet can impact the kinds of bacteria living in the colon. Many of the bacteria help humans digest food. Some bacteria help the lining of the colon stay healthy, while other bacteria irritate the cells lining the colon and this might be how many colon cancers start. People who eat lots of fiber appear to have more of the healthy bacteria and a healthier lining of the colon. We will discuss colon cancer, diet, and sources of fiber in Alaska Native people.

Presenter: Timothy Thomas, Alaska Native Tribal Health Consortium

SOLID & HAZARDOUS WASTE: ASPEN ROOM

BACKHAUL TO THE FUTURE

The Association of Village Council Presidents, Environmental Program helped to organize several backhaul and recycling events in the Lower Kuskokwim communities and in Bethel. Over 144,000 pounds of hazardous household waste was collected and diverted from rural landfills to protect human and environmental health. This presentation will discuss lessons learned, the logistics, and inter-agency collaboration that it took to make this project a success.

Presenters; Rose Kalistook, Association of Village Council Presidents; Doug Huntman, Delta Backhaul

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

CLIMATE CHANGE FACTORS ON RADON

Subsurface uranium is scattered throughout the state of Alaska and as it decays, eventually radon gas emanates. Where permafrost and tundra are involved, this decay emits alpha particles in an area that largely has been vacant of residential housing and that has suppressed the radiation with ice. That will change as climate variation vacates discontinuous permafrost and, thus, opens new land for subterranean living areas where only pad and post/piling construction was used in the past.

Join this session to learn what geological and building factors can be utilized per risk assessments for diffusion of this type of Alpha radiation (of which radon is the second leading cause of lung cancer).

Presenter: Art Nash, University of Alaska Fairbanks Cooperative Extension Service

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

PREPARING TO MOVE: TRAINING AND ENGAGEMENT WITH NEWTOK COMMUNITY RESIDENTS

This presentation will describe the relocation process for Newtok residents, who started to move to their new site, Mertarvik, in October. Topics to be discussed include preparation for the move, community training, and how the Newtok Village Council allocated the limited number of homes to residents.

Presenter: Elizabeth Wulbrecht, Alaska Native Tribal Health Consortium

WEDNESDAY AGENDA

Per- and polyfluoroalkyl substances (PFAS) were first detected in drinking water in Alaska in 2015. Now, a short four years later, the growing list of communities with confirmed PFAS contamination stretches from Gustavus to Utqiagvik. The status of PFAS as emerging contaminants has left many communities wondering where these chemicals come from, how they contaminate drinking water, whether subsistence foods are also contaminated, and what is being done. This presentation will cover the sources and fate of PFAS, the regulatory status of these contaminants, exposure pathways for humans and animals, ways to reduce exposure, and highlight some of the technologies involved in remediation.

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

An Alaska Native Tribal Health Consortium water and sewer utility billing program focused on increasing revenue collections by processing monthly billing and collecting user fee payments for communities to pay utility expenses and build a reserve fund for spare parts or emergencies.

NOTES

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GENERAL SESSION

8:00AM – 8:30AM

KEYNOTE SPEAKER

Molly of Denali



TRACKS AND SESSIONS

8:30AM – 9:30AM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

FOOD, WATER, AND ENERGY IN ALASKA COMMUNITIES

Food, energy, and water (FEW) security are vital and interconnected. Our research project explores these connections in rural Alaska, including the ways that renewable energy can improve FEW security. In this session, we will present some of our work focused on identifying and modeling FEW connections in diverse rural Alaska communities. We will also seek ideas from participants about 1) what kind of FEW information is most useful to rural leaders and decision-makers, 2) how to make this information accessible and applicable to communities, and 3) how leaders and utility service providers could best learn from each other and share approaches to increasing FEW security through renewable energy projects across Alaska.

Presenters: Erin Whitney, Alaska Center for Energy and Power, University of Alaska Fairbanks; Jennifer Schmidt, Institute of Social and Economic Research, University of Alaska Anchorage

COMMUNITY HEALTH: KING SALMON ROOM

ADDRESSING THE IMPACT OF DECREASED MARINE DIET ON VITAMIN D DEFICIENCY AND RICKETS: POTENTIAL IMPLICATIONS FOR EARLY DENTAL CAVITIES

Studies by ANTHC in 2013 showed high rate of rickets in Alaska Native children from vitamin D deficiency. We found a decrease in vitamin D levels in childbearing women associated with a decline in traditional foods from the 1980s to 2000s. We found an association between deficient vitamin D levels in pregnant women and early childhood cavities in their children. Because of the increased rate of rickets, the Alaska Vitamin D Workgroup published recommendations

for prenatal supplementation and increased supplementation in children in 2018. We are evaluating the impact of this routine vitamin D supplementation.

Presenters: Rosalyn Singleton & Timothy Thomas, Alaska Native Tribal Health Consortium

SOLID & HAZARDOUS WASTE: ASPEN ROOM

SOLID WASTE GRANT FUNDERS PANEL PART 1

Want to know how to fund your new landfill project, the landfill road, or fire response equipment? What about a recycling center, heavy equipment, or personal protective equipment? What about design and engineering? Come and hear a short presentation from the funding agencies and organizations, and then it is your turn to ask questions. There are so many funders coming that this is a two-part session!

Panelists: ICDBG, CDBG, ANA, EPA IGAP, USDA RD, DOT STIP, BIA IRR, HUD, RACEJT, CIP, EPA HHW, and more! Want to know what these acronyms stand for? A complete List with contact info will be provided at the session!

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

PEDRO BAY EMISSIONS INVENTORY

This session will cover the results of the Pedro Bay Emissions Inventory, which the Alaska Department of Environmental Conservation (ADEC) has been working on for the past year in cooperation with the Pedro Bay Village Council. We will discuss the study parameters, data collection and compilation, results, and analysis of the inventory, as well as the rounds of community engagement which ADEC, EPA-Region 10, and the Pedro Bay Village Council conducted throughout the study. Lastly, we will discuss the strengths and relative weaknesses of the EPA Greenhouse Gas Toolkit, which was one of the primary data analysis tools used during the study. We will also discuss our work to compile criteria air pollutant (CAP) emissions to complete the emissions inventory work.

Presenter: Paul Goodfellow, Alaska Department of Environmental Conservation

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

PANEL DISCUSSION

There are many components that make communities resilient. This panel will bring together a variety of perspectives to share ideas about the topics and themes presented in the Sustainability and Resilience track. Come join the conversation and share your own thoughts and experiences.

Panel Facilitator: Michelle Davis, Environmental Protection Agency

CONTAMINATION SUPPORT: ILIAMNA ROOM

PHASE I ESAS: HOW AND WHY TO DO IT

Why and when should you perform a Phase I Environmental Site Assessment (ESA)? Who should do it? What is a Transaction Screen? What are some of the liability issues associated with properties and property transfers? What tasks are necessary to perform a Phase I ESA? How are other tribes handling these types of issues? These and other questions will be answered during this introduction to Phase I ESAs. Examples of Phase I ESAs will be discussed as well as handy checklists to use for future projects.

Presenter: Rich Campbell, Campbell Environmental Group

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

BLM - WHAT LANDS ARE BEING OPENED TO MINING

Alaska's largest federal land manager, the Bureau of Land Management (BLM), is opening millions of acres of federal lands to mining, via new resource management. These public lands, which support traditional and customary lives of thousands of indigenous Alaskans have been closed to development since ANCSA. This presentation will outline what lands are being opened to mining, and when and what your community might want to know about the process.

Presenters: Rachel James, Salmon State; Mary Mathias, Orutsaramiut Native Council

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM**BIOMASS ENERGY - LOCALLY GROWN ENERGY**

Learn about the extensive benefits of biomass heating for your community: economic sustainability and resilience, health impacts, wildfire mitigation, educational opportunities, various technologies, their applications, best practices, case studies, and more.

Presenter: Chris Cronick, Alaska Native Tribal Health Consortium

RENEWABLE ENERGY INTEGRATION FEASIBILITY

The village of Akhiok, Alaska, is located on the south end of Kodiak Island. Through two well-aligned funding sources, a new diesel powerhouse and a new electrical grid are being designed now, with construction set for summer 2020. This new infrastructure installation provides a great opportunity to explore integrating renewable generation into the diesel dependent system.

Presenter: Tyler Kornelis, Kodiak Area Native Association

COMMUNITY HEALTH: KING SALMON ROOM**BUILDING A PATHWAY TO ADVANCE ALASKA INUIT FOOD SOVEREIGNTY**

This presentation will provide an overview of what is needed to assess food security in the Arctic, where the issue is complex and interlinked with cultural and environmental systems and directly tied to food sovereignty and their right to access and manage resources. The speaker will focus on an Inuit approach to the management of traditional food resources and will stress the connection between Inuit food security and food sovereignty to demonstrate that without food sovereignty, Inuit peoples cannot have food security.

Presenter: Vernae Angnaboogok, Inuit Circumpolar Council Alaska

SOLID & HAZARDOUS WASTE: ASPEN ROOM**SOLID WASTE GRANT FUNDERS PANEL PART 2**

Want to know how to fund your new landfill project, the landfill road, or fire response equipment? What about a recycling center, heavy equipment, or personal protective equipment? What about design and engineering? Come and hear a short presentation from the funding agencies and organizations, and then it is your turn to ask questions. There are so many funders coming that this is a two-part session!

Panelists: ICDBG, CDBG, ANA, EPA IGAP, USDA RD, DOT STIP, BIA IRR, HUD, RACEJT, CIP, EPA HHW, and more! Want to know what these acronyms stand for? A complete List with contact info will be provided at the session!

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM**THE IMPACTS OF USING E-CIGARETTES**

During this session, we will discuss the basics of e-cigarette devices, health risks of using e-cigarettes, usage statistics in Alaska and nationwide, current laws regarding e-cigarettes, and local partners and cessation resources.

Presenter: Katie Steffens, Alaska Tobacco Prevention and Control Program

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM**ALASKA'S CHANGING ENVIRONMENT: A NEW RESOURCE FOR ALASKANS**

This presentation will describe weather and climate extremes since ATCEM 2018 and highlight some actions that communities have been taking. Information on how participants can access information for their own needs will also be included.

Presenter: Rick Thoman, Alaska Center for Climate Assessment and Policy

CONTAMINATION SUPPORT: ILIAMNA ROOM

SO YOU'VE SOILED YOUR SOIL - POLLUTED SOIL DISPOSAL OPTIONS

This presentation will discuss the requirements and options for disposing of polluted soil in Class I, II, and III landfills in Alaska. While polluted soils can be disposed in some landfills, no landfill in Alaska is required to accept polluted soil even if all regulatory requirements are met. We will provide an overview of the regulatory criteria, disposal limitations and guidelines for polluted soil disposal, and beneficial use demonstrations.

Presenters: Lori Aldrich & Melinna Faw, Alaska Department of Environmental Conservation

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

WHAT LIES BELOW: USING NON-INVASIVE TOOLS TO INVESTIGATE SITES

Geophysical tools can provide insight into many subsurface conditions. It is possible to locate buried objects, find gravel, locate utilities, and find unmarked graves without disturbing the surface. Contaminated sites can be surveyed with reduced costs and improved results - a win-win. Here we will review tools and applications useful in Alaska.

Presenter: Esther Babcock, Logic Geophysics & Analytics LLC

11:00AM – 12:00PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

EXPLAINING THE POWER COST EQUALIZATION PROGRAM

What is the Power Cost Equalization (PCE) program? How does the PCE program help with your electric bill for your home and your community businesses? Come learn more about the PCE program and find out how to support it from your community. If you live in Point Hope, Akutan, Bethel, Dillingham, Nanwalek, Unalakleet, Anaktuvik Pass, or White Mountain, we will provide useful information on how the PCE program affects each one of us in rural Alaska and how important it is in energy cost saving benefits. PCE is not just an endowment fund or a way to address the energy challenges in our state - it's about equal rights for all residents.

Presenters: Connie Fredenbery, Utility Management Assistance; Amanda Toerdal, Kawerak, Inc.

COMMUNITY HEALTH: KING SALMON ROOM

CLIMATE CHANGE, MICROPLASTICS, AND THEIR IMPACTS

Alaska Native communities rely on traditional foods and practice traditional ways of life. Many of these communities in the Arctic are seeing and experiencing climate changes in a very dramatic way—changes in food availability, impacts to traditional foods, changing weather patterns, stronger and menacing weather systems, and community illnesses that were not part of their lives before. Impacts from microplastics entering the environment have also been seen. Local, national, and international efforts are on their way to address this serious environmental issue, but there is a need to a more comprehensive and long-term plan to tackle the risk that microplastics pose to traditional foods, our natural resources and people's health. Having the active participation of tribes and Alaskans as part of the efforts to solve these environmental issues should be a priority when talking about solutions.

Presenters: Dr. Samarys Seguinot-Medina & Vi Waghiyi, Alaska Community Action on Toxics

SOLID & HAZARDOUS WASTE: ASPEN ROOM

PROTECTING OUR ENVIRONMENT: ALAKANUK'S SUCCESS STORY

Alakanuk has transformed their community and their environmental program over the past two years. Their current IGAP Coordinator started out as the Assistant two years ago and eventually grew into being the IGAP Coordinator. She has helped Alakanuk work with NASA, outreach and education, cleaning up their salvage area, and completing a backhaul that included lead acid batteries, scrap metal, lights, electronics, and white goods. They also shared their success with a nearby village and helped them. Come find out how she did it!

Presenter: Augusta Edmund, Alakanuk Environmental Program

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

HEPA, MERV, AND DO IT YOURSELF AIR CLEANERS

As wildfire smoke continues to contaminate the outside air, there is a multitude of options available to help clean indoor air of smoke, particulates, gases, and volatile organic compounds. HEPA, MERV, and other filtration systems will be discussed - specifically the types of air pollutants that each is capable of filtering. A do-it-yourself air cleaner, which is a proven low-cost and effective alternative to expensive models, will be introduced and built on site.

Presenter: Aileen Gagney, Tribal Healthy Homes Network

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

HOW TO ADDRESS ENVIRONMENTAL IMPACTS TO COMMUNITY INFRASTRUCTURE

This session will share lessons learned, case studies, and best practices for understanding risk, planning, securing funding, and implementing projects that achieve the community's vision for a safe, healthy, and sustainable future.

Presenters: Jaci Overbeck, Alaska Department of Natural Resources; Max Neale, Alaska Native Tribal Health Consortium; Racheal Novack, Bureau of Indian Affairs Tribal Resilience Program

CONTAMINATION SUPPORT: ILIAMNA ROOM

RANGE DESIGN AND MANAGEMENT FOR REDUCED ENVIRONMENTAL IMPACT

Shooting ranges and ballistic training areas provide a highly localized source of metals and energetic compounds that have potential to migrate off-site and enter the environment. Designing and managing ranges for reduced environmental impact requires site-specific knowledge and understanding of biogeochemical behavior of the potential contaminants. Here, we present case studies of efforts by Cold Regions Research and Engineering Laboratory, focusing on design, management, and remediation methods for range sites in Alaska.

Presenter: Amanda Barker, Cold Regions Research and Engineering Laboratory

CASE STUDIES OF GROUNDWATER AND SOIL CONTAMINATION IN A SUB-ARCTIC AND ARCTIC ENVIRONMENT

Alaska has a history of contaminated sites and many of these sites are located near populated areas. The soils unique to the Arctic complicate traditional remediation techniques. This session will present a comprehensive approach for characterizing petroleum-derived contamination specific to Arctic regions, and an overview of non-intrusive methods for monitoring and remediation of contaminated sites in the sub-Arctic.

Presenter: Anna Wagner, Cold Regions Research and Engineering Laboratory

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

RISK ASSESSMENT FOR THE YUKON-KUSKOKWIM (YK) DELTA

Climate change is affecting the livability of Alaskan villages, with projected flooding and erosion impacting critical infrastructure and warmer, wetter climates influencing traditional lifestyles. There is a critical need to develop solutions that address climate change impacts. Based on forward-looking environmental risk assessments for three villages in the Yukon-Kuskokwim (YK) Delta, we will present projected future climates, and the magnitude and timing of climate impacts on the environment and sustainability of environmentally threatened villages. The data provide guidelines that will enable impacted community members to be proactive in developing mitigation options and shape a resilient community for future generations.

Presenter: Ronni Wilcock, Two Bears Environmental Consulting

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM**NORTON BAY WATERSHED TRIBAL MARINE PROTECTION AREA PROJECT**

This presentation will discuss the Norton Bay Inter-Tribal Watershed Council's (NBITWC) Norton Bay Watershed Tribal Marine Protection Area Project (Project), which includes development of a Marine Protection Area Climate Assessment (NBMPACA) for the Norton Bay Watershed using traditional knowledge and conventional science. NBITWC will also reach out to Arctic tribal and environmental organizations to assist in incorporating the NBMPACA into the Arctic Council's Protection Arctic Marine Environment working group's Pan-Arctic Marine Protected Area Network (PAMPAN). The PAMPAN, a demonstrative approach and analytical and transparent process that emphasize traditional knowledge to establish a Pan-Arctic MPA network throughout the Arctic Region.

Presenters: Emily Murray & Carol Oliver, Norton Bay Inter-Tribal Watershed Council; Hal Shepherd, Water Policy Consulting LLC

COMMUNITY HEALTH: KING SALMON ROOM**LEO TALKING CIRCLE**

The talking circle is a traditional way for Native American people to solve problems. It is a very effective way to remove barriers and allow people to express themselves with complete freedom. For this reason, it is becoming more and more popular in mainstream society. The symbolism of the circle, with no beginning and with nobody in a position of prominence, serves to encourage people to speak freely and honestly about things that are on their minds. Everyone sits in a circle. A token, such as a feather or a talking stick, is passed clockwise around the circle. As you receive the token, you may speak for as long as desired and address a selected topic. When you have finished, you pass the token along. There is no discussion and no question and answer, just an open and welcoming space to speak and share. If you does not wish to speak, simply pass the token. When everyone has had the opportunity to speak, the conductor ends the circle. LEO Talking Circle participants share personal observations about how their environment is changing and the effects on their lives, the community, or lands.

Presenter: Moses Tcheripanoff, LEO Member

SOLID & HAZARDOUS WASTE: ASPEN ROOM**BURN UNITS: OPERATION, REPAIR, PURCHASE, & FREIGHT**

Have you ever wondered what kinds of burn units are used in landfills? Do you have a burn unit and don't know how to repair it yourself? Have you ever considered making your own? Come and hear all about it from Alaska's two most common burn unit manufactures, as well as two communities that made their own.

Presenter: Sean Peterson, Zender Environmental Health and Research Group

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM**NTAA TRIBAL AIR SUMMIT**

The National Tribal Air Association (NTAA) hosted a Tribal Air Summit in Anchorage in September. At the summit, tribal attendees and policy makers met to discuss air quality issues and policies that affect Alaskans. This presentation will give an overview of the NTAA, the National Tribal Air Summit, and outcomes of the meetings.

Presenter: Mary Mullan, Alaska Native Tribal Health Consortium

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM**EPA RESOURCES FOR ADAPTING TO CLIMATE CHANGE**

The Environmental Protection Agency (EPA) has been working across the country to develop more effective strategies for supporting tribes that are adapting to the impacts of climate change. In this session, EPA will share their work to date, highlight key resources and technical assistance available to tribes, and facilitate a discussion with Alaska Native villages about their unique needs.

Presenter: Vicky Salazar, Environmental Protection Agency

CONTAMINATION SUPPORT: ILIAMNA ROOM

TRP HOUR - Q & A WITH PROJECT OFFICERS

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

BUILDING CAPACITY FOR TRIBAL CLIMATE ADAPTATION

Alaska tribes often seek training and information to plan for and address the immediate impacts from a rapidly changing climate. This session discusses the needs and experiences of Alaska Native communities that are working to plan for and address climate change impacts. The session begins with a discussion of tribal climate adaptation planning needs and challenges in Alaska. These findings are based on a survey of individuals who completed climate adaptation planning trainings in Alaska between 2016 and 2017.

Presenters: Malinda Chase, Alaska Climate Adaptation Science Center - Aleutian Pribilof Islands Association; Nathan Kettle, AK Center for Climate Assessment Policy

BUILDING RESILIENCE TO EXTREME EVENTS AND WATER HAZARD PLANNING IN RURAL COMMUNITIES

This project being conducted in western Alaska and southern Louisiana compares water and wastewater information needs for extreme events and identifies strategies to reduce risk and increase resilience in Alaska, Louisiana, and other rural coastal communities in the U.S. To get this project started at ATCEM last year, we polled audience members about extreme events impacting infrastructure in their communities. This year we are presenting summary findings after conducting surveys and interviews in coastal communities in Alaska and Louisiana.

Presenters: Davin Holen, Alaska Sea Grant, College of Fisheries and Ocean Sciences, UAF; Kevin Berry, Institute of Social and Economic Research, UAF; Rick Thoman, Alaska Center for Climate Assessment and Policy, UAF

2:40PM – 3:40PM

WATER RESOURCES & PUBLIC UTILITIES: LUPINE ROOM

INNOVATION IN THE NW ARCTIC BOROUGH'S COMMUNITY UTILITY ASSISTANCE PROGRAM

Infrastructure projects, from water/sewer utilities to renewable energy projects and programs for providing heat and electricity, are critical in the Arctic, especially in rural Alaska. Designs must respond to the relatively rapid changes in Arctic conditions, such as increasing average temperatures, severe storm events, changes in coastal and riverine environments, and melting permafrost. The Community Utilities Assistance Program (CUAP) is a NW Arctic Borough program that invests the proceeds from regional economic development to deliver benefits of piped water and sanitation to improve public health outcomes and community well-being.

Presenter: Dr. Steven Konkel, University of Alaska Anchorage

COMMUNITY HEALTH: KING SALMON ROOM

ATV TOOLKIT & ANTHC INJURY PREVENTION

ANTHC and partners developed an ATV Safety Toolkit. The immediate outcomes include increased knowledge of ATV risks and increased awareness with ATV behaviors among adults. In addition, the ATV Safety Toolkit will result in the development of culturally appropriate educational materials, increased local capacity to deliver ATV Safety prevention programs, and increased availability of Trauma Simulation education for the Community Health Aide Program. Long-term outcomes include a reduction in ATV-related injuries and a reduction in hospitalizations due to ATV injuries in the adult population.

Presenters: Ingrid Stevens, Alaska Native Tribal Health Consortium; Rex Spofford, Bristol Bay Area Health Corporation

SOLID & HAZARDOUS WASTE: ASPEN ROOM

TAKE CHARGE OF YOUR HOUSEHOLD BATTERIES: HANDS-ON AND INTERACTIVE LEARNING

How confident are you when sorting household batteries? Did you know that some can explode and cause fires in transport? It can be confusing knowing how to sort them and which ones need to be isolated. Come get answers from

two of Alaska's experts on this issue. They have both received, packaged, shipped, and processed every type of battery. They will provide attendees with a short presentation followed by a hands-on exercise for which you get to sort batteries. Personal protective equipment will be provided.

Presenters: Gary Smith, Total Reclaim; Reilly Kosinski, Zender Environmental Health and Research Group

AIR QUALITY & HEALTHY HOMES: BIRCH ROOM

OVERVIEW OF THE TRIBAL VW SETTLEMENT AND THE DIESEL EMISSION REDUCTION ACT (TRIBAL DERA PROGRAM)

The Institute for Tribal Environmental Professionals (ITEP) will present a brief overview of the VW Settlement Environmental Mitigation Tribal Trust, focusing on the types of projects eligible for funding under the program. Additional topics touched upon will include the general timeline for each annual funding cycle, and the services ITEP can provide to interested tribes as the Technical Assistance Provider. The Environmental Protection Agency will present a brief overview of the Tribal DERA Program and its upcoming request for applications for FY2020 and the DERA Option under the VW Settlement.

Presenters: Mark Daniels, Institute for Tribal Environmental Professionals; Lucita Valiere, Environmental Protection Agency

SUSTAINABILITY & RESILIENCE: FIREWEED ROOM

TOUCHING THE SPIRIT

Healthy people create healthy families and healthy families create healthy communities. Listen in on a discussion with Elizabeth Sunnyboy and Gregory Nothstine as they reflect on the themes discussed in the 2019 Sustainability and Resilience track and share their thoughts on individual, community, and spiritual health and well-being.

Presenters: Elizabeth Sunnyboy & Gregory Nothstine, Alaska Native Tribal Health Consortium

CONTAMINATION SUPPORT: ILIAMNA ROOM

THE GOLOVIN FISH PLANT - A BROWNFIELDS SUCCESS STORY

In Nome, we've had the good fortune of taking part in a quick-moving cleanup project in Golovin, a nearby village. Come learn about how the old Golovin fish plant, abandoned since the 80s and eroding into the ocean, went through a series of assessments and finally got to abatement! The project will not be completely finished until summer 2020, but we will walk you through the various steps of getting to abatement. You'll learn about the land owner issues we encountered, how to go through the all appropriate inquiry process, working with your community on figuring out a reuse project, leveraging funding, different assessment strategies, and more!

Presenters: Anahma Shannon, Kawerak, Inc.; Lisa Griswold, Alaska Department of Environmental Conservation; Carol Oliver, Golovin

MONITORING, CAPACITY, & ASSORTED PROJECTS: CHART ROOM

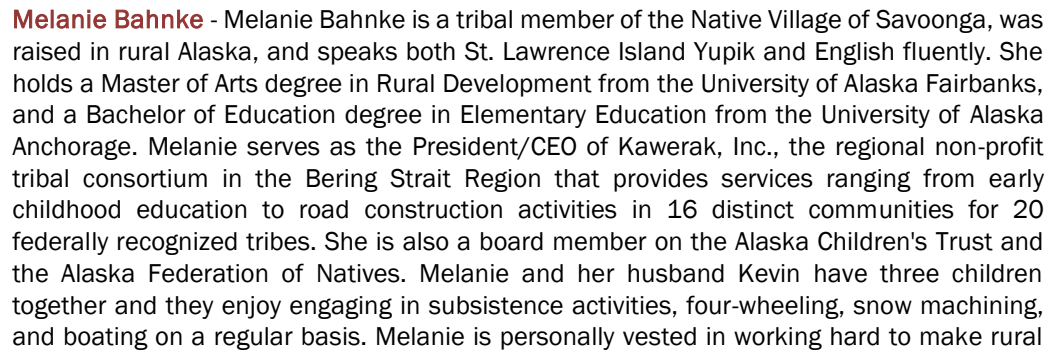
USACE PARTNERSHIP PROGRAMS AND OPPORTUNITIES

This session is designed to introduce Alaska Native communities to the programs and opportunities available through working with the U.S. Army Corps of Engineers (USACE) in Alaska. Discussion will highlight those partnership opportunities that focus on local issues related to environmental health, water resources, climate change, and community resiliency. The presentation will explore the different opportunities for tribal collaboration and provide examples of successful partnerships and outcomes in Alaska that have created collaborative solutions to local challenges, generated strong, resilient community networks, and established sustainable, long-term relationships.

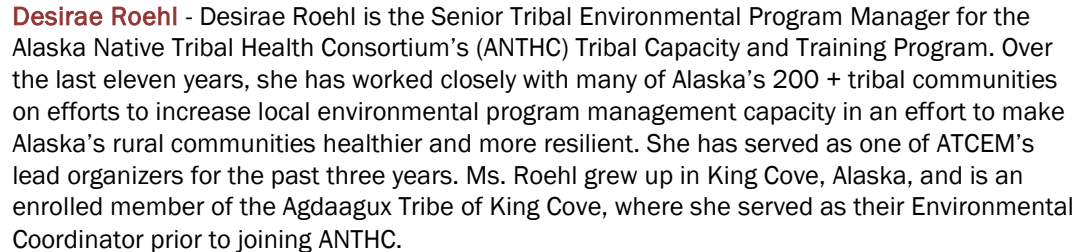
Presenter: Kendall Campbell, U.S. Army Corps of Engineers

THURSDAY AGENDA

KEYNOTE SPEAKER



ANTHC CLOSING

[illegible]

TRAINING SESSIONS

8:00AM – 5:00PM

RURAL ALASKA LANDFILL ADMINISTRATION – DILLINGHAM ROOM

The Rural Alaska Landfill Administration (RALA) course is an 8-hour refresher course for the designated landfill operator and for any administrators in a village with a Class III landfill or open dump, and focuses on the duties of the landfill operator, their personal safety, and the safety of the village. Additional emphasis is placed on the administration role of landfill operations in the RALA. Participants will learn about landfill regulations and requirements, household hazardous waste, waste separation and screening, waste reduction and segregation, recycling, personal protection equipment, and much more.

Trainers: Ted Jacobson, Sustainable Solid Waste Solutions; Doug Huntman, Delta Backhaul Company

AIR QUALITY AND HEALTHY HOMES OUTREACH STRATEGIES AND PROJECT PLANNING (30 MAX) - KING SALMON/ILLIAMNA ROOM

This training session will focus on air quality and healthy homes project planning, identifying helpful resources, and doing education and outreach for youth, your community, and residents. Participants will leave the training with an air quality and/or healthy homes project plan, as well as a handful of resources involving hands-on activity ideas, presentations, videos, social media materials, and indoor air and asthma educational materials.

Trainers: Abby Nelson & AJ Salkoski, Alaska Native Tribal Health Consortium; Mansel Nelson, Northern Arizona University Institute for Tribal Environmental Professionals; Aileen Gagney, Tribal Healthy Homes Network

8:00AM – 12:00PM

QUALITY ASSURANCE PROJECT PLAN TRAINING - KATMAI ROOM

Have you been planning to collect environmental data (i.e., soil, water samples) as part of your IGAP program? Have you put off collecting those data because the thought of developing a Quality Assurance Project Plan (QAPP) has you overwhelmed? QAPPs can be difficult and intimidating, but they are the key to ensuring the quality of your data. Join us as we demystify the QAPP process and learn about the various requirements that must be met to write a successful QAPP.

Trainer: Sean Peterson, Zender Environmental Health and Research Group

OUTREACH & EDUCATION WORKSHOP FOR SOLID WASTE RECYCLING – ASPEN/SPRUCE ROOM

This workshop will help make it easier to understand how to create an outreach and education message. We will provide examples of how it is being done in rural Alaska. Then we will walk you through a series of exercises that you could replicate in your community. To complete the workshop, you will work through a series of stations at the end to create your own message, and if time permits, your own poster.

Trainers: April McCoy, Zender Environmental Health and Research Group; Trisha Bower, Alaska Department of Environmental Conservation

STRENGTHENING USACE COLLABORATION WITH AK NATIVES ON WATER RESOURCES PLANNING & MANAGEMENT – BIRCH/WILLOW ROOM

This workshop focuses on eliciting Alaska Native water resource needs and sharing information on programs and opportunities to work with the U.S. Army Corps of Engineers (USACE) in Alaska. Discussions may include flood preparedness, emergency management, erosion, climate change, and use of watershed studies to assist with water resource management and subsistence sustainability planning.

Trainer: Kendall Campbell & Seth Cohen, U.S. Army Corps of Engineers Alaska District

PLANNING & DEVELOPING A 128(A) GRANT WORK PLAN – FIREWEED ROOM

This hands-on, interactive training will help coordinators develop a CERCLA 128(a) Tribal Response Program (TRP) Grant Work Plan to establish and/or enhance a TRP that will meet your needs and the requirements of the EPA. Participants will discuss activities and tasks that fit into the four Elements of the TRP, Institutional Controls, and the Public Record. We will go over the EPA TRP Guidance for FY2020 and offer one-on-one time to assist with drafting your TRP Grant Work Plan and funding requests. *Please bring your laptop and last year's work plan.*

Trainers: Mary Goolie, Environmental Protection Agency; Lisa Griswold, Alaska Department of Environmental Conservation

UNDERSTANDING WEATHER AND CLIMATE RESOURCES: WHAT, WHERE, AND HOW – LUPINE ROOM

There are many weather and climate resources online, from historical data to tomorrow's forecast. From impacts of recent events to climate projections for the next century, it can be difficult to know where to go for what. This training will provide participants with a review of online sources of weather and climate information, ideas on how to use (and not use) specific websites, and finish with a discussion on the kinds of information that participants would like to have or could use in their work but don't know where to find it.

Trainer: Rick Thoman, Alaska Center for Climate Assessment and Policy

1:00PM – 5:00PM

QUALITY ASSURANCE PROJECT PLAN DEVELOPMENT SESSION - KATMAI ROOM

One-on-one development session for QAPP Development.

Trainer: Sean Peterson, Zender Environmental and Research Group

SOLID WASTE & RECYCLING VENDOR SHOWCASE – ASPEN/SPRUCE ROOM

This will be a showcase of proven solid waste and recycling technologies and services that are applicable for rural Alaska. Do you know what a used oil furnace or a SmartAsh burner is, or who can install a steel building at your landfill? What about where to order backhaul supplies, gaylord boxes, or a pallet jack with a scale in it? Come to this training to find out!

Facilitator: Trisha Bower

RURAL ALASKA WORKER SAFETY AND HEALTH – BIRCH/WILLOW ROOM

Workers in rural Alaska face dangerous working conditions. In fact, Alaska has the highest rate of workplace fatalities in the nation. As leaders in our communities, we have the opportunity to eliminate this health disparity by gaining knowledge of how to protect our workers from dangerous conditions. At this training, community leaders and workers will have the opportunity to learn how to keep the rural Alaska workforce safe. Topics will include confined space entry, chemical safety, electrical safety, excavations, safe lifting and workstation setup, and working from heights.

Trainers: John Gilbert & Jason Rutman, Alaska Native Tribal Health Consortium

REMEDIATION OF CONTAMINATED SOIL WITH MUSHROOMS – FIREWEED ROOM

This workshop will introduce how to use mushrooms to remediate soil. It will explain the process and describe where it is best applied. Remediation with mushrooms is very applicable for fuel and diesel spills and can be used in rural communities. At the end of the workshop, we will have some hands-on exercises including how to grow your own mushrooms for food.

Trainer: Birgit Hagedorn, Fungi Alliance

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PLANNING COMMITTEE MEMBERS

WATER RESOURCES & PUBLIC UTILITIES TRACK

Brian Berube – Alaska Native Tribal Health Consortium
Marleah Labelle – National Tribal Water Center

COMMUNITY HEALTH TRACK

Desirae Roehl – Alaska Native Tribal Health Consortium
Mike Brubaker – Alaska Native Tribal Health Consortium
Timothy Thomas – Alaska Native Tribal Health Consortium
Ingrid Stevens – Alaska Native Tribal Health Consortium
Cody Chipp – Alaska Native Tribal Health Consortium
Joe Sarcone – Alaska Pacific University

SOLID & HAZARDOUS WASTE TRACK

Trisha Bower – Alaska Department of Environmental Conservation
Sarah Durrand – Alaska Department of Environmental Conservation
Stephen Price – Alaska Department of Environmental Conservation
Rebecca Colvin – Alaska Department of Environmental Conservation
Christi Scott – Alaska Department of Environmental Conservation
Simone Sebalo – Zender Environmental Health & Research Group
Lynn Zender – Zender Environmental Health & Research Group
Reilly Kosinski – Zender Environmental Health & Research Group
April Reed-McCoy – Zender Environmental Health & Research Group
DaWayne Constantine – Summit Consulting
Katherine Brower – Yukon River Inter-Tribal Watershed Council
Tait Chandler – GreenStar of Interior Alaska
Nicole Baker – Net Your Problem
Anahma Shannon – Kawerak, Inc.
Gary Smith – Total Reclaim
Martha Turner – Nulato
Augusta Edmond – Alakanuk
Tia Katcheak – Stebbins
Vanessa Tahbone – Kawerak, Inc.
Melinna Faw – Alaska Department of Environmental Conservation
Michelle Snowball – Native Village of St. Michael
Jolene Auliye-Paniptchik – Native Village of Shaktoolik

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Abigail Nelson – Alaska Native Tribal Health Consortium
Mary Mullan – Alaska Native Tribal Health Consortium

Mansel Nelson – Northern Arizona University Institute for Tribal Environmental Professionals
Kayla Krauss – Environmental Protection Agency
Barbara Trost – Alaska Department of Environmental Conservation
Kyle Wright – Tanana Chiefs Conference
Alana Shaw – Village of Wainwright
Jeromy Grant – Honah Indian Association
Ali Everhart – Yukon Kuskokwim Health Corporation
Aileen Gagney – Tribal Healthy Homes Network

SUSTAINABILITY & RESILIENCE TRACK

Erica Lujan – Alaska Native Tribal Health Consortium
Tonya James – Alaska Native Tribal Health Consortium
Jacqueline Qataliña Schaeffer – Alaska Native Tribal Health Consortium
Ann Gravier – Department of Housing and Urban Development
Gina McKindy – Tanana Chiefs Conference
Annie Weyiouanna – Native Village of Shishmaref
Sally Russell-Cox – Division of Community and Rural Affairs
James Benzschawel – Division of Homeland Security and Emergency Management

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Joy Britt – Alaska Native Tribal Health Consortium
Bailey Richards – Alaska Native Tribal Health Consortium
Jasmin Muñoz – Alaska Native Tribal Health Consortium
CaSandra Johnson – Bristol Bay Native Association
Richard Chiolero – Chickaloon Native Village
Lisa Griswold – Alaska Department of Environmental Conservation
Erin Gleason – Alaska Department of Environmental Conservation

MONITORING, CAPACITY, & ASSORTED PROJECTS TRACK

Desirae Roehl – Alaska Native Tribal Health Consortium
Ida Norton – Alaska Native Tribal Health Consortium
Oxcenia O'Domin – Alaska Native Tribal Health Consortium
Sarah Ingram – Alaska Native Tribal Health Consortium

TECHNICAL TRAININGS TRACK

Oxcenia O'Domin – Alaska Native Tribal Health Consortium
AJ Salkoski – Alaska Native Tribal Health Consortium

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Theresa Wells
& Many others!

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