



OCTOBER 27 – 30, 2015
HILTON ANCHORAGE HOTEL

***HELPING TO BUILD
HEALTHY AND
SUSTAINABLE TRIBAL
COMMUNITIES***

21ST ALASKA TRIBAL CONFERENCE ON ENVIRONMENTAL MANAGEMENT





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GENERAL INFORMATION

NAME BADGES

Name badges serve as conference attendee’s entrance to all breakout sessions, meals, and events. Please wear your name tag at all times.

SILENCE CELL PHONES

Please remember to turn off or silence your cell phones during all sessions.

EMERGENCIES

Dial the Hilton Anchorage Hotel operator (zero) from any house phone and they will dispatch security, or call direct 272-7411 and ask for the operator.

HILTON ANCHORAGE HOTEL CONTACT INFORMATION

500 West Third Avenue
Anchorage, Alaska, 99501
907-272-7411
www.hiltonanchorage.com

PARKING

The Hilton Anchorage Hotel only offers valet parking at a rate of \$24.00 per day. Additional parking that is close to the hotel is also available at the following locations:

Lower Bowl (3rd & E St.) 225 E Street \$1/hour
Post Office Mall 344 W 3rd Avenue \$1/hour
Howard Johnson 220 W 3rd Avenue \$1/hour
5th & B Street Garage 420 B Street \$1/hour

MESSAGES

A message board will be located at the registration desk on the 2nd floor. Messages can be called in to the Hilton Anchorage Hotel 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.

CONSENT TO USE PHOTOGRAPHIC IMAGES

Registration and attendance at, or participation in, the 2015 Alaska Tribal Conference on Environmental Management constitutes an agreement by the registrant to Vision’s use and distribution (both now and in the future) of the registrant or attendee’s image or voice in photographs, videotapes, electronic reproductions, and audiotapes.

ENVIRONMENTAL EXCELLENCE AWARDS

This year, we will recognize the many faces of Environmental Excellence in Alaska. There awards are in the following categories:

Individual:

A motivated individual who has made a significant contribution to improving the environment such as a local environmental employee, council administrator, teacher, or other community member.

New Environmental Professional:

A fresh individual who is just getting started but shows promise to be an up and coming environmental leader.

Lifetime Achievement Award:

A dedicated individual who has put ages of hard work into the environmental cause. This individual is a true inspiration deserving the highest honor.

Community/Group:

A whole gaggle of individuals that have worked together to improve their local environment.

KEYNOTE PRESENTERS

TUESDAY 8:30AM – 9:45AM



SHAUNA HEGNA, ANTHC CHIEF ADMINISTRATIVE OFFICER

Shauna Hegna is ANTHC's Chief Administrative Officer. The position was created as a refinement to the Consortium's management structure and will enhance outreach, strengthen coordination and align ANTHC's strategic efforts. Ms. Hegna has extensive experience developing new projects and programs, as well as leading staff and departments. Ms. Hegna most recently worked as the Vice President of Shareholder Services

for Afognak Native Corporation. Before Afognak, she was the Deputy Director for RurAL CAP. Ms. Hegna is also active in volunteer efforts – she currently serves on the boards of the Covenant House Alaska, RurAL CAP Foundation, Rural Energy Enterprises and the Kita Development Corporation. Ms. Hegna grew up in Port Lions and is an enrolled Tribal member of the Native Village of Port Lions. She completed her undergraduate degree from the University of Alaska Anchorage and holds a master's degree in Rural Development from the University of Alaska Fairbanks.



WILSON JUSTIN HEREDITARY LEADER AND KEEPER OF SACRED STORIES

Wilson Justin was born in Midcentury at Nabesna, Alaska, a village later abandoned to comply with the educational requests of the Bureau of Indian Affairs. The family endured a decade of hardships in Chistochina and Mentasta Village but returned to the homelands for the summer months. As an adventurous youngster, Wilson Justin was prone to chasing shadows and was on the road

by the age of fourteen. Threatened with receivership at the Children's Home in Fairbanks, he returned to Mentasta Village in 1965 and soon after followed the rest of the family to Anchorage to finish High School, graduating from West Anchorage High School in 1968. Right out of High School, Wilson volunteered for the draft with the US Army. The backlist of draftees kept Wilson from a physical until fall of 1969, where to his surprise he failed the physical due to tinnitus. Not long after, he asked for a review of the classification which was 1 Y. In 1973 the Army sent him a letter of response changing the 1 Y classification to 4 F. While waiting for the Army response, Wilson spent time in Alaska's legendary big game business. Once the Army was no longer a viable option, Wilson began thinking of what kind of a career could be fashioned for an Athabascan with just a high school diploma.

There were no instructions in the sudden transition from a traditional society to a one descended from an English speaking world. Wilson had a natural curiosity of the world and soon was able to join the ANCSA Corporation for his region as a land planner trainee in 1977. For many years thereafter, Wilson would alternate between the corporate world and the outdoor big game guiding business. At the same time, mentors from the traditional Athabascan world would journey to the Nabesna Country to speak of stories and medicine men of the Headwaters People. Trips to other parts of the region invariably ended up in stories of the olden times and narrative of wars that occupied the Ahtna Nation prior to contact. This dual trail of western corporate culture running parallel to the traditional teaching became a part of Wilson's background until the late 1990's when the last of the clan storytellers and story keepers passed on. It was in this decade that climate change began to show its face in his recounting of the times his family lived through post World War II.

In 1993, after leaving Ahtna, Wilson began another quest in a new field. He helped start a health organization under Title V, an Act of Congress to allow Tribes to contract health services directly with the Indian Health Service. Named to the position of Health Director, Wilson represented Mt. Sanford Tribal Consortium for 17 years in yearly negotiations with the federal government on the meaning, costs, impact, and definition of health service in rural Alaska.

Wilson has advised federal agencies such as US EPA on issues around environmental program capacity building. In the early 1990's, US EPA began writing the Indian Environmental General Assistance Program statute (IGAP Act of 1992). Wilson played a critical role in the initial structuring of this program and its evolution over the years as it grew from just a handful of grants to Tribal governments to what it is today, with over \$27 million dollars in Region 10, Alaska and over 125 Tribes statewide choosing to partner on this program. He has Directed GAP programs, including Mount Sanford's environmental program, overseeing the development of a successful regional recycling program.

Wilson has professionally attended conferences for decades. He has led numerous discussions on climate change as an acclaimed speaker during interdisciplinary conferences such as the Alaska Forum on the Environment. The publication titled: *Alaska Forum on the Environment: Climate Change: Our Voices, Sharing our Ways Forward*, became a component to the US Department of the Interior, US Geological Survey, United States National Climate Assessment, Alaska Technical Regional Report (Circular 1379).

TUESDAY 1:30PM – 2:30PM



BERNIE KARL, CHENA POWER, LLC., PRESIDENT

Chena Hot Springs Resort Proprietor and General Manager. Bernie Karl purchased the resort from the State of Alaska in 1998, at which time the establishment was insolvent. He restructured the business model and transformed it into a profitable and sustainable company. Mr. Karl also reorganized the water distribution system and installed a direct use geothermal heating system to heat all buildings on site. He installed new roads, new trails, greenhouses, an extensive septic and leech field system, and erected several new buildings onsite, doubling the resort occupational capacity. Currently, he oversees the power plant facility, sets rebuild and maintenance schedules, and manages the load. In addition to other improvements, he installed geothermal heating and power system in greenhouses that produce all of the lettuce and tomatoes for the resort. The Chena Fresh greenhouse has the largest inside/outside temperature differential in the world.

The resort provides free renewable energy tours twice a day to general public and consistently provides free tours and lectures to schools and education organizations. The resort also holds the annual Renewable Energy Fair that is free to the public, educating them about sustainability.

WEDNESDAY 8:30AM – 9:30AM



DR. RUTH ETZEL, DIRECTOR, EPA CHILDREN'S HEALTH

Ruth A. Etzel, M.D., Ph.D. is Director of the Office of Children's Health Protection and a senior advisor to the Administrator. Previously Dr. Etzel was a Professor of Epidemiology at the University of Wisconsin – Milwaukee. As a Commissioned Officer in the United States Public Health Service, Dr. Etzel served in numerous public-sector leadership positions at Centers for Disease Control and Prevention, Department of Agriculture and Indian Health Service. She also served as the Senior Officer for Environmental Health Research at the World Health Organization.

Dr. Etzel is the founding editor of the influential book Pediatric Environmental Health. This book has helped to train thousands of doctors who care for children about how to recognize, diagnose, treat and prevent illness among children from hazards in the environment. In addition to being board-certified in Pediatrics, Dr. Etzel is also board-certified in Preventive Medicine. She is a courageous leader in bringing health risks to children to public attention and working collaboratively towards solutions. She was a pioneer in studying the health effects of exposure to secondhand smoke among infants; her work led to nationwide efforts to reduce indoor exposures to tobacco, including the ban on smoking in US airliners.

WEDNESDAY 12:00PM – 2:00PM



ALLISON WARDEN MASTER OF CEREMONY

Allison Warden (AKU-MATU) is an Iñupiaq Eskimo inter-disciplinary artist with a passion for the self-determination of Indigenous Peoples. She raps under the name AKU-MATU and is an "Artist in the Schools" for the Alaska State Council of the Arts, giving workshops to youth, empowering them through the use of theatre and music. She has performed as AKU-MATU at Columbia University twice as part of concerts held by the Department of Ethnomusicology.

Her one-woman show, "Ode to the Polar Bear" has traveled extensively across Alaska and has been completely reworked into a longer piece, "Calling All Polar Bears" which debuted at Pangea Theatre in Minneapolis, Minnesota as part of a National Performance Network performance residency grant. The show focuses on climate change and the push to drill in the Arctic National Wildlife Refuge. In 2011, she had a speaking role in "On the Ice" a film by Inupiaq filmmaker Andrew MacLean. In 2012, she received a Rasmuson Individual Artist award in performance art and also in 2012 was an "On Our Radar" artist for Creative Capital in performance art. In 2013, she received a Connie Boochever fellowship in performance art from the Alaska State Council of the Arts. She recently performed at the Anchorage Museum as part of her cinematic funk-fusion band, Yada Di. She is currently working on her AKU-MATU album with Seattle-based DJ WD4D. The first track, "Ancestor from the Future" was released in 2014.

KEYNOTE PRESENTERS



WINONA LADUKE, AUTHOR, ORATOR, ACTIVIST

Winona LaDuke (Anishinaabe) is an internationally acclaimed author, orator and activist. A graduate of Harvard and Antioch Universities with advanced degrees in rural economic development, LaDuke has devoted her life to protecting the lands and life ways of Native communities.

LaDuke is founder and Co-Director of Honor the Earth, a national advocacy group encouraging public support and funding for native environmental groups. With Honor the Earth, she works nationally and internationally on issues of climate change, renewable energy, sustainable development, food systems and environmental justice.

In her own community in northern Minnesota, she is the founder of the White Earth Land Recovery Project, one of the largest reservation based non-profit organizations in the country, and a leader on the issues of culturally-based sustainable development strategies, renewable energy and food systems. In this work, LaDuke also works to protect Indigenous plants and heritage foods from patenting and genetic engineering.

In 1994, *Time* magazine named her one of America's fifty most promising leaders under forty years of age, and in 1997 LaDuke was named *Ms. Magazine* Woman of the Year.

Other honors include the Reebok Human Rights Award, the Thomas Merton Award, the Ann Bancroft Award, the Global Green Award, and the prestigious International Slow Food Award for working to protect wild rice and local biodiversity. In 2007, LaDuke was inducted into the National Women's Hall of Fame.

LaDuke also served as Ralph Nader's vice-presidential running mate on the Green Party ticket in the 1996 and 2000 presidential elections.

In addition to numerous articles, LaDuke is the author of a number of non-fiction titles including *All Our Relations*, *The Winona LaDuke Reader*, *Recovering the Sacred: the Power of Naming and Claiming*, *Food is Medicine: Recovering Traditional Foods to Heal the People* and her latest, *The Militarization of Indian Country*. She has also penned a work of fiction, *Last Standing Woman*, and a children's book, *In the Sugarbush*.

THURSDAY 3:00PM – 5:00PM



KEALOHA, POET LAUREATE

Kealoha is the first Poet Laureate of Hawai'i. As an internationally acclaimed poet and storyteller, he has performed throughout the world -- from the White House to the 'Iolani Palace, from Brazil to Switzerland. He is the first poet in Hawai'i's history to perform at a governor's inauguration, and in 2010 he was selected as a master artist for a National Endowment for the Arts program. In the 7 years that he has represented Hawai'i at the National Poetry Slam, he has performed on the finals stage 4 times, was ranked in the top ten of the nations best poets in 2007, and was honored as a "National Slam Legend" in 2010. Kealoha was featured on HBO's *Brave New Voices* series presented by Russel Simmons, and he has performed at hundreds of live venues throughout the world including the Schiffbau (Zurich, Switzerland), the Bienal do Ibirapuera (Sao Paulo, Brazil), the NFL Pro Bowl halftime show, and the National Storytelling Network Conference. He is the poetic vocalist for Henry Kapon's "Wild Hawaiian" project (nominated for a Grammy), and has served as Hawai'i's SlamMaster since 2003. Kealoha is the founder of HawaiiSlam, Youth Speaks Hawai'i (2-Time International Champions), and First Thursdays (the largest registered poetry slam in the world with 500+ in attendance). He graduated with honors from MIT with a degree in Nuclear Physics (and a minor in writing), served as a business consultant in San Francisco, and played around as a surf instructor prior to becoming a professional poet in 2002. Visit www.KealohaPoetry.com for more information.

TECHNICAL TRAINING SESSIONS

SATURDAY, SUNDAY, AND MONDAY (OCTOBER 24TH – 26TH) 8:00AM – 5:00PM

40 HOUR HAZWOPER CERTIFICATION COURSE: HAZWOPER 40-hour is required for workers that perform activities that expose or potentially expose them to hazardous substances. This course is specifically designed for workers who are involved in clean-up operations, voluntary clean-up operations, emergency response operations, and storage, disposal, or treatment of hazardous substances or uncontrolled hazardous waste sites. Topics include protection against hazardous chemicals, elimination of hazardous chemicals, safety of workers and the environment and OSHA regulations. This course covers topics included in 29 CFR 1910.120.

Trainers: *Carolyn Sanders, Rural Alaska Fuel Services, INC.*

Location: *Birch/Willow Room*

FRIDAY 4 HOUR HALF-DAY TRAINING SESSIONS

AIR QUALITY 101: INDOORS AND OUTDOORS: Why should I think about Air Quality? The air looks OK to me. Well, a person can live more than 3 weeks without food, about 4 days without water, and about 5 minutes without air. Air is our first need. And for long-term health, the air needs to be clean. Come to this training and learn why some folks think a lot about air. **(4 hours 8:00AM-Noon)**

Trainer: *Patricia Ellsworth, ITEP*

Location: *Lupine Room*

US EPA BROWNFIELD TRIBAL RESPONSE PROGRAM COORDINATORS: Workplan Updates: Current US EPA Brownfield Alaska Tribal Response Program Coordinators will meet with EPA Brownfield Project Officers to review their new STRP Program Workplan Template and best management practices for their programs. **(4 hours 8:00AM-Noon)**

Trainer: *Mary Goolie, US EPA Region 10 Brownfield*

Location: *Iliamna Room*

WATER QUALITY FOR EVERYONE! : This training will allow participants to learn and/or extend their knowledge in water quality, water quality sampling methods, and water quality data assurance. The emphasis of this workshop focuses on the usage of basic instruments and simple step-by-step methods to measure physical, chemical, and biological parameters of water. An important component of this workshop will be the interpretation of water test results and learning how to correlate those results back to water quality. No knowledge or skills in water quality testing methods is required for this training. **(4 hours 8:00AM - Noon)**

Trainers: *Edda Mutter, Maryann Fidel, and Danielle Stickman, Yukon River Inter-Tribal Watershed Council*

Location: *King Salmon Room*

DEVELOPING AN ANNUAL BUDGET AND INTERPRETING FINANCIAL REPORTS: Why should tribal governments adopt budgets? What is the process for developing an annual budget? How much do tribal governments receive from granting agencies for indirect costs? How much should gaming operations clear? How can grant income and expenses be tracked and accounted for? When should you pay for an audit? This workshop will answer these questions and provide attendees with opportunities to learn how to scrutinize budgets and review financial reports. Tribal council members often don't feel qualified interpreting budgets and financial reports provided by their accounting staff. The rows and columns of numbers in financial reports are often confusing and don't give leaders the information they need to make important decisions. Attendees will work in small groups reviewing and critiquing budgets and financial statements from rural Alaska communities and draw conclusions from them. The workshop will also provide tribal leaders with user-friendly tools that can simplify the tracking and interpreting of tribal finances and give them a better understanding about their government's bottom line. **(4 hours 1:00PM – 5:00PM)**

Trainers: *Fred Broerman, DCRA Bethel Regional Office; Roberta Eleazer, DCRA Anchorage Regional Office*

Location: *Lupine Room*

METHAMPHETAMINE & DRUG LAB IDENTIFICATION FOR TRIBES: This course is unique in that you will not find this information available most anywhere else other than law enforcement or fire response. Tribal Solid Waste Advisory Network (TSWAN), through this unprecedented class, has raised awareness to over 500 tribal workers nationally who have found this training to be one of the most useful in their work environment as they frequent or respond to private properties or on open land such as parks and forests where mobile labs are frequently found. This course is provided by TSWAN and the Washington State Patrol and will include mock scenes for real life situations to increase safety and awareness. This course has been presented twice as a national webinar through EPA reaching over 200 Tribal individuals. **(4 hours 1:00PM – 5:00PM)**

Trainer: *Kami Snowden, Tribal Solid Waste Advisory Network*

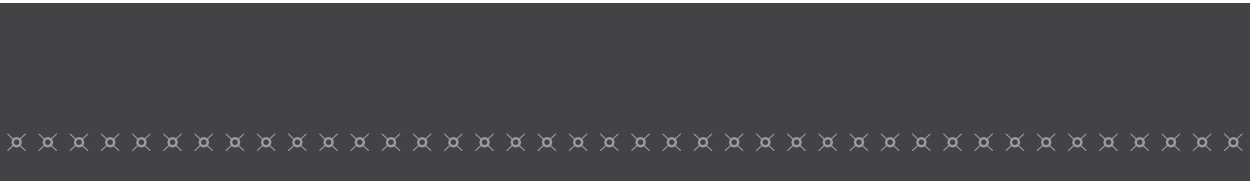
Location: *Iliamna Room*

FRIDAY 8:00AM – 5:00PM

8 HOUR HAZWOPER REFRESHER CERTIFICATION CLASS: HAZWOPER certification is required for persons desiring to work on hazardous material clean-ups; including oil and fuel spills. Persons with a 40 hour or 24 hour certificate require an annual 8 hour refresher to maintain their certification. Persons taking this class will be required to show current certification in order to get credit for the refresher. **(8 hours 8:00AM – 5:00PM)**

Trainer: *Carolyn Sanders, Rural Alaska Fuel Services, INC.*

Location: *Birch Room*



PASSING ON THE KNOWLEDGE - SHARING WHAT YOU'VE LEARNED WITH YOUR

COMMUNITY: Back for a second year by popular demand - Transform how you share information with your community! Are you looking for new ways to provide outreach in your community? Does the thought of speaking in public scare your pants off? Do want to learn how to build Power Point presentations that won't put your audience to sleep? If you answered "YES" to any of these questions, we invite you to join our class! Learn how you can take what you've learned at this conference and others and share it in your community. During this day long training, you will discover ideas for increasing community interest and involvement; gain a better understanding about how to plan productive meetings; learn how to create a simple, yet effective Power Point presentation and much, much more! **(8 hours 8:00AM – 5:00PM)**

Trainers: *Oxenia O'Domin and Desirae Roehl, Alaska Native Tribal Health Consortium; Charlie Ess, RurAL CAP; Anahma Shannon, Kawerak, Inc.*

Location: *Aspen Room*

RURAL ALASKA LANDFILL ADMINISTRATOR (RALA) TRAINING: This 8 hour landfill management training focuses on best management practices for Class III rural landfills and is geared towards administrators. The course will include presentations on funding, permitting, landfill fees, managing the landfill operator, and other topics. In addition to a certificate, you will leave this course with an understanding of how your rural community landfill should be managed and how to reduce its impact on the environment. **(8 hour 8:00AM – 5:00PM)**

Trainers: *Rebecca Colvin and Trisha Bower, Alaska Department of Environmental Conservation Solid Waste Program*

Location: *Fireweed Room*

TRACKS & SESSIONS



TUESDAY 10:00 AM – 10:50 AM

WATER QUALITY & SANITATION: King Salmon Room

Indigenous Observation Network: Water Quality Monitoring Project: Water Quality Monitoring Project: Communities of the Yukon River Basin across Alaska and Canada have participated in the Indigenous Observation Network (ION) water quality monitoring project since 2006. This project is supported by the Yukon River Inter-Tribal Watershed Council (YRITWC) and United States Geological Survey (USGS) National Research Program, Alaska Science Center, Alaska Climate Science Center, and local environmental technicians. ION is largely a water quality network but also serves as a forum for permafrost monitoring and Traditional Knowledge preservation. The main objectives of ION are to expand the understanding of what water quality standards currently exist in Alaska and to interpret how the data that has been collected along the Yukon River measures up to these standards. The data collected



as part of this project adds to USGS data archives from the Yukon River during the years 2001-2005, as well as data that continues to be collected by the USGS at Pilot Station and the Arctic Great Rivers Observatory (AGRO) project. This presentation will explore and interpret the scientific data that has been gathered through this network and will share insights about the overall health of the watershed. YRITWC samplers and all other ATCEM participants are invited to come and learn more about this diverse and magnificent river.

Presenters: *Edda Mutter and Nicole Wilson, Yukon River Inter-Tribal Watershed Council; Ryan Toohey, USGS*

AIR QUALITY & HEALTHY HOMES: Lupine Room

How To Maintain Your HRV (video) in Yup'ik: Aleknagik Traditional Council made a video in Yupik for elders to understand how to maintain their Heating, Recovery, and Ventilation system (HRV). Last year's showing of "Simple Steps for a Healthier Home" was a great success. Out of that session, people wanted to see a video on HRV's in Yupik for elders, so we took that to heart and produced a video. Come to our session to learn the Yupik way of maintaining your HRV's.

Presenter: *Tina Tinker, Aleknagik Traditional Council*

CHILDREN'S ENVIRONMENTAL HEALTH IN ALASKA: A ROUND TABLE DISCUSSION WITH DR. RUTH ETZEL, EPA'S OFFICE OF CHILDREN'S HEALTH PROTECTION: Lupine Room

Please join this open discussion about children's environmental health challenges, solutions, and efforts in rural Alaska. This is an opportunity to share your observations, thoughts and questions with Dr. Ruth Etzel, Director of EPA's Office of Children's Health Protection. Your input will be used to help inform Agency policy and priorities, especially in addressing children's environmental health needs in Alaska. This session will use a talking circle format. Everyone is welcome.

Discussion Questions

- What do you think the most important children's health challenges are in your community?
- What are some examples of programs and efforts that are helping improve children's health in your community?
- What other ideas do you have that could improve and protect children's health in your community?
- How is climate change impacting children's health in your community?

Presenter: *Dr. Ruth Etzel, EPA Office of Children Health Protection*

SOLID WASTE: Aspen Room

Success Story – We Built a Landfill for \$150K with Community Buy-In and Support: This presentation is about the grassroots effort by the community of Arctic Village to construct a new landfill using local resources. They successfully leveraged a small amount of funding from the State of Alaska, 150K, and turned it into a successful project. The community decided to construct a new landfill during a community meeting in 2012, and so the project had community buy-in from the beginning. Arctic Village successfully leveraged their

TRACKS & SESSIONS

resources and permitted, designed, and constructed a well thought out landfill without the help of a consultant or an outside contractor. The Arctic Village Council was successful because they had the support of their entire community. This presentation is about how they did it and how it could be done in other communities across Alaska. The State of Alaska will be moderating the presentation.

Presenter: Brandon Garnett, Arctic Village Council

LEO & CLIMATE CHANGE: Birch Room

2015 - The Year in Review: Tribal Environmental Programs and Climate Change

Presenter: Wilson Justin, Cheeshna Tribal Council

HOW ARE YOUR BERRIES? 2015 EDITION: Birch Room

Presenter: Jerry Hupp, USGS

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: Fireweed Room

The Application of Traditional Ecological Knowledge and Tribal Sovereignty to Adapting to Environmental Change: Climate change in Alaska is impacting Alaska Native communities in various ways including coastal erosion, flooding, hydrological changes to watersheds, dramatically increasing temperatures, altered sediment dynamics, reduced suitable physical habitat for fish, and impacts to human health and subsistence resources that Alaska rural communities rely on. As the result of several years of community team effort, bringing in an array of stakeholders and expertise, building partnerships, extensive information gathering including Traditional Ecological Knowledge, critical thinking, and engaged planning, the Native Village of Elim has developed a localized, actionable planning effort that has strengthened its capacity to manage water resources and maintain resiliency to the inevitable impacts of climate change as exacerbated by potential mining and other development with the Tubutulik River watershed.

The presentation will focus on how, with the use of TEK, Alaska Native governments and communities can effectively manage natural resources for climate change and water resources adaption planning, focusing on the Norton Bay Climate Change Adaption Plan and related projects as examples. The presentation will include strategies for encouraging the federal government to recognize its trust responsibility to Alaska Native Tribes, for addressing water temperature change and protecting the environment consistent with the cultural and traditional needs of such tribes and villages.

Topics Include:

- 1) The application of Traditional Ecological Knowledge in climate change mitigation and adaptation;
- 1) The application of the Federal Trust Obligation to federally recognized Alaska Native Tribes;
- 2) Government-to-Government Consultation;
- 3) Federally Reserved Water Rights;

4) Alaska Native Tribal Sovereignty and Jurisdiction; and

5) The combination of TEK, sovereignty and human rights doctrines as a means of addressing climate change.

Presenters: Hal Shepherd, Water Policy Consulting, LLC; Emily Murray, Native Village of Golovin

BROWNFIELDS: Iliamna Room

EPA Brownfield Resources: This session will provide an overview of the resources that the EPA Region 10 Brownfield Program offers: the Brownfield ARC (104K) Competitive cooperative agreements, the Brownfield State and Tribal Response Program (128a) Capacity Building cooperative agreements, Targeted Brownfield Assessments (TBA), and other resources as well. The session will benefit Federally Recognized Tribes, Tribal Consortia, Regional/Village Corporations, and other forms of local governments in researching potential funds for cleanup of contaminated sites with a re-use plan in place.

Presenter: Mary Goolie, EPA

TUESDAY 11:00 AM – 12:00 PM

IGAP HOUR - IGAP FY 17 FUNDING ANNOUNCEMENT

Region: Lower Kuskokwim Region, ANTHC, AVCP
Room: Aspen
Presenter: Santana Gay, EPA

Region: Mid Yukon-Kuskokwim; Southcentral; Kodiak; Upper/ Mid Yukon-Kuskokwim
Room: King Salmon
Presenters: Adrienne Fleek & Mahri Lowinger, EPA

Region: Prince William Sound/Southeast, Bristol Bay, Aleutian Pribilof Islands
Room: Iliamna
Presenter: Michelle Davis, EPA

Region: Upper Yukon, Eastern Interior, Interior; Copper River
Room: Birch
Presenter: Sherry Kimmons, EPA

Region: Arctic North Slope, Northwest Arctic, Norton Sound, Lake Iliamna/Kvichak, Nushagak
Room: Fireweed
Presenters: Sally Thomas & Catherine Villa, EPA

TRACKS & SESSIONS

TUESDAY 3:00 PM – 3:50 PM

WATER QUALITY & SANITATION: King Salmon Room

Utility Operation and Maintenance Best Practices: What you can do to maximize funding opportunities: Beginning in 2015, state and federal funding agencies adopted a new method for awarding operations and maintenance (O&M) scores for community sanitation project proposals. The revised criteria rewards communities for their efforts in properly operating and maintaining their existing infrastructure, as well as following appropriate management techniques. This discussion is meant to provide further information about how communities can work to achieve higher O&M scores, thus improving the likelihood of project funding.

Presenters: *Carrie Bohan, Alaska DEC; Tammy Helms, RUBA*

AIR QUALITY & HEALTHY HOMES: Lupine Room

Extension Healthy Homes Partnership: Many homes in Alaska may not have some of the “usual” healthy home concerns as those in the lower 48 (lead, asbestos, pest management, etc.) due to relatively young housing stock. Yet with the climate and moisture in the state, the delicate dance between ventilation, moisture, and energy efficiency can exacerbate other concerns such as carbon monoxide, asthma, mold, accessibility, etc.) Come see how an “Alaskanized” version of the Extension Healthy Homes Partnership Curriculum can be taught to residents, whether on the road system or in rural Alaska.

Presenter: *Art Nash, UAF*

SOLID WASTE: Aspen Room

Rural Development-Solid Waste Management and Rural Community Development Initiative Leadership Funding Opportunities through the Rural Community

Assistance Corporation (RCAC): Session will cover the USDA-Rural Development Solid Waste Management grant and RCDI- Leadership Development grant opportunities available through the Rural Community Assistance Corporation (RCAC) for rural Alaskan communities. Presentation will continue:

1. Brief overview of Rural Community Assistance Corporation (RCAC) - an organization that provides free technical and training assistance to rural communities.
2. Overview of RDSWM grant program: The Solid Waste Management (SWM) Grant Program has been established to assist communities through free technical assistance and/or training provided by the grant recipients. Qualified organizations will receive SWM grant funds to reduce or eliminate pollution of water resources in rural areas, and improve planning and management of solid waste sites in rural areas.
3. Types of SWM projects eligible for the RDSWM grant.
4. Brief discussion of RCACs current Alaska SWMG project and examples of other tribal projects.

5. Overview of RCDI Leadership Development program: RCAC’s USDA funded RCDI program provides training and/or technical assistance to build capacity of local organizations so they may improve the quality of life in their communities. RCAC has staff that specialize in a broad range of community and economic development areas. Capacity building training could focus on topics such as creating a local leadership cadre, supporting local small business entrepreneurship, or undertaking community planning. RCAC works with each selected community to tailor a RCDI program that responds to community specific needs. Projects typically range from one to three years.
6. Process for applying for RDSWM funding through RCAC.
7. What is involved for communities that participate in the RCDI Leadership Development program.
8. Questions and Answers.

Presenters: *Jacqueline Shirley & Steven Palmer, Rural Community Assistance Corporation*

LEO & CLIMATE CHANGE: Birch Room

Impacts on the Natural Environment: Climate Change and Terrestrial Environment: This talk will describe the role of the USGS in providing scientific information to the public and policy makers for their decision-making and the current research activities of the USGS in the terrestrial environment. This includes research on a wide array of species and topics and involvement of Alaska Tribal environmental managers and their observations of ecosystem change.

Presenter: *John Pearce, USGS*

Impacts on the Natural Environment: Climate Change and the Marine Environment:

Alaska’s marine waters support coastal economies through commercial fisheries, aquaculture and subsistence fisheries. Traditional users and scientists recently have documented changes in those waters, especially temperature, circulation and changes to the pH (commonly known as “acidification.”). Along with changes in the sea, people are noting changes in fish abundance, distribution and behaviors. Invasive species, harmful algal blooms and seafood-linked pathogens are showing up or becoming more abundant. So far, harmful effects in Alaska have been relatively minor but they serve as indicators of what is to come as global climate change continues to advance. This session briefly summarizes documented and observed changes, offers some projections of changes to come, as well as a few thoughts on possible adaptive measures.

Presenter: *Terry Johnson, Sea Grant*

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: Fireweed Room

Fish and Shellfish: Consumption Guidelines, Contamination, and Radiation Concerns:

Fishing and shellfish harvesting are important to the economy and culture of Alaska. Fish and shellfish are harvested for traditional living, providing Alaskans with nutritious food and allowing the perpetuation of culture and traditions. While, in general, most Alaska fish, shellfish, and crustaceans are recommended for consumption without restriction, some conditions could add limits for consumption. These conditions could be environmental contamination or certain marine species that may by their biology accumulate more toxins and toxicants than others.

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This session will provide insight into the ways the State addresses environmental contamination of fish and shellfish. The session will present on three main topics:

1. The Alaska Fish Consumption Guidelines. These guidelines were developed by the Alaska Scientific Advisory Committee for Fish Consumption. The guidelines, directed towards children and women of childbearing age, were designed to help Alaskans make decisions about their fish consumption. The State of Alaska Hair Mercury Monitoring Program will also be presented.
2. The Fukushima Nuclear Accident. The accident, which occurred in Japan in 2011, raised some concerns among some Alaskans about the safety of the fish caught in Alaska waters. The request from the public to obtain some assurance that Alaskan fish were safe for consumption prompted a collaborative effort among various state, federal, local, tribal, private, and international entities to address concerns and test fish for radiation.
3. Two case studies will be presented that address the contamination of clams with metals in two Alaskan communities. The risk and exposure assessment methodologies and their challenges will be addressed. We will also show how these risk assessments resulted in recommendations guiding the public in their decision to harvest clam in their living environment.

Presenter: *Ali Hamade, State of Alaska*

BROWNFIELDS: Iliamna Room

Free Technical Assistance? Sign Me Up and Put It On the TAB! The Center for Creative Land Recycling (CCLR) provides FREE technical assistance to Alaska communities under U.S. EPA's Technical Assistance to Brownfields Communities (TAB) program. CCLR provides consulting support to communities helping guide them through the education, outreach, planning, cleanup, restoration and redevelopment process. This session will introduce participants to the EPA Brownfields program and how it applies to your communities, the TAB program, and the technical support available to your communities. During this session you will learn how you can obtain beneficial technical assistance.

Presenter: *Ignacio Dayrit, CCLR*

TUESDAY 4:00 PM – 5:00 PM

WATER QUALITY & SANITATION: King Salmon Room

Enhancing Tribal and Environmental Regulation in the Yukon Watershed through Indigenous Knowledge and Tribal Conservation District: The Yukon River Inter-Tribal Watershed Council (YRITWC) and the Indigenous communities within the Yukon River Basin are working together toward the shared vision to once again drink clean water directly from the Yukon River as our ancestors did for thousands of years before us. As climate change and development threaten Native Alaskan resources, all 54 signatory Alaskan Tribes of the YRITWC struggle to secure their environmental quality through environmental

regulation because: 1) Indigenous Knowledge is only rarely incorporated into environmental regulation, 2) limited resources and capacity for Tribes to participate in the regulation process, and 3) jurisdictional challenges. The YRITWC Science Department is currently working on a project that addresses these concerns.

This presentation is an update covering a three-year funded project by the Administration for Native Americans (ANA). The main objective is to assist three communities (Arctic Village, Venetie, and Tanana) in developing Tribal Conservation Districts (TCD) to increase community participation in environmental regulation within their areas of interest. Forming a TCD helps enable Tribes to participate more effectively in Environmental Regulation. This process starts by prioritizing of community concerns, developing Indigenous Knowledge and Science plans that correspond to these concerns, initiating monitoring of these concerns, increasing community capacity to develop environmental regulations that incorporate Indigenous Knowledge, infrastructure to store data and building partnerships that address legal and technological gaps within these communities.

Presenters: *Edda Mutter, Maryann Fidel, & Danielle Stickman, Yukon River Inter-Tribal Watershed Council*

AIR QUALITY & HEALTHY HOMES: Lupine Room

How to Make Your Home a Healthy Home: This presentation will take the audience through a basic explanation of the different aspects of a "Healthy Home", detailing some of the common sources of poor indoor air quality found in rural Alaskan homes. All the while focusing on why this is so important for the health and well being of the home occupants and visitors. The presentation will conclude with an introduction on how to conduct a "Healthy Home" assessment of homes in YOUR communities.

Presenter: *Racheal Lee, TCC*

SOLID WASTE: Aspen Room

New and Not so New Landfill Technologies and Low Cost No Cost Upgrades:

Interested in learning about new and not so new technologies that can be utilized in your landfill program? Want to know what a Bio-digester is. How a Logger Bailer works? How about the plastics to oil process experiment for cleaning up marine debris? Come and hear about exciting technologies and products that can upgrade/improve your landfill program. Have a limited budget? After learning about new technologies we will be kicking it old school with some low cost to no cost improvements for your landfill. We will discuss ideas on how to engage your community to get on board with good solid waste management and low cost solutions to common problems found in rural landfills in Alaska.

Presenter: *Ted Jacobson, EPA*

LEO & CLIMATE CHANGE: Birch Room

Community Vulnerability - Climate Change -Infrastructure Design and Community

Response: Melting shorelines, reduced ice pack, subsiding land, lack of shorefast ice, warming winters, sediment laden rivers, increased rainfall and drying tundra ponds are the

TRACKS & SESSIONS

future of the artic. The engineering of infrastructure in this environment will challenge the design and construction groups to the limit. This session will look at some of the innovative ways being employed by engineers to adapt infrastructure to this changing environment. The session will also look at current efforts in adaptation and resilience planning, with a focus on some of Alaska's most imperiled communities.

Presenter: Mike Black, ANTHC

Impacts on Communities: Planning for Resilience and Sustainability

Presenter: Sally Cox, DCCED

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: Fireweed Room

Reflective Storytelling: Incorporating Traditional Ecological Knowledge and Language into Environmental Education: Traditional learning and teaching methods coincide nicely with the field of environmental education. Both rely heavily upon the outdoors and nature as a teacher and guide for what is true. Traditional languages often incorporate learning about the environment as an essential element of the stories, and these stories often embed scientific concepts. We can enhance our ability to reach all generations of many cultures by incorporating their traditional teaching methods into our lessons as educators. This celebrates and honors traditional knowledge and languages. This presentation will show the attendees how environmental educators have worked with other cultures to unite environmental education with traditional teaching methods and languages and will leave them thinking of ways to implement positive environmental changes into their home communities.

Presenters: Bethany Nichols, Chickaloon Native Village; Kay Shoemaker, UAF

BROWNFIELDS: Iliamna Room

Division of Homeland Security and Emergency Management: The Division of Homeland Security and Emergency Management is presenting on the Small Community Emergency Response Plan (SCERP). This flip chart is a brief but detailed guide for responding in the first 72 hours after a disaster, designed specifically for communities with populations of 2,000 or less. While these do not replace Emergency Operations Plans as full disaster response plans, they are grab-and-go tools based around life safety and asset protection. These plans are community specific because they're made by the community members themselves using DHS&EM templates, with support from DHS&EM as requested. 47 Alaskan communities have completed SCERPs in the last 2 years, and a couple have already seen them in action; all with positive review. Our goal is to supply every small community these invaluable disaster response tools. Secondary to the SCERP, DHS&EM will also be presenting on individual and family preparedness at the home. Topics will include what to do before, during, and after a disaster to mitigate damages. Presentations will include informational handouts for participants, as well as tools to begin creating your own SCERP. Alaska Native Tribal Health Consortium will introduce their Emergency Preparedness Program and discuss their relationship to DHS&EM and specifically the SCERP.

Presenters: Alex Fonteyn & Kim Weibl, Alaska Division of Homeland Security and Emergency Management; Tonya James, ANTHC

WEDNESDAY 10:00 AM – 10:50 AM

WATER QUALITY & SANITATION: King Salmon Room

How Landfill Water (Leachate) Can Impact Your Environment: This session will discuss how water that comes into contact with trash picks up contaminants and becomes leachate. A hydrologist with the ADEC Drinking Water Program will demonstrate how water, sometimes carrying contaminants such as those comprising leachate, moves in the ground and at times may result in impacts to human health and the environment. This session will wrap-up with methods and real world examples on how to reduce the production of leachate.

Presenters: Rebecca Colvin, ADEC Solid Waste; Charley Palmer, ADEC Drinking Water

AIR QUALITY & HEALTHY HOMES: Lupine Room

Air Quality and Healthy Homes: Ever wondered what in the world a QAPP is? Not sure what to think when you hear micrograms per cubic meter? Then this is the session for you! It will introduce the language of air quality in a down-to-earth and fun way so that participants can walk away with a better understanding of the acronyms and terminology commonly used in air quality work. There will be activities and visual aids along with straightforward examples to reinforce the information presented.

Presenter: Patricia Ellsworth, ITEP

SOLID WASTE: Aspen Room

Kachemak Tribal Communities Electronic Waste Recycling Initiative: Seldovia Village Tribe (SVT) staff will share how the remote Kachemak Bay (i.e. Cook Inlet, Alaska) communities of Seldovia, Port Graham, and Nanwalek organized, collected, and backhauled over 5,000 lbs of electronic waste in the spring of 2015 in partnership with EPA and a local non-profit organization, Cook Inletkeeper. SVT staff will share how they were able to fund the project (hint: not IGAP funds), help create electronic waste recycling plans for the three communities, create educational materials, meet the logistical challenges of transporting the electronic waste from these communities (which are only accessible by boat or plane), and rally local community support for the project.

Presenters: Michael Opheim & Tracie Merrill, Seldovia Village Tribe

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES

Ecotourism Can Feed Environmental and Cultural Sustainability: Chickaloon Native Village is in the process of developing a Tribal Ecotourism program to increase appreciation and stewardship of natural resources and culture as well as develop economic and cultural sustainability. This presentation will introduce 'ecotourism', share some early successes and convey lessons learned.

Presenter: Jessica Winnestaffer, Chickaloon Native Village

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BROWNFIELDS: Iliamna Room

Developing your Brownfield Inventory: Establishing an inventory of brownfield sites in your area is required of Tribal Response Programs. However, the inventory can be much more than a reporting requirement. This session will highlight the benefits of completing site inventories and some of the options for creating an inventory that best meets your community's needs.

Presenter: *Katie Bante, TCC*

WEDNESDAY 11:00 AM – 12:00 PM

IGAP HOUR - SOLID AND HAZARDOUS WASTE IMPLEMENTATION

Region: Lower Kuskokwim Region, ANTHC, AVCP
Room: Aspen
Presenters: Sally Thomas & Santina Gay, EPA

Region: Mid Yukon-Kuskokwim; Southcentral; Kodiak; Upper/ Mid Yukon-Kuskokwim
Room: King Salmon
Presenters: Adrienne Fleek & Mahri Lowinger, EPA

Region: Prince William Sound/Southeast, Bristol Bay, Aleutian Pribilof Islands
Room: Iliamna
Presenter: Michelle Davis, EPA

Region: Upper Yukon, Eastern Interior, Interior; Copper River
Room: Birch
Presenter: Sherry Kimmons, EPA

Region: Arctic North Slope, Northwest Arctic, Norton Sound, Lake Iliamna/Kvichak, Nushagak
Room: Fireweed
Presenter: Catherine Villa, EPA

WEDNESDAY 2:30 PM – 3:20 PM

WATER QUALITY & SANITATION: King Salmon Room

King Fisher Lake and Creek Coho Salmon Population and Habitat Study: Seldovia Village Tribe (SVT) staff will present on a two year project they have begun this summer (2015) in assessing habitat, water quality, and a coho salmon population at a local lake and within connecting creeks. Concern was raised about the sustainability of this particular fish population and resource given increased fishing activity/pressure on the area, declines in catches/harvests of coho salmon from other local fishing spots, and sediment removal of nearby creek beds

for road construction/maintenance. This presentation may be especially applicable to tribes considering doing fish population studies in light of climate change or other threats to their fish resources. Participants will learn about potential funding sources for such a project, methods and phased approach for undertaking such a project, and preliminary results.

Presenters: *Michael Ophem & Tracie Merrill, Seldovia Village Tribe*

AIR QUALITY & HEALTHY HOMES: Lupine Room

Case Studies – In Home Assessment for Asthma Triggers: This session will focus on interactive learning through case studies that will help participants feel more comfortable identifying and remediating asthma triggers including allergens, irritants, ventilation, and mold in homes within their communities that have children with asthma. Prior knowledge about allergens and irritants including pests, dust mites, pets, outdoor allergens, mold, tobacco smoke, volatile organic compounds, dust, particulate matter, strong odors, and wood smoke is encouraged, but not required.

Presenter: *Cynthia Isaacson, American Lung Association*

SOLID WASTE: Aspen Room

Solid Waste Ordinance and Fees – What Your Neighboring Villages Are Doing: This presentation will kick off with a presentation from villages from varying regions of the State who will present on their local Solid Waste Ordinances and Fees. They will discuss their fee structures and their local utility ordinances and how they have implemented them in their community. After 20 minutes of presentations, the floor will be opened up for a talking circle to discuss what fees everyone charges and how you collect your utility fees. There is often a wide range of fees charged by villages with very similar demographics, for example in the Northwest Arctic Borough the solid waste fee for the local school varies from \$0-\$4000 per month for service. This presentation/talking circle hopes to provide a meaningful platform for discussion of this issue. At the end of this presentation various examples of solid waste ordinances and fee structures, as well as a few templates will be made available for participants.

Presenter: *Trisha Bower, ADEC*

LEO & CLIMATE CHANGE: Birch Room

Community Reports: Climate Change in the Bering Strait Region – Results from a regional assessment

Presenters: *Anahma Shannon, Kawerak, Inc.; Jennifer Demir, Norton Sound Health Corporation*

Community Reports: It Really Takes a Village – The Value of Partnerships in Adapting to a Changing Environment: Over the past 50 years, Alaska has warmed twice as fast as the rest of the United States, raising concerns about how climate change threatens the livelihoods and villages of Alaska Natives. This session will share the recent research and activities conducted by the five Landscape Conservation Cooperatives (LCCs) in Alaska and how Tribal environmental programs and their councils can use this information to help prepare for climate impacts. Join us to learn how Tribes can engage in leadership roles at the LCCs

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and upcoming workshops on vessel traffic, coastal flooding and inundation, river and erosion monitoring, and oil spill response. This session will also include open discussion on potential ways to link future IGAP proposals to these topics and other LCC activities.

Presenters: *Susan Flensburg, BBNA; Karen Pletnikoff, APIA*

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: Fireweed Room

Reindeer Herding in Port Heiden: The Port Heiden Reindeer Herding Project is a fulfillment of the Tribe to meet their resident's needs: game for food, agriculture for economic development, apprenticeship for herding skills, and social development and behavioral health.

Presenter: *Jaclyn Christensen, The Native Village of Port Heiden*

BROWNFIELDS: Iliamna Room

DEC's Brownfield Assessments and Cleanups (DBAC) Program: Brownfields are properties in which the redevelopment or reuse is complicated by real or perceived contamination. The Alaska Department of Environmental Conservation (DEC) offers free assessment and cleanup services to help communities reuse brownfield properties. This session will provide information on eligibility, liability, and the application process, the range of services we can provide for eligible applicants, the types of brownfields that have been awarded these services around the state, and the elements that make up a successful brownfield project.

Presenters: *Amy Rodman & Christy Howard, ADEC*

WEDNESDAY 3:30 PM – 4:30 PM

WATER QUALITY & SANITATION: King Salmon Room

State Water Quality Standards Update: The Department of Environmental Conservation-Division of Water will present an update on various efforts to revise and/or adopt new state water quality standards. The presentation will address such issues as the 2015-2017 Triennial Review, DEC efforts to update human health criteria for toxic substances, and adoption of the EPA-recommended 2012 recreation criteria for bacteria in marine waters.

Presenter: *Brock Tabor, ADEC*

AIR QUALITY & HEALTHY HOMES: Lupine Room

The Alaska Wildfire Season in Review + Round Table Discussion: Alaska was challenged with an extraordinary wildfire season in 2015, with over 5 million acres burned as of mid-August. Join this session to hear a summary of what this wildfire season entailed - the number, extent, and impact of the fires, the evacuation work, and the air quality impacts. In the second part of the session, participants are invited to join in an open discussion and share how wildfires impacted their communities and strategies they used for protecting them. Please join to share your experience. Everyone is welcome.

Presenter: *Roundtable*

SOLID WASTE: Aspen Room

College Education and a Safe Landfill for Your Community, Go Together and You Can Make it Happen: Does where you put your garbage have you concerned about the safety and health of your community and environment? It should! Handling the ever increasing amounts and types of waste and hazardous materials in a manner that protects your community is a significant challenge requiring specific training. In rural Alaska, there are only a few formal education training programs dealing with waste management, recycling, and spill response. To meet this educational gap a partnership was formed between the University of Alaska Fairbanks College of Rural and Community Development (UAF CRCD) and Zender Environmental's Rural Alaska Community Environmental Job Training Program (RACEJT) to develop an accredited local workforce training that teaches how to safely manage village waste streams that meets Alaska Department of Environmental Conservation (DEC) standards. This program includes the new UAF Rural Waste Management and Spill Response Technician Occupational Endorsement (OE), a 10-credit college program designed to provide students a foundation of skills necessary to address waste management issues. This session will explain the application process for under-employed individuals to receive, at no cost, the required solid waste and spill response training to safely manage the modern waste stream and respond to emergency spills and leaks; including Zender's RACEJT and UAF's Occupation Endorsements.

Presenter: *Todd Radenbaugh, UAF*

LEO & CLIMATE CHANGE: Birch Room

Community Reports: Climate Change Impacts to Yurok Resources in Northern California, The Yurok Tribe Experience

Presenter: *Joe Hostler, Yurok Tribe*

Community Reports: Climate Change the Application of Traditional Ecological Knowledge and Tribal Sovereignty to Adapting to Environmental Change: Climate change in Alaska is impacting Alaskan Native communities in various ways including coastal erosion, flooding, hydrological changes to watersheds, dramatically increasing temperatures, altered sediment dynamics, reduced suitable physical habitat for fish, and impacts to human health and subsistence resources that Alaska rural communities rely on. As the result of several years of community team effort, bringing in an array of stakeholders and expertise, building partnerships, extensive information gathering including Traditional Ecological Knowledge, critical thinking, and engaged planning, the Native Village of Elim has developed a localized, actionable planning effort that has strengthened it's capacity to manage water resources and maintain resiliency to the inevitable impacts of climate change as exacerbated by potential mining and other development with the Tubutulik River watershed. The presentation will focus on how the use of TEK, Alaskan Native governments and communities can effectively manage natural resources for climate change and water resources adaption planning focusing on the Norton Bay Climate Change Adaption Plan and related projects as examples. The presentation will include strategies for encourage the federal government to recognize it's trust responsibility to Alaska Native Tribes, for

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addressing water temperature change and protecting the environment consistent with the cultural and traditional needs of such tribes and villages.

Topics Include:

- 1) The application of Traditional Ecological Knowledge in climate change mitigation and adaptation;
- 1) The application of the Federal Trust Obligation to federally recognized Alaska Native Tribes;
- 2) Government-to-Government Consultation;
- 3) Federally Reserved Water Rights;
- 4) Alaska Native Tribal Sovereignty and Jurisdiction; and
- 5) The combination of TEK, sovereignty and human rights doctrines as a means of addressing climate change.

Presenters: *Hal Shepherd, Water Policy Consulting*

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: Fireweed Room

Applying Traditional Knowledge to Address Social and Environmental Crisis from Local to Global Scales: For humanity to find a way past our current global environmental and social crises, we need to think and behave much differently than we do today. Our only hope is revolution of thought, a paradigm shift in the way we view our human and biophysical systems collectively across a variety of spatial scales, from local to global. The problems we face in today's rapidly expanding global economy are extremely complex due to the interactions of an infinite number of open- and closed-systems. Western science provides both philosophical and technical tools to analyze these systems, although usually in a discrete manner, or through oversimplifications required in rudimentary numerical simulations (computer models).

Western science's reductionist methods exist in stark contrast to the more holistic view prevalent in indigenous traditional knowledge. Western science is based on a positivist approach with materialistic goals. Traditional indigenous knowledge purposely avoids the reductionist method that resulted in a set of discrete disciplines because the interconnectedness of systems is not only understood, but is the primary focus with little deference to materialistic goals. Traditional knowledge is a spiritual knowledge with a focus on the relationships between humans and nature, and on the balance necessary to sustain the former by also sustaining the latter.

Traditional indigenous knowledge is being investigated by both Western scientists and philosophers as a means of understanding healthy human interactions with their biophysical environments that may allow survival of the human species over millennia to come due to its sustainability focus. Within a traditional knowledge framework, natural resource management and development is understood as occurring on an evolving biophysical stage, with resulting changes in carrying capacity of the systems involved. Without the ability to adapt to rapid environmental changes, whether natural or anthropogenic, the human species will continue to

generate capacity problems at a rate that technology will not be able to solve.

Western science is based on qualitative and quantitative information and transmission through literary means. An archive exists, which is one of its strengths. Indigenous traditional knowledge is transmitted through storytelling and the spoken word, often in a native language, passing from generation to generation. A storehouse of information regarding the complex interactions of human and biophysical subsystems and how constantly changing environmental conditions impact them is lost even when a single generation fails to forward that knowledge. Acculturation has taken its toll on Alaska Native communities because of the rate at which it has occurred. Native languages are becoming lost, and without them the wealth of traditional knowledge will be lost with it forever. We cannot afford to allow this tradition, this way of conceptualizing the world to be lost. For if we do, not only will local Native cultures suffer, but the world will have missed what may be its last opportunity for survival. Therefore, the traditional knowledge of indigenous people must adopt one Western tradition – the tradition of record.

Presenter: *David Arnold, Native Village of Nuiqsut*

BROWNFIELDS: Iliamna Room

Cleaning and Demolition of Decommissioned Bulk Fuel Tanks: As part of the Denali Commission's effort to put code compliant bulk fuel tank facilities throughout rural Alaska, an unintended consequence is the abandonment and deterioration of decommissioned bulk fuel tanks. These tanks represent both a safety and environmental risk. RAFS is undertaking an effort to clean and cut up these tanks in order to remove potential hazards. This session reviews the process and potential funding sources to remove abandoned bulk fuel tanks.

Presenter: *Del Conrad, Rural Alaska Fuel Services, Inc.*

THURSDAY 8:30 AM – 9:30 AM

WATER QUALITY & SANITATION: King Salmon Room

The Alaska Water and Sewer Challenge: There are currently approximately 3,300 year-round occupied rural Alaska homes that lack running water and a flush toilet (2,300 homes in 35 "unserved" communities and 1,000 homes in served communities). In addition, over 700 homes are served by operation-intensive haul systems. Keeping existing systems operational is a challenge for most villages, and there are approximately 4,500 rural homes that are connected to community-wide piped systems that have surpassed or are nearing the end of their design life. The Alaska Department of Environmental Conservation, in coordination with Tribal, state and federal agencies, has initiated a project to spur worldwide research to develop innovative and cost effective water and sewer systems for homes in remote Alaska villages. The project focuses on decentralized water and wastewater treatment, recycling, and water minimization. These approaches have a high potential for use in individual homes and housing clusters. Our goal is to significantly reduce the capital and operating costs of in-home running water and sewer in rural Alaska homes.

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The Steering Committee for the Alaska Water and Sewer Challenge (AWSC) includes individuals from various Tribal, state and federal agencies with knowledge relevant to the technical aspects of this project. The group meets regularly to review the status of work and to make decisions regarding the progression of the project. Key responsibilities include evaluation of Statements of Qualifications, project proposals, prototypes, and the results of field testing.

The State began this multi-year research and development project in 2012. The first two phases for Team Formation and Proposal Development have been completed. We are currently transitioning into Phase 3: Prototype Development and Laboratory Testing. At a minimum, household service will consist of a kitchen sink, a bathroom sink, a toilet, a shower, and a tap and drain for a clothes washing machine. The following performance targets have been established for this project:

- Acceptance and use by end users
- Water use for health benefits - Systems should be capable of providing a minimum of 15 gallons of usable water per persons per day, comprised of water for drinking and cooking, washing and flushing.
- Operation and maintenance cost - Projected monthly operating costs should not exceed \$135, which is 5% of the Median Household of unserved rural Alaska communities.
- Capital cost
- Constructability and durability
- Feasibility
- Parts availability
- Freeze/thaw recovery capability
- Modularity of household system
- Compliance with plumbing code, wastewater discharge requirements, and other regulations

An ideal system would be capable of meeting all these targets, but there may be suitable systems that meet most of these targets but not all, and exceed some targets.

Presenter: Fatima Ochante, ADEC

AIR QUALITY & HEALTHY HOMES: *Lupine Room*

Road Dust 101: Road dust is a common alignment for rural Alaskans and combating the issues can be complex and costly. Applying palliatives can be cost prohibitive and can require a year or more to organize the application; but palliatives are not the only way to reduce road dust. The Alaska Department of Environmental Conservation invites you to attend our session where we will cover options that every village can use to help reduce road dust and help Alaskans breathe a little easier.

Presenter: Jon Wendel, ADEC

Update on Seldovia Village Tribe's Road Dust Monitoring: Road Dust is a big concern in many rural Alaskan communities. Since 2012, Seldovia Village Tribe staff have been monitoring for road dust (PM-10) at several sites along Jakolof Bay Road in Seldovia, AK.

Participants of this session will learn how SVT staff started an air monitoring program, funding sources, methods and equipment used, challenges encountered with monitoring, how the program has evolved, results to date, when air monitoring can be appropriate to address air quality questions/issues, and how the monitoring has led to positive impacts in dust control measures in the community.

Presenters: Michael Opheim & Tracie Merrill, Seldovia Village Tribe

The Native Village of Ruby's Collaborative Road Dust Management Project: The Native Village of Ruby is conducting a road dust project involving both education and outreach in the community and direct improvements to the roads. The Tribe received funding from the U.S. Department of Transportation Federal Highway Administration for piloting innovative dust mitigation techniques. With these funds and partner support, the Tribe is applying two types of dust palliatives, using lightweight equipment that can be flown in on a small plane, training their staff, and monitoring the air quality impacts before and after. The Tribe is also conducting education and outreach with youth and the broader community around slowing down vehicles to help keep dust down and extend the life of the palliatives. Join us to learn more about their project, the preliminary air quality data results (pre and post palliative application), and dust management strategies that could be used by other communities.

Presenter: Billy Connor, Alaska University Transportation Center

SOLID WASTE: *Aspen Room*

A Manager's Roadmap for Funding Sustainable Solid Waste Programs in Rural Alaska:

In this session, we will introduce a new document: A Manager's Roadmap for Funding Sustainable Solid Waste Programs in Rural Alaska. The Roadmap is for all federal, state, municipal, and tribal managers who are concerned with funding, planning, executing, managing, or designing waste management programs in rural Alaska. The Roadmap outlines the key steps in an ideal sustainable waste program and where to find state and federal funding to pay for each step. This session will be an interactive session. Participants will be able to learn about the Roadmap and provide feedback on the Roadmap.

Presenters: Angel Ip and Wenona Wilson, EPA

LEO & CLIMATE CHANGE: *Birch Room*

The LEO Network: About LEO - LEO Overview and Observations - Year in Review

Presenters: Mike Brubaker, Moses Tcheripanoff & Mary Mullan, ANTHC

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: *Fireweed Room*

Lead-Free Rifle Ammunition: Time For a Change?: Lead ammunition is believed by many experts to be the single largest unregulated source of lead pollution in our country. While lead can have negative impacts on both human and environmental health, there remains much controversy over the impact of lead hunting ammunition. Fortunately, recent research has helped to clarify the costs and benefits of the ammunition choices we make. In this presentation we will discuss the science surrounding human lead toxicity as well whether non-lead hunting ammunition represents a viable option for hunters in our state.

Presenter: Leif Albertson, University of Alaska Fairbanks

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BROWNFIELDS: Iliamna Room

The ANCSA, Tribal Lands, and Brownfields: This session will be "different"--- will utilize attendee wisdom,

- Purpose of session: develop solutions
- What we all agree on: clean it up!
- How the ANCSA came to be
- What the ANCSA means for the land
- Definition of "tribal lands"
- Size of the problem
- Issues related to clean-up of contaminated sites
- What's the reality?
- Changes on the horizon
- Q & A
- What are your solutions?

Presenter: Larry Lau, Tantikil UNLIMITED, Inc.

THURSDAY 10:00 AM – 10:50 AM

WATER QUALITY & SANITATION: King Salmon Room

Energy Efficiency in Sanitation Systems: In 2010, The Alaska Native Tribal Health Consortium (ANTHC) Department of Environmental Health and Engineering (DEHE) began the Rural Energy Initiative (REI) to improve the sustainability of rural sanitation and health systems in Alaska. This energy program develops a variety of renewable energy sources; including biomass, solar, wind, and hydro to reduce fuel and electricity needs. Additionally, REI identifies energy efficiency measures and implements them by providing energy improvements and training to reduce energy usage. In all, the Rural Energy Initiative has worked in more than 50 communities throughout the entire State of Alaska to reduce dependency on diesel fuel and diesel generated electricity. This session will cover the variety of ways ANTHC works to directly reduce energy costs, as well as the opportunities available for your community to reduce energy costs.

Presenters: Sharnel Vale & Tashina Duttie, Alaska Native Tribal Health Consortium

AIR QUALITY & HEALTHY HOMES: Lupine Room

Bed Bugs – What You Can Do: Bed bugs are becoming more and more common across Alaska. There are many things that individuals can do to control and prevent bed bugs in their own homes. Methods are simple, safe, and effective when done correctly. DEC provides a step by step guide to controlling bed bugs, and where to get accurate information on this subject.

Presenter: Karin Hendrickson, Alaska Pesticide Control Program

SOLID WASTE: Aspen Room

What's in Your Wallet? Solid Waste Program Decisions on a Tight Budget: How do you make spending decisions when your community and council want or need more than what you have? To manage your program, you need to decide what to cut and what to keep. Come to this interactive learning session that will help make your program more financially sustainable. Lynn Kenealy, a Local Government Specialist from the State of Alaska, will lead participants through a series of interesting worksheets and real-world examples of making budget decisions. You will come away with more confidence in how you make program decisions, and how to present those decisions to your council and community. If you think budgets and numbers are boring, come to this session and we can change your mind. Thoughtful budgets and numbers all about knowing your community and its relationship to your solid waste program. Good decisions can make your community safer and happier and can lead to more grant funding.

Presenter: Lynn Kenealy, State of Alaska

LEO & CLIMATE CHANGE: Birch Room

LEO Network: Demonstration to LEO App Viewer and LEO App Reporter

Presenter: Mike Brook, ANTHC

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: Fireweed Room

Community Responses in a Changing Water System: A Multi-Disciplinary Approach to Community-Based Water Monitoring Among Tribes and First Nations in the Yukon River Basin: Arctic watersheds are undergoing alterations as a consequence of climate change and threats posed by resource development. Indigenous peoples in these high latitude hydrosocial systems are among the first to be affected by these changes due to the complex interconnections between culture, health and environment, but expert approaches to studying these problems frequently fail to incorporate local concerns and communities often distrust the resulting data. Alternately, communities are initiating monitoring programs in response to concerns about changes in water resources. Community-based monitoring is a process where stakeholders including Non-Governmental Organizations and representatives from territorial/provincial, federal, Tribal and First Nations governments work together to monitor and respond to community concerns. This poster examines the benefits and challenges associated with two related Community-Based Monitoring programs coordinated by the Yukon River Inter-Tribal Watershed Council. The Yukon River Inter-Tribal Watershed Council, an Indigenous grassroots organization consisting of 70 signatory Indigenous nations from Alaska, Yukon and British Columbia, engage traditional knowledge and community concerns through water quality monitoring to protect and preserve the Yukon River and its tributaries. Analysis reveals that participating Alaska Native Tribes and First Nations value these programs for their role in providing independent data that increases knowledge of environmental change within their traditional territories and across the Yukon River basin. While it also demonstrates how water quality data can be applied to directly address diverse community concerns about health and environment, further analysis of the various uses of this data in decision-making processes is needed. This case study highlights some best practices for addressing common problems

TRACKS & SESSIONS

associated with community-based monitoring including program sustainability, quality control and effective methods for communicating results to community partners. Furthermore, it provide suggestions regarding how current programs might be developed to both better represent community concerns by community uses, values and traditional knowledge of water and improve the use of data in decision-making processes.

Presenter: *Nicole Wilson, YRITWC*

BROWNFIELDS: Iliamna Room

Meth/Drug Lab Identification for Tribal Workers in Environmental Health and Safety:

Learn how some Tribal lands have become a sanctuary for methamphetamine and drug lab manufacturing and how the discovery of these labs by outside policing agencies is easily avoided. In a commitment to raise awareness for tribal leaders, workers, businesses and community members, this session will provide introductory information for a full 4-Hour training session to take place Friday, October 30. This course is designed to help ensure personal and public safety from the hazards and potentially lethal exposure to a meth and/or drug labs in tribal areas. This session will provide visual documentation from working methamphetamine labs and provide the knowledge and strategies on how to identify these scenes. Attendees will be given introductory information and tips on how to respond to a lab discovery without jeopardizing tribal workers, the community and the environment, in preparation for an additional training that will include mock scenes and better enable Tribal entities to identify and control a clandestine lab situation.

Presenters: *Kami Snowden, Tribal Solid Waste Advisory Network; Jeffrey Kershaw, Washington State Patrol*

THURSDAY 11:00 AM – 12:00 PM

IGAP HOUR - GRANTS.GOV

Region: Lower Kuskokwim Region, ANTHC, AVCP
Room: Aspen
Presenter: Santana Gay, EPA

Region: Mid Yukon-Kuskokwim; Southcentral; Kodiak; Upper/ Mid Yukon-Kuskokwim
Room: King Salmon
Presenters: Adrienne Fleek & Mahri Lowinger, EPA

Region: Prince William Sound/Southeast, Bristol Bay, Aleutian Pribilof Islands
Room: Iliamna
Presenters: Sally Thomas & Michelle Davis, EPA

Region: Upper Yukon, Eastern Interior, Interior; Copper River
Room: Birch
Presenter: Sherry Kimmons, EPA

Region: Arctic North Slope, Northwest Arctic, Norton Sound, Lake Iliamna/Kvichak, Nushagak
Room: Fireweed
Presenter: Catherine Villa, EPA

THURSDAY 1:00 PM – 2:30 PM

WATER QUALITY & SANITATION: King Salmon Room

The Value of Source Protection: “An ounce of prevention is worth a pound of cure”

Benjamin Franklin. This presentation will provide insight into the value of implementing protection activities for a water system at the source water level, as well as understanding the source of your drinking water and state designated protection area. Along with this, we will explore the Drinking Water Protection Group’s ongoing efforts to implement these activities statewide, and the tools available for you to develop a protection plan.

Presenter: *Rebecca Baril, ADEC*

Protecting Water Quality in Local Streams and Lakes: Lakes, rivers, and streams are essential to healthy communities. Rural citizens can take simple, common-sense steps to protect the water quality in rural streams and lakes. Clean water nourishes fish and wildlife, as well as being necessary for health and well-being for people. This session will describe the problems associated with lowered water quality in surface water bodies and then describe actions that everyone can take to prevent many water quality problems associated with nonpoint source pollution.

Presenter: *Jeanne Swartz, ADEC*

AIR QUALITY & HEALTHY HOMES: Lupine Room

Indoor Air Quality Assessment Hour: Join this session to learn about a few key indoor air quality assessment tools that you can use as part of your healthy homes and indoor air quality work. Hear from Racheal Lee, Tanana Chiefs Conference-Office of Environmental Health (TCC-OEH), about the indoor quality assessment tool that TCC-OEH uses in collaboration with IGAP staff in communities in their region. Learn from AJ Salkoski of the Alaska Native Tribal Health Consortium about how to use ANTHC’s Rapid Healthy Homes Assessment Checklist.

Presenters: *Racheal Lee, TCC; AJ Salkoski, ANTHC*

Air Matters Toolkits-The Nuts and the Bolts: A healthy home requires clean heat, adequate ventilation, and regular maintenance. Yet climate, distance, and cost are barriers in rural Alaska communities, so what can you do to improve indoor air and the health of your community? In this session, we will introduce the Air Matters program, a toolkit that focuses on preventative practices and informed residents. Each kit is ordered and customized for residents, with up to 11 different tools that detect, measure, or prevent contaminants, including hygrometers, wood moisture meters, chimney thermometers, green cleaning products, and carbon monoxide detectors.

TRACKS & SESSIONS

Learning Objectives

- #1:** Learn how to promote safe and healthy housing through a simple, low-cost toolkit that informs and motivates residents.
- #2:** Get to know each of the tools in the kit, how and why they are used and personally select which ones might be appropriate for your home and community.

Presenters: *Aileen Gagney, American Lung Association; Erika Whittaker, Tribal Healthy Homes Network*

SOLID WASTE: Aspen Room

Alaska Solid Waste Workgroup Meeting and Important Solid Waste Announcements:

The Alaska Solid Waste Workgroup is an ad hoc, open member group of all entities that provide statewide, or regional solid waste assistance. Meetings are held during major conferences for the purpose of exchanging project information, avoiding duplication and waste of effort, sharing funding opportunities, and discussing needs and strategies in moving rural Alaska solid waste conditions forward. Anyone is invited to attend and share information at this workgroup meeting, however solid waste service providers will be invited to talk first so that any urgent or important information can be shared. Through USDA Rural Development, Zender Environmental is able to help organize this meeting and compile notes). PLUS - at the beginning of the meeting, important solid waste announcements will be made about solid waste IGAP changes, and backhaul information!

LEO & CLIMATE CHANGE: Birch Room

LEO Network: LEO Network Talking Circle: The talking circle is a traditional way for Alaska Native/American Indian people to listen, learn, and solve problems. It is a very effective way to remove barriers and to allow people to express themselves with complete freedom; incorporating the group process in addressing issues by involving a culturally appropriate approach can help ensure the possibility of successful outcomes. 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. The Talking Circle generates a continuum of hope and partnership with other tribal members that encourages them to share life events and assures them that travel in the circle is not solitary. The Talking Circle can open up avenues of cooperation and strength to cope with issues of concern not only to Indigenous Peoples, but possibly others as well.

How a Talking Circle Works

1. Everyone sits in a circle, generally with men to the North and women to the South and the facilitator of the circle will generally sit in the East.
2. A token, such as a feather or a special talking stick, is passed clockwise around the circle. If someone does not wish to speak, they simply pass the token.
3. Only one person speaks at a time - only the person holding the feather or talking stick may speak. Dialogues are not part of the circle, as they can become confrontational.

4. Introduce yourself - it is polite to introduce yourself in the first round. Use your spirit name, if you have one; otherwise, use your given name.
5. Speak from the heart - the speaker should address the circle from the heart, and may speak for as long as they need to, with respect for the time of others.
6. Listen with respect - all people except the speaker listen attentively and give support to the speaker. Listening with the heart allows you to hear the true intent beneath what the speaker is saying. Listen in the way you expect others to hear you.
7. What is said in the circle stays in the circle - never repeat anything that is said within the circle, unless you have the permission of the speaker.

Finally, the token may go around several times; when everyone has had the opportunity to speak as many times as they wish, the facilitator ends the circle.

Presenter: *Moses Tcheripanoff, ANTHC*

TRADITIONAL KNOWLEDGE & ENVIRONMENTAL VALUES: Fireweed Room

Modern vs. Traditional Values: Modern vs. Traditional values is to help fellow Alaska native youth today to learn about how to have our Alaska native values and modern values and how it is to live in an urban setting or visit an urban setting for first time and all the different leadership opportunities we have in an urban setting. I will have different inspirational stories from different Alaska native people who grew up in the village and came to an urban setting and having an inspirational carrier setting. I will ask the crowd during the workshop is a different series of questions on their ideas of what is modern vs. traditional and urban vs. a rural setting what is the different, etc.

Presenter: *Sierra Shangin - Daugherty, UAA*

BROWNFIELDS: Iliamna Room

Community Highlights: Gakona Village's Youth Environmental Summit: The Native Village of Gakona facilitates the Youth Environmental Summit (YES); a day camp event where children ages kinder- 8 from the Copper River region come together to participate in activities that give them a foundation to become stewards of their environment. The youth gathering is supported by a team of partners, sponsors, and volunteers from the local community and throughout the State of Alaska. It typically takes place the first week of summer vacation and draws crowds of up to one hundred children. This session will highlight Gakona's success with YES and discuss the process of developing and coordinating partnerships to create a influential community events.

Presenter: *Tim Skiba, Native Village of Gakona*

TRP Success Story

Presenters: *Scott Lockwood & Jeff Long, Native Village of St. Michael*

PRESENTER BIOS

ALBERTSON, LEIF **University of Alaska Fairbanks** **lealbertson@alaska.edu**

Leif Albertson lives in Bethel, Alaska where he works for UAF's Cooperative Extension Service. His primary work focuses on education outreach surrounding issues of rural Alaskan health. He has degrees in both Biology and Health Policy and he holds certifications as both a Registered Environmental Health Specialist and a Healthy Homes Specialist.

ARNOLD, DAVID L. PH.D. **Native Village of Nuiqsut** **drdavidlarnold@gmail.com**

Dr. David L. Arnold, environmental and administrative consultant for the Native Village of Nuiqsut tribal government, was born and raised in the San Francisco Bay Area. He earned an A.S. degree in Architecture from West Valley College (Saratoga, California), a B.S. in Geography from the University of Nevada-Reno, M.S. degree in Geography from the University of Idaho, and Ph.D. in Atmospheric Science from Indiana University. His professional career began in 1985 as instructor at the University of Idaho and later at Indiana University, then as professor at Mississippi State University, Ball State University (Indiana), and Frostburg State University (Maryland University System).

Dr. Arnold participated in field work from 2006-2009 in the Colville River Delta region, then made a career change into local government in 2009 as City Administrator for Nuiqsut (Alaska), serving in that role for three years. After a short two-year stint as Executive Director of a non-profit organization in Interior Alaska, Dr. Arnold began employment with the Native Village of Nuiqsut as a grant writer, then as environmental coordinator and administrative support assistant in early 2014.

Dr. Arnold has published 10 peer-reviewed international scientific studies; written successful grant proposals in excess of \$4 million; provided 37 invited keynote speeches; produced radio and television programming and has been featured on CNN, NBC Nightly News, ABC's Good Morning America, Turner South, and The National Geographic Channel; was recognized as Faculty Member of the Year Award in the Department of Geography at Ball State University each year from 1999-2006; and served as Chair of the National Weather Association Broadcast Seal of Approval Examining Committee and as President of the Indiana Chapter of the American Meteorological

Society. Dr. Arnold's outside interests include backpacking, photography, skiing, fishing, hunting, reading, writing, and music.

BANTE, KATIE **Tanana Chiefs Conference** **katie.bante@tananachiefs.org**

Katie Bante is an Environmental Health Specialist with Tanana Chiefs Conference (TCC) in Fairbanks, AK. She began learning about brownfields while working for the ANTHC Tribal Response Program five years ago. Katie is the Coordinator for TCC's Tribal Response Program (TRP), established in 2014. As a new TRP, TCC is focused on laying a strong foundation now, so they can provide the most benefit to Tribes they work with in the future. Meeting funding requirements in a meaningful way works to build capacity beyond the life cycle of the grant.

BARIL, REBECCA **State of Alaska - DEC** **rebecca.baril@gmail.com**

Rebecca moved to Alaska in 2011 from Sault Sainte Marie, MI where she completed her dual Bachelor's degree at Lake Superior State University. She joined the Drinking Water Protection Program for the State of Alaska in 2012, and has been working with the program to advocate for the implementation of protection activities for public water systems across the state.

BLACK, MIKE **ANTHC/DEHE/State of Alaska/DCRA** **mlblack@anthc.org**

Mike Black is Director of Department of Rural Utilities Management at the Environmental Division of Environmental Health and Engineering Division of ANTHC. Mr. Black's Department of Rural Utilities Management is responsible for the operations of water and sewer services in a number of communities affected by the changing Arctic environment. In operating and maintaining these systems a number of engineering and design concerns have arisen that the Department's engineering and operations staff have had to address.

BOHAN, CARRIE **ADEC**

carrie.bohan@alaska.gov

Carrie Bohan is the program manager for the Operator Certification and Training Program, as well as the Remote Maintenance Worker Program, for the Alaska Department of Environmental Conservation. Both programs

provide training and technical assistance to water and wastewater utilities throughout the state in an effort to build the local capacity required to successfully operate and maintain the systems. Carrie has fifteen years of experience working with Alaskan communities on sanitation and development issues.

BOWER, TRISHA **ADEC- Solid Waste Program** **trisha.bower@alaska.gov**

Trisha Bower has a B.S. in Biological Sciences and has been a Biologist in the State of Alaska since 2006; solid waste management has been her focus for the past 8 years. Before working for the State of Alaska ADEC Solid Waste Program, she was employed by the Tanana Chiefs Conference and worked with the 38 affiliated TCC communities on solid waste management. She enjoys a variety of outdoor activities in Alaska, and as a parent is dedicated to preserving Alaska for future generations to enjoy.

BROOK, MIKE **ANTHC** **mjbrook@anthc.org**

BRUBAKER, MIKE **mybrubaker@anthc.org** **ANTHC**

Mike Brubaker specializes in assessing health conditions in rural communities. In particular he focuses on environment, pollution, development, and climate change. Mike was born in Juneau Alaska and raised in Anchorage. He earned his BS in Biology from St. Lawrence University and a MS in Environmental Management from the University of San Francisco. He publishes a weekly e-journal entitled The Northern Climate Observer.

CHRISTENSEN, JACLYN **Native Village of Port Heiden** **jaclynreameychristensen@gmail.com**

I am a mother of two young children together with my husband we chose to live in the rural community to enrich their lives with the same traditional values that we grew up with. Reindeer herding actually runs in my family. My great grandmother Sara Hansen grew up with her families herd in Pilot Point, AK. The Native Village of Port Heiden is an exciting tribal entity to work for because with the capacity of grant writing and collaboration with other tribes in the region we accomplish many ways of meeting our small community needs.

COLVIN, REBECCA **ADEC Solid Waste Program** **rebecca.colvin@alaska.gov**

Rebecca Colvin was born in Mississippi and graduated from the University of Southern Mississippi with a BA in Business. She moved to Alaska right out of college, met her future husband and is happily raising their two kids in Anchorage. After joining the ADEC Solid Waste Program in 2009, she learned a great deal about solid waste management and has used her business background to run special projects and outreach efforts for the program.

CONNOR, BILLY **Alaska University Transportation Center** **bgconnor@alaska.edu**

CONRAD, DEL **Rural Alaska Fuel Services, Inc.** **dconrad@rafs.net**

Del Conrad is the CEO of Rural Alaska Fuel Services, Inc. and for the last eleven years has worked with rural communities on tank farm operations and fuel financing. Mr. Conrad is currently the technical consultant for the State of Alaska Bulk Fuel Loan Program, working with borrowers to establish sustainable pricing and collection policies.

COX, SALLY **DCCED**

Sally Russell Cox is a planner with the Alaska Division of Community and Regional Affairs (DCRA). Sally manages DCRA's efforts to help Alaska's communities become more resilient to natural hazards and climate change, including the Alaska Climate Change Impact Mitigation Program, the Alaska Community Coastal Protection Project, the Risk Mapping, Assessment and Planning (Risk MAP) Program, and the Newtok Planning Group.

DAVIS, MICHELLE **EPA** **michellev.davis@epa.gov**

Michelle is one of the Tribal Coordinators with the US EPA Region 10. She works with Tribes in Southeast and Prince William Sound and is a point of contact for Tribal Climate change issues. Michelle is an enrolled member of the Tlingit and Haida Indian Tribes of Alaska, and is a member of the Tlingit Eagle Moiety and Killer whale house. She lives in Wasilla, Alaska.

PRESENTER BIOS

DAYRIT, IGNACIO

Center for Creative Land Recycling (CCLR)
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Ignacio coordinates CCLR's technical assistance program for redevelopment projects, and has assisted states, cities and tribal communities with brownfields programs and projects. He has over 25 years of experience in public sector development including: fiscal and financial analysis, public debt financing, feasibility analyses, and urban design. Ignacio is a redevelopment expert having spent 20 years with the City of Emeryville, where he was responsible for the city's Brownfields Program and instrumental in the redevelopment of hundreds of acres of blighted property. He holds a Master's in City Planning from the University of California at Berkeley.

DEMIR, JENNIFER

Norton Sound Health Corporation

DURAND, SARAH

ADEC Solid Waste Program
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I'll take Garbology for 400 Alex! Put your thinking cap on and test your knowledge of solid waste management jeopardy style. We will have a fun and fast paced round of game shows you can play that will cover a wide variety of solid waste topics. Afterwards we will have an open forum for you to try to stump the solid waste experts so bring your community solid waste questions and challenge the experts to provide ideas and solutions for your landfill, recycling, backhaul, or funding questions.

DUTTLE, TASHINA

ANTHC
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Tashina Duttie is a Project Manager within the Alaska Native Tribal Health Consortium's Rural Energy Initiative department. Her projects include energy efficiency solutions and renewable energy applications to make public facilities more affordable for communities. Her typical projects include renewable energy projects utilizing biomass as fuel, waste heat recovery projects between power plants and public utility buildings, and energy efficiency improvement projects. Tashina graduated in 2013 from the University of Alaska Fairbanks with a Bachelor of Science in Sustainable Resource Management and a Sustainable Energy Occupational Endorsement. She is currently completing her Project Management Master's Degree at the University of Alaska Anchorage's College of Engineering.

ELLSWORTH, PATRICIA

Institute for Tribal Environmental Professionals (ITEP)

patricia.ellsworth@nau.edu

Pat Ellsworth is a biologist by training. Her work with the Institute for Tribal Environmental Professionals (ITEP) began in November 1992. Since then she has served as Curriculum Coordinator for the American Indian Air Quality Training Program (AIAQTP). The U. S. Environmental Protection Agency provides funding for the AIAQTP so that training in air quality is available to tribal staff throughout the U.S. Pat often looks at the sky, wondering "How's the air quality today?" In the rest of her life she likes to grow native plants and spend time with family.

ESS, CHARLIE

RurAL CAP
cess@ruralcap.com

Charlie Ess moved to Alaska from Minnesota in 1978. Ess semi-retired from commercial fishing in 1995 and currently writes for magazines and has worked as a program coordinator with RurAL CAP since 2007.

ETZEL, DR. RUTH

US Environmental Protection Agency

Ruth A. Etzel, M.D., Ph.D. is Director of the Environmental Protection Agency's Office of Children's Health Protection and a senior advisor to the Administrator. Previously, Dr. Etzel was a Professor of Epidemiology at the University of Wisconsin – Milwaukee. She received her MD from the University of Wisconsin School of Medicine and completed residencies in Pediatrics and Preventive Medicine in Chapel Hill, North Carolina. Dr. Etzel was selected for the prestigious Robert Wood Johnson Clinical Scholars Program, and during her fellowship discovered that protection from environmental contaminants was integral to keeping children and their families healthy. She received her PhD in Epidemiology from the University of North Carolina School of Public Health. As a Commissioned Officer in the United States Public Health Service, Dr. Etzel served in numerous public-sector leadership positions including working in Alaska for the Indian Health Service as the Research Director at the Alaska Native Medical Center. She is a courageous leader in bringing health risks to children to public attention and working collaboratively towards solutions.

FIDEL, MARYANN

Yukon River Inter-Tribal Watershed Council
mfidel@yritwc.org

Maryann Smith grew up in Anchorage, AK and has spent most of her free time exploring Alaska's wild places with her husband and husky. She has a interdisciplinary Masters degree in Environmental and Social Science from Alaska Pacific University. She has expertise in land management decision-making, GIS mapping and social sciences, especially qualitative research based in Traditional Knowledge and Wisdom. Most recently she has worked with the Aleut International Association on an international, community-based research project exploring the effects of Climate Change on traditional ways of life in the Bering Sea.

FLENSBURG, SUSAN

Bristol Bay Native Association
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Susan Flensburg has been the Environmental Program Manager for the Bristol Bay Native Association for over 15 years working with tribal environmental programs in the Bristol Bay region to protect environmental quality, human health, and renewable resources. She is Bristol Bay's alternate on the Western Alaska Landscape Conservation Steering Committee.

FONTEYN, ALEX

Division of Homeland Security and Emergency Management

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Alex Fonteyn is the SCERP Coordinator for the State Division of Homeland Security and Emergency Management. He has done work around the state with both DHS&EM and previously with the Red Cross of Alaska, and has traveled to disasters around America. Alex grew up in Alaska, and works hard to make his home state more resilient to the negative effects of disasters.

GAGNEY, AILEEN

American Lung Association
agagney@alaw.org

Aileen Gagney has Masters Degrees in Architecture and in Fine Arts, is Green Advantage-Certified, a Healthy Home Specialist, a Certified Dust Sampling Technician and a Certified Lead Renovator.

Aileen is presently employed by the American Lung Association in Washington where she is the director of the Master Home Environmentalist© (MHE©) program. Aileen is the only MHE Master

Trainer in the country and has successfully trained over 30 ALA affiliates, county health departments and other organizations in the MHE program. She is a Certified Cultural Competency Trainer and a former Master Trainer in both the Open Airways for Schools and Tools for Schools programs. She is a National Trainer for the National Center for Healthy Housing. She is an adjunct faculty member at the University of Washington and at North Seattle Community College. She is a guest lecturer at both South Seattle Community College and at the National Sustainable Building Advisor Program. She is a former designer/general contractor/home inspector and presently a partner in a healthy building consulting business.

Aileen has presented the Master Home Environmentalist Program at numerous national conferences. She is a co-author of Monitoring and Reducing Exposure of Infants to Pollutants. Aileen is also responsible for co-developing The Healthy Home Training for Building Professionals and is the author of the Healthy Home Handbook. She is the recipient of the Washington State Public Health Association's 2011 Health Champion Award.

GARNETT, BRANDON

Arctic Village Council
av_council@hotmail.com

Mr. Garnett is the local Environmental Director for the Arctic Village Council. He has been involved with the landfill project since it was voted on by the community in 2012. He has experience working on a variety of environmental projects. He started working with the Arctic Village Environmental Program as the IGAP Environmental Assistant and was promoted to his current position because of his work ethic and dedication to protecting the environment.

GAY, SANTINA
EPA

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Santina has worked in the EPA Tribal Program since 1996. She enjoys her role in assisting Tribes to manage their Indian General Assistance Program (IGAP) grants along the Lower Kuskokwim River and Kuskokwim Bay area. Santina also works as the Tribal Training Coordinator, responsible for planning EPA conference curricula at various statewide events. Prior to her time here, she attended graduate school at Northern Arizona University. She went to Arizona State University for undergraduate school. Her studies focused on natural resource

PRESENTER BIOS

management, policy, and public administration. She delights in spending her free time as teacher, student, and referee for her twin 5-year old girls and 4-year old son.

GOOLIE, MARY

***US EPA R10 Alaska Operation Office
goolie.mary@epa.gov***

Mary has been with the U.S. Environmental Protection Agency since 1994 in the Alaska Operations Office in Anchorage. In the fall of 2008, Mary joined the Assessment and Brownfields Unit in the Office of Environmental Cleanup as a Brownfields Project Manager. She currently serves as a Project Officer for State and Tribal Response Program and Environmental Workforce Development Job Training grants in Alaska and a cleanup and area wide planning grants in Washington. She serves as the Lead of the State and Tribal Response Program for EPA Region 10. For the ten years previous, Mary served as the AK Planner in the Emergency Response Unit in the EPA Office of Environmental Cleanup. She graduated from the University of Minnesota-Duluth in 1992. Mary is originally from Minnesota and takes her daughters back to Leech Lake frequently to visit family.

HAMADE, ALI

***Alaska Section of Epidemiology, Division of Public Health
ali.hamade@alaska.gov***

As Environmental Public Health Program Manager at the Alaska Section of Epidemiology, Ali Hamade works with colleagues and state, federal, tribal, private, and local agencies on topics of contaminants and health, such as air quality, the risks and benefits of fish and other traditional foods consumption, in addition to topics of exposure, health risk assessment, risk management, and health communication.

HELMS, TAMMY

***DCRA, RUBA
tammy.helms@alaska.gov***

Tammy Helms is a Local Government Specialist IV for the Division of Community and Regional Affairs and the Rural Utilities Business Advisor Program (RUBA). She has been a certificated water operator for 21 years and previously worked as a water treatment plant operator for the City of Larsen Bay for 14 years. During those years she also served as the Larsen Bay city clerk. For the last 10 years, she has worked with the RUBA program assisting rural communities statewide to improve management capacity of rural water

and sewer utilities. She also sits on the Governor's Water and Wastewater Advisory Board.

HENDRICKSON, KARIN

***Dept. of Environmental Conservation
karin.hendrickson@alaska.gov***

Karin Hendrickson is the coordinator of the State of Alaska Pesticide Control Program.

HOSTLER, JOE

Yurok Tribe

HOWARD, CHRISTY

State of Alaska Department of Environmental Conservation

christy.howard@alaska.gov

Christy Howard is a member of the brownfields team at the Contaminated Sites Program at the Department of Environmental Conservation. She holds a B.S. in Fisheries Biology from the University of Alaska Fairbanks and her background includes working several years for an environmental consulting firm supporting various projects that included environmental sampling, laboratory analysis, and project management for a variety of clients in Alaska. When not working she enjoys spending time outside with her family.

HUNTMAN, DOUG

***ADEC Solid Waste Program
doug.huntman@alaska.gov***

Doug Huntman was born in Illinois surrounded by a sea of corn. He is a graduate of Illinois State University with a BA in Geography. At 27 he got married and moved to Alaska to work as a videographer for KTVA. In 2006, he switched gears and joined the ADEC Solid Waste Program. Doug enjoyed traveling to remote parts of the State as a cameraman and he utilized his background in Geography to quickly get up to speed on regulating Class III rural landfills. Today he assists rural communities on best management practices for remote community landfills.

IP, ANGEL

Association of Schools and Programs of Public Health (ASPPH)/U.S.

ip.angel@epa.gov

Angel Ip is an Association of Schools and Programs of Public Health (ASPPH) Environmental Health Fellow at the U.S. Environmental Protection Agency, Region 10 office in Seattle, WA. Angel is part of the Tribal Solid and Hazardous Waste Team in the Office of Air, Waste and Toxics. She holds an MS from the University of Washington Department

of Environmental and Occupational Health Sciences, and an MPA from the Evans School of Public Policy and Governance. Angel earned her BS in Biology and BA in Environmental Studies from the University of Pittsburgh.

ISAACSON, CYNTHIA

***American Lung Association in Minnesota
cynthia.isaacson@lung.org***

Cynthia Isaacson, BA, Senior Manager of Respiratory Health for the American Lung Association in Minnesota has 10 years of experience in public policy, public health, health communications, coalition building, and program management. This includes 5 years with the ALAUM developing and executing programs for asthma and IAQ. Ms. Isaacson has worked with 12 different tribal communities on IAQ providing trainings and technical assistance. Ms. Isaacson was the project manager for the TEACH project in Minnesota, North Dakota, and Minnesota and is the project manager for National TEACH.

JACOBSON, TED

EPA

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As the tribal liaison I assist all 229 federally recognized tribes in Alaska (the help desk) for solid and hazardous waste. I have been working in the solid waste industry for over 27 years with eight years directly involved with assisting rural tribal villages with human and environmental health issues.

I have been an instructor, presenter, and resource during numerous environmental conferences in Alaska including the Alaska Tribal Conference on Environmental Management, Alaska Forum on the Environment, and regional environmental and science events during the last eight years. I have been a presenter at four EPA Region 10 tribal conferences and 3 National Tribal Environmental Lands Forums.

I have done site visits to more than 60% of the rural Alaska tribal communities providing technical assistance, education and solid waste management assessments pertinent to the tribe's local problems. Instructed and assisted with equipment purchasing, attended tribal/city council meetings for Q & A sessions as well as presentations for village middle and high schools.

I have also been an active member in the Solid Waste Association of North America (SWANA), Alaska Chapter since 1985 serving as Vice-

President (2009-2011), President (2012-2014), and am currently serve on the training committee. I am a member of the Alaska Association of Environmental Professionals, and also sit on a committee for the International Compost Awareness Week Poster Contest.

Through the SWANA, AK. Chapters mission statement to "promote solid waste education for rural villages", and working with Alaska Department of Environmental Conservation (ADEC), we developed the Rural Alaska Landfill Operator (RALO) Training. We have done a re-write update every couple years to address all the different challenges, weather, ground conditions, and lack of proper equipment.

I also work very closely with and have developed a good working relationship with a lot of other Federal, State, Tribal, and Non Profit groups to try to minimize repetitive efforts and promote better communication amongst ourselves. This work gives back in so many ways I enjoy being able to help in the small ways that I can and to perhaps improve the health and environment for the future generations to come...

JAMES, TONYA

ANTHC

trjames@anthc.org

Tonya James is an Emergency Preparedness Coordinator for the Alaska Tribal Health Consortium. She has over 8 years of experience as a first responder and over 3 years as a emergency manager and community planner. She started her emergency management career with DHS&EM where she pioneered the Small Community Emergency Response Program. Tonya is a ¼ Yupik with family ties in Alakanuk and the Bethel area. She has a great passion for building capacities and capabilities in rural Alaska.

JOHNSON, TERRY

Sea Grant

terry.johnson@alaska.edu

Terry Johnson is a marine extension agent with 25 years experience providing information and advisory services to Alaska's coastal communities. He has lived in several parts of the state and was a commercial fisherman for 17 years. During the last four years he has devoted part of his annual work schedule to studying and advising on matters relating to climate change adaptation.

PRESENTER BIOS

JUSTIN, WILSON

Cheeshna Tribal Council

Wilson has professionally attended conferences for decades. He has led numerous discussions on climate change as an acclaimed speaker during interdisciplinary conferences such as the Alaska Forum on the Environment. The publication titled: *Alaska Forum on the Environment: Climate Change: Our Voices, Sharing our Ways Forward*, became a component to the US Department of the Interior, US Geological Survey, United States National Climate Assessment, Alaska Technical Regional Report (Circular 1379).

KENEALY, LYNN

State of Alaska Division of Regional Affairs Lynn.kenealy@alaska.gov

Lynn Kenealy has worked for the Division of Community and Regional Affairs for over four years, and works for the Rural Utilities Business Advisors and Local Government Assistance Programs. Lynn has a masters degree in Community-based social work, and has worked in Juneau and Anchorage with communities in several regions of Alaska.

KERSHAW, JEFFREY

Washington State Patrol jeffrey.kershaw@wsp.wa.gov

Jeff Kershaw has over 23 years of experience with the Washington State Patrol as a trooper, detective, a member of the SWAT team. During his career Jeff has been a part of a team of specialists having raided and processed scenes in over 500 methamphetamine labs. Jeff brings a unique perspective to the TSWAN training as he establishes mock meth labs for class participants to view firsthand, and learn to properly identify, the presence of a meth lab and further protect human health and the environment.

KIMMONS, SHERRY

EPA kimmons.sherry@epa.gov

Sherry has worked in the EPA Region 10 Tribal Trust & Assistance Unit for eight years, with a focus on assisting tribes with grants management in the IGAP program, as a liaison between tribes and EPA, and as a project officer power user for the GAP Online system. She previously worked for USDA Rural Development in the Business Programs Unit, managing grants promoting business and economic development, value-added agricultural products, and renewable energy systems/energy efficiency improvements.

LAU, LARRY

Tantikil UNLIMITED, Inc. larry@tantikilunlimited.com

Larry Lau has more than 42 years of Alaskan work experience. He has worked with ANCSA village and regional corporations- both for-profit and non-profit; and municipal and tribal governments. Positions held include village corporation Land Manager; regional corporation Resource Manager; regional non-profit regional Planner; University of Alaska Research Assistant in Natural Resources; Alaska Pacific University; Consultant. He has lived in rural Alaska; been to many villages; and undertaken projects in many others. M.S., Planning(specializing in Natural Resource Planning), 1984, University of Alaska, Anchorage. B.S., Forestry, 1967 University of California, Berkeley

LEE, RACHEAL

Tanana Chiefs Conference racheal.lee@tananachiefs.org

Ms. Lee began her environmental public health career working in Kotzebue, AK as Maniilaq Associations Environmental Health Manager. Moved to Seattle to work as a Public Health Consultant with the NPS, where she supported NPS sites in CA, MT, ID, AK, WA, and OR. Ms. Lee currently lives in Fairbanks where she serves as an Environmental Health Specialist for Tanana Chiefs Conference. She has worked in this role for over 3 years now. Ms. Lee earned an AS degree in Environmental Technology from CSCC, a BS degree in Environmental Health from BGSU, and a MPH is coming.

LOCKWOOD, SCOTT

Native Village of St. Michael Muskadoo4@ymail.com

Scott Lockwood is the Tribal Response Program Assistant at the Native Village of St. Michael. He is married with 4 kids. He loves hunting, camping, and spending time with his family. Scott started working for NALEMP/DOD, as a Field Support Specialist back in 2008, cleaning up abandoned Military Sites. In the fall of 2012, he was hired as the Tribal Response Program Assistant. He enjoys this work and looks forward to doing it for a very long time.

LOWINGER, MAHRI

EPA lowinger.mahri@epa.gov

Mahri Lowinger has worked for the EPA as a Tribal Coordinator serving Middle and Upper Yukon/Kuskokwim Tribes since 2005. Prior to her

time at EPA she worked for the Aleutian Pribilof Islands Association on a federal sites cleanup project. Her environmental experience also includes work with the Consortium for Energy Efficiency – a Boston-based national energy efficiency organization. Mahri graduated Cum Laude from the University of Massachusetts – Amherst with a degree in Natural Resource Studies. Mahri enjoys yoga, hiking, biking, skiing, drawing and painting, and spending time with her four-footed furry friends in her free time.

MCTIGUE, ERIN

EPA Region 10 mctigue.erin@epa.gov

Erin McTigue works for the U.S. Environmental Protection Agency - Region 10, based in Seattle. She works with tribes and other partners on indoor air quality in Alaska, Oregon, Idaho, and Washington, and supports Alaska tribes on both ambient and indoor air efforts. Her background is in public and environmental health.

MERRILL, TRACIE

Seldovia Village Tribe tmerrill@svt.org

As the Environmental Assistant for the Seldovia Village Tribe (SVT) since 2009, Tracie is responsible for conducting field work for the various projects SVT's Environmental Department have undertaken, data management, and assisting with writing grant proposals and reports. She has a Bachelor of Science degree from the University of Maine at Machias and a Master of Science degree from the University of Alaska Fairbanks, both in Marine Biology.

MROZ, JESSIE

Chickaloon Village Traditional Council jessiemroz@gmail.com

Jessie is a third-year graduate student at the Indiana University School of Public and Environmental Affairs. She is working on a dual Master's of Public Affairs and Environmental Science (MPA & MSES) with a focus on Environmental Policy and Natural Resource Management. This summer she served as the ITEP/NTAA intern for the Chickaloon Village Traditional Council's Environmental Stewardship Department working on Indoor Air Quality. Her past internship experience includes a summer at the Environmental Protection Agency working on a children's indoor environmental health program and another summer in London at King's College researching food import/export policy in the European Union.

MURRAY, EMILY

Native Village of Golovin murray.emily57@yahoo.com

Core Team Leader – Norton Bay Watershed Climate Change Adaption Plan. Founder Students Against Uranium – Aniquiin School. Golovin Native Corporation board-member. Involved in forming Golovin Bay Watershed Alliance with Chinik Eskimo Community Tribal Council and Native Village of White Mountain to protect and monitor the Fish River and Golovin Bay. Secretary for the Norton Bay Inter-Tribal Bay Watershed Council. Inupiat Elder with extensive background in traditional ecological knowledge.

MUTTER, EDDA

Yukon River Inter-Tribal Watershed Council emutter@yritwc.org

Edda Mutter is a Native German born. She was part of the University of Alaska Anchorage Alpine Ski Team. Edda competed for four years received four All-American honors, Athlete for the Year Award in 2000 and at the same time earned her Bachelor in Biological Science. She continued her studies at the University of Alaska Anchorage with a Master in Environmental Science, which followed an employment as a Term Instructor in the Biological Science Department for four years. In 2014 Edda put the final touch on her academic education by receiving a PhD in Arctic Environmental Science.

NASH, ART

University of Alaska Fairbanks alnashjr@alaska.edu

Art has worked with housing and energy projects concurrent with providing educational services in Alaska's Interior tribal villages, Southcentral and coastal areas since moving to the state in the early 90s as a licensed secondary social sciences and environmental studies teacher. Art worked also for Department of Mental Health and Social Services (as well as a social services worker for Chief Andrew Issaac Health Clinic). As an assistant (energy) professor, Art works closely with the Cold Climate Housing Research Center and the Alaska Center for Energy and Power. His teaching expertise includes home energy/cost efficiency, remote cabin and camp(ing) off-grid energy production, indoor air quality/radon, and Universal Building Design for disabled and aging residents.

PRESENTER BIOS

NICHOLS, BETHANY **Chikaloon Native Village** **bessibum@gmail.com**

Bethany Nichols is an AmeriCorps RAVEN member working with Chikaloon Native Village in their Environmental Stewardship Department. Bethany graduated from Alaska Pacific University with a Master's of Science in Outdoor and Environmental Education where she spent 4 years as an environmental educator at their Louise's Farm School. She has traveled a great deal and served as a Peace Corps volunteer in a village in Paraguay, South America for 2 years. During her travels around the world, she developed a passion for working with other cultures. Bethany loves getting kids outside and helping them get excited about nature and science.

OCHANTE, FATIMA **Alaska Department of Environmental Conservation** **fatima.ochante@alaska.gov**

Fatima Ochante works as the Program Coordinator for the Alaska Water and Sewer Challenge. She holds a Master of Arts degree in Northern Studies with a concentration in Environmental Policy from the University of Alaska Fairbanks. Her master's thesis explored institutional and social factors influencing the provision of water service in interior Alaska's Native villages. Her undergraduate studies at the Universidad Ricardo Palma in Lima focused on cross-cultural communication and language translation. Through cultural exchanges she became fluent in German and English, and familiar with Swedish. Also, Fatima grew up speaking her parent's indigenous language, Quechua and Spanish.

O'DOMIN, OXCENIA **ANTHC** **orodomin@anthc.org**

Oxcenia O'Domin joined the Alaska Native Tribal Health Consortium in 2010, supporting local solutions to environmental challenges that rural Alaska communities face. Oxcenia is originally from Chignik Lake, Alaska. Her background included organizational management for rural Alaska local Tribal Governments and Alaska Native Tribal Health Organizations. Oxcenia's primary focus is on increasing Tribal capacity through statewide 7 Generations trainings, GAP Management trainings and technical assistance to tribal organizations.

OPHEIM, MICHAEL **Seldovia Village Tribe** **mopheim@svt.org**

As the Environmental Coordinator for the Seldovia Village Tribe (SVT) since 2003, Michael is responsible for the administration and management of the Indian General Assistance Program (IGAP) and other environmental projects. Under his leadership, the SVT Environmental Office has flourished bringing essential environmental projects to Seldovia that benefit the entire community. Michael finds his best days are those days that allow him time in the field doing what he loves best.

PALMER, CHARLEY **ADEC Drinking Water Program** **charley.palmer@alaska.gov**

Charley is a hydrologist with the Drinking Water Protection group at DEC, and is responsible for generating Source Water Assessments for public drinking water systems statewide, encouraging the development and implementation of Drinking Water Protection Plans, and working on groundwater-related program development and regulations.

PALMER, STEVEN **Rural Community Assistance Corporation** **SPalmer@rcac.org**

Steven Palmer joined RCAC in 2003. As a Community and Environmental Services Manager, Mr. Palmer provides direct technical assistance to small and rural utilities. He develops and delivers training on a variety of water-related topics, with an emphasis on arsenic and nitrate remediation. Mr. Palmer works closely with communities on budget development, project development and funding, capital improvement planning, water and wastewater rate analysis and regulatory compliance. He oversees RCAC's income survey program and supervises a staff of technical assistance providers in Alaska, Oregon and Washington.

PEARCE, JOHN **USGS** **jpearce@usgs.gov**

The US Geological Survey conducts scientific research to inform the public and policy makers about the status and changes of our ecosystems. John Pearce has been a wildlife biologist for the USGS Alaska Science Center since 1990. He has primarily conducted research on migratory birds across Alaska but also in places where these birds migrate

and spend the winter, such as Russia, Japan, and Mexico. He now leads the Wetland and Terrestrial Ecosystems research program at the USGS Alaska Science Center.

PLETNIKOFF, KAREN **Aleutian Pribilof Islands Assoc.** **karenp@apiai.org**

Karen Pletnikoff is the Community Environment and Safety Manager for the Aleutian Pribilof Islands Association and has been working for Tribal environmental activities for the last 13 years. She sits on the Steering Committees for the Aleutian and Bering Sea Islands and Western Alaska LCCs.

PRICE, STEPHEN **ADEC Solid Waste Program** **stephen.price@alaska.gov**

Stephen grew up in Nenana, Alaska with a love of the outdoors. After graduating from Alaska Pacific University, Stephen worked for the Yukon River Inter-Tribal Watershed Council for 8 years coordinating backhaul efforts across the Yukon River Watershed. Since 2014, Stephen has been a Rural Waste Specialist with the ADEC's Solid Waste Program. He assists communities within Kodiak, Lake and Peninsula, and Lower Yukon address their solid waste issues. Over the years he has loved to see the differences rural Alaskans have made in their communities knowing that they are building a safer, cleaner and brighter world for their children.

RADENBAUGH, TODD **University of Alaska Fairbanks College of Rural and Community** **taradenbaugh@alaska.edu**

Dr. Radenbaugh is an Associate Professor of Environmental Science and Lead Coordinator of the Bristol Bay Environmental Science Lab. He has worked in rural Alaskan for the past 10 years with villages to investigate solid waste and water quality environmental issues.

RODMAN, AMY **State of Alaska Department of Environmental Conservation** **amy.rodman@alaska.gov**

Amy has been with the Alaska Department of Environmental Conservation's (ADEC) Contaminated Sites Program since January 2014. She grew up in Juneau and received her B.S. in Geology from the University of Alaska Fairbanks. In her spare time, she enjoys being outside with her daughter and yellow lab, playing softball and trap shooting.

ROEHL, DESIRAE **ANTHC** **droehl@anthc.org**

Desirae Roehl is the Senior Tribal Environmental Program Manager for the Alaska Native Tribal Health Consortium's (ANTHC) Healthy Village Environment Program. Over the past six years, she's worked closely with many of Alaska's 200 + tribal communities, providing a broad range of culturally relevant environmental management assistance and training. Ms. Roehl grew up in King Cove and is an enrolled member of the Agdaagux Tribe of King Cove where she served as their Environmental Coordinator prior to joining ANTHC.

SALKOSKI, AJ **ANTHC** **ajsalkoski@anthc.org**

AJ Salkoski is the Air & Healthy Homes Project Manager at the Alaska Native Tribal Health Consortium (ANTHC). Mr. Salkoski has 7 years of environmental health experience in Alaska. Topics addressed through his work include healthy homes, indoor and ambient air quality, solid waste management, and community planning. Among these responsibilities, Mr. Salkoski currently serves as Program Manager of a HUD Technical Studies Program funded study of indoor air quality and need for respiratory medical care among high risk Alaska Native Children.

SANDERS, CAROLYNN **Rural Alaska Fuel Services** **carolynn@rafs.net**

Carolynn Sanders is the Contract Administrator for Rural Alaska Fuel Services. She is also a certified Hazwoper Instructor, traveling across Alaska teaching Hazwoper classes in communities located off of the road system. She is involved in creating and maintaining a database of all the old abandoned bulk fuel tanks in Alaska as they become an ever larger environmental concern for the state.

SHANGIN – DAUGHERTY, SIERRA **Student at University of Alaska Anchorage** **sierradaugherty@hotmail.com**

Sierra Shangin – Daugherty grew up in the Aleutian Island in a small village on the peninsula called Chignik Lagoon. She also grew up on Kodiak Island the village of Ouzinkie for a brief period of time. She is now living in Anchorage, Alaska. Sierra is currently studying her undergraduate degree at the University of Alaska Anchorage with a major of Business Marketing and a minor in Alaska native business. Sierra is

PRESENTER BIOS

very interactive in Alaska Native leadership and also very involved in her Native culture. Sierra's culture is Unangax and Sugpiaq, Norwegian and also Russian. She is an entrepreneur and love presenting and talking about Alaska native leadership and her culture.

SHANNON, ANAHMA
Kawerak, Inc.

SHEPHERD, HAL
Water Policy Consulting, LLC
hal@waterpolicyconsulting.com
Hal Shepherd is a consultant who currently focuses on water and human rights issues in Alaska. Previous to his consulting business Hal served for about 20 years as an environmental attorney working with conservation organizations and native communities in Alaska, Oregon, Washington, Utah and Colorado on water, environmental and Indian law matters. Hal is the author of *Compromising Democracy, The Rise and Fall of the Second Conquest of Western Rangelands* and has authored multiple law review articles addressing human rights, water law and natural resource matters.

SHIRLEY, JACQUELINE
Rural Community Assistance Corporation Development
jshirley@rcac.org
Ms. Shirley is an enrolled Tribal member of Native Village of Hooper Bay. As a Rural Development Specialist in the Community and Environmental Services department at RCAC, Ms. Shirley provides training and technical assistance to nonprofit and local agencies, Alaskan Tribes, and state and federal government agencies to improve or develop water, wastewater and solid waste management systems and programs in rural Alaskan communities. Her major responsibilities include conducting assessments, providing technical assistance, planning and delivering training, performing outreach and networking, program development, research and analysis.

SHOEMAKER, KAY
UAF School of Natural Resources and Extension
kwshoemaker@alaska.edu
As a UAF Assistant Professor of Science and Natural Resources and statewide youth development educator, Kay blends Traditional Ecological Knowledge and Environmental Education in fun, place based and culturally relevant programs for communities, teachers,

and students. Her book on "Exploring Ecology in Alaska: Reflective Storytelling as a Model for Environmental Education" is used by Yupik Language Teachers in Emmonak, Career and Technical Ed. Teachers in village surrounding Kotzebue, Science Teachers in Sitka and Anchorage, and by dozens of Teachers she supports in the Salmon in the Classroom program. Kay supports culture camps, school field trips, and community science programs statewide.

SKIBA, TIM
Native Village of Gakona
gakonaec@gmail.com
Tim Skiba is the Environmental Coordinator for the Native Village of Gakona. He has worked for Gakona Village since 2013, and coordinates both IGAP and TRP Programs. He currently serves as the Secretary for the Copper River "Recycling our Area Resource" board of directors and coordinators the Youth Environmental Summit, which draws up to a 100 youth each summer to engage in becoming stewards of the land. He has a bachelors degree from South Dakota State University.

SNOWDEN, KAMI
Tribal Solid Waste Advisory Network
ksnowden@tswan.org
Kami Snowden has over 20 years of experience in environmental program administration and development, with the last 15 years working solely with tribes as the Executive Director of the Tribal Solid Waste Advisory Network (TSWAN). She has successfully developed and managed environmental planning, provided technical assistance, aided in education and outreach, and prepared trainings specific to tribes. Kami has delivered the meth lab specific course over the last 8 years to tribes throughout the entire nation and on a national webinar.

STICKMAN, DANIELLE
Yukon River Inter-Tribal Watershed Council
dstickman@yritwc.org
Danielle Stickman is Koyukon and Dena'ina Athabascan. Her dad is from Galena and she looks forward to meeting her relatives along the Yukon River. She was raised in her mother's hometown, Nondalton located between Lake Clark and Lake Iliamna in the Bristol Bay region. Danielle graduated from the University of Hawaii at Hilo with a Bachelor of Science degree in Environmental Science in 2010. Since completing her degree, she returned to Alaska and has

worked with various communities around the state on issues and projects relating to subsistence, political, and environmental issues.

SWARTZ, JEANNE
Alaska Department of Environmental Conservation- Division of Water
Jeanne.Swartz@alaska.gov
Jeanne Swartz is an Environmental Protection Specialist with the state of Alaska's Department of Environmental Conservation (ADEC). Jeanne works in the Northpoint Source section of the Division of Water. Jeanne has worked for ADEC for more than five years and manages grants to remediate and improve water quality in Southcentral water bodies including Anchorage.

TABOR, BROCK
Department of Environmental Conservation
brock.tabor@alaska.gov
Brock Tabor is the DEC Water Quality Standards Section Manager. He has been a resident of Southeast Alaska since 1997 and is an avid river and sea kayaker.

TCHERIPANOFF, MOSES
Alaska Native Tribal Health Consortium/Center for Climate and Health
mptcheripanoff@anthc.org
Moses P. Tcheripanoff, AAS, BA has worked for the last (nearly) five years as one of thirteen Local Environmental Observation (LEO) Network Team members at the Alaska Native Tribal Health Consortium, Center for Climate & Health, located in Anchorage, Alaska. Moses is the Alaska hub website developer, Geography lead, & host for the LEO Network webinar. He works closely with community experts who provide traditional knowledge to ground-truth observations & provide consults based on local & regional observations as points-of-contact. Moses also collaborates with technical experts that provide the science component of a consultation, comprised of government agencies, academic institutions or organizations that are topic experts. Moses has co-published an article in the, *International Journal of Circumpolar Health*, titled, "LEO, the Local Environmental Observer Network: a community-based system of surveillance of climate, environment, & health events" 72(22447):513, August, 2013 issue. He also brings to the table a well rounded base of traditional & integrated geography knowledge. Moses was born & raised on Akutan Island, located about 760 miles SW of Anchorage, out in the Aleutian Islands. Moses finished high school

& started off with his first career as a commercial fisherman in King Cove, Alaska, eventually earning two degrees, first at Northwest Indian College; AAS - Environ. Science & Western Washington University, Huxley College of the Environment; BA - Environmental Studies.

THOMAS, SALLY
EPA
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TINKER, TINA
Aleknagik Traditional Council
tina.tinker@yahoo.com
Tina Tinker works for Aleknagik Traditional Council since 2003; she graduated from the University of Alaska-Fairbanks with her Environmental Studies Certificate. Since then she has applied for the Alaska Native Tribal Health Consortium mini grant for air quality and partnered with other organizations to produce video's for education and outreach for the Bristol Bay area.

TOOHEY, RYAN C. PHD
U.S. Geological Survey
rtoohey@usgs.gov
Ryan has worked for over 18 years in water resources specializing in interdisciplinary applications of hydrology, water quality, ecosystem services, and governance from the tropics to Alaska. His current position with the US Geological Survey includes work that involves environmental change, hydrological modeling, and community-based research that integrates Indigenous Knowledge, social science and water science. Ryan received his PhD in Environmental Science (Hydrology) from University of Idaho and his BSc in Environmental Science (Water Quality) from Western Washington University.

VALE, SHARNEL
ANTHC
sdvale@anthc.org
Sharnel Vale is a the Program Administrator for the Rural Energy Initiative at the Alaska Native Tribal Health Consortium (ANTHC). In this role, she oversees all program activities and maintains relationships with partners at both the community and organizational level. She is passionate about building sustainability in Rural Alaska and is currently working toward her bachelor degree in Business Administration and Management through Alaska Pacific University. Sharnel has been with ANTHC since 2012, and started working with the Rural Energy Initiative in August.

PRESENTER BIOS

VILLIA, CATHY
EPA
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WEIBL, KIM
Division of Homeland Security and Emergency Management
kim.weibl@alaska.gov

Kim Weibl is the State Lead Planner for the Division of Homeland Security and Emergency Management. She oversees all planning activities for the state, and leads the Emergency Operations Center plans division during disasters.

WENDEL, JON
Alaska Department of Environmental Conservation
Jon.Wendel@Alaska.gov
Jon Wendel is the Non-Point Environmental Program Specialist III within the DEC Air Quality Division. In addition to working on rural air quality issues, he spearheads the Division's efforts on emission inventories, ambient smoke issues, and leads the Division's regional haze work.

WHITTAKER, ERIKA
Tribal Healthy Homes Network
ewhittaker@thhnw.org
Erika Whittaker received her BA in Sociology and Political Science at Western Washington University. Erika is currently the Program Coordinator with the Tribal Health Homes Network. Erika continues to work with the Your Air Matters program in support and development.

WILSON, NICOLE
University of British Columbia
nicole.wilson@ubc.ca
Nicole is a PhD student in Resource Management and Environmental Studies at the University of British Columbia in Vancouver Canada. Her research focuses on the role of Indigenous peoples in water governance in the transboundary context of the Yukon River Basin, which spans Alaska, Yukon and British Columbia. Nicole is particularly interested in the manner in which Canadian First Nations and Alaska Native Tribes are engaging a variety of governance approaches in response to environmental change within this high latitude region, including community-based monitoring.

WILSON, WENONA
EPA Region 10
Wilson.Wenona@epamail.epa.gov
Wenona Wilson is the Unit Manager for the Tribal Air, Tribal Solid and Hazardous Waste, Diesel, and Indoor Air Programs for EPA Region 10. She joined EPA in 2000 and has served in numerous different positions in Regions 9 and 10, including as a RCRA Senior Tribal Liaison, IGAP Tribal Coordinator, and Tribal Consultation Specialist. Wenona is a member of the Colville Confederated Tribes, Chelan Band. She holds a Master's Degree in City Planning, with emphasis in Community Development.

WINNESTAFFER, JESSICA
Chickaloon Native Village
jessica@chickaloon.org
Jessica Winnestaffer was raised in Sutton, Alaska exploring the valleys and mountains in the Matanuska River watershed. She received a bachelors degree in biology from Mount Holyoke College in Massachusetts and immediately returned to Alaska to work and live. Jessica has worked for Chickaloon Native Village for the past eleven years as a biologist, project manager and department director. She wrote a successful ANA grant proposal for ecotourism developments and supervised the project management team during the 3-year project.

ZENDER, LYNN
Zender Environmental
lzender@zendergroup.org
Executive Director of Zender Environmental, Dr. Zender has rural experience in capacity building, environmental health risks, air quality, water quality, and special environmental projects.

EXHIBITORS

SEA GRANT
Alaska Sea Grant funds research and provides education and outreach on issues that are important to Alaska's coastal resource users. Our Marine Advisory Program agents and specialists, who are University of Alaska Fairbanks faculty, deliver expert assistance and training to Alaskans statewide. Our efforts focus on healthy coastal ecosystems, sustainable fisheries and aquaculture, resilient communities and economies, and environmental literacy and workforce development.

RTOC R10 MISSION
RTOC R10 Mission: To protect and improve Tribal health and environmental conditions affecting Federally Recognized Tribes consistent with the United States Environmental Protection Agency (EPA) Indian Lands Policy, EPA's trust responsibility, environmental laws, policies and guidance.

RURAL ALASKA FUEL SERVICES, INC.
Rural Alaska Fuel Services, Inc. is a not-for-profit corporation formed to assist rural communities operate their bulk fuel tank farms in a sustainable way and in compliance with all state and federal regulations. We currently offer training in HAZWOPER, Confined Space Entry and approximately 30 other courses, as well as offering pipeline pressure testing, non-destructive tank testing, fuel dispenser installations and decommissioned tank demolition.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S DIVISION OF SPILL PREVENTION AND RESPONSE (SPAR)
SPAR prevents spills of oil and hazardous substances, prepares for when a spill occurs and responds rapidly to protect human health and the environment. We will also have representatives from DEC's Solid Waste Program.

THE DOT&PF AND THE FEDERAL HIGHWAY ADMINISTRATION – ALASKA DIVISION (FHWA)
FHWA are presenting information and soliciting comments on the DOT&PF's plan to assume FHWA's responsibilities for National Environmental Policy Act (NEPA) compliance. This would mean that DOT&PF would be assuming the federal responsibilities for ensuring compliance with all of the associated environmental laws, such as the Endangered Species Act, for FHWA funded projects. We view the Alaska Tribal Conference on Environmental Management as an opportunity to engage Alaska's Tribal communities, provide information about the proposed NEPA Assignment program, and solicit feedback and input about the proposal.

We will have the air matters toolkit on display. Aileen and Erika will be there to answer any technical questions about the tool kit and discuss ways of implementing it into your communities.

ZENDER ENVIRONMENTAL HEALTH AND RESEARCH GROUP
Zender Environmental Health and Research Group is a non-profit 501(c)(3) organization. The purpose of our organization is to provide environmental program services for underserved Tribal and isolated-rural populations where the need exists. We

RCAC provides five core services to assist rural communities plan, finance, construct, manage and operate drinking water, wastewater and solid waste systems. The five core services are: Capacity building, Technical Assistance, Training, Advocacy and Access to resources.

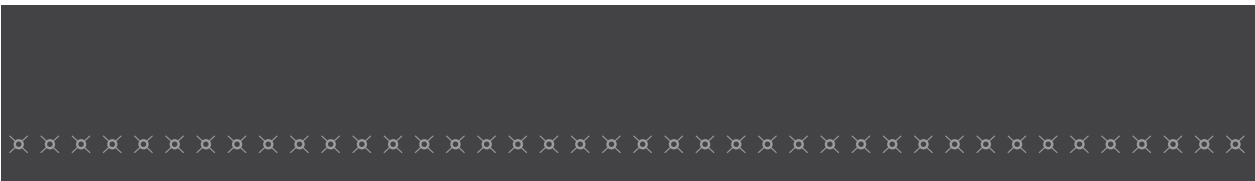
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NOTES

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	TRACK 1 WATER QUALITY	TRACK 2 AIR QUALITY & HEALTHY HOMES	TRACK 3 SOLID WASTE	TRACK 4 LEO & CLIMATE CHANGE	TRACK 5 TRADITIONAL ECOLOGICAL KNOWLEDGE & ENVIRONMENTAL VALUES	TRACK 6 BROWNFIELDS	MARKETPLACE							
	KING SALMON ROOM		LUPINE ROOM		ASPEN ROOM		BIRCH ROOM		FIREWEED ROOM		ILIAMNA ROOM		DILLINGHAM & KATMAI ROOMS	
8:30 - 9:30	The Alaska Water and Sewer Challenge - Fatima Ochante, ADEC	Road Dust 101 - Jon Wendel, ADEC	A Manager's Roadmap for Funding Sustainable Solid Waste Programs in Rural Alaska - Angel Ip, ASPPH/EPA & Tami Rodham, EPA	The LEO Network: About LEO – LEO Overview and Observations – Year in Review - Mike Brubaker, Moses Tcheripanoff & Mary Mullan, ANTHC	Lead-Free Rifle Ammunition: Time For a Change? - Leif Albertson, UAF	The ANCSA, Tribal Lands, and Brownfields - Larry Lau, Tantikil UNLIMITED, Inc.	MARKETPLACE OPEN (Vendor Expo Day 3)							
		Update on Seldovia Village Tribe's Road Dust Monitoring - Michael Opheim & Tracie Merrill, Seldovia Village Tribe												
		The Native Village of Ruby's Collaborative Road Dust Management Project - Billy Connor, Alaska University Transportation Center												
9:30 - 10:00	NETWORKING BREAK													
10:00 - 10:50	Energy Efficiency in Sanitation Systems - Sharnel Vale & Tashina Duttie, ANTHC	Bed Bugs - What You Can Do - Karin Hendrickson, Alaska Pesticide Control Program	What's in Your Wallet? Solid Waste Program Decisions on a Tight Budget - Lyn Kenealy, State of Alaska	LEO Network: Demonstration to LEO App Viewer and LEO App Reporter - Mike Brook, ANTHC	Community Responses in a Changing Water System: A Multi-Disciplinary Approach to Community-Based Water Monitoring Among Tribes and First Nations in the Yukon River Basin - Nicole Wilson, YRITWC	Meth/Drug Lab Identification for Tribal Workers in Environmental Health and Safety - Kami Snowden, Tribal Solid Waste Advisory Network & Jeffrey Kershaw, Washington State Patrol								
11:00 - 12:00	IGAP HOUR-IGAP Open Discussion Q&A – Region: Mid Yukon-Kuskokwim; Southcentral; Kodiak; Upper/Mid Yukon-Kuskokwim – Presenter: Adrienne Fleek, Mahri Lowinger, EPA	IGAP HOUR	IGAP HOUR-IGAP Open Discussion Q&A – Region: Region: Lower Kuskokwim Region, ANTHC, AVCP – Presenter: Santana Gay, EPA	IGAP HOUR-IGAP Open Discussion Q&A – Region: Upper Yukon, Eastern Interior, Interior; Copper River – Presenter: Sherry Kimmons, EP	IGAP HOUR-IGAP Open Discussion Q&A –Region: Arctic North Slope, Northwest Arctic, Norton Sound, Lake Iliamna/Kvichak, Nushagak – Presenter: Catherine Villa, EPA	IGAP HOUR-IGAP Open Discussion Q&A – Region: Prince William Sound/Southeast, Bristol Bay, Aleutian Pribilof Islands – Presenter: Sally Thomas, EPA & Michelle Davis, EPA								
12:00 - 1:30	LUNCH - EXPLORE NEARBY OPTIONS													
1:30 - 2:30	The Value of Source Protection - Rebecca Baril, ADEC	Indoor Air Quality Assessment Hour - Racheal Lee, TCC	Alaska Solid Waste Workgroup Meeting and Important Solid Waste Announcements	LEO Network: LEO Network Talking Circle - Moses Tcheripanoff, ANTHC	Modern vs. Traditional Values – Sierra Shangin - Daugherty, UAA	Community Highlights: Gakona Village's Youth Environmental Summit - Tim Skiba, Native Village of Gakona								
	Protecting Water Quality in Local Streams and Lakes - Jeanne Swartz, ADEC	Air Matters Toolkits - The Nuts and the Bolts - Aileen Gagney, ALA				TRP Success Story - Scott Lockwood & Jeff Long, Native Village of St. Michael								
2:30 - 3:00	NETWORKING BREAK													
3:00 - 5:00	Plenary #5: Kealoha – Closing Ceremony													

	BIRCH ROOM	ILIAMNA ROOM	KING SALMON ROOM	ASPEN ROOM	FIREWEED ROOM	LUPINE ROOM
	Training 1	Training 2	Training 3	Training 4	Training 5	Training 6
8:00 AM - 12:00 PM	8 Hour Hazwoper Refresher Certification Class	US EPA Brownfield Tribal Response Program Coordinators – Workplan Updates	Water Quality for Everyone!	Passing on the Knowledge – Sharing What You've Learned With Your Community	Rural Alaska Landfill Administrator (RALA) Training	Air Quality 101: Indoors and Outdoors
12:00 - 1:00	LUNCH - EXPLORE NEARBY OPTIONS					
	Training 1 cont.	Training 7	Vacant	Training 4 cont.	Training 5 cont.	Training 8
1:00 PM - 5:00 PM	8 Hour Hazwoper Refresher Certification Class	Methamphetamine & Drug Lab Identification for Tribes		Passing on the Knowledge – Sharing What You've Learned with Your Community	Rural Alaska Landfill Administrator (RALA) Training	Developing an Annual Budget and Interpreting Financial Reports



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