

Tuesday, August 23, 2011

10:00 am – 10:45 am

Keynote Speaker: Dr. Karletta Chief

Dr. Karletta Chief is an Assistant Professor and Assistant Specialist in the Department of Soil, Water, and Environmental Sciences at the University of Arizona in Tucson, AZ. As an Assistant Professor, the goal of her research is to improve our understanding, tools, and predictions of watershed hydrology, unsaturated flow in arid environments, and how natural and human disturbances affect soil hydrology through the use of physically based methods. Dr. Chief research also focuses on how indigenous communities will be affected by climate change and collaborated in an interdisciplinary group of scientists including hydrologists, system dynamic modelers, and social scientists to determine how hydrological models can be improved to identify and mitigate risks to these vulnerable populations. As an extension specialist, she works to bring relevant science to Native American communities in a culturally sensitive manner by providing hydrology expertise, transferring knowledge, assessing information needs, and developing applied science projects.



Dr. Chief is originally from Black Mesa, AZ and grew up on the Navajo Nation. Dr. Chief graduated from Page High School in 1994 and is a first generation college graduate. She received a B.S. and M.S. in Civil and Environmental Engineering from Stanford University in 1998 and 2000. As a National Science Foundation Doctoral Fellow, Dr. Chief received her Ph.D. in Hydrology and Water Resources in the School of Engineering at the University of Arizona (UA) in 2007. Her Ph.D. minor was Soil, Water, and Environmental Science. She completed her post-doctorate at Desert Research Institute in the Division of Hydrologic Sciences in Las Vegas, NV where she worked on large weighing lysimeters at the Scaling Environmental Processes in Heterogeneous Arid Soils (SEPHAS) Project in Boulder City (www.sephas.dri.edu).

Dr. Chief was awarded the John Rainer American Indian Leadership Award, Stanford University Minority Alumni Task Force Featured Alumni, University of Arizona Centennial Doctoral Student Award, Arizona Hydrological Society Scholar, and 2010 American Indian Science and Engineering Society “Most Promising Engineer/Scientist of the Year.”

1:00 pm – 2:00 pm

Skyline Mine Activity Update

Situated on the rim of Oljato Mesa west of Monument Valley Park, Utah, the abandoned Skyline Uranium Mine is undergoing a removal action of radioactive contaminated soil. The soil around the former mine is being gathered up along with the soil at the base of the mesa and transported back up



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the mesa via a carriage bucket attached to a steel cable. Once atop the mesa the soil is transported to a nearby lined repository cell for interim disposal.

Eugene Explain has been the Health Physicist for the NNEPA Superfund Program for 19 years. He has been involved in assessment work throughout Navajo lands at pesticide contaminated sites, solid waste sites, power-generating sites, coal mine sites, former sawmill sites, and abandoned uranium mine sites.

Uranium Cleanup at Northeast Church Rock Mine

This presentation will assess the Environmental and Human Health impacts of uranium exposure in exposed communities on the Navajo Nation. A community based methodology that models the contribution to kidney disease will be evaluated within the context of factors such as family history, socioeconomic status and demographics, medications, morbidities, and culture. The collection of field data and uranium impact sites will also be discussed.

Teddy Nez is a resident of the Red Water Pond Road Community in the Eastern Agency of the Navajo Nation. This community has been heavily impacted by uranium mining and the tailings from those mines. He has taken an active role in the study and remediation of uranium contaminated sites in the Church Rock area. He is also a Vietnam Veteran, and has organized and is the lead for the Red Water Pond Road Community Group.

Data Exchange and Network Discharge and Monitoring Report Made Easy

The data exchange network developed for NNEPA allows a flow of electronic data that improves the data quality and increases the ease of reporting environmental data for Emissions Inventory System (EIS), Net Electronic Discharge Monitoring Report (Net DMR), Integrated Compliance Information System National Pollutant Discharge Elimination System (ICIS-NPDES) and Open Dump. We will review the exchanges, OpenNode2, the process used to develop the data exchange network, and display the ease of using the network user and basic mapping interfaces.

Cynthia J. Atwood is a senior software specialist with over 20 years of full software development life cycle (SDLC) experience. Ms. Atwood has worked as a developer, senior analyst and a project manager. Comprehensive experience includes working extensively with complex utility, asset, watershed management, water sampling, water supply, water/wastewater permits and data exchange databases and applications.

2:15 pm – 3:15 pm

Zumba/Line Dancing

This will be an instructional class where participants will learn the basic moves for the Salsa, Merengue, Reggaton, Cumbia, and much more. The line dancing will consist of just a few easy steps. No experience necessary. Just move your body and follow my lead, it's easy! The benefits of exercise will also be explained.



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Colleen Hoskie is a Nationally Certified Fitness Instructor with the National Exercise Trainers Association and Aerobic and Fitness Association of America (AFAA). Her certifications include aerobics, kickboxing, spinning, step, weight training, yoga/pilates, and she is currently working on her Tai Chi license. She is also a licensed Zumba instructor with Zumba Fitness. Colleen is currently employed with Gallup Indian Medical Center Health Promotion as a Health Promotion Fitness Specialist. She is a fitness instructor at UNM - Gallup Branch and the City of Gallup Parks and Recreation.

Monitoring Atmospheric Dust in Colorado

The presentation will describe a small but growing network of relatively simple samplers used to monitor the concentration of total suspended particulates in Colorado. These particles include those that are most common during large dust storms and which are often missed by the existing particle monitoring networks.

Jason Neff is an Associate Professor in Geosciences and Environmental Studies and CU Boulder. He studies ecological change in the Western US.

Radiological Characterization and Remediation

This presentation will provide an overview of New World Environmental Services, their professional expertise, and the Highway 160 project in Arizona. The typical instruments used to measure radiation, the project objectives and requirements, field laboratory, and the personnel will all be discussed.

Don Wadsworth (Muscogee Creek) has a Master's Degree in Health Physics and over 30 years' experience in Health Physics services. Mr. Wadsworth has been Program Manager on numerous DOE projects, and currently oversees New World Environmental's Quality Assurance program, licenses, and certifications. Mr. Wadsworth managed the NASA ionizing and non-ionizing radiation safety program for all Ames' facilities including aircraft and spacecraft that utilize radioactive materials. Mr. Wadsworth is a U.S. Air Force veteran, serving in the Vietnam era as a Medic.

Allison Hicks has over 20 years' experience in sales, management, and small business development involving a wide range of corporate, non-profit, commercial, and government projects and activities. Ms. Hicks holds a B.A. from the University of California, Irvine and is a graduate of both the U.S. Small Business Administration's E200 America, and executive training program for Native American small business owners and executives, and the Tuck School of Business at Dartmouth Executive Education Program. Ms. Hicks is a member of the National Council of the Smithsonian Museum of the American Indian in Washington, D.C.

3:30 pm – 4:30 pm

Diné Network for Environmental Health Project Update and Navajo Birth Cohort Study

The DiNEH Project has been working in 20 Chapters of the Eastern Agency to determine the contribution of uranium exposure at a community level. Analysis of survey data, confirmed by biological sample analysis, has confirmed the risks for several diseases are increased in those living in proximity of abandoned mine waste, and that those risks increase with activities that increase contact with the



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waste. This DiNEH team will build on these results in implementing the Navajo Birth Cohort Study in response to community concerns about exposures to uranium, reproduction, and child development.

Dr. Johnnye Lewis is a toxicologist and the principal investigator for the DiNEH Team, including the new Navajo Birth Cohort Study. She has worked to build partnerships among community members, scientists, regulators, and clinicians to identify, understand, and develop solutions for community concerns over uranium exposures on the Navajo Nation for more than 20 years.

Grand Canyon Watershed Stewardship

Although Grand Canyon National Park is renowned for its unparalleled display of geological patterns and processes, it also encompasses an incredible diversity of natural and cultural resources that are at risk due to threats ranging from localized visitor impacts to watershed-scale environmental degradation. A number of case studies are presented that highlight the associated resource management challenges within a multi-scaled, interdisciplinary framework.

Dr. Todd Chaudhry is the Watershed Stewardship Program Manager with Grand Canyon National Park where he has worked since November 2010. He has a Doctorate in Zoology from the University of Tasmania, Australia, and Bachelor's in Environmental Sciences and Policy from Duke University. He has worked for a range of organizations including the U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, Nature Conservancy, and National Park Service, as well as the Country Fire Authority in Australia. His primary interests are in restoration ecology, conservation biology, and natural resource management.

Southern Ute Air Quality Program

The Southern Ute Indian Tribe's Air Quality Program is dedicated to monitoring and ensuring that the air on the Southern Ute Indian Reservation remains clean and safe for Tribal members and the general public, now and into the future. The Tribe's Air Quality Program has a comprehensive air monitoring network and has been collecting and reporting air monitoring data for over 29 years. The Tribe's Air Quality Program is currently growing to include a Tribal Part 70 (Title V) and Minor Source Permitting Program that will regulate all air pollution sources within the exterior boundaries of the reservation.

Brenda Jarrell has worked for the Southern Ute Indian Tribe Air Quality Program since January 2006. Brenda is currently the Tribe's Air Quality Program Manager and is responsible for the day-to-day operations of the Tribe's Air Quality Program.



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Navajo Nation EPA Radon Program

Vivian Craig, NNEPA

Transitioning to Solar Energy

In this presentation, we will present an overview of ways to utilize the sun's energy, along with available resources to aid in this process, and a summary of projects and initiatives that Gallup Solar is involved with regionally.

Gallup Solar is a community-based not-for-profit organization in Gallup, New Mexico, whose mission is to collaborate with communities, elected representatives, utilities, and industry to bring solar power to all people in our area.

Leaking Underground Storage Tank Remediation

This presentation will provide an overview of the roles and responsibilities of the Leaking Underground Storage Tank Program. The Navajo Nation Leaking Underground Storage Tank Program examines gas stations on the Navajo Nation, how the gas stations and their associated storage tanks came to be, how the leaking fuel impacts groundwater, and the instruments that locate the tanks. Environmental impacts of leaking tanks include contamination of groundwater. Contamination may even happen if a person digs into a tank. Pictures of leaking tanks will be shown and strategies for cleanup and monitoring will be described.

Pam Maples is an Environmental Specialist with the Leaking Underground Storage Tank Program. Her work focuses on ensuring that petroleum contaminated soils and groundwater are cleaned up properly.

9:15 am – 10:15 am

Water Distribution and Sanitary Sewer Design

The fundamental engineering principles governing the design of sanitary sewers and potable water systems will be discussed. This presentation is part of a larger, more comprehensive training program instituted at Coe & Van Loo Consultants, Inc. in 2004 to reacquaint design professionals with the underlying physical and engineering concepts used in Civil Engineering.

Eric Laurin obtained his B.S. in Civil and Environmental Engineering from Clarkson University in Potsdam, New York and and M.S. in Environmental Engineering from the University of North Carolina at Chapel Hill. He has 35 years of consulting engineering experience in the design of water and sewer system infrastructure for private, municipal, and industrial clients in 8 states and Native American communities.



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Air Quality – A Key to Healthy Homes and Schools

This presentation will introduce a strong link between ourselves and the environment, which is the lungs. Healthy homes and schools will have good air quality. Many pollutants found in homes and schools are due to occupant behaviors.

Mansel A. Nelson completed a B.S. in Chemistry and an M.S. in Chemical Engineering. After completing 14 years of military service in the Army Chemical Corps, Mansel taught Chemistry at Tuba City High School for six years, exploring various environmental issues with his high school classes. For the past thirteen years Mansel has been the Senior Program Coordinator at the Institute for Tribal Environmental Professionals at Northern Arizona University. Mansel works with educators and students (K-16) to show how mathematics, science, and technology can be applied to understanding community environmental issues such as climate change, air quality, and outdoor air quality.

Four Corners Air Quality

This presentation will cover Four Corners air quality issues with a focus on ozone. The discussion will include the history of Four Corners Air Quality Group, some of the mitigation options that have been implemented, and a newly initiated western regional modeling project called “West Jump”.

Mark Jones is an environmental analyst with the New Mexico Environment Department – Air Quality Bureau. He has worked in the Farmington Field office for 5 years on Four Corners area planning and policy projects.

10:30 am – 11:30 am

Investigative Drilling and Water Sampling at the Uranium Mill Tailings Remedial Action Site, Tuba City, Arizona

Navajo Nation EPA in cooperation with the Department of Energy conducted a groundwater investigation by completing several monitoring wells offsetting the Tuba City UMTRA site in 2010. Based on the results obtained during the groundwater investigation none of the soils or groundwater exhibited any of the UMTRA facility contaminants such as uranium or other metals.

Henry Haven received a B.S. degree in Geology from Fort Lewis College in 1976 and a M.S. degree in Geology from Northern Arizona University in 1997. Henry has worked as a geologist in the oil field with major oil producing companies during the oil boom in the late 1970s. He has completed several scientific publications with the U.S. Geological Survey on the coal resources of Black Mesa. Henry is currently employed as a geologist with the Navajo EPA Leaking Underground Storage Tank Program where he is involved in the assessment and remediation of subsurface groundwater petroleum contamination from leaking underground storage tanks.



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Criminal Enforcement and Investigations

Cory Begay, NNEPA

Energy and Water Conservation

The Energy Efficiency Conservation Federal Block Grant promotes energy and water conservation on the Navajo Nation so that utility customers can save energy and money on their utility bills.

Irvin Jones, Consumer Relation Specialist, is a Civil Servant Retiree who is working with the Navajo Tribal Utility Authority. By clanship he is Edge Water born for the Black Sheep. Twin Stream Coming Together Clan is his Cheii and Bitter Water Clan is his Nali. He is originally from the Chinle Valley Store area but has been residing in Gallup with his family since 1983. Norma Jean Naki-Jones is his spouse who gave him 4 children (2 boys & twin girls).

1:00 pm – 2:00 pm

Mountain Studies Institute: Air Quality Programs and Recent Projects

This presentation will cover some of the Mountain Studies Institutes' air quality programs and the results from recent projects. Information presented here will include data from analyses of lake sediments and zooplankton in the Weminuche Wilderness, back trajectory modeling of mercury in precipitation at Molas Pass and Mesa Verde National Park, the use of bio-indicators to monitor for ozone, and the fate and transport of mercury in forest soils.

Christopher Peltz (MS) is the lead researcher at the Mountain Studies Institute, a non-profit research and education institute located in the San Juan Mountains. Chris's research focus in on the effects of land-use and climate change on water resources, air quality, and the biology of alpine and riparian environments.

Climate Change

Evidence of Climate Change continues to build as the impacts of drought increase. The Institute for Tribal Environmental Professionals is working with various groups to address climate change issues. This presentation will review impacts in Northern Arizona and proposals for adaptation and mitigation.

Mansel A. Nelson completed a B.S. in Chemistry and an M.S. in Chemical Engineering. After completing 14 years of military service in the Army Chemical Corps, Mansel taught Chemistry at Tuba City High School for six years, exploring various environmental issues with his high school classes. For the past thirteen years Mansel has been the Senior Program Coordinator at the Institute for Tribal Environmental Professionals at Northern Arizona University. Mansel works with educators and students (K-16) to show how mathematics, science, and technology can be applied to understanding community environmental issues such as climate change, air quality, and outdoor air quality.



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El Paso Natural Gas Company's Environmental Stewardship

Richard Duarte

2:15 pm – 3:15 pm

Navajo Nation Surface Water Quality Standards

This presentation will explain the Navajo Nation Surface Water Quality Standards and how they protect the uses designated for Surface Waters of the Navajo Nation. The presentation will explain numeric standards, narrative standards, designated uses, anti-degradation, and other relevant topics.

Eric Rich is a Senior Hydrologist in the National Pollutant Discharge Elimination System and Water Quality Program within the Navajo Nation Environmental Protection Agency. Since 1999 he has been overseeing the Navajo Nation surface water quality sampling activities and has also been implementing the water quality standards program. For the past 23 years Mr. Rich has worked as a hydrologist and geologist in both regulatory and consulting capacities. Mr. Rich has Bachelor's degrees in Hydrology, Sociology, and Spanish from the University of Arizona.

Learning About Complex Environmental Changes and their Impacts on People, Plants, and Ecosystems: Research and Education Opportunities at Fort Lewis College

Our environment, including climate, air, water, soil and food, affects our well-being directly and indirectly through effects on plants and ecosystems. Environmental changes are complex, because multiple factors are changing at the same time. Effects of these changes can be local, regional, and global. Students and faculty at Fort Lewis College are learning about the complex environmental changes that affect the health of people in our region through coursework and research in environmental biology and environmental health, including a new degree program in Environmental Health to begin in 2013.

Dr. Heidi Steltzer is an Assistant Professor in the Biology Department at Fort Lewis College. She is an ecosystem ecologist, studying the effects of environmental change on ecosystems and the services they provide for human well-being. Heidi teaches courses in environmental health, introductory biology for non-science majors, plant biology, and global change and mountain systems.

Phil Shuler is Professor of Agriculture at Fort Lewis College. His teaching and research involve sustainable agriculture and mineral nutrition of plants and soils.

Shere Byrd is a Professor of Biology and specializes in human cell psychology. Her most recent research examines stress, inflammation, and diet in relation to pre-diabetes in college age students, both Native American and Caucasian.

Success Story: Pesticide Disposal

The NNEPA Pesticides Program conducted a pesticides inventory and disposal event for several schools across the Navajo Nation. US EPA coordinated with the New Mexico Department of Agriculture and NNEPA for this event. This event was a result of inspections conducted at schools, during which unused



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products from several years ago were found. Inspectors inventoried the schools with the most severe situations. The unused chemicals are a hazard to kids and the environment because of the unlabeled products and unknown origins of these products. The disposal event was a compliance effort on the part of the Pesticides Program and New Mexico Department of Agriculture, which paid the disposal fees. The schools brought the products to Navajo Agricultural Products Industry near Farmington, New Mexico, where the products were disposed of. This event was such a success that another event took place which disposed of agricultural pesticides in cooperation with the Arizona Department of Agriculture. Many of the agricultural products that were disposed of came from the Navajo Agricultural Products Industry and over 100 pounds were disposed of.

Glenna Lee is the Environmental Supervisor for the Pesticides Program. She has worked with NNEPA for 6 years, and before that, with Secor International Environmental Consulting based in Las Vegas, Nevada. She received her MS in Environmental Policy and Management from the University of Nevada Las Vegas in 2000.

3:30 pm -4:30 pm

Environmental Health and Abandoned Uranium Mines

The long-term objective of the project is to explore the relationship between cancer disparities for the Navajo Nation and chronic exposure to environmental uranium.

Jani C. Ingram, Ph.D., Associate Professor of Chemistry and Biochemistry (B.S. New Mexico State University, Ph.D. Chemistry, University of Arizona) investigates environmental contaminants with respect to their impact on health. She is a member of the Navajo Nation (born to the Náneesht'ézhi clan) and is involved in outreach activities for Native American students in undergraduate research.

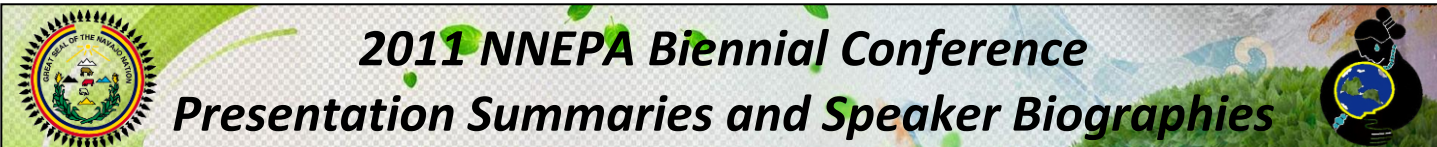
Sustainable Local Food Systems

People looking for more local food also are looking for a variety of sustainability values in their food and food system. We will explore how the movement to develop stronger local food systems can be a positive way to increase environmental sustainability – from conserving soil and water to reducing climate change and biodiversity losses.

Jim Dyer is the Director of the Southwest Marketing Network (www.swmarketingnetwork.org) and Healthy Community Food Systems. He and his wife Pam raise sheep, poultry, and produce on a small scale in SW Colorado south of Hesperus.

Diversifying to a Green Economy

Wahleah Johns, Black Mesa Water Coalition



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8:00 am – 9:00 am

Regulated Drinking Water on the Navajo Nation

There are over 80 contaminants listed in the Navajo Nation Primary Drinking Water Regulations. We will discuss what they are and how the owners and operators of water systems inform the public and comply with the regulations.

Merle R. Chischilly is a Senior Environmental Specialist with the Navajo Nation Public Water Systems Supervision Program. He has been employed with NNEPA for 13 years. Current roles and responsibilities include conducting drinking water infrastructure need surveys, administering and enforcing the Navajo Nation Safe Drinking Water Act and the Primary Drinking Water Regulations on the Navajo Nation. Other roles may include development and implementation of operator certification programs, compliance determinations, and sanitary surveys.

Underground Storage Tank Program Overview

This presentation will discuss the laws and regulations of the Navajo Nation Underground Storage Tank (UST) Act. The UST Program oversees 133 facilities on the Navajo reservation and focuses on the operation and maintenance of underground storage tanks, which are included in the roles and responsibilities of owners and operators with USTs. The Program assists with prevention, compliance, and education, all based around the NNUST Act. The Program conducts trainings for owners and operators and helps them to understand the process of compliance. The Program conducts inspections on a yearly basis with US EPA staff.

Tanya Yazzie is an Environmental Specialist with the UST Program. Her work focuses on prevention and compliance by ensuring that fuel stations across the reservation adhere to the rules of the Navajo Nation UST Act.

Nate Yazzie is an Environmental Technician with the UST Program who assists with the prevention and compliance with the Navajo Nation UST Act.

Dust, Snow, and Water in the Colorado River Basin

Jeff Deems, Western Water Assessment and University of Colorado, Boulder

9:15 am – 10:15 am

Public Water Systems Program Overview

Elisa Arviso is a Senior Hydrologist with the Navajo Nation Public Water Systems Supervision Program. She has been employed with NNEPA for 10+ years. Current roles and responsibilities include conducting drinking water source assessments, administering the Navajo Nation Safe Drinking Water Act and the



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Primary Drinking Water Regulations on the Navajo Nation. Other roles may include development and implementation of source water protection, compliance determinations, and sanitary surveys.

Four Corners Air Quality

See “Four Corners Air Quality” on Wednesday, August 24, from 9:15 am – 10:15 am.

Mark Jones

Water Distribution and Sanitary Sewer Design

See “Water Distribution and Sanitary Sewer Design” on Wednesday, August 24, from 9:15 am – 10:15 am.

Eric Laurin

10:30 am – 11:30 am

Underground Injection Control (UIC) Program Overview

An overview of the UIC program will be given. The NNEPA UIC Program, based in Shiprock, New Mexico, issues permits, conducts inspections, and performs mechanical integrity tests, all for 380 Class 2 oil and gas wells across the reservation. The wells are permitted through area, multiple well, or individual permits. The mechanical integrity tests are completed to verify that no down hole leaks into the Underground Sources of Drinking Water exist.

William E. Freeman is the Program Manager for the UIC Program. He has been with the Program for 11 years, and has been the Manager for 8 years. He has a B.S. and an M.S. in Geology.

Composting and Sustainable Food Production

This presentation offers ideas for moving towards a more sustainable economic model of living in harmony with Mother Earth.

Joe Pacal is the Director of Sunrise School for Ecological Living in Fort Defiance (www.sunriseschool.org). He has been gardening and composting for 40 years in the southwest and Hawaii.

Water Distribution and Sanitary Sewer Design

See “Water Distribution and Sanitary Sewer Design” on Wednesday, August 24, from 9:15 am – 10:15 am.

Eric Laurin

1:00 pm – 2:00 pm



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Vandalism Enforcement at Community Water Systems

This will be a roundtable discussion for those that are concerned about the vandalism going on at our Navajo Nation community water systems. Some of the problems that will be discussed are copper stripping and theft at major water systems, tampering; especially illegally tapping into a water system, swimming in storage tanks, graffiti, and gaining access to water storage tanks. Access issues include the potential for contamination with biological and chemical agents. These problems give rise to liability issues and water quality concerns. This is a forum in which the community can express their concerns to the Enforcement Department.

Yolanda Barney is the Environmental Program Manager with the Public Water Systems Supervision Program. She has her Bachelor's in Biology with a Minor in Art from the University of New Mexico and a Master's in Health Administration from the University of Phoenix. She is originally from Gallup, New Mexico and currently resides in St. Michaels, Arizona. She played an instrumental part in obtaining the primary enforcement authority for drinking water on the reservation. The Navajo Nation is the only Tribe with primary enforcement authority over drinking water. The Program monitors 160 water systems which are owned and operated by NTUA, BIA, schools, and businesses. The Program plans to apply for primacy over the Western Agency water systems as a result of the Bennett Freeze being lifted. The regulations that govern the Program are the Navajo Nation Safe Drinking Water Act and the Navajo Nation Primary Drinking Water Regulations.

Anderson Harvey is a Sergeant and NNEPA Criminal Enforcement Department Program Manager from Aspen Canyon, Arizona. His clans are Totsohnii, born for To'aheedliinii, maternal grandparents are Tabahé and paternal grandparents are Tachii'nii. In 1996, Anderson was assigned to the Navajo Nation Environmental Protection Agency to enforce Navajo Nation Environmental Laws and Regulations, and helped to develop the newly formed NNEPA-Criminal Enforcement Department. Sergeant Harvey received his New Mexico Law Enforcement Certification status in 1986, Federal Commission Law Enforcement Officer Certification, Arizona Police Standards Training Board Certification and the Federal Criminal Investigator credentials.

Community Involvement in Cleanup Decisions at Mine Sites on Navajo

Dana Barton, US EPA

Zumba/Line Dancing

See "Zumba/Line Dancing" on Tuesday, August 23, from 2:15 pm – 3:15 pm

Colleen Hoskie

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Vandalism Enforcement at Community Water Systems Continued

See "Vandalism Enforcement at Community Water Systems" on Thursday, August 25, from 1:00 pm – 2:00 pm.

Yolanda Barney

Anderson Harvey

Proper Solid Waste Disposal Practices

Illegal dumping of trash creates a huge problem that negatively impacts the community and environment. This presentation provides information on where tribal members can take their trash and recyclable items.

Elaina L. Doral is the Environmental Programs Coordinator for the Tribal Solid Waste and Hazardous Materials Emergency Preparedness Programs at the Inter Tribal Council of Arizona, Inc. (ITCA) in Phoenix, Arizona.

James Benally is the Senior Environmental Specialist for the Navajo Nation and provides technical assistance and guidance to Navajo communities on all aspects of proper solid waste management and recycling practices. Mr. Benally has over 15 years of experience working for the Navajo Nation as a Senior Environmental Specialist and Reclamation Specialist.

Navajo Nation Emission Inventory and Air Quality Monitoring

Navajo Nation Emission Inventory addresses criteria pollutant emissions from stationary point sources and nonpoint (area) sources on the Navajo Nation. The Four Corners Power Plant and Navajo Generating Station emits 89.6% of the total point source emissions. Area source emissions from residential wood combustion, wildfires, prescribed fires, paved road dust, unpaved road dust, and livestock are the primary emitters of CO, NH₃, PM_{2.5}, PM₁₀, and VOC emissions on the Navajo Nation.

The Air Quality Monitoring presentation will cover some information about the five air monitoring station setups throughout the Navajo Nation. Data from the ambient air monitors and gaseous analyzers will be discussed. The School Toxics project is a collaborative study with US EPA that involves setting up a volatile organic compound and carbonyl sampler. The monitors are set up to measure the two pollutants at the Nenahnezad School near Shiprock, New Mexico. An update of the results from this study will be given. This data will affect the future of this study.

Anoop Sukumaran is primarily involved in air permitting, compliance activities, proposed rulemaking, and emission inventory for air pollution sources located on the Navajo Nation. He holds an M.S. in Environmental Engineering from New Mexico State University and a B.S. in Chemical Engineering from India.

Karmen Billey has been a Senior Environmental Specialist for the NNEPA Air Quality Control for five years. Since 2006, she has been maintaining five air monitoring sites throughout the Navajo Nation, and



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three additional sites will be added in the future. She retrieves data, makes sure the monitors are working properly, and reports data to US EPA through the Air Quality System. Ms. Billey has a Bachelor's of Science in Biology with a minor in Chemistry from New Mexico Highlands University. She is currently working on a Master's of Science degree from Arizona State University majoring in Environmental Management.