2019 Navajo Research Conference
Navajo Nation Museum – Window Rock, Arizona
October 16 and 17, 2019

“Reaffirming Resilience of the Diné through Research”

Sponsored by:

Diné College
The Navajo Nation

Department of Health & Department of Diné Education

John Hopkins Center for American Indian Health

Center for Health Equity Research & Partnership for Native American Cancer Prevention

AGENDA

DAY ONE: Wednesday, October 16, 2019

8:30 AM       MASTER OF CEREMONY       Del Yazzie, MPH, IRB Board Member
8:35 AM       INVOCATION       Stanley Reddy
8:45 AM       WELCOME       Charles M. Roessel, PhD, President, Diné College
8:50 AM       OPENING REMARKS       Beverly Becenti-Pigman, NNHRRB Chair
                          Jonathan Nez, President, Navajo Nation
                          Daniel Tso, Chair, HEHS Committee

9:00 – 10:15 AM   PLENARY SESSION

          PANEL on GENETICS RESEARCH POLICY:
                          Ramona Antone-Nez, NNDOH
                          Walter Phelps
                          Daniel Tso, Chair, HEHS Committee
                          Jaime Henio
                          David Begay

10:15 AM – 10:30 AM   AM BREAK & POSTER REVIEW

10:30 AM – 12:00 NOON   MORNING SESSION I

A: Navajo Culture, Social & Language #1

Facilitator:

Connecting "Hozho" to Established Research Studies
Harelda Anderson & the Shiprock Diabetes Prevention Research Team

Laugh in Harmony: A Case Study of Laughter in Navajo Social Life
Kohei Watanabe

Understanding Cultural Values to Support Parents of Infants and Young Children in an Early Intervention
Maureen Russell & Cathron Donaldson
Developing Community Partnerships Through Research to Define Community Well-Being from a Diné-centered Perspective with Three (Diné) Navajo communities in New Mexico

Assessing Risk and Resiliency Factors to Inform Prevention and Intervention Methods

**B: Environmental Issues #1**

**FACILITATOR:**

**Autoimmunity and Uranium Exposures:**
Markers of Immune Dysfunction Associated with Proximity to Waste Sites and Metals in Drinking Water Among DiNEH Project Phase II Participants

Dr. Esther Erdei, Chris Shuey, Curtis Miller, Miranda Cajero & Johnnye Lewis

Environment/Public Health

**Risk perception of Navajo communities along the San Juan River following the Gold King Mine Spill**

Morgan Farley

Environment/Public Health

**Tó’Litso, the water is yellow: Water, agricultural, and sediment quality results of the San Juan River on the Navajo Nation one year after the Gold King Mine Spill and community focus group findings within one year of the Spill.**

Jani Ingram & Carmenlita Chief

Environment/Public Health

**Meta(loids) in Cucurbita pepo in a Uranium mining impacted area on the Diné Nation**

Christine Samuel-Nakamura

Environment

**Assessing Indoor Radon Exposure on the Navajo Nation**

Dr. Sheldwin Yazzie

Public Health/Environment

**C: Education #1**

**FACILITATOR:**

**National Indian Education Study (NIES)**

James Deaton

Education

**Engaging Navajo Elementary Schools in Randomized Controlled Trial of Yéego! Health Eating & Gardening: Three phases of development**

Kevin Lombard, Shirley Beresford, India Ornelas, Dr. Mark Bauer, Geraldine Garrity, Desiree Descheenie, Brandon Francis, Sonia Bishop, Emily Brown, Felix Nez, Audrey Etsitty, Linda Garcia & Eileen Rillamas-Sun

Public Health

**High School Pathway Component to Increase American Indian Public Health Workforce- A Dissertation Project**

Heather Dreifuss

Education/Public Health

**Secondary Data Analysis of American Indian student’s resilience through digital storytelling and final projects in the Diné College Summer Research Enhancement Program Curriculum**

Heather Dreifuss, Dr. Carmella Kahn & Dr. Mark Bauer

Education
Building a Navajo Nation’s Public Health Workforce  Dr. Nicolette Teufel-Shone & Dr. Carmella Kahn  Public Health

12:00 NOON – 1:10 PM  LUNCH  Quality Inn  Speaker: Richard M. Begay, Director of NN Heritage & Historic Preservation Department  
*Class A Type II permits for Research, Ethnographic Research*

1:15 PM – 2:45 PM  AFTERNOON SESSION I

**A: Navajo Culture, Social & Language #2**

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
<th>Department</th>
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<tbody>
<tr>
<td>The Early Navajo Pastoral Landscape Project - Archaeology in the Service of Diné History</td>
<td>Wade Campbell</td>
<td>Navajo History</td>
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<td>Diné Survivance in the Old Leupp Boarding School (1909-1942), A Historical Archaeological Site on the Navajo Reservation</td>
<td>Davina Two Bears</td>
<td>Education</td>
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<td>Genetic analysis of peaches grown by Native Americans in North American Southwest</td>
<td>Reagan Wytsalucy</td>
<td>Agriculture</td>
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<td>A Linguistic Analysis of Child Language Production</td>
<td>Melvatha Chee</td>
<td>Education</td>
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<tr>
<td>Importance of Diné Language Translation and Interpretation of Medical and Scientific Terms in Community-based Health Research</td>
<td>Sara Henio-Adeky, Dr. David Begay &amp; Natanya Kaye</td>
<td>Education/Environment/Medicine</td>
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**B: Environmental Issues #2**

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<thead>
<tr>
<th>Title</th>
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<th>Department</th>
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<tr>
<td>Health Impact Assessment of Oil Drilling Operations in the Navajo Nation area of Counselor, Torreon and Ojo Encino Chapters</td>
<td>Teresa Seamster</td>
<td>Environment</td>
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<td>DiNEH Project Retrospective: Findings of the Largest Population Health Study on the Navajo Nation Provide Evidence that Living Near Abandoned Uranium Mines is Unhealthy</td>
<td>Chris Shuey, Dr. Esther Erdei, Dr. Curtis Miller, Miranda Cajero &amp; Dr. Johnnye Lewis</td>
<td>Environment/Public Health</td>
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<td>Vegetation Change On Navajo Farmlands Along The San Juan River After The Gold King Mine Spill Using Remote Sensing</td>
<td>Xiaobo Hou</td>
<td>Environment</td>
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<td>Impact and recovery of Navajo Agricultural Activity following the Gold King Mine Spill</td>
<td>Malik Scott, Dr. Paloma Beamer, Dr. Dean Billheimer, Yoshira Ornelas Van Horne &amp; Karletta Chief</td>
<td>Environment/Public Health</td>
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Exploring the changing relationships of Indigenous peoples with their natural environments: A cross-cultural Study

C: Diabetes #1

Evaluation of the New Onset Diabetes Education Program for Navajo Adults at Northern Navajo Medical Center

Participant recruitment and engagement in a youth diabetes prevention research study: Tribal Turning Point

Preventing complications of diabetes among Navajo adults

The health educational tool called Diné Health (DH), will be utilized to examine the impact of cultural tailoring on health behaviors and health outcomes of Diné patients.

The Role of Physical Activity in Preventing Type 2 Diabetes

A: Diabetes #2

Cancer

The Navajo Nation Health Survey (NNHS): Results of the Navajo Behavioral Risk Factor Surveillance Survey.

Development and Evaluation of a Cancer Literacy intervention to Promote Mammography Screening among Navajo Women: A Pilot Study

Restoring Balance, a Physical Activity Intervention for Native Cancer Survivors, Preliminary Analysis

Helicobacter pylori infections in Navajo communities of northern Arizona

Academic and Community partnership to improve CRC screening in AI communities

B. Diabetes #3

Education #2

Sociodemographic Correlates of Good Glycemic Control in Navajo Youth and...
Young Adults in the SEARCH for Diabetes in Youth Study

Factors of success for a culturally tailored CHW Certification Program
Olivia Muskett Education/Medicine/Public Health

Supports for Out-of-School time (OST) STEM Education
Dr. Nena Bloom & Joëlle Clark Education

Perspectives on Genetic Research in the Navajo Nation
Katrina Claw Public Health

Predicting help-seeking attitudes and intentions in a Diné sample
Dr. Chesleigh Keene Behavioral Health

C. Indoor Air Quality and Respiratory health

Impact of RSV prevention in infancy on prevalence of asthma among 10 - 14-year-old children
Jessica Atwell & Demetria Clichee Maternal Child/Public Health

Indoor environmental exposures and asthma control among Navajo children in Tuba City, Arizona.
Stevick Jim Public Health

Wood stove interventions and child respiratory infections in rural communities
Justina Yazzie, Esther Erdei, Dr. Johnnye Lewis, Dr. Annie Belcourt, Dr. Curtis Noonan & Dr. Tony Ward Environment/Public Health

Impact of Heating Stove Replacement on Indoor and Outdoor Air Pollutants and Respiratory Health in Shiprock, NM
Sky Izzo & Christopher Yazzie Public Health

Residential Wood Smoke Interventions Improving Health in Native American Populations
Eugenia Quintana, Nolan Hoskie, Dr. Annie Belcourt, Dr. Curtis Noonan & Dr. Tony Ward Environment/Public Health

DAY TWO: Thursday, October 17, 2019

9:00 AM – 10:15 AM
MASTER OF CEREMONY
Sonya Shin, MD, IRB Board Member

INVOCATION
Alexander Thorne

OPENING REMARKS
Dr. Jill Jim, Exec. Director NNDOH

PANEL PRESENTED BY THE NAVAJO EPIDEMIOLOGY CENTER
Ramona Antone-Nez, NNDOH

10:15 AM – 10:30 AM
AM BREAK & POSTER REVIEW

10:30 AM – 12:00 NOON
MORNING SESSION 1

A: Infectious Disease

FACILITATOR:
| Impact of Routine PVC13 Use on Pneumococcal Nasopharyngeal Carriage among Navajo and White Mountain Apache Tribal Members | Shea Littlepage & Melinda Charley | Public Health |
| The burden of Staphylococcus aureus among American Indians on the Navajo Nation | Estar Denny & Jayme Biakeddy | Public Health |
| Trends in Invasive Haemophilus influenzae disease among Native American children | Dr. Nina Ritchie & Marqia Sandoval | Public Health |
| Etiology of Community-Acquired Pneumonia (CAP) in Hospitalized Native American Adults | Dr. Laura Hammitt & Wanda Lefebvre | Public Health |
| Impact of PCV13 on Invasive Pneumococcal disease on the Navajo Nation | Dr. Raymond Reid & Carol Tso | Public Health |

**B: Maternal-Infant Health #1**

**FACILITATOR:**

| Tailored communication to improve uptake of recommended maternal vaccines among Navajo and White Mountain Apache women | Jessica Atwell & Lori Samuel | Maternal Child/Public Health |
| Family Spirit Nurture: Addressing Early Childhood Obesity Risks with a Home Visiting Program for Navajo Families | Shaneyka Yazzie & Gayle Pinto | Maternal/Child Health |
| Parent and Caregiver Survey and Center-based Early Learning Program Interviews | Candida Hunter & Memarie Tsosie | Maternal/Child Health |
| Oral Health Knowledge, Attitudes and Behaviors Among Navajo Mothers with Infants | Shea Littlepage & Leonela Nelson | Public Health |
| Association Between Metal Exposure and Maternal Autoantibodies: Potential Role in Neurodevelopment | Adrianna Rojas, Joseph Hoover, Esther Erdei, Li Luo, Johnnye Lewis, Debra MacKenzie & Navajo Birth Cohort Study Team | Environment/Maternal/Child Health |

**C: Maternal-Infant Health #2**

**Mental/Behavioral Health**

| Stopping Gestational Diabetes Mellitus Dissemination Plan Across Navajo Nation | Melanie Aspaas & Katie Brown | Education/Diabetes/Maternal/Child health |
| Fruit and Vegetable Prescription Program for Women with Diabetes in Pregnancy | Kymie Thomas | Diabetes |
| The Development and Pilot Implementation of Asdzaan Be’eena’, an Intergenerational Preconception Health Program for Navajo Girls and their Female Caregivers | Jennifer Richards & Jaime Begay | Behavioral Science/Public Health |
A Randomized Control Trial (RCT) Evaluating the Effectiveness of a Preconception Counseling (PC) and Gestational Diabetes Mellitus (GDM) Risk Reduction Program for At-Risk American Indian and Alaska Native (AI/AN) Girls: Baseline Findings from Shiprock, NM

Substance Abuse and Healing from Unresolved Grief for Native Americans: A Phenomenological Study

**12:00 NOON – 1:15 PM**

**LUNCH**

**1:30 PM – 3:00 PM**

**AFTERNOON SESSION 1**

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<th>Session</th>
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<th>Domain</th>
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<tr>
<td>A: Child &amp; Youth #1</td>
<td>Social Cognitive Processes in a Sample of Navajo Children: An Eye-Tracking Study</td>
<td>Sara Nozadi</td>
<td>Maternal/Child Health</td>
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<td>Neurodevelopmental profile of Navajo children enrolled in NBCS/ECHO</td>
<td>Brandon Rennie &amp; Ellen Geib</td>
<td>Maternal/Child Health</td>
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<td>The Native Vision Program: Promoting a Healthy Future for Native Youth</td>
<td>Alicia Tsosie &amp; Shardai Pioche</td>
<td>Behavioral/Public Health</td>
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<td>A Comparison of Navajo and Non-Navajo American Indian Adolescent Substance Use Rates and treatment of Substance Use</td>
<td>Randall Swaim</td>
<td>Behavioral Science/Public Health</td>
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<td>Navajo Nation-NIH negotiation of a Data Sharing Agreement</td>
<td>Dr. Johnnye Lewis, Dr. Debra MacKenzie, Dr. David Begay &amp; Mae-Gilene Begay</td>
<td>Environment</td>
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<td>B: Child &amp; Youth #2</td>
<td>Effects of High Levels of Copper and Zinc Deficiency in Pregnancy on Navajo Children’s Development</td>
<td>Dr. Ruofei Du</td>
<td>Maternal/Child Health</td>
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<td>Thinking Zinc: A nutritional intervention for metal toxicity</td>
<td>Laurie Hudson</td>
<td>Environment</td>
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<td>Effectiveness of Navajo Fruit and Vegetable Prescription (FVRx) Program Implemented Among Young Children (9-5 years)</td>
<td>Ariel Shirley</td>
<td>Diabetes</td>
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<td>Impact of the Healthy Diné Nation Act of 2014</td>
<td>Kristen Tallis &amp; Caleigh Curley</td>
<td>Public Health</td>
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<td>Health Hunger Free Kids Act on Navajo Nation 2016-Present</td>
<td>Sierra Frank-Ignacio</td>
<td>Public Health/School Health/Maternal Child Health</td>
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<td>C: Food &amp; Nutrition #2</td>
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Understanding Local Food Shopping Patterns on Navajo Nation
Shine Salt & Tierra Edison  Diabetes

Mutton Consumption Survey
Dr. Jani Ingram & Tasha Nez  Behavioral Health

The Healthy Navajo Store Initiative: Increasing Health Food Access through Partnerships with Retailers
Janine Hood  Diabetes

Developing and testing policy, systems and environment (PSE) interventions to reduce chronic disease on the Navajo Nation: Looking Back, Moving Forward
Dr. Joel Gittelsohn & Marla Pardilla  Behavioral/Public Health

3:00 PM – 3:15 PM
PM BREAK & POSTER REVIEW

3:15 PM – 4:00 PM
Closing Remarks
Beverly Becenti-Pigman

POSTERS

Gold King Mine Spill
Yoshira Ornelas Van Horne  Public Health

Reclaiming Traditional Names to Promote Dine (Navajo) Language and Culture
Kendrick McCabe  Education

Efficacy of Maternal Immunization with RSV F Vaccine in Preventing RSV Lower Respiratory Tract Infection in Young Infants
Laura Hammitt  Maternal/Child Health

Cytokine production and metal exposures among Navajo mothers-newborn baby pairs
Esther Erde  Public Health/Environment

Meeting physical activity requirements by gender in six Native American communities
Lisa Poirier & Dr. Joel Gittelsohn  Public Health

Frequency and type of beverage intake and risk of hypertension in Native American Cardiovascular Disease Prevention: OPREVENT2 Study
Caroline Wensel & Marla Pardilla  Public Health

Household and Individual-level Factors Associated with Fruit, Vegetable, and Fiber Intake among Native American Adults
Sally Yan & Dr. Joel Gittelsohn  Public Health

Sociodemographic and Psychosocial Factors Associated with Diet Quality among Native American Adults: Baseline Data from the OPREVENT2 Study
Michele Estrade’ & Dr. Joel Gittelsohn  Public Health