

Indigenous Co-Innovation of Food, Energy & Water Systems

Training students to co-design with Indigenous communities using systems thinking

<https://blumcenter.berkeley.edu/academics/infews/workshop/>

June 15 – 19, 2020

Virtual Workshop

[Register Here](#)

Contributing Universities & Partnerships:

University of California at Berkeley's Blum Center in partnership with Pinoleville Pomo Nation

University of Arizona in partnership with Diné College and The Navajo Nation

University of South Florida and University of the Virgin Islands

Water Is Life: Shared Challenges, Shared Understanding, Shared Solutions

Date & Time	Events
Monday, June 15	
First session 10:00am - 12:00pm PDT 11:00am - 1:00pm MDT 12:00pm - 2:00pm CDT 1:00pm - 3:00pm EDT	<p><i>Welcome and Orientation:</i></p> <p>Introduction to the workshop, including discussions about working together with Indigenous and community leaders, environmental professionals, and InFEWS educators. Panel will briefly introduce themselves, their program and Indigenous partners they are working with from: Navajo Nation, Pinoleville Pomo Nation, and Belize. Welcome from: James Tutt, Dean of the School of STEM at Diné College Charles Roessel, Diné College President Avery Denny, Diné Hatai, Traditional Medicine Practitioner</p> <p><i>InFEWS Background and Goals:</i></p> <p>Overviews of programs, participants and workshop goals presented by: Alice Agogino, UC Berkeley InFEWS Faculty Karletta Chief, UArizona InFEWS Faculty Maya Trotz, USF InFEWS Faculty Don Robinson, Diné College InFEWS Faculty Vinod Lohani, NSF, NRT Program Director</p>

Monday, June 15

Second session

1:00pm - 2:30pm PDT
2:00pm - 3:30pm MDT
3:00pm - 4:30pm CDT
4:00pm - 5:30pm EDT

COVID-19 and FEWS Challenges on The Navajo Nation

Panel Discussion moderated by Dr. Karletta Chief

Panelists include:

Joseph “Angel” DeSoto, STEM & Biomedical Science Faculty at Diné College

Shazia Tabassum Hakim, Faculty in Microbiology at Diné College

Sriram Shamasunder, Co-Founder of the HEAL Initiative at the University of California San Francisco

Duane “Chili” Yazzie, President of the Navajo Nation Shiprock Chapter

Mae-Gilene Begay, Director of the Community Health Representative Program Response

Sunny Dooley, Diné Cultural Expert and Storyteller

Suggested Video:

<https://www.cbsnews.com/video/coronavirus-in-navajo-nation/#x>

Tuesday, June 16

First session:

10:00am - 12:00pm PDT
11:00am - 1:00pm MDT
12:00pm - 2:00pm CDT
1:00pm - 3:00pm EDT

Indigenous FEWS: Past Practices and Innovations

Presentations and Discussion

Indigenous co-innovation discussion of NRT FEWS programs, including a cross-pollination of best practices, challenges, and achievements across participants. Presentations from sponsoring programs:

- Systems Training for Research ON Geography-based Coastal Food Energy Water Systems, rebranded as Strong Coasts, University of South Florida with the University of the Virgin Islands' STRONG-FEWS, presented by Dr. Maya Trotz and Dr. Rebecca Zarger
- STEM Training for Actionable Research and Global Impact, University of California – Berkeley's Blum Center, presented by Dr. Alice Agogino and Dr. Yael Perez, in collaboration with Angela James, Vice Chair, the Pinoleville Pomo Nation, and Michelle Baker and Timonie Hood, EPA
- Indigenous Food, Energy, and Water Security and Sovereignty, University of Arizona and Diné College, presented by Dr. Karletta Chief and Benita Litson

Tuesday, June 16	
Second session 1:00pm - 2:30pm PDT 2:00pm - 3:30pm MDT 3:00pm - 4:30pm CDT 4:00pm - 5:30pm EDT	<i>Diné Traditional FEWS Frameworks</i> <i>Presentations and Discussion</i> Keynote Speakers: Perry H. Charley , Diné College InFEWS Faculty David Begay , PhD, Associate Research Professor in the UNM College of Pharmacy, Albuquerque, NM.
Wednesday, June 17	
First session 10:00am - 12:00pm PDT 11:00am - 1:00pm MDT 12:00pm - 2:00pm CDT 1:00pm - 3:00pm EDT	<i>FEWS Systems on The Navajo Nation</i> <i>Panel discussion moderated by Dr. Karletta Chief</i> Discussions of investigating and communicating nature and science in society. Panelists include: * Peter Littlehat , IHS Rex Kontz , NTUA Suzanne Singer , Native Renewables, Benita Litson , Diné College Land Grant Office Stephanie Hall , Tolani Lake Farms
Wednesday, June 17	
Second session 1:00pm - 2:30pm PDT 2:00pm - 3:30pm MDT 3:00pm - 4:30pm CDT 4:00pm - 5:30pm EDT	<i>Decolonizing FEWS Innovation – STEAM Panel Discussion</i> <i>Panel discussion moderated by Dr. Valerie Shirley & Nikki Tulley</i> Contextualizing innovation within Indigenous communities through both science and art. Inclusion of Art in STEM (STEAM). Topics surround what can be learned through using different methodologies. Panelists include: Christine Ami , Diné College Professor, Kim Tallbear , University of Alberta Professor Wahleah Johns , Native Renewables Nonabah Lane , Navajo Ethno Agriculture Emma Robbins , Dig Deep, Navajo Water Project

Thursday, June 18							
<p>First session</p> <p>10:00am - 12:00pm PDT 11:00am - 1:00pm MDT 12:00pm - 2:00pm CDT 1:00pm - 3:00pm EDT</p>	<p><i>What is Co-Design of FEWS Innovations in Indigenous Communities?</i></p> <p><i>Workshop Session Facilitated by Dr. Yael Perez and InFEWS graduate fellows</i></p> <p>Interdisciplinary and inter-institution collaboration discussion including discussion of best practices and recommendations for implementation. Discussion moderated by InFEWS trainees inviting conversation across previous days' discussion topics. This session will facilitate teaching of co-innovation of FEWS with Indigenous and developing communities through these breakout sessions:</p> <ul style="list-style-type: none"> • <i>FEWS Sovereignty and Environmental Justice</i> • <i>Resilience to COVID-19 and other pandemics</i> • <i>Language and Cultural Brokers</i> • <i>Digital Transformations in Access and Development</i> • <i>Sustainable FEW Systems</i> • <i>Health and Wellbeing</i> • <i>Multi-generational Perspectives on FEWS</i> • <i>STEAM Education: Broadening Participation</i> 						
Thursday, June 18							
<p>Second session</p> <p>1:00pm - 2:30pm PDT 2:00pm - 3:30pm MDT 3:00pm - 4:30pm CDT 4:00pm - 5:30pm EDT</p>	<p><i>FEWS Innovation and Learning with K-12 Indigenous Students</i></p> <p><i>Virtual field trip and Q&A moderated by Dr. Yael Perez</i> <i>Q&A to follow</i></p> <ul style="list-style-type: none"> • Mark Sorenson, Director and CEO of Star (Service to All Relations) Charter School hosts a virtual Field Trip • Zhao Qiu, Self-Governance Administrator, Pinoleville Pomo Nation; The Pomo Youth College and Career Success Project Director 						
Friday, June 19							
<p>First (only) session</p> <p>10:00am - 12:00pm PDT 11:00am - 1:00pm MDT 12:00pm - 2:00pm CDT 1:00pm - 3:00pm EDT</p>	<p><i>Opportunities, Networking and Next Steps</i></p> <p><i>Panel discussion moderated by Dr. Alice Agogino</i></p> <p>Discussion of funding opportunities, proposal best practices and successful inter-institution collaborations. Presenters include:</p> <table border="0"> <tr> <td>Dr. John Weishampel, NSF</td> <td>Timonie Hood, EPA</td> </tr> <tr> <td>Erin Riley, NIFA-USDA</td> <td>Carl Etsitty, USDA-APHIS Tribal Liaison</td> </tr> <tr> <td>Michelle Baker, EPA</td> <td>Lura “Jody” Chase, NSF TCU Program</td> </tr> </table> <p><i>Final Remarks and Closing</i></p>	Dr. John Weishampel , NSF	Timonie Hood , EPA	Erin Riley , NIFA-USDA	Carl Etsitty , USDA-APHIS Tribal Liaison	Michelle Baker , EPA	Lura “Jody” Chase , NSF TCU Program
Dr. John Weishampel , NSF	Timonie Hood , EPA						
Erin Riley , NIFA-USDA	Carl Etsitty , USDA-APHIS Tribal Liaison						
Michelle Baker , EPA	Lura “Jody” Chase , NSF TCU Program						