



# INFEWS

Innovations at the Nexus of  
Food Energy and Water Systems



UNIVERSITY OF  
SOUTH FLORIDA



THE UNIVERSITY OF ARIZONA  
COLLEGE OF AGRICULTURE & LIFE SCIENCES  
Environmental Science



Superfund Research Program  
The University of Arizona



## 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 by June 8, 2020: [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
<b>Monday, June 15</b>	
<b>First session</b> 10:00am - 12:00pm PDT 11:00am - 1:00pm MDT 12:00pm - 2:00pm CDT 1:00pm - 3:00pm EDT	<p><b><i>Welcome and Orientation:</i></b></p> <p>Introduction to the workshop, including discussions about working together with Indigenous and community leaders, environmental professionals, and InFEWS educators. Introductions for Indigenous representatives: Navajo, Pinoleville Pomo, Maya, and Belize. Welcome from:</p> <ul style="list-style-type: none"> <li>*<b>James Tutt</b>, Dean of the School of STEM at Diné College, and</li> <li>*<b>Charles Roessel</b>, Diné College President</li> <li>* <b>Avery Denny</b>, Diné Hatali, Traditional Medicine Practitioner</li> </ul> <p><b><i>InFEWS Background and Goals:</i></b></p> <p>Overviews of programs, participants and workshop goals presented by:</p> <ul style="list-style-type: none"> <li><b>Alice Agogino</b>, UC Berkeley InFEWS Faculty</li> <li><b>Karletta Chief</b>, UArizona InFEWS Faculty</li> <li><b>Maya Trotz</b>, USF InFEWS Faculty</li> <li><b>Don Robinson</b>, Diné College InFEWS Faculty</li> <li><b>Vinod Lohani</b>, NSF, NRT Program Director</li> </ul>

\* **Speaker not yet confirmed**

Recommended readings for each session can be found here: <https://blumcenter.berkeley.edu/academics/infews/workshop/>



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## 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**, MD, Ph.D., Faculty at Diné College  
**Shazia Tabassum Hakim**, Ph.D., 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, and  
\* **Ethel Branch**, Founder of the Navajo-Hopi COVID-19 Relief Effort

*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

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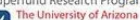


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## Tuesday, June 16

### Second session

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

### ***Diné Traditional FEWS Frameworks***

*Presentations and Discussion*

Keynote Speakers:

**Perry H. Charley**, Diné College InFEWS Faculty and  
**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

### ***FEWS Systems on The Navajo Nation***

*Panel discussion moderated by Dr. Karletta Chief*

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

### ***Decolonizing FEWS Innovation – STEAM Panel Discussion***

*Panel discussion moderated by Torran Anderson*

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**, PhD, University of Alberta Professor,

**Wahleah Johns**, Native Renewables

**Nonabah Lane**, Navajo Ethno Agriculture

**Emma Roberts**, Dig Deep, Navajo Water Project

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Thursday, June 18	
<b>First session</b> 10:00am - 12:00pm PDT 11:00am - 1:00pm MDT 12:00pm - 2:00pm CDT 1:00pm - 3:00pm EDT	<b><i>What is Co-Design of FEWS Innovations in Indigenous Communities?</i></b> <i>Workshop Session Facilitated by Dr. Yael Perez and InFEWS graduate fellows</i>  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 the following breakout sessions: <ul style="list-style-type: none"> <li>• <i>Health and wellbeing</i></li> <li>• <i>Language</i></li> <li>• <i>Sovereignty</i></li> <li>• <i>Education</i></li> <li>• <i>Multi-generation</i></li> <li>• <i>Ad hoc topics TBD</i></li> </ul>
Thursday, June 18	
<b>Second session</b> 1:00pm - 2:30pm PDT 2:00pm - 3:30pm MDT 3:00pm - 4:30pm CDT 4:00pm - 5:30pm EDT	<b><i>FEWS Innovation and Learning with K-12 Indigenous Students</i></b> <i>Virtual field trip and Q&amp;A moderated by Dr. Yael Perez</i> <ul style="list-style-type: none"> <li>• <b>Mark Sorenson</b>, Director and CEO of Star (Service to All Relations) Charter School hosts a virtual Field Trip</li> <li>• <b>*Zhao Qiu</b>, Self-Governance Administrator, Pinoleville Pomo Nation; The Pomo Youth College and Career Success Project Director</li> </ul> <p>Q&amp;A to follow</p>
Friday, June 19	
<b>First (only) session</b> 10:00am - 12:00pm PDT 11:00am - 1:00pm MDT 12:00pm - 2:00pm CDT 1:00pm - 3:00pm EDT	<b><i>Opportunities, Networking and Next Steps</i></b> <i>Panel discussion moderated by Dr. Alice Agogino</i>  Discussion of funding opportunities, proposal best practices and successful inter-institution collaborations. Presenters include: <div> <div> <b>Dr. John Weishampel</b>, NSF  <b>Erin Riley</b>, NIFA-USDA  <b>Michelle Baker</b>, EPA  <b>Timonie Hood</b>, EPA </div> <div> <b>Carl Etsitty</b>, USDA-APHIS Tribal Liaison  <b>*Mary Hall</b>, CDC Tribal Liaison  <b>*Ted Buelow</b>, USDA Rural Development Office </div> </div> <b><i>Final Remarks and Closing</i></b>

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Berkeley  
UNIVERSITY OF CALIFORNIA

BLUM CENTER  
FOR DEVELOPING ECONOMIES



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