

# TCU Earth System Science Collective (TESSC)

## *Agendas & Registration*

\*For any new members, please register [here](#)

- When you add your contact info in this google form, you will be added to the group contact list and will receive future calendar invites and meeting updates!
  - Note: You only need to sign up once
- 

### **April 29th, 2026**

- Welcome/Introductions
- Quick Reminders/Updates
- Guest Speaker
  - Sara Whipple - [USGS Climate Adaptation Technical Services](#) (CATS)
- Link to slides:
- Link to recording:

### **March 25th , 2026**

- Welcome/Introductions
- Quick Reminders/Updates
  - 2026 Tribal Community Webinar Series (Feb. - Sept.) - [register here](#)
  - Southwest Adaptation Forum (Nov. 4-6, Tucson, AZ) - [more info here](#)
- Discussion topic
  - 2026 TESSC relaunch
  - What would you like to see moving forward
  - AIHEC D2L TESS page - walk through
- Link to slides:  TESSC March 2026
- Link to recording: n/a

### **March 21st, 2025 Agenda:**

- Welcome/Introductions
- Quick Reminders/Updates
  - Native American Fish and Wildlife Society 2025 Annual National Conference - May 12-15
    - Restoring the Land, Reclaiming the Future
    - Wind River Hotel & Casino - Riverton, WY
    - [More info](#)

- Guest Speaker
  - Nicole Herman-Mercer - USGS SW CASC Research Social Scientist
    - Department of the Interior Handbook - Procedures for the Application and Inclusion of Indigenous Knowledge in the Actions of the Department
- Link to slides:  TESSC 3/21/25 meeting
- Link to recording: n/a

### November 13th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - USGS Climate Adaptation Scientist of Tomorrow [\(CAST\) Program](#) - TCU Student opportunity
    - Application for Summer 2025 open December 2024
    - For more information, please contact Dr. Olivia LeDee ([oledee@usgs.gov](mailto:oledee@usgs.gov))
  - Upcoming events
    - **Ag Council Annual Meeting - Dec 10-12**
      - Explore and advance developments in the agricultural field
      - Palms Casino Resort - Las Vegas, NV
      - [More info](#)
    - **Indigenous Climate Resilience Network Quarterly Meeting - Dec 17**
      - Supporting Tribal climate resilience
      - Virtual meeting
      - [More Info](#)
    - **2025 AIHEC Student Conference - March 8 -12**
      - TCU student opportunity
      - Rapid City, SD - more details coming soon
      - [More info](#)
- Guest Speaker
  - Lisa Vandever - AIHEC Native Environmental Internships Coordinator
    - NRCS Student Internships
    - For more information, please reach out to: [lvandever@aihec.org](mailto:lvandever@aihec.org)
- Link to Slides:  TESSC 11/13/24 meeting
- Link to Recording:  TESSC 11/13/24 recording.mp4

### October 25th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - USGS CAST program - TCU student opportunity

- Applications for summer 2025 open in December
- Guest Speaker
  - Dr. Marc Vankeuren
    - [NSF US Ice Drilling Program](#) and TCU faculty opportunities
    - California Tribal College
    - [marc.vankeuren@gmail.com](mailto:marc.vankeuren@gmail.com)
  - Dr. Olivia LeDee
    - USGS Midwest Climate Adaptation Science Center
    - [USGS CAST program](#)
    - [oledee@usgs.gov](mailto:oledee@usgs.gov)
- Link to Slides: 📄 TESSC 10/25/24 meeting
- Link to Recording: 🎥 TESSC 10/25/24 recording.mp4

### September 18th, 2024 Agenda:

- Welcome back!/Introductions
- Quick Reminders/Updates
  - USGS undergraduate research experience opportunity - Climate Adaptation Scientist of Tomorrow (CAST) Program
    - Applications for Summer 2025 open December 2024 ([more info](#))
- Discussion Topics
  - What topics or training would you like to see covered moving forward?
  - Are there any Tribal or federal agencies you would like to connect with?
  - Revisiting ways AIHEC can potentially support TCU course sharing
- Link to Slides: 📄 TESSC 9/18/24 meeting
- Link to Recording: meeting was not recorded since we did not have a guest speaker

### May 15th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates -will be updated soon
- Guest Speakers
  - Amy Chen & Kathy DePalma - AIHEC Open Education Program
    - Open-source STEM resources available to TCUs
    - Potential for TCU Faculty to work together to create open-source content that uplifts Indigenous perspectives
- Link to Slides: 📄 TESSC 5/15/24 meeting
- Link to Recording: 🎥 TESSC 5/15/24 recording.mp4

### May 1st, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - Multi-Agency TCU Climate Change webinar | May 7th at 12pm MT
    - Learn about available funding!
    - <https://www.zoomgov.com/j/1615833181>
    - Department of Energy
    - NASA
    - National Science Foundation
    - USDA Natural Resources Conservation Service
    - USDA NIFA
    - USDA Office of Tribal Relations
- Guest Speaker
  - United States Geological Survey (USGS) Actionable & Strategic Integrated Science & Technology (ASIST) team and Office of Tribal Relations
    - Tribal Engagement Series: Drought in the Colorado River
    - Developing a USGS Visiting Scientist Program to assist TCU STEM faculty
      - Guest lectures
      - Student lab activities/field work
- Link to slides:  TESSC 5/1/24 meeting
- Link to recording:  TESSC 5/1/24 recording.mp4

### April 17th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - [FALCON 30th Anniversary of Land Grant](#) | Oct 11-13, 2024 - Minneapolis, MN
    - Stories needed! - submit 250-word blurb on a project or success
    - Deadline to submit: April 30th
    - Send blurb/photos to [carrieschumacker@falcon1994.com](mailto:carrieschumacker@falcon1994.com)
  - [Tribal Lands & Environment Forum](#) | August 12-15, 2024 - Eugene, OR
    - Knowledge sharing space for environmental professionals - management, protection and restoration of Tribal lands
    - Great opportunity for TCU students to present a poster presentation - and scholarships are available!
    - Now accepting proposals - deadline to submit: May 17th
  - [Climate Adaptation Science Centers FY25 Project Solicitation](#) - Now Live!
    - May 23rd - Statements of Interest (SOIs) due by 5pm EDT
    - Mid-August - Full proposals will be invited for selected projects

- Oct 17th - Full proposals due by 5pm EDT
    - Tribes and TCUs can participate on a project by partnering with an eligible Principal Investigator (PI)
    - Reach out to [amckenna@aihec.org](mailto:amckenna@aihec.org) with any questions
- Discussion Topics
  - Share back from the US Indigenous Data Sovereignty & Governance Summit (April 11-12 in Tucson, AZ)
  - What topics/trainings/workshops would you like to see covered going forward with TESSC?
    - Developing USGS Visiting Scientists program
- Link to slides: 📄 TESSC 4/17/24 meeting
- Link to recording: 🎥 TESSC 4/17/24 recording.mp4

#### **April 3rd, 2024 Agenda:**

- Welcome/Introductions
- Quick Reminders/Updates
  - Native American Fish & Wildlife Annual Conference | May 13-16, 2024 - Welch, Minnesota
    - Theme: Sovereignty to Sustainability – Echoing our elders and nurturing our next seven generations
    - Register here: <https://nafws.org/product/2024-national-conference/>
    - Early bird rates through April 12th
  - National Adaptation Forum | May 14-16, 2024 - St Paul, Minnesota
    - Register here: <https://nationaladaptationforum.org/about-the-2024-forum/>
    - Early bird rates through April 8th
  - Esri User Conference | July 15-19, 2024 - San Diego, CA
    - Native Nations Summit - exploring how GIS can be used to address sovereignty and community development
    - Register here: <https://www.esri.com/en-us/about/events/uc/registration>
  - National Tribal & Indigenous Climate Conference | September 9-12, 2024 - Anchorage, AK
    - Call for proposals open! <https://sites.google.com/view/nticc2024/call-for-proposals>
- Guest Speaker
  - Dr. Michael Kotutwa Johnson - University of Arizona Indigenous Resilience Center
    - Food Sovereignty and Indigenous land stewardship

- Opportunities for TCU support/collaboration through his work with the Indigenous Resilience Center
- Link to slides:  TESSC 4/3/24 meeting
- Link to recording:  TESSC 4/3/24 recording.mp4

### March 6th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - U.S. Indigenous Data Sovereignty & Governance Summit | April 11-12, 2024 - Casino del Sol, Tucson, AZ
    - Register here: <https://usindigenousdatanetwork.org/us-indigenous-data-sovereignty-governance-summit/>
  - ESIL/NASA Hyperspectral and Thermal Remote Sensing for Environmental Justice Training | June 10-13, 2024 - University of Colorado, Boulder
    - applications are open through March 24th
    - Apply here: <https://esiil.org/hyr-sense>
  - Esri User Conference | July 15-19, 2024 - San Diego, CA
    - Native Nations Summit - exploring how GIS can be used to address sovereignty and community development
    - Register here: <https://www.esri.com/en-us/about/events/uc/registration>
- Guest Speaker
  - Dr. Cibebe Amaral - Environmental Data Science Innovation & Inclusion Lab (ESIIL) & Cooperative Institute for Research in Environmental Sciences (CIRES)
    - Data Cubes & Sovereign Enclaves in Indian Country
- Link to slides:  TESSC 3/6/24 meeting
- Link to recording:  TESSC 3/6/24 recording.mp4

### February 21st, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - ESIL/NASA Hyperspectral and Thermal Remote Sensing for Environmental Justice Training | June 10-13, 2024 - University of Colorado, Boulder
    - applications are open through March 24th
    - Apply here: <https://esiil.org/hyr-sense>
  - U.S. Indigenous Data Sovereignty & Governance Summit | April 11-12, 2024 - Casino del Sol, Tucson, AZ

- Register here:  
<https://usindigenousdatanetwork.org/us-indigenous-data-sovereignty-governance-summit/>
- Guest Speakers
  - Anne Taylor and Joseph Kerski - Environmental Systems Research Institute (Esri)
    - ESRI ArcGIS tools, trainings, & webinars
    - ESRI User Conference 2024 – Native Nations Summit, faculty and student posters, Tribal office involvement
    - ESRI Tribal GIS HUB
- Link to slides: 📄 TESSC 2/21/24 meeting
- Link to recording: 🎥 TESSC 2/21/24 recording.mp4
- Link to Esri & GIS resources (shared during meeting):  
 📁 TESSC 2/21/24 Meeting - Esri Resources

### February 7th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - Southwest Adaptation Forum - registration open until Feb. 16th
    - <https://www.swcasc.arizona.edu/initiatives/southwest-adaptation-forum>
  - Call for NYCALC Junior Faculty - applications open until Feb. 29th
    - <https://www.nycalc.org/>
  - NREL Summer Faculty Research Opportunity - applications open until Feb 15th
    - <https://orise.ornl.gov/FACES/index.html>
- Guest Speakers
  - ~~Dr. Michael Kotutwa Johnson - UA Arizona Indigenous Resilience Center (IRes)~~
    - ~~Opportunities to collaborate with (IRes)~~ [Will be rescheduled for a future meeting]
  - Dr. Cibe Amaral - CU Boulder Earth Lab
    - ESIL/NASA TCU faculty/student opportunities
  - Ayia Lindquist - NASA Goddard Space Flight Center, Climate Change Outreach and Engagement Coordinator will be joining Cibe for their presentation
- Link to slides: 📄 TESSC 2/7/24 meeting
- Link to recording: 🎥 TESSC 2/7/24 recording.mp4

### January 24th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - Southwest Adaptation Forum - registration is open!
    - <https://www.swcasc.arizona.edu/initiatives/southwest-adaptation-forum>

- Native Youth Climate Adaptation Leadership Congress - applications are open!
  - <https://www.nycalc.org/>
- SE CASC MSI Science Communication Internship - Applications are open!
  - <https://secasc.ncsu.edu/mis-hbcu-scicomm-internships/>
  - Applications due by Jan 31st
- 2024 ESIIL Innovation Summit: Big Data for Environmental Resilience and Adaptation - Applications are open!
  - <https://esiil.org/innovation-summit>
  - Application due by Jan 26th
- Discussion topic
  - Jim Sanovia - ESIIL Innovation Summit & other updates
- Link to slides: 📄 TESSC 1/24/24 meeting
- Link to recording: 🎥 TESSC 1/24/24 recording.mp4

#### January 10th, 2024 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - Southwest Adaptation Forum - registration is open!
    - <https://www.swcasc.arizona.edu/initiatives/southwest-adaptation-forum>
  - Native Youth Climate Adaptation Leadership Congress - applications are open!
    - <https://www.nycalc.org/>
  - 2024 ESIIL Innovation Summit: Big Data for Environmental Resilience and Adaptation - Applications are open!
    - <https://esiil.org/innovation-summit>
    - Application due by Jan 26th
- Guest Speakers/Discussion Topic
  - Follow up on Adjunct Faculty & Curriculum Resources discussion
  - John Phillips - Interim President/CEO of AIHEC
    - Potential collaboration with Colorado State University and University of Arizona Indigenous Resilience Center for curriculum resources/guest lecturers
  - David Ernst - Director of Open Education Network (OEN)
    - Open Textbook Library
    - Indigenous Knowledge Digital Library
- Link to Slides: 📄 TESSC 1/10/24 meeting
- Link to recording: 🎥 TESSC 1/10/24 recording.mp4

### November 29th, 2023 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - AIHEC Job Announcements (Please feel free to share widely):
    - 1994 Land Grant Program Specialist – [food-sovereignty](#)
    - 1994 Land Grant Program Specialist – [agribusiness](#)
    - 1994 Land Grant Program Specialist – [Land Management](#)
      - Funded for 4 years
  - Free online machine learning course & research opportunity
    - For anyone interested in learning more about machine learning or using it in a hands-on research project
    - Focusing on undergraduates - but all are welcome, and no background is required!
    - **Application deadline is Dec. 17th**
    - Learn more at: <https://skunkworks.engr.wisc.edu/join/>
    - Information Sessions on Dec. 4th and 5th  
<https://skunkworks.engr.wisc.edu/spring-2024-information-sessions-december-4th-and-5th/>
    - If you have any questions please to reach out to Benjamin Afflerbach (bafflerbach@wisc.edu)
- Guest Speaker/Discussion topic (**RESCHEDULED for Jan 2024**)
  - Follow up on Adjunct Faculty & Curriculum Resources discussion
  - John Phillips (Interim President/CEO of AIHEC)
    - Potential collaboration with Colorado State University for curriculum resources/guest lecturers
- Link to slides:  TESSC 11/29/23 meeting
- Link to recording:  
[https://drive.google.com/file/d/1mEO3JEMyWipRansQaCz2SfKBDWbyCRhc/view?usp=drive\\_link](https://drive.google.com/file/d/1mEO3JEMyWipRansQaCz2SfKBDWbyCRhc/view?usp=drive_link)

### November 15th, 2023 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - AIHEC Job Announcements (Please feel free to share widely):
    - 1994 Land Grant Program Specialist – [food-sovereignty](#)
    - AIHEC Tribal Ecological Restoration Specialist [plant-ecologist](#)
    - 1994 Land Grant Program Specialist – [agribusiness](#)
    - 1994 Land Grant Program Specialist – [Land Management](#)
  - USDA NIFA Tribal Colleges Research Grants Program

- <https://www.nifa.usda.gov/grants/funding-opportunities/tribal-colleges-research-grants-program>
  - AIHEC Open Education Network Grant
- Open Discussion
  - Adjunct Faculty & Curriculum Resources - Spring 2024
  - TESSC Guest speakers/Trainings/Workshops - Spring 2024
  - Winter 2024 - taking a break?/scheduling next meetings
- Link to slides: 📄 TESSC 11/15/23 meeting
- Link to recording:
   
[https://drive.google.com/file/d/1JyABfE5htYfCYhaMmrEf69kFI3JlVR1G/view?usp=drive\\_link](https://drive.google.com/file/d/1JyABfE5htYfCYhaMmrEf69kFI3JlVR1G/view?usp=drive_link)

#### November 1st, 2023 Agenda:

- Welcome/Introductions
- Quick Reminders/Updates
  - AIHEC Summer Internships - Applications open!
    - 📄 2024 AIHEC Climate Resilience Research Program.pdf
    - 📄 2024 AIHEC-NRCS Natural Resources Internship.pdf
    - 📄 2024 AIHEC-NRCS Engineering Internship.pdf
- Funding Opportunity
  - Stephanie Bostwick - Northwest Indian College, DOE Office of Indian Energy
    - TCU funding from Office of Indian Energy
    - <https://www.energy.gov/indianenergy/office-indian-energy-policy-and-programs>
- Guest Speaker: Ty Tuff - ESIL & EarthLab
  - Climate issues and tools to address them
  - Walk through of the Climate Future Toolbox resource
- Link to slides: 📄 TESSC 11/01/23 meeting
- Link to recording:
   
[https://drive.google.com/file/d/16aMf53zuzseLWknLhsL29lwvmwwaVbrr/view?usp=drive\\_link](https://drive.google.com/file/d/16aMf53zuzseLWknLhsL29lwvmwwaVbrr/view?usp=drive_link)

#### October 18th, 2023 Agenda:

- Welcome/Introductions
- Quick Reminders
  - BIA Pathways Internship Program - Student opportunity, now accepting applications
    - <https://www.bia.gov/service/pathways>

- American Indian College Fund - Funding opportunities for TCU faculty
  - <https://collegefund.org/research/faculty-development-applications/doctoral-dissertation-fellowships/>
  - <https://collegefund.org/research/faculty-development-applications/masters-degree-fellowships/>
- Funding Opportunity
  - Stephanie Bostwick - Northwest Indian College, DOE Office of Indian Energy
    - TCU funding from Office of Indian Energy
- Guest Speaker: Joseph Yracheta - Native BioData Consortium
  - <https://nativebio.org/>
  - Topics
    - Biology & Indigenous-led genomics
    - Data science, LiDAR data, Data cubes for Tribal governments, data infrastructure
    - Tribal engagement, Indigenous data sovereignty, data governance, law & policy
- Questions?
- Link to slides:  TESSC 10/18/23 meeting
- Link to recordings:
   
[https://drive.google.com/file/d/1iZDAguBKZTbbmMZxl-sAnwcOguugsmZd/view?usp=drive\\_link](https://drive.google.com/file/d/1iZDAguBKZTbbmMZxl-sAnwcOguugsmZd/view?usp=drive_link)

#### October 4th, 2023 Agenda:

- Welcome/introductions
- Updates
  - BIA Pathways Internship Program - Student opportunity, now accepting applications
    - <https://www.bia.gov/service/pathways>
  - American Indian College Fund - Funding opportunities for TCU faculty
    - <https://collegefund.org/research/faculty-development-applications/doctoral-dissertation-fellowships/>
    - <https://collegefund.org/research/faculty-development-applications/masters-degree-fellowships/>
- Guest Speaker: Nathan Quarderer - Environmental Data Science Innovation & Inclusion Lab (ESIIL)
  - ESIIL Stars program overview
    - <https://esiil.org/esiil-stars>
  - Jupyter Notebook demonstration

- San Carlos Apache Nation
  - Navajo Nation
- Questions?
- Link to slides:  TCU Earth System Science Collective - 10/04/23
- Link to recording:  
<https://drive.google.com/file/d/1INX71nW9hHt2iDYw-dmyd2ImdMslCJzJ/view?usp=sharing>