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A science podcast by the American Chemical Society about things small in size but BIG in impact.



Sam Jones, PhD Science Writer & Exec Producer



Deboki Chakravarti, PhD Science Writer & Co-Host

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Career Consultant Directory





- ACS Member-exclusive program that allows you to arrange a one-on-one appointment with a certified ACS Career Consultant.
- Consultants provide personalized career advice to ACS Members.
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www.acs.org/careerconsulting



ACS Scholar Adunoluwa Obisesan

BS, Massachusetts Institute of Technology, June 2021 (Chemical-biological Engineering, Computer Science & Molecular Biology)

"The ACS Scholars Program provided me with monetary support as well as a valuable network of peers and mentors who have transformed my life and will help me in my future endeavors. The program enabled me to achieve more than I could have ever dreamed! Thank you so much!"

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Get in touch with the Office of Diversity, Equity, Inclusion & Respect

The Office of Diversity, Equity, Inclusion & Respect (DEIR) is the central hub at the American Chemical Society that coordinates, supports, and guides all efforts by staff, members, and governance toward Strategic Goal 5, "Embrace and Advance Inclusion in Chemistry." The Office of DEIR at ACS is committed to empowering everyone, irrespective of lived experience and intersectionality of identities, to fully participate in the chemistry enterprise. The Office of DEIR welcomes comments, suggestions, and questions around issues of diversity, equity, inclusion, and respect from members at any time. Please do not hesitate to reach out to the Office through this form.

Please do not hesitate to reach out to the Office of DEIR at diversity@acs.org

https://fs7.formsite.com/acsdiversity/ACSMemberFeedback/index.html



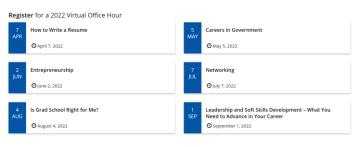
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https://www.acs.org/content/acs/en/careers/personal-career-consulting.html



 $\underline{\text{https://www.acs.org/content/acs/en/careers/developing-growing-in-your-career.html}}$



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Thurs., May 12, 2022 | 2:00pm-3:00pm ET

Careers in Chemical Safety for Chemists

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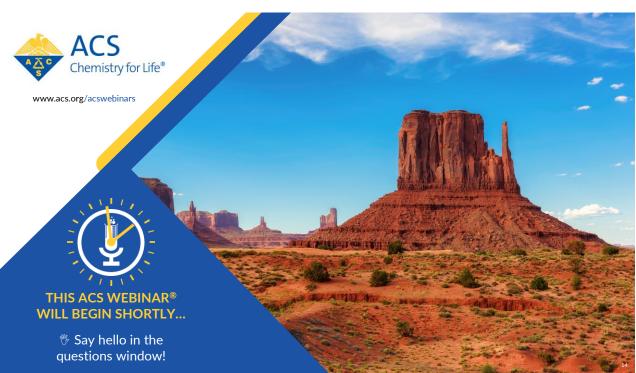
Starting a Company: The Role of Technology Transfer

Co-produced with the ACS Division of Small Chemical Business and the ACS Division of Business and Management

Register for Free

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- The AAAS Science and Human Rights Coalition is a network of organizations and individuals who work together to advance universal human rights through science and technology.
- Since 2009 the Coalition has been reaching across disciplines and building partnerships with the human rights community to show how science and technology can improve human rights for everyone.
- Today the Coalition actively works to promote education, outreach, and service by the STEM community in the name of human rights.

Areas of Coalition Activity



- Protecting the welfare of scientists at home and abroad
- Developing tools for the science and technology communities
- · Outreach to the human rights community
- Creating educational resources
- Advancing the right to benefit from science
- Addressing intersections of ethics and human rights
- Scientific, engineering and health associations and individuals in these fields are welcome to join us

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Webinars to Date



2021 Webinars – Scientific Collaborations with Human Rights Organizations and Issues

- May 4: Community Science Local Knowledge and Scientific Tools Joining Forces to Document Urban Health Hazards.
- October 27: Documenting Sexual Violence: Furthering Reporting and Prosecution.
- December 7: Evolving Perspectives on Anthropology and Human Rights.

2020 Webinar – Scientific Collaborations with Human Rights Organizations and Issues

 Nov. 19: Equity Flattens the Curve: The Importance of Diverse Populations in Combating COVID-19.

www.aaas.org/coalition/projects/sciencecollabs

Webinars to Date



- 2019 Webinars Scientific Collaborations with Human Rights Organizations
- March 7: Data in Service to Humanitarian Relief Abroad.
- May 21: Skills to Succeed: Approaches to Blending Science and Human Rights.
- July 17: The "Science Factor" in Human Rights Litigation: Engineering a Legal Solution for a Threatened Historic Mexican Town.
- Oct. 17: Measuring Change in Social Norms within Gender-Transformative Programing.
- 2018 Webinars Innovations in Human Rights Program Evaluation
 - April 17: Outcome Harvesting to Assess Efforts to Reduce Child, Early and Forced Marriages in India.
- May 15: Humanitarian Responses to Restore the Well-being of Refugees in Ecuador.
- June 20: Measuring Shifts in Power in Favor of Women.

www.aaas.org/coalition/projects/sciencecollabs

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Webinars to Date



- 2017 Webinars Evaluation 101 for Human Rights Organizations: How do we know if we are making a difference?
- April 20: Insights into how change comes about and how to measure it.
- May 20: Designing Evaluation Studies.
- Nov. 2: Participatory Methods to Answer Different Evaluation Questions.
- Dec. 7: Scientific Partnerships for Human Rights Program Evaluations.
- All these webinars are archived at Scientific Collaborations with Human Rights Organizations within the AAAS Coalition website.
 - www.aaas.org/coalition/projects/sciencecollabs

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Audience Survey Question ANSWER THE QUESTION ON THE INTERACTIVE SCREEN IN ONE MOMENT

How familiar are you with climate change strategic plans and practices by indigenous peoples?

- I am completely unaware and would like to learn more
- I am somewhat familiar and have read about some of these tribal plans and practices
- I am familiar with the tribes as well as some of these plans and practices
- I would consider myself an expert and perform these plans and practices with tribes

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NIKKI COOLEY, DINÉ

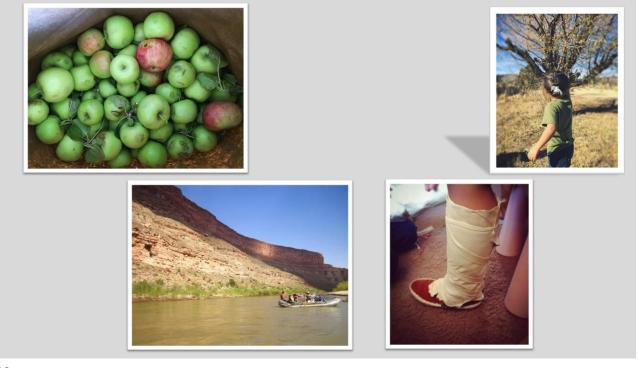
- Kinyaa'aanii Diné'é > Towering House People
- Lók'aa' Diné'é > Reed People
- Tó ahéedliinii Diné'é > Water that Flows Together People
- Tl'izí łaní Diné'é > Manygoats People
- · BS & MS in Forestry & Traditional Knowledges
- · Sheepherder, gardener, parent, daughter, protector, recovering river guide

^{*} If your answer differs greatly from the choices above tell us in the chat!











What do we do?

TRAININGS

- CC101: Adapation Planning
- CC202: Advanced Adaptation
 - · Planning Tribal Haz. Mitig. Planning

RESEARCH & WORKING GROUPS

- · Assoication of Fish & Wildlife Agencies
- · EPA National Advisory Committee
- Southwest Fire Climate Adaptation Partnership
- · National Climate Assessment

CC ADVISORY GROUP

Tribal Federal Academic

TECHNICAL ASSISTANCE

Conferences/Summits/Forums

· Webinars, Newsletters, Tribal Profiles

National Tribal & Indigenous Climate Conference

- · Individual requests from Tribes, Media, etc.
- · Tribal CC Adap. Toolkit
- · Funding Announcements
- Adaptation Plans

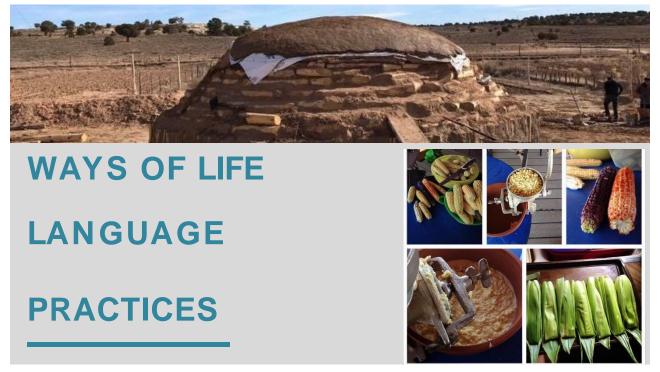
OUTREACH

(NTICC)

INDIVIDUAL WORK

- · Conference planning Arctic Rivers Project
- Swinomish Indian Tribal Community, Health Modules













Tó eí ííná Water is Life

Nahásdzáán Nihimà Mother Earth Yádiłhił nihi táá Father Sky

Naadlooshii nihi k'ei Animals = Relatives



Tribal Adaptation Plans & Assessments



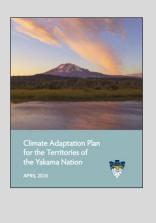


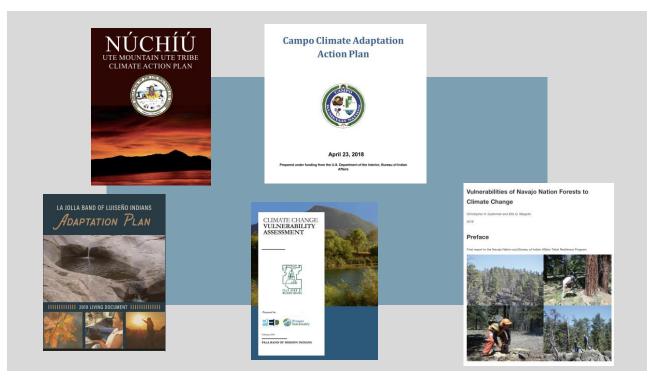


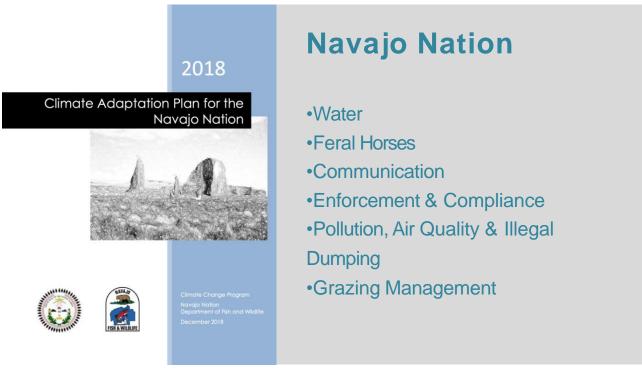






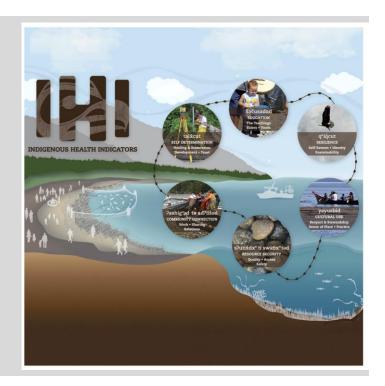






Swinomish Tribe

- 2007: passed resolution to create a climate initiative
- Indigenizing BRACE (building resilience against climate effects)
- E-learning module to educate people on health impacts
- 13 Moons First Foods and Resources curriculum



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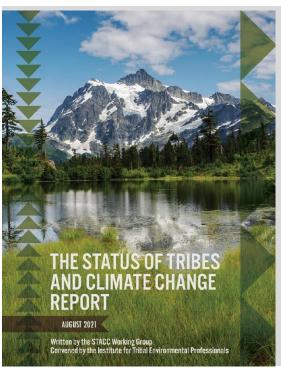
Aroostook Band of Micmacs - Maine





- Tribal Fish Hatchery
- Tribal Greenhouse & Gardens
- Food sovereignty
- Youth Engagement

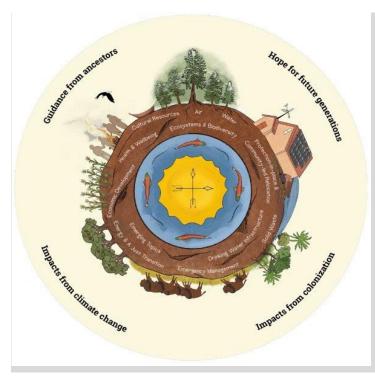




2 Sections12 Chapters

- 90 Authors
- 34 Narratives
- Specific To Indigenous
 Nations
- www.Nau.Edu/Stacc2021

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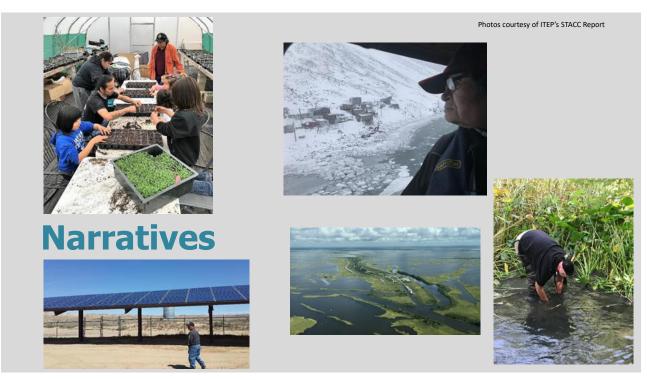


- Depict worldview of Tribal Nations/Indigenous communities
- Interconnectedness
 - chapter titles
- Significant species, symbols, regional considerations
- Outside, historical influences
- Leads: Coral Avery & Molly Tankersley

Report Audience, Steering Committee, & Authors

- Audience: NCA authors, federal and state agencies and decision makers, NGOs, and Tribal managers/leaders/community members
- Steering Committee: over 25 members
- Authors: over 90, including 34 personal narrative authors

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Southeast Alaska Tribes Face Climate Change w/ Partnership

→ Kari Lanphie



- → Aquatic toxins
- → Harmful Algae Blooms (HABs)
- → Impacting subsistence foods

- □ Toxins testing on shellfish
- □ Plankton collection
- Outreach
 - Social media
 - □ Listserv
 - Newsletters
- Southeast Alaska Tribal Ocean Research (SEATOR)



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Water Eastern Shawnee of Oklahoma *Debbie Dotson

"Eastern Shawnee of Oklahoma's Climate Change & Water Quality Challenges" (page 98)

- → Water quality
- → Temperature changes
- → Severe drought, recording flooding
- → Severe tornado events
- → Record decrease in water levels
- □ Blue algae & ground water well testing, monitoring
- Bacterial sampling events
- Staff training, community outreach, info. material

Drinking Water Infrastructure

Chickasaw Nation & Choctaw Nation of Oklahoma

★ April Taylor

"Chickasaw Nation and Choctaw Nation of Oklahoma Leading the Way in Implementing Water Adaptation Projects" (1939e 142)

- → Unpredictable precipitation events
 - Flooding, erosion, pollutants in runoff
- → Increasing temperatures
- → Water scarcity

- Water adaptation strategies
- Multi-jurisdictional partnerships
 Identify alternative
 groundwater supplies
- Drought contingency plans

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Ecosystem & Biodiversity

Power to the People: Fire as Land Management

→ Elizabeth Azuz from the Yurok Tribe, Cultural Fire Management Council





Elizabeth Azzuz of the Cultural Fire Management Council opens a fire-training exchange, or TREX, on Yurok lands in 2019. She holds angelica root and wormwood, which are used to light a first, ceremonial fire.

Key Messages & Recommendations

Respect and uphold Tribal sovereignty & self-determination.

Tribal sovereignty and self-determination help to counteract historical trauma, disproportionate climate change impacts, and vulnerability, and are strong themes in the Recommendations across all chapters. The remedial dynamic of recognizing and respecting the pre-existing right of self-determination of Tribes should be acknowledged.

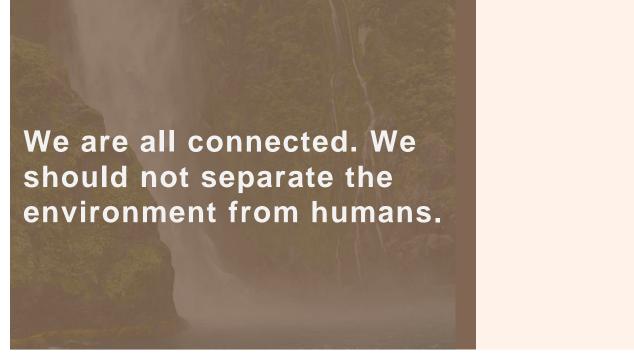
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Key Messages & Recommendations

Integrate holistic responses in line with Tribal values.

Tribal worldviews, experiences, and responses embody interconnectedness. Cascading impacts from, and holistic and interconnected responses to, climate change are addressed throughout the STACC Report.





CONTACT

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http://www7.nau.edu/itep/main/tcc/



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ACS Government Affairs



Public Policy Legislative Advocacy Federal Affairs Member Engagement

"The American Chemical Society (ACS) acknowledges that climate change is real, presents serious risk for civil society and business, and that human activity is the primary cause."

-- ACS Global Climate Change Position Statement

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2020 ACS Chemistry Advocacy Workshop



- Free workshop released in 2020 Available now!
- On-demand, go at your own pace
- Learn about the intersection of science and policy in the Federal Government, how to advocate for issues you care about, and ACS' role in advocacy efforts.



www.acs.org/chemistryadvocacy

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2022 ACS Climate Change Advocacy Workshop



- Climate change is a complex and increasingly devastating problem that impacts everyone and everything on Earth.
- Scientists & engineers are uniquely situated to communicate the science of climate change and advocate for solutions.
- This workshop explores the science behind climate change, describes ways to talk about climate change with different audiences and provides actionable options for advocacy on climate change solutions.



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Brief Outline



- · The science of climate change
- Societal and environmental impacts
- Climate change mitigation and adaptation strategies & technologies
- Resilient voices of climate change
- · ACS' climate change policy statement
- U.S. government and climate change; Global efforts
- Climate change communication strategies
- Advocacy alerts



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ACS Climate Change Advocacy Workshop



- Launching this Summer 2022
- Sign up for Act4Chemistry alerts and join us to know when the course launches
- Follow @Act4Chemistry on twitter!



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