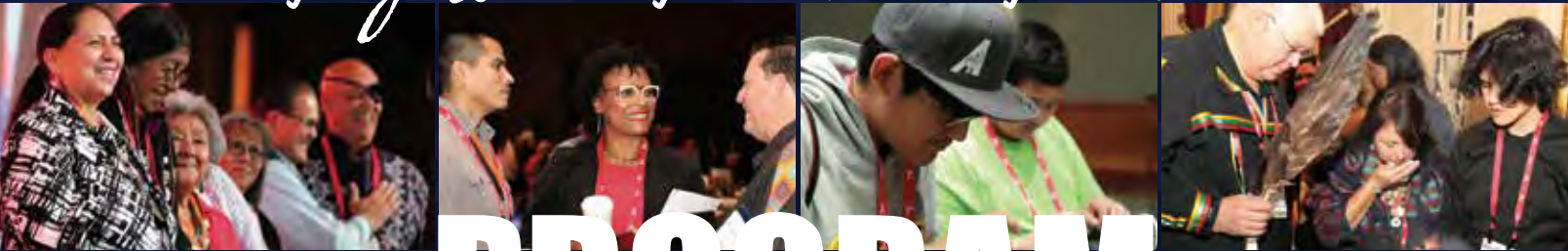


AISES



Phoenix Arizona
September 23 - 25 2021

Together Towards Tomorrow



PROGRAM

Phoenix Convention Center

<https://conference.aises.org/> #AISESNC21



Together Towards Tomorrow

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Ojibwe*)

Rose Darden (*Ute*)

Steve Darden (*Navajo/Cheyenne/Swedish*)

Norbert Hill, Jr. (*Oneida*)

Phil Lane, Jr. (*Yankton Dakota/Chickasaw*)

Cecelia Lucero (*Acoma Pueblo*)

Artley M. Skenandore (*Oneida*)

Faith Spotted Eagle (*Ihanktonwan Band of
the Dakota/Nakota/Lakota Nation of South
Dakota*)

AISES Council of Elders Emerita

Dr. Henrietta Mann (*Southern Cheyenne*)

Council of Elders in Memoriam

Andrea Axtell (*Nez Perce*)

Horace Axtell (*Nez Perce*)

Eddie Box, Sr. (*Southern Ute*)

Franklin Kahn (*Navajo*)

Mary Kahn (*Navajo*)

Bow Lane (*Chickasaw*)

Phil Lane, Sr. (*Yankton Sioux*)

Stanley Lucero (*Laguna Pueblo*)

Dr. James May (*United Keetoowah Band of
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Dr. Lee Piper (*Cherokee*)

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Jaime Pinkham (*Nez Perce*)
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Jerry C. Elliott-High Eagle (*Cherokee/Osage*)
Carol Metcalf Gardipe (*Penobscot/Passamaquoddy*)
George Thomas (*Cherokee*)
Alex Labadie (*Osage*)
Jimmy C. Shorty (*Navajo*)

AISES Student Representatives

Senior U.S. National Representative

Adrian Riives, (*Sault Ste. Marie Tribe of Chippewa Indians*)
Rensselaer Polytechnic Institute

Junior U.S. National Representative

McKalee Steen (*Cherokee Nation*)
UC Berkeley

Senior Canadian National Representative

Celeste Groux (*Bigstone Cree Nation*)
McGill University

Junior Canadian National Representative

Mindy Dallard (*Algonquins of Ontario*)
Queen's University

Regional Student Representatives:

Region 1

Emily Maxwell (*Choctaw Nation of Oklahoma*)
University of Alaska Anchorage

Region 2

Desirae Barragan (*Gabrieleño Band of Mission Indians - Kizh Nation*)
UCLA

Region 3

Alexis Jishie (*Navajo*)
Arizona State University

Region 4

Emma Tilley (*Cherokee*)
Dallas Baptist University

Region 5

Kimberlee Blevins (*Three Affiliated Tribes/Mandan Hidatsa Arikara*)
Sitting Bull College

Region 6

Avery Tilley (*Cherokee Nation*)
Michigan State University

Region 7

Sidney Fire (*Caddo*)
University of Florida



2021 AISES National Conference

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in memoriam



John Emhoolah, Jr. (*Kiowa Tribe*)

John Emhoolah graduated from Colorado State University with a Bachelor of Education degree. He was a Korean War veteran who served in the U.S. Army 45th Thunderbird Division, 158th Field Artillery from 1950-52. John held several civic positions in the Seattle area with organizations such as the United Tribes Foundation, Seattle Indian Health Board, Northwest Inter-tribal Club, and the University of Washington. He settled in Denver after accepting a position with the American Indian Higher Education Consortium. John led the Denver Indian community for many years and was a strong advocate for American Indian education. He shared his cultural heritage and knowledge with others as the co-founder of the Denver March Powwow. John passed away on April 21, 2021, surrounded by his loving family at his home in Thornton, Colorado.

Stanley Lucero (*Laguna Pueblo*)

AISES Council of Elder Stan Lucero served for over 14 years as an integral Council member, with his partner Cecelia. They have shared their creativity, vision, and cultural values with AISES. Through their wonderful beauty, friendship, and teachings, they have strengthened generations of AISES students and professionals in STEM. This includes their enthusiasm and laughter with everyone at AISES gatherings. They were LGBTQ2S+ advocates and facilitated the annual Rainbow Talking Circle. Stan is known for calling his AISES family, "Beautiful Nerds." He passed away peacefully at his home on April 5, 2020, in New Mexico.

Cheryl McClellan (*Sac and Fox Nation*)

Cheryl McClellan was the 2018 recipient of the American Indian Science and Engineering Society Ely S. Parker Award. The highest AISES honor, the Ely S. Parker Award recognizes outstanding Indigenous scientists and engineers in North America. McClellan worked at The Boeing Company as a supplier quality specialist. She played a role in the country's defense in educating Boeing parts suppliers on quality requirements of military aircraft and maintaining contractual requirements to support presidential aircraft. She graduated from the University of Oklahoma with a Bachelor of Science degree in engineering.

Seeing her father set the example of leadership in tribal government, Cheryl took on similar leadership positions in her tribe. From 2007 to 2013, she was elected Second Chief of the Sac and Fox Nation, and was also the tribe's Liaison to Housing Authority, representing the economic welfare of over 3,800 members. McClellan passed away on January 6, 2021, in her home state of Oklahoma.

Alan Moomaw (*Confederated Tribes of the Umatilla Indian reservation*)

Alan worked as a Tribal Coordinator with the U.S. Environmental Protection Agency (EPA) Region 10 in Lacey, Wash. Alan received a Bachelor of Science degree in forest management and a minor in Native American studies from the Washington State University. He attended graduate school at the University of Wisconsin-Madison in the Institute for Environmental Studies/Land Resources Program. Alan became involved with AISES as a student. At the AISES conference in Dallas, he met an EPA recruiter at the college and career fair. He eventually got a position with the EPA Region 10 in the Washington Operations Office, working with tribal governments. Alan was a Sequoyah Fellow who participated in the professional AISES chapter in the Puget Sound, Washington, and who often mentored up and coming tribal members. Alan passed away peacefully on December 31, 2020, at his home in Olympia, Wash.

Jimmy C. Shorty (*Navajo Nation*)

Jimmy "Jim" Curtis Shorty was one of the original co-founders of AISES and a former member of the Board of Directors. Jim dedicated his life, and his legal and engineering career, to his people, the Navajo Nation. For six years, Jim directed the Native American Program in the College of Engineering (NAPCOE) at the University of New Mexico, Albuquerque. NAPCOE is likely the first university-level program in the United States for Native students (*some 30 at the time*). NAPCOE had a role in the early genesis of AISES, before there was any discussion about the formation of an organization for Native people in STEM. While employed at Sandia National Laboratories, he worked as an educator and supervised various minority outreach efforts from 1983 to 2007 before retiring. Jim peacefully passed away April 17, 2021, surrounded by his family.

Safe Camp and Code of Conduct

All conference participants are expected to adhere to the AISES standards of conduct. We invite all those who participate in the 2021 AISES National Conference to help us create safe and positive experiences for everyone.

SAFE CAMP

The AISES National Conference is a “Safe Camp,” meaning this is a welcoming, inclusive, supportive, and safe environment for all our AISES family members regardless of race, color, sex, religion, sexual orientation, or gender expression/identity. Safe Camp includes recognizing the AISES Code of Conduct and anyone found violating the code will be asked to leave the conference immediately. Please contact any AISES staff member or board member if you have any questions.

CODE OF CONDUCT

The American Indian Science and Engineering Society (AISES) was established with the goal of developing Native professionals and leaders in the areas of science, technology, engineering and math. In light of this goal, the first student leaders of AISES developed a set of principles that prohibits alcohol, illegal drugs, and harassment. These principals have become core values of the organization and are incorporated as the Code of Conduct.

The AISES Code of Conduct promotes professional development and personal growth by strictly prohibiting the use of intoxicating drugs or alcohol and all forms of harassment and discrimination. This code is meant to reflect the ideals of our Native communities by establishing an expectation that we agree to protect and promote the well-being and growth of all people. This code is expected to be honored when individuals are representing the AISES organization and by all persons participating in AISES activities. To this end, each person is asked to adhere to this code and promote its intent by refraining from prohibited activities and encouraging others to do the same.

AISES will continue to maintain the Code of Conduct as a symbol reflective of the teachings and values of our ancestors. The Code of Conduct represents the ideas and visions set forth by the AISES founders and the student leadership. AISES values and respects the rights and privileges of others and asks that you honor the AISES organization, its mission, and the family of AISES by adhering to this Code of Conduct.

Volunteers

AISES would like to express its gratitude for the all the hard work from our community partners and local professional chapter for their volunteer services!

Nancy Papineau, President, Dualos, LLC
AISES Conference Volunteer Coordinator

AISES Phoenix Professional Chapter
Closing Banquet Centerpieces
Conference Bag Stuffing
Traditional Indigenous Menu

Anthony Kahn, Senior Engineering, Arizona Public Service Company
Powwow Organizer

Conference Donations

AISES thanks the following for their generous donations that funded prizes, gifts and supported the 2021 National Conference health and safety policy and protocols.

Nancy Papineau
Tacoma, Washington

Qwalsius Studios
Shaun Peterson
Milton, Washington

TrueDiversity
Social Distancing Wristbands





STATE OF ARIZONA
OFFICE OF THE GOVERNOR

DOUGLAS A. DUCEY
GOVERNOR

EXECUTIVE OFFICE

July 2021

Greetings:

On behalf of the State of Arizona, it is a privilege to welcome you to the Grand Canyon State for the 2021 American Indian Science and Engineering Society (AISES) National Conference at the Phoenix Convention Center.

This year's conference is a brilliant opportunity to support a meaningful organization that promotes science, technology, engineering, and math (STEM) education, STEM research and STEM jobs. I hope this event provides you the opportunity to learn and grow as you listen to speakers, participate in sessions and interact with representatives from across the United States and Canada. Coming together to discuss STEM fields and career paths for Indigenous peoples in North America and the Pacific Islands is critical to meeting the worldwide demand of STEM jobs.

We are thrilled that Phoenix is the destination for the 2021 AISES National Conference. Our state is home to 22 federally recognized tribal governments - each representing diverse cultures and distinct histories. We value the investment and job development that Tribal enterprises bring to our state. Diversity in our state is one of our greatest strengths which is why we recognize, celebrate, and support greater understanding and enhanced cooperation with Tribal Nations and their community members.

Science and technology are critical to the global economy. Students will find that Arizona has exceptional STEM and related technology offerings in our higher education institutions, corporate and federal government centers. We continue to invest and spur job development focused on key sector opportunities such as aerospace and defense, technology and innovation, bioscience and healthcare, manufacturing, film and digital media, and business and financial services. There is something for everyone in Arizona!

Thank you, AISES, for all you do for Native Youth and American Indian professionals. We congratulate you on 44 successful years of supporting and engaging Indigenous people in the STEM fields. Again, welcome to Arizona, and to the 2021 AISES National Conference! I commend all who had a hand in organizing the conference and I send my best wishes for a successful conference.

Sincerely,

A handwritten signature in black ink that reads "Douglas A. Ducey".

Douglas A. Ducey
Governor
State of Arizona



August 10, 2021

Dear Indigenous STEM Professionals, Students and Tribal Officials,

As the President of the Inter Tribal Council of Arizona, it is my honor to welcome you to the beautiful State of Arizona for the 2021 AISES National Conference!

The Inter Tribal Council of Arizona, Inc. (ITCA), is an intertribal consortium comprised of 21 tribal nations located in Arizona. The mission of ITCA is "to provide Member Tribes with the means for action on matters that affect them collectively and individually, to promote tribal sovereignty, and to strengthen tribal governments."

As tribal leaders, we see our greatest strength in our ability to come together and unify when facing challenges. This has always been the way of our people and we honor our ancestors when we continue to stand together during good times and in times of need. I see this same understanding reflected in the 2021 AISES National Conference theme which is, "Together Towards Tomorrow."

The 2021 AISES National Conference is the premier gathering of Indigenous professionals and students with aspirations to work within the Science, Engineering, Technology, and Math (STEM) fields. With the events that have taken place over the past 1 1/2 years, we have all seen how the sciences are crucial to our ability to stay healthy and prosper as Indigenous People.

Our Tribal Nations are on the front lines of addressing public health emergencies and natural disasters, which are occurring at an ever increasing rate. Please value the time you have at the conference with your colleagues as you pursue STEM-related as well as other career and educational opportunities.

The friends that you make at this year's conference will become your future career colleagues. We are proud of your achievements and we look forward to your continued success.

On behalf of the 21 Member Tribes of the Inter Tribal Council of Arizona, stay safe and enjoy your time in Arizona during the 2021 AISES National Conference!

Sincerely,

Bernadine Burnette
President, Inter Tribal Council of Arizona

- Ak-Chin Indian Community
- Cocopah Indian Tribe
- Colorado River Indian Tribes
- Fort McDowell Yavapai Nation
- Fort Mojave Indian Tribe
- Gila River Indian Community
- Havasupai Tribe
- Hopi Tribe
- Hualapai Tribe
- Kaibab Band of Paiute Indians
- Pascua Yaqui Tribe
- Pueblo of Zuni
- Quechan Tribe
- Salt River Pima-Maricopa Indian Community
- San Carlos Apache Tribe
- San Juan Southern Paiute Tribe
- Tohono O'odham Nation
- Tonto Apache Tribe
- White Mountain Apache Tribe
- Yavapai-Apache Nation
- Yavapai-Prescott Indian Tribe



City of Phoenix
Office of Mayor Kate Gallego

September 2021

Greetings and welcome to the American Indian Science and Engineering Society (AISES) for the 2021 AISES National Conference!

The conference brings together students and professionals from across the U.S. and Canada, as well as corporations, educators, tribal leaders, and nonprofits to discuss STEM (science, technology, engineering, and math).

STEM is integral in the growth, prosperity, and future of Indigenous education, workforce, and tribal economic development. You will find that greater Phoenix has impressive STEM jobs and is #10 for STEM job growth in America as reported by the *Phoenix Business Journal* in 2020. Cities, communities, and tribes benefit from having STEM workers and industries due to high skills required for jobs, higher wages, and lower rates of unemployment.

We thank AISES for its dedication to scholarship, leadership, and service as you prepare for a busy event ahead. The conference will truly embody *Together Towards Tomorrow* with breakout sessions along with many other events. I hope conference participants and their guests will make lasting memories and friendships during their time in Phoenix.

Phoenicians are delighted that you have chosen our city to host your conference this year. While you are here, I invite you to enjoy all that our city has to offer from its great shopping, eateries, world class museums and golf courses. On behalf of the residents of Phoenix, I wish you a successful event.

Sincerely,

Kate Gallego
Mayor of Phoenix



New Mexico Office

6321 Riverside Plaza Ln., NW, Unit A • Albuquerque, NM 87120
Phone: 505.765.1052 Fax: 505.765.5608

Colorado Office

6899 Winchester Cir, Ste 102A • Boulder, CO 80301
Phone: 720.552.6123 • Fax: 720.526.6940

Dear Friends,

Greetings to you from the state capital of Arizona – Phoenix – the site of the 2021 AISES National Conference. If this is your first visit to Arizona, we hope you will enjoy the Grand Canyon State, known for its saguaro cacti, desert climate, and the endless things to do in the country's fifth largest city. If this is your first AISES conference, "welcome."

Arizona is home to 22 Indigenous tribes. Before we go on to share some highlights about this year's National Conference, we respectfully acknowledge that we are gathering on the traditional territories of the O'odham, Akimel O'odham, and Hohokam. It is in this beautiful place of earth, air, sun, and water, that we respectfully acknowledge the ancient ones and express our gratitude to all who live here today.

Our conference theme is *Together Towards Tomorrow*. This theme is poignant as we gather over the next three days to listen and learn from presenters who have come from the four directions to share their knowledge, experiences, and expertise in over 100 planned activities and events. Here is a brief overview:

- **Wednesday, September 22 (Pre-conference):** STEM Day is free and open to everyone! Although most of the events are geared toward K–12, you might be surprised to learn something new. Take advantage of this opportunity to network with others, pick up your conference registration, review the program, visit the merchandise booth, familiarize yourself with the Phoenix Convention Center, and plan the sessions you want to attend.
- **Thursday, September 23:** Starting at 8:30 a.m., the Opening Ceremony features keynote speaker Jana Schmieding from *Rutherford Falls*, a Peacock Original comedy series, who will describe her trajectory from struggling artist to co-lead. Following the keynote you can stay busy with sessions, meetings, and tours. Thursday ends with a Graduate Student Mixer, Networking Suites, and the popular AISES Hackathon.
- **Friday, September 24:** Rise early for the Morning Blessing with our wonderful AISES elders. Other activities include a Professionals Keynote Breakfast, Poster Research Presentations, and the College and Career Fair ribbon-cutting ceremony, followed by a full day of sessions and caucuses. If you're energized, make your way to the student social event with DJ Element starting at 8:00 p.m.
- **Saturday, September 25:** Check-in for the Sequoyah Breakfast begins at 6:30 a.m. Yoga begins at 7:00 a.m. The morning is filled with a variety of sessions. Find a seat at the Student Awards Luncheon at 11:45 a.m. Afternoon sessions will culminate with the Closing Talking Circle, Closing Banquet, and the Powwow.

Throughout the conference we ask that you take personal responsibility for your health and safety and protect the health and safety of others around you, but also **have fun!** AISES staff and volunteers will be around to welcome and help you, including at the conference registration desk. Connect with us whenever you have questions!

Thank you for joining us in Phoenix. We look forward to seeing you!

Sincerely,



Gary Burnette
AISES Board Chair



Sarah EchoHawk
AISES CEO



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Intel is working with others to create a smart energy grid to bring renewable power to all. Be part of the change.

Join us. [Intel.com/careers](https://www.intel.com/careers)

Keynote Speaker

Jana Schmieding

Jana Schmieding is known for her breakout role as “Reagan,” opposite Ed Helms on Peacock’s groundbreaking comedy series, RUTHERFORD FALLS. The Lakota Native comedian, writer, and fat-positive content creator is also a writer on the series. She has been featured in various publications including, New York Magazine’s Vulture, NPR, Paste, Bustle, Bon Appétit and Vanity Fair, where she describes her trajectory from struggling artist to her co-lead role on the series. Jana performed improv, sketch and solo comedy in New York City for ten years before moving to Los Angeles. She directed over 30 sketch and solo shows and collaborated in several different indie writers rooms. Jana is a vocal advocate of Indigenous visibility and social justice and she discusses these issues regularly in her comedy and writing.



Master of Ceremonies

Lillian Sparks Robinson

Lillian Sparks Robinson is the CEO and Owner of Wopila Consulting, LLC, an American Indian and woman owned small business that provides a wide range of specialized consulting and strategic development services to federal, state, and tribal government clients.

A member of the Rosebud Sioux Tribe, Lillian has worked in Washington, D.C. for nearly 20 years, devoting her career to supporting the educational pursuits of Native American students, protecting the rights of indigenous people, and empowering tribal communities. In 2010, Lillian was appointed by President Obama, and confirmed by the U.S. Senate, to serve as the Commissioner for the Administration for Native Americans. In this role, she worked on programs and policy impacting Native languages and education, social development, and economic development for American Indian, Alaska Native, and Native Hawaiian and Pacific Islander communities. Prior to her service at ANA, Lillian served as the Executive Director of the National Indian Education Association (NIEA), where she worked extensively on education policy and appropriations impacting American Indian, Alaska Native, and Native Hawaiian students. A former staff attorney at the National Congress of American Indians, Lillian has received numerous awards and recognition, including being named as one of seven young Native American Leaders by USA Today Magazine, one of “40 Under 40” from the National Center for American Indian Enterprise Development, and American Indian Woman of the Year.

A graduate of Morgan State University and Georgetown University Law Center, Lillian resides in Baltimore, Maryland with her husband, Corey and son, Connor.



Entertainment

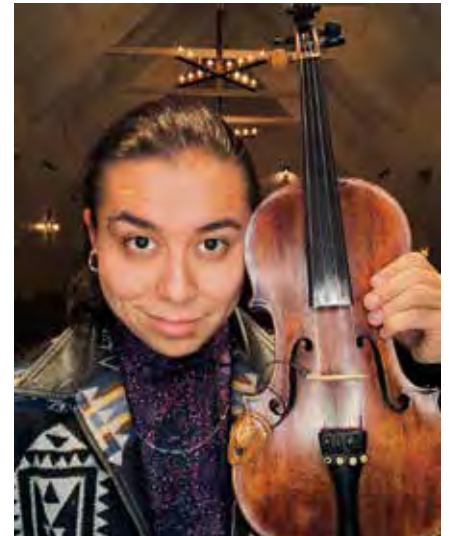
Sage Cornelius

Sage Cornelius is a young musician from Topeka, Kansas, who effortlessly puts a unique mean spin on the traditional violin as well as his seven-string electric violin. Sage first started playing music at eight years of age upon hearing “The Devil Went Down to Georgia” by Charlie Daniels and hasn’t stopped since.

Sage has been seen busking on the streets, playing in symphonic orchestras, shredding in metal bands, accompanying mariachi bands, playing alongside hip hop artists as well as completing multiple U.S. and European tours with national recording soul singer Shawn James and most recently collaborating with world renowned internet YouTube vlogger, Jared Dines.

Sage’s catalogue of music embodies multiple genres ranging from classic rock ballads, cinematic movie themes, EDM anthems, acoustic jams, hip hop tributes and heavy metal head-banging originals. He hopes that his musical performances will have something for everyone of all ages that attends his show.

Sage has also spent time as a private music teacher and has done various workshops with Native youth over the years around concepts of entrepreneurship and marketing as an independent artist. On his artist page, he states, “With the right tools provided, we have overwhelmingly large amounts of potential.” Sage wishes to empower and be an inspiration to all that hears and sees his performances. Get ready to rock!



2021 National Conference Sponsors

A heartfelt thank you to this year's Sponsors. We encourage the AISES National Conference participants to thank your sponsors when the opportunity presents itself. We appreciate their interest in AISES' vision and are grateful for their friendship and support. Their ongoing commitment to North American Indigenous STEM students and professionals is inspiring and crucial to the success of our event each year.

TURQUOISE



CORAL



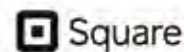
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3M

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Conference Logistics Note: All Times Listed in Mountain Standard Time (Local Phoenix, AZ time).

AISES National Conference Wi-Fi

Sponsored by Cisco

Network: **AISES** Password: **aises2021**

AISES National Conference App

Sponsored by Cisco

The AISES National Conference App will allow you to get up-to-date notifications, connect with other attendees, post messages, plan your visit to the college and career fair and more! The app is available on Android and Apple devices.

To download the app visit: www.aises.org/app

To login you will need:

Username: **Email Used to Register**

Event Code: **Xv94sc**

AISES Council of Elders Lounge

Sponsored by The Boeing Company

Stop by Room 121A to seek wisdom, strength, love, or personal guidance from our Elders.

Fri., Sept. 24 from 9:30 a.m. - 12:00 p.m. or 3:30 p.m. - 5:30 p.m.

Sat., Sept. 25 from 1:00 p.m. - 2:30 p.m.

AISES Merchandise

AISES gear gets scooped up fast! Make sure to stop by the AISES Merchandise Booth located near the conference registration desk in the Ballroom lobby area to purchase AISES-themed items. You may also order items at the [AISES online store](#)

Wed., Sept. 22 from 9:00 a.m. - 6:00 p.m.

Thurs. & Fri., Sept. 23 & 24 from 7:00 a.m. - 5:00 p.m.

Sat., Sept. 25 from 10:00 a.m. - 4:00 p.m.

AISES Photographer and Videographer

We enjoy capturing the “faces of AISES” throughout the National Conference. Therefore, an official professional photographer and videographer will be on-site during major conference ceremonies, meetings, and sessions. Images and video will be used for AISES promotional purposes only.

AISES Resume Room

The Resume room is available for students to fine tune their resumes for upload to the AISES Career Hub and to distribute at the National Conference College and Career Fair. Room 121B will be equipped with computers and printers and staffed by experts from sponsor organizations to help you polish your resume.

Thurs., Sept. 23 from 11:00 a.m. - 6:00 p.m.

Fri., Sept. 24 from 7:30 a.m. - 5:00 p.m.

Closing Ceremony

The Closing Ceremony will feature fun and lively entertainment and pay tribute to the AISES Professional of the Year and Service Award recipients.

Sat., Sept. 25 from 6:00 p.m. - 8:30 p.m.

College and Career Fair

AISES hosts the largest College and Career Fair in Indian Country. The Fair attracts professionals and college recruiters from over 150 corporations, government agencies, and colleges and universities. This mix encourages mentoring and sharing that is unparalleled at any other event. Check out the exhibit hall for more information like the *Winds of Change Magazine*, AISES scholarships, internships and program opportunities, and prizes.

Interact with exhibitors on Fri., Sept. 24 between the hours of 9:00 a.m. - 4:00 p.m.

Additional opportunity for in-person and virtual conference attendees to interact with exhibitors on Fri., Oct. 15 between the hours of 9:00 a.m. - 4:00 p.m. (MDT - Colorado Time)

Conference Name Badges

Your name badge allows you access to all conference functions, including Saturday night's Closing Banquet. Please always wear your badge. If you lose your badge, please go to the conference registration desk for a replacement.

Feedback and Prizes

Your feedback and observations are important to us as we continue to design programs and events to best serve our members and friends. Please take our 2021 National Conference post-conference survey, available on the conference mobile app. Also, fill out the evaluations at the end of each session to participate in drawings for great prizes which will be announced through the mobile app!

Industry Partner/University Site Tours

All attendees who have registered for tours will meet in front of the North Building off 3rd Street to begin the tours. The front entrance of the North Building is located near the Phoenix Convention Center food court. All tours will depart promptly at 1:30 p.m. Be early!

Native Artisan Marketplace

Artisan booths will be located in the North Building of the Phoenix Convention Center near the conference registration desk in the Ballroom lobby area. Get a jumpstart on your holiday shopping or just indulge yourself with a treat from the AISES Marketplace where Native artisans have wonderful items available for purchase.

Thurs., Sept. 23 from 12:00 p.m. – 5:00 p.m.

Fri., Sept. 24 from 10:00 a.m. – 6:00 p.m.

Sat., Sept. 25 from 10:00 a.m. – 5:30 p.m.

On-Site Registration and Information

Registration will take place in the Ballroom lobby area in the North Building of the Phoenix Convention Center. Stop by to pick up your conference badge or connect with event staff or volunteers with questions.

Safe Camp

The AISES National Conference is a “Safe Camp,” meaning this is a welcoming, inclusive, supportive, and safe environment for all our AISES family members regardless of race, color, sex, religion, sexual orientation, or gender expression/identity. Safe Camp includes recognizing the AISES Code of Conduct and anyone found violating the code will be removed from the conference. Please see the resource center for a copy of the [AISES Code of Conduct](#).

Sessions Tracks

Although all sessions fall within a specific track, track designations are only a suggestion! We encourage you to read through the program, especially the session descriptions, and attend ANY session suited to your interests. There are many sessions to choose from, so plan carefully, be strategic, and most importantly engage with your fellow conference attendees and presenters.

Student Research Presentation Competition

Pre-College, Undergraduate, and Graduate students will showcase their STEM research at oral and poster presentation sessions during the AISES National Conference on **Friday, Sept. 24**. We encourage all conference participants to show their support by attending the oral presentations (see the agenda for scheduled times) and poster presentations located on the College and Career Fair floor.

Oral Presentations

Presentations will take place on **Fri., Sept. 24 between the hours of 9:30 a.m. - 5:00 p.m.**

Poster Presentations.

Presenters are expected to mount their posters on **Friday, Sept. 24, between the hours of 8:00 a.m. and 9:00 a.m.** in the back area of the College and Career Fair floor in the Exhibit Hall 5 of the North Building Phoenix Convention Center. Presenters must be present at their poster during the entire presentation time, **9:00 a.m. - 12:00 p.m. on Fri., Sept. 24**. All posters are to be removed by the presenters on **Fri., Sept. 24, between the hours of 5:00 p.m. - 8:30 p.m.**

Technical

(Virtual Attendees On-line essentials)

Decide on a device. You will be able to attend the conference via any device – tablet, laptop, desktop, or even a mobile phone. While a laptop or desktop is optimal, participants can use any device with an Internet connection.

Update your Internet browser. To avoid access issues or slow load times, make sure you have the most updated version of your browser. If you need help, there are useful online resources like whatismybrowser.com. The conference platform is most compatible with the Google Chrome Browser.

Check your bandwidth. For a good virtual conference experience, ensure you have enough bandwidth. Generally, an Internet connection between five and 10 megabytes per second (Mbps) should be enough. If you Google “test speed,” you’ll get links to sites such as [Speedtest](#) and [Measurement Lab](#) that will measure your device’s bandwidth.

Don’t forget your Internet basics. If a session or web page won’t load, you can refresh the page. Remember to hit the refresh button. It might seem obvious, but sometimes people get frustrated waiting around rather than refreshing the page. Not sure how to do this? Get some [help online](#).

Help Desk

If you require technical assistance while in the conference platform or with the AISES mobile app, please go to the [help desk](#).

Conference Floor Plan



- Colleges and Universities
- Exhibitors Booths
- Interview Booths
- Reserved for Sponsors
- Poster Presentations

2021 Exhibitors and Sponsors

BOLD = Sponsor In-Person Booth= IP Virtual Booth = V Sponsor Only = S



3M	V	●		Congressional App Challenge	IP V	●	732
Accenture	V	●		Cornell University - College of Engineering	IP V	■	218
Alyeska Pipeline Service Company	IP V		532	Cornell University	V	■	
Amazon	IP V	●	600	Corning Incorporated	IP		832
American Chemical Society	IP V	●	521	Crazy Horse Memorial	IP V		118
America's Navy	IP V	●	800	Cronkite School	IP V		212
AMERIND	S			Dartmouth-Guarini School of Graduate and Advanced Studies	V	■	
Ames Laboratory	V			Defense Intelligence Agency	IP V		731
Apple	V			Deloitte	V		
Arizona Department of Transportation (ADOT)	IP		737	Department of the Air Force	IP V	●	309
Arizona Indians into Medicine	IP V		121	Des Moines University	IP V		101
Arizona State University	IP V	■	209	DOE/Legacy Management	V		
Army Corps of Engineers	IP V	●	700	DoorDash	V		
Association of American Indian Physicians	V			Dow, Inc.	V		
Association of American Medical Colleges (AAMC)	V			Emory University, Laney Graduate School	IP		230
AT&T	V	●		ExxonMobil	S	●	
Ball Corporation	IP V		421	F5 Networks, Inc.	IP		536
Baylor College of Medicine	IP V		133	Facebook	V	●	
Be An Actuary	IP V		736	Federal Aviation Administration	IP V		838
Berkeley Lab	V			Federal Reserve Bank of Dallas	V		
BetMGM	IP V		802	Food and Drug Administration	V		
Blue Origin	V			Fred Hutchinson Cancer Research Center	V		
BNSF Railway	V	●		Freeport-McMoRan	IP V		632
The Boeing Company	IP V	●	409	GEICO	IP V		527
Bonneville Power Administration	V	●		General Atomics	IP V		525
Booz Allen Hamilton	IP V		432	General Motors	IP V	●	400
Bureau of Ocean Energy Management (BOEM)	S	●		Georgia Tech Research Institute	IP V		327
Burroughs Wellcome Fund	S			Geoscience Convergence Zone	IP V		824
Carnegie Mellon University Software Engineering Institute	IP V		526	Google	V		
Carollo Engineers, Inc.	V			Harvard John A. Paulson School of Engineering & Applied Sciences	IP V		114
Centers for Disease Control and Prevention (CDC)	V			Harvard University Native American Program	IP V		214
Central Intelligence Agency	IP V	●	524	Hesperus	IP		839
Cherokee Federal	IP V		807	Honeywell FM&T	IP V		425
Chevron	V	●		Humboldt State University	IP V	■	109
Cisco	IP V		533	IBM	IP V	●	500
Cleveland Clinic Lerner College of Medicine	V			Idaho National Laboratory	V		
Columbia University in the City of New York	V	■		ILLUMINATIVE: Indigenous Futures Survey	IP V		339
Columbia University Mailman School of Public Health	IP V		236	Indigenous Education, Inc.	IP V		730
Columbia Vagelos College of Physicians & Surgeons	V			INMED (Indians Into Medicine)	IP		137
Comcast NBCUniversal	V						

Together Towards Tomorrow

Intel Corporation	V	●		NSF/Division of Industrial Innovation and Partnerships	V	●	
International Education Corporation	IP		225	NSF EPSCoR CPU2AL	IP		110
Jack Kent Cooke Foundation	V			NTU-NMT Navajo Nation Water Purification Project (N4WPP)	IP V		231
Johns Hopkins Applied Physics Laboratory	V			Nueta Hidatsa Sahnish College	IP V	■	232
Johns Hopkins Bloomberg School of Public Health	IP V		336	NV5	IP V		419
Johnson Scholarship Foundation	V			NYU Tandon School of Engineering	IP V		332
Keck Graduate Institute	IP V		219	Oracle	V	●	
Keysight Technologies	V			Oregon State University College of Pharmacy	IP V	■	113
Koniag Government Services	IP V		618	Oregon State University Ecampus	IP	■	239
Lawrence Livermore National Laboratory	V	●		Otis Elevator Company	V		
Leidos	IP V		727	Pacific Northwest National Laboratory	V		
Los Alamos National Laboratory	IP V		637	Pala Band of Mission Indians	S		
Maricopa County Democratic Party Voter Registration Committee	IP V		837	Pechanga Band of Luiseño Indians	S		
Mayo Clinic	IP V	●	701	Penn State University College of Engineering	IP V	■	127
Medtronic	V			Pinterest	V		
Merck	IP V	●	515	Procter & Gamble	IP		818
Michigan State University-The Graduate School	IP V	■	221	Raytheon Technologies	V	●	
Microsoft	V	●		Resolution Copper	IP		733
MIT Office of Graduate Education	V			Riley Engineering	IP		831
Montana State Chemistry REU: Next Generation Materials and Catalysts	IP V	■	338	Saint Vincent College	IP		116
NASA	V	●		Salesforce	V	●	
NASA First Nations Launch	IP V		809	San Carlos Apache Healthcare Corporation	IP		725
NASA Jet Propulsion Laboratory	V			Sandia National Laboratories	IP V	●	427
National Academies of Sciences, Engineering, Medicine	IP V		801	Sealaska	IP V		626
National Geospatial-Intelligence Agency	V			Sirius Computer Solutions, Inc.	V		
National Institute of Standards and Technology	IP		633	Soboba Band of Luiseno Indians	S		
National Math and Science Initiative	S			Society of Women Engineers	IP		631
National Science Foundation	V	●		Sonoran Pueblo Contracting, LLC	IP		833
National Security Agency	IP V	●	609	Southern California Tribal Chairmen's Association	S		
Native BioData Consortium	IP V		438	Splunk	IP V		433
Natives in Tech	IP V		333	Square Cash App	V		
Nava PBC	IP V		721	Stantec	IP V	●	439
NAVAJO TECHNICAL UNIVERSITY "It Begins From Within"	IP	■	233	Summer Health Professions Education Program	V		
Navajo Transitional Energy Company	IP	●	715	SUNY University at Buffalo, School of Engineering and Applied Sciences	IP V		112
Naval Nuclear Laboratory	IP V		803	Texas Department of Transportation	IP		719
New Mexico Tech	IP V	■	107	The INGAA Foundation	IP		703
NextEra Energy, Inc.	IP V	●	819	The Ohio State University, College of Engineering	V		
NIH/NINDS	IP		738	The Partnership for Native American Cancer Prevention (NACP) Research Education Core & University of Arizona College of Veterinary Medicine	IP V		120
Nike	V	●		The STEAM Connection	IP		803
Nordstrom	IP V		415	Tufts University Graduate Programs in Arts, Sciences & Engineering	IP V		330
Northeastern University Khoury College of Computer Sciences	IP V		115	U.S. Department of Energy	V	●	
Northrop Grumman	V	●		U.S. Department of State	IP V		718
Northwestern University - The Graduate School	IP V		214	U.S. Fish and Wildlife Service	V		
Northwestern University Master of Science in Law Program	IP V		226				

Together Towards Tomorrow

U.S. Geological Survey	IP V		639	University of Montana-College of Health	IP V	■	200
U.S. Nuclear Regulatory Commission	IP V	●	436	University of Pittsburgh Graduate School of Public Health	V		
U.S. Secret Service	V			University of Rochester	V		
UAB School of Health Professions	IP V		103	University of Wisconsin Law School	IP		237
UC Davis School of Medicine	V			University of Wisconsin-Madison - Astronomy	IP V	■	326
UC San Diego, Graduate Division	IP	■	202	University of Wisconsin-Madison College of Engineering Graduate Engineering Research Scholars Program	IP V	■	318
UCLA Center for Excellence in Engineering and Diversity	IP		108	UNM Engineering	IP	■	224
UCLA Health	IP V		813	US Intelligence Community	IP V	●	412
Union Pacific	IP V		620	USDA Natural Resources Conservation Service	IP V	●	627
United State Military Academy	IP	■	320	UT Southwestern Medical Center: PhD and MSTP Programs	IP		238
United States Space Force	IP V		820	VentureWell	IP V		827
UNITY - United National Indian Tribal Youth, Inc.	IP V		815	Vet Up! Program at Purdue College of Veterinary Medicine	V		
University at Albany, SUNY	V			Virginia Maryland College of Veterinary Medicine	V		
University of Alabama at Birmingham	IP		208	Virginia Tech - College of Engineering	V		
University of Arizona Cancer Center & Haury Program	IP		122	Walmart	V		
University of Arizona College of Engineering	IP	■	125	Wells Fargo	V	●	
University of Arizona Graduate College	IP V	■	324	WSP USA	V		
University of Colorado Denver Anschutz Medical Campus	V	■		Williams	S		
University of Idaho College of Graduate Studies	IP V	■	206	Winds of Change/AISES	IP V		531
University of Idaho College of Graduate Studies	IP V	■	227	Zoom	V		
University of Kansas	IP V	■					
University of Michigan Future Public Health Leaders Program	V	■					
University of Minnesota, College of Science and Engineering	IP	■	220				

Conference Agenda Highlights

Wednesday

- hackAISES (Pre-College students)
- Registration/Check-in Opens
- STEM Activity Day

Thursday

- Academic Advisory Council (AAC) Meeting
- Canadian Indigenous Advisory Council (CIAC) Meeting
- Corporate Advisory Council (CAC) Meeting
- Gemstone Reception
- Government Relations Council (GRC) Meeting
- Graduate Student Mixer
- Hackathon (College students)
- Industry Partner/University Tours
- Native Artisan Marketplace
- Networking Suites
- Opening Ceremony

- Professional Chapters Council (PCC) Meeting
- Resume Room
- Sessions for All Tracks
- State of AISES by Chief Executive Officer
- Student Orientation
- Student Study Lounge
- Talking Circle
- Tribal Nations Advisory Council (TNAC) Meeting
- Veterans Gathering

Friday

- College and Career Fair
- Exhibitor Feedback Session
- Morning Blessing Ceremony
- Native Artisan Marketplace
- Professional Members Keynote Breakfast
- Professional Members Mixer
- Resume Room

- Sessions for Selected Tracks
- Student Caucuses
- Student Poster and Oral Research
- Presentations and Competition
- Student Social Event
- Student Study Lounge
- Wellness Activity

Saturday

- Closing Banquet
- Closing Talking Circle
- Native Artisan Marketplace
- Professional Members Meeting
- Sequoyah Fellows Breakfast
- Sessions for All Tracks
- Student Awards Luncheon
- Student Study Lounge
- Traditional Native Powwow
- Wellness Activity

AGENDA

Together Towards Tomorrow



All Times Listed in Mountain Standard Time (Local Phoenix, AZ time).

Full descriptions of the sessions/events begin on page 40 of this program or at the online agenda <https://conference.aises.org/agenda>.

All sessions/events are located in the North Building, Phoenix Convention Center unless noted. The main entrance to the convention center is off 3rd Street.

Start End	Session/Event name	Location	Session Tracks
Wednesday, September 22, 2021			
9:00 am 6:00 pm	AISES Merchandise Booth	Ballroom Lobby	Professional, College, High School
9:00 am 6:00 pm	Conference Registration	Ballroom Lobby	Professional, College, High School
12:00 pm 4:00 pm	STEM Activity Day sponsored by The Boeing Company (Registration Required)	Ballroom 120 A	Educator, STEM Activity Day, High School
12:00 pm 6:00 pm	hackAISES: Mini-Hackathon sponsored by Wells Fargo Bank (Registration Required)	223	Educator, High School
Thursday, September 23, 2021			
7:00 am 5:00 pm	AISES Merchandise Booth	Ballroom Lobby	Professional, College, High School
7:00 am 5:00 pm	Conference Registration	Ballroom Lobby	Professional, College, High School



AGENDA

Start End	Session/Event name	Location	Session Tracks
7:00 am 9:00 pm	Student Study Lounge	121 C	College, High School
8:30 am 10:45 am	Opening Ceremony	Ballroom 120 DCB	Professional, College, High School, Streamed Event
11:00 am 11:30 am	State of AISES	Ballroom 120 DCB	Professional, College, Streamed Event
11:00 am 11:50 am	Creating Water Sustainability in a time of Uncertainty	228 A	Professional, College, General, High School
11:00 am 11:50 am	Indigenous Venture Capital: A New Model	227 C	STEM & Business
11:00 am 11:50 am	Tribal Cultural Revitalization in Computer Science: Connecting Traditional Knowledges with Core Computing Concepts	226 B	Computer Science
11:00 am 11:50 am	Walking in Two Worlds as a Native STEM Federal Government Employee	226 A	Professional
11:00 am 12:50 pm	The Good Road of Life	225 B	Educator
11:00 am 1:00 pm	Humanly, Making the Interview Process more Equitable	225 A	College
11:00 am 6:00 pm	Resume Room	121 B	Professional, College
11:45 am 12:30 pm	Student Orientation sponsored by The Boeing Company	Ballroom 120 DCB	College, High School, Streamed Event
12:00 pm 1:15 pm	Academic Advisory Council (AAC) Meeting	227 B	Professional
12:00 pm 1:15 pm	Canadian Indigenous Advisory Council (CIAC) Meeting	227 A	Professional
12:00 pm 1:15 pm	Government Relations Council (GRC) Meeting	226 C	Professional
12:00 pm 5:00 pm	Native Artisan Marketplace	Ballroom Lobby	Professional, College, High School
1:00 pm 2:00 pm	Linguistics and the Importance to National Security	Ballroom 120 DCB	College, Educator, General, High School, Streamed Event
1:30 pm 2:45 pm	Corporate Advisory Council (CAC) Meeting	226 C	Professional



AGENDA

Start End	Session/Event name	Location	Session Tracks
1:30 pm 2:45 pm	Professional Chapter Council (PCC) Meeting	227 B	Professional
1:30 pm 2:45 pm	Tribal Nations Advisory Council (TNAC) Meeting	227 A	Professional
1:30 pm 5:30 pm	ASU Downtown Phoenix Campus Tour	Meet in front of North Building off 3rd Street.	College, High School
1:30 pm 5:30 pm	ASU Tempe Campus Tour	Meet in front of North Building off 3rd Street.	College, High School
1:30 pm 5:30 pm	Boeing Apache Tour	Meet in front of North Building off 3rd Street.	Professional, College
1:30 pm 5:30 pm	General Motors Innovation and Office Tour	Meet in front of North Building off 3rd Street.	Professional, College, High School
2:00 pm 2:50 pm	Department of the Air Force - Space Force Guardians and Air Force Airmen Stories of Success	227 C	College, Educator, General, High School
2:00 pm 2:50 pm	Explore Moon to Mars: We are the Artemis Generation	225 A	High School
2:00 pm 2:50 pm	Grow Your Career and Feed the World with the Natural Resources Conservation Service	225 B	Agricultural Sciences
2:00 pm 2:50 pm	Indigenous STEM Representation: Why it's of increasing importance in the era of AI	226 B	STEM & Business
2:00 pm 2:50 pm	Play for Work: Exploring a Career in the Games and Esports Industries	226 A	College
2:00 pm 2:50 pm	Showcase of Computer Science Opportunities at the Department of Energy and Its National Laboratories	228 A	Computer Science
2:30 pm 3:30 pm	Interviewing Tips and Tricks and Basic Resume Advice	Ballroom 120 DCB	College, Streamed Event
3:00 pm 3:50 pm	Amazon Inside the Smile - Imposter Syndrome	228 A	Professional, College, General, High School
3:00 pm 3:50 pm	Emerging Industries, Entrepreneurship and The Gig Economy	226 B	STEM & Business
3:00 pm 3:50 pm	Journey From AISES Student to Intelligence Officer with the Federal Government	227 C	Computer Science
3:00 pm 3:50 pm	The Future is NOW!!	226 A	College



AGENDA

Start End	Session/Event name	Location	Session Tracks
3:00 pm 4:00 pm	Education Committee Meeting	227 B	Professional, Educator
3:00 pm 4:00 pm	Professional Development Committee Meeting	226 C	Professional
3:00 pm 4:30 pm	Together Towards Tomorrow Talking Circle (All Welcome)	221 ABC	Professional, College, General, High School
4:00 pm 4:50 pm	Combating COVID-19: Tribal Health Research Office (THRO) at the National Institutes of Health	225 B	Professional, College, General, High School, Health Sciences and Medical
4:00 pm 4:50 pm	Empowering Tribal Education	227 C	Professional
4:00 pm 4:50 pm	Opportunities in the New Energy Economy- The AISES-Avant Native Energy Fellowship	228 B	
4:00 pm 4:50 pm	Things to know about the Security Clearance Process	225 A	Professional, College, General, High School
4:00 pm 4:50 pm	What Does a Small Animal Veterinarian Do?	226 A	High School
5:00 pm 6:00 pm	Veterans' Gathering	226 B	Professional, College
5:00 pm 7:00 pm	Networking Suites	124 - 129	Professional, College, General, High School
6:00 pm 7:00 pm	Judges Orientation for Research Presentations	226 C	Professional, College
6:30 pm 11:00 pm	Hackathon: Sponsored by Chevron (Registration Required)	223	College
7:30 pm 9:00 pm	Gemstone Reception (Sponsors & Invitation Only)	Ballroom 120 DCB	
7:30 pm 9:00 pm	Graduate Student Mixer sponsored by SIGP	229 A	College
Friday, September 24, 2021			
7:00 am 8:00 am	Morning Blessing Ceremony with the AISES Elders	Sheraton Phoenix Hotel - Valley Overlook	Professional, College, General, High School



AGENDA

Start End	Session/Event name	Location	Session Tracks
7:00 am 9:00 am	Yoga with Dawn Manuelito	Sheraton Phoenix Hotel - Valley of the Sun A	Professional, College, Educator, General, High School
7:00 am 5:00 pm	AISES Merchandise Booth	Ballroom Lobby	Professional, College, High School
7:00 am 5:00 pm	Conference Registration	Ballroom Lobby	Professional, College, High School
7:00 am 9:00 pm	Student Study Lounge	121 C	College, High School
7:30 am 9:00 am	Professionals Keynote Breakfast sponsored by 3M (Registration Required)	Ballroom 120 DCB	Professional, Streamed Event
7:30 am 5:00 pm	Resume Room	121 B	Professional, College
8:00 am 9:00 am	Poster Research Presentations Setup	Exhibit Hall 5	Professional, College, High School
9:00 am 9:15 am	College and Career Fair Ribbon Cutting Ceremony	Exhibit Hall 5	Professional, College, Educator, General, High School
9:00 am 12:00 pm	Poster Research Presentations	Exhibit Hall 5	Professional, College, High School
9:00 am 4:00 pm	College and Career Fair	Exhibit Hall 5	Professional, College, Educator, General, High School
9:30 am 10:20 am	Introduction to Space & Launch at Boeing	227 A	Professional
9:30 am 11:30 am	Alliance of Indigenous Math Circle Advisory Board Meeting	227 B	
10:00 am 11:00 am	Coffee Break Sponsored by National Math + Science Initiative	Exhibit Hall 5 PreFunction	Professional, College, Educator, General, High School
10:00 am 6:00 pm	Native Artisan Marketplace	Ballroom Lobby	Professional, College, High School
10:30 am 11:20 am	Honoring Our Ancestors Knowledge: Using Invention to Create Change	Room 228 B	High School
10:30 am 12:30 pm	Chapter Advisors Meeting	227 A	Educator



AGENDA

Start End	Session/Event name	Location	Session Tracks
11:00 am 12:00 pm	Allyship and Leading in the New Normal	Ballroom 120 DCB	Professional, Streamed Event
12:00 pm 1:15 pm	College and Career Fair Lunch	Exhibit Hall 5	Professional, College, Educator, General, High School
1:00 pm 1:50 pm	AISES College and Career Readiness Guidebook	227 B	Educator
1:00 pm 1:50 pm	Supporting the Gila River Indian Community with a Modern Commitment to Irrigation	227 A	Agricultural Sciences
1:00 pm 4:00 pm	Teaching Heritage To Artificial Intelligence Through Storytelling	228 B	Professional, College, General, High School
2:00 pm 2:50 pm	BetMGM Presents: Online Sports Betting and Industry Opportunity	227 A	STEM & Business
2:00 pm 2:50 pm	Honoring Our Ancestor's Knowledge	227 B	Professional, College, General, High School
2:30 pm 3:30 pm	Defending Our Nation	Ballroom 120 DCB	High School, Streamed Event
3:00 pm 3:50 pm	Resources! Recruitment! Retention!	227 A	College
3:00 pm 3:50 pm	Traditional Indigenous Technology	227 B	Educator
4:00 pm 4:50 pm	Native STEM Professional Tackle COVID-19 Pandemic	227 B	Health Sciences and Medical
4:00 pm 5:00 pm	Exhibitor Feedback Session	227 A	
4:00 pm 5:00 pm	Mental Health and Wellbeing: Setting Boundaries and the Power of saying NO	Ballroom 120 DCB	Professional, Streamed Event
5:00 pm 6:00 pm	Pre-College Student Caucus	226 C	High School
5:00 pm 6:30 pm	College Student Region 1 Caucus	228 A	College
5:00 pm 6:30 pm	College Student Region 2 Caucus	226 B	College
5:00 pm 6:30 pm	College Student Region 3 Caucus	227 B	College



AGENDA

Start End	Session/Event name	Location	Session Tracks
5:00 pm 6:30 pm	College Student Region 4 Caucus	225 A	College
5:00 pm 6:30 pm	College Student Region 5 Caucus	226 A	College
5:00 pm 6:30 pm	College Student Region 6 Caucus	227 C	College
5:00 pm 6:30 pm	College Student Region 7 Caucus	225 B	College
6:30 pm 8:30 pm	Professional Members Mixer sponsored by The Boeing Company and US Department of State (Ticket purchase required)	Sheraton Phoenix Hotel - Valley of the Sun Ballroom	Professional, College
8:00 pm 10:30 pm	Student Social Event - DJ and Dance	Ballroom 120 DCB	College, High School
Saturday, September 25, 2021			
6:30 am 7:00 am	Sequoyah Fellows Breakfast Check-In	Ballroom Lobby	
7:00 am 8:00 am	Yoga with Dawn Manuellito	Sheraton Phoenix Hotel - Valley of the Sun A	Professional, College, Educator, General, High School
7:00 am 9:15 am	Sequoyah Fellows Breakfast (RSVP required)	Ballroom 120 DCB	
7:00 am 12:00 pm	Conference Registration	Ballroom Lobby	Professional, College, High School
7:00 am 3:00 pm	Student Study Lounge	121 C	College, High School
9:30 am 10:20 am	Balance: Studying, Leading, Achieving, and You	226 A	College
9:30 am 10:20 am	The Wireless Potential of Native Nations: Notes from the First Tribal Wireless Bootcamp	228 B	STEM & Business, Computer Science
9:30 am 11:20 am	Empowering Student Science Learning: Strategies For Incorporating Traditional Knowledge Into Science Teaching	226 C	Educator
9:30 am 11:20 am	Computer Science/Engineering Design Process	227 A	High School



AGENDA

Start End	Session/Event name	Location	Session Tracks
10:00 am 4:00 pm	AISES Merchandise Booth	Ballroom Lobby	Professional, College, High School
10:00 am 5:30 pm	Native Artisan Marketplace	Ballroom Lobby	Professional, College, High School
10:30 am 11:20 am	Decolonizing & Indigenizing Philanthropy and STEM, A Visualization Session. What is Philanthropy's Role in STEM?	228 B	STEM & Business
10:30 am 11:20 am	Native Financial Cents Train-The-Trainer Workshop	227 A	Educator
10:30 am 11:20 am	Supporting Indigenous Students in Research (MS/ HS focus) through NAISEF and Energy Challenge	226 B	High School
10:30 am 11:30 am	Pre-College Advisors Meeting	226 A	Educator
11:45 am 1:15 pm	Student Awards Luncheon sponsored by Jack Kent Cooke Foundation, National Security Agency and US Air Force (Registration Required)	Ballroom 120 DCB	College, High School, Streamed Event
1:30 pm 2:20 pm	Canadian Members Meeting	227 A	Professional, College
1:30 pm 2:20 pm	Let's BUILD Indian Country!	228 B	STEM & Business
1:30 pm 2:20 pm	Protecting By Preserving: Future Health & Traditional Foodways	226 A	High School
1:30 pm 2:20 pm	Together Towards Tomorrow – Indigenous Futures Survey Examines Perceptions, Opinions and Priorities Across Indian Country	227 B	General
1:30 pm 2:20 pm	US National College Student Caucus	229 AB	College
1:30 pm 2:20 pm	Wawatay Program	226 B	Educator
1:30 pm 3:20 pm	People, Process, and Product: Is Software Engineering right for me?	226 C	Computer Science
2:30 pm 3:20 pm	AISES Member Meeting	227 A	Professional, College
2:30 pm 3:20 pm	Data Sovereignty for Native Communities	226 B	Professional
2:30 pm 3:20 pm	Human Factors Engineering: Designing systems and technologies that work for people	227 B	College

AGENDA

Start End	Session/Event name	Location	Session Tracks
2:30 pm 3:20 pm	Middle School to Medical School: The challenges and benefits of cohesive, collaborative programming across the educational spectrum, and supporting students pursuing Allied Health Careers	226 A	Health Sciences and Medical
2:30 pm 3:20 pm	Nurturing Communities, A Focus on Skill-Based Employment in a Gig Economy	228 B	College
3:00 pm 5:00 pm	Closing Talking Circle (All Welcome)	Ballroom 120 A	Professional, College
6:00 pm 8:30 pm	Closing Banquet	Ballroom 120 DCB	Professional, College, General, High School, Streamed Event
9:00 pm 11:59 pm	Traditional Native Social Powwow	Exhibit Hall 5	Professional, College, Educator, General, High School

AISES

Temecula, California

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RESEARCH AGENDA

All Times Listed in Mountain Standard Time (Local Phoenix, AZ time).

Full descriptions of research presentations can be found at the online agenda <https://conference.aises.org/agenda>.

All sessions/events are located in the North Building, Phoenix Convention Center unless noted. The main entrance to the convention center is off 3rd Street.

Friday, September 24, 2021

Start	End	Research Oral Presentation	Location	Session Tracks
9:30 am	9:50 am	Crimson Bloom: A Biological Integration of Seed Types and How They Could Be Used as Data Collectors	225 B	Research: Engineering
9:30 am	9:50 am	Indigenous and Prescribed Fire Potential for Management of Goldspotted Oak Borer	226 B	Research: Biology
9:30 am	9:50 am	Selecting microbial communities for disease suppression in tomato	226 A	Research: Physical Science
9:30 am	9:50 am	The Perceived Effects of a Sensory Garden on Individuals on the Autism Spectrum	227 C	Research: Psychology
10:00 am	10:20 am	AP-1 Regulates Integrin 3 Induction by Sustained MAPK Pathway Activation	226 B	Research: Biology
10:00 am	10:20 am	The Dynamic Mind in the Cave: A Bias in Memory for Paleolithic Paintings	227 C	Research: Social Science
10:00 am	10:20 am	The Impacts of COVID-19 on Water and Wastewater Operations in Indigenous Communities	225 B	Research: Engineering
10:30 am	10:50 am	Investigating the gut microbiome-brain-metabolism axis in Familial Dysautonomia; examining the implication of choline metabolism in disease phenotype and progression.	226 A	Research: Biology
10:30 am	10:50 am	Preparation of Apolipoprotein C I Peptide Antigens for Display on Virus Like Particles to Combat Adenocarcinoma	226 B	Research: Biology
10:30 am	10:50 am	Racism and Discrimination broadening Ethical conflicts for American Indian/Alaska Native professionals and students STEM.	227 C	Research: Social Science
10:30 am	10:50 am	Reaction Condition Optimization of Sorbitol Hydrodeoxygenation over a ReOx-Pd/CeO2 Catalyst via Design of Experiments	225 B	Research: Engineering
11:00 am	11:20 am	A Chemical Approach to Solar Solutions	226 A	Research: Energy
11:00 am	11:20 am	Automated Analysis Identifies Pericyte and Endothelial Cell Loss in Capillaries of Diabetic Mouse Models	226 B	Research: Biology
11:00 am	11:20 am	Lakota Math Connections - Applying Indigenous Research Methodologies with Undergraduate Math Education	227 C	Research: STEM Education
11:00 am	11:20 am	MeduSEA ROV: An Integration of the Biological Locomotion of Cephalopods and the Application of These Dynamics in an Aquatic Remote Operated Vehicle (ROV)	225 B	Research: Engineering
1:00 pm	1:20 pm	Indigenizing the Academy: A Storytelling Journey of Native Student Success in Engineering	227 C	Research: STEM Education

RESEARCH AGENDA

1:00 pm 1:20 pm	Methamphetamine Hapten Conjugated Peptide Vaccines to Combat Addiction	226 A	Research: Health Science
1:00 pm 1:20 pm	Model Predictive Control Study for an Electrified Turbofan Engine	225 B	Research: Engineering
1:00 pm 1:20 pm	Sustained signaling through the high-affinity Interleukin-2 receptor drives the development of terminally differentiated effector T cells	226 B	Research: Biology
1:30 pm 1:50 pm	Cleaning the Future: Antimicrobial Resistance in Aviation following the COVID-19 Pandemic	226 A	Research: Health Science
1:30 pm 1:50 pm	Contactless, Reversible Droplet Wetting State Modulation by Dielectric Charge Injection	225 B	Research: Engineering
1:30 pm 1:50 pm	Self-Assembling Peptides (Q11 and KFE8) as a Platform to Create New HPV Vaccines Candidates	226 B	Research: Biology
1:30 pm 1:50 pm	Using Virtual Reality to Bridge the Gap Between Culture and STEM: Results from an Intertribal Teacher Education Workshop	227 C	Research: STEM Education
2:00 pm 2:20 pm	Designing a Hybrid Culturally-Relevant STEM Research Program for Native American Students	227 C	Research: STEM Education
2:00 pm 2:20 pm	Forced displacement from their lands: Developing a Youth-Elder Mentorship Model to heal from loss of land	226 A	Research: Health Science
2:00 pm 2:20 pm	Morphological Phenotype Predicts Tau Aggregate Seeding Activity in Genetically Diverse Drosophila	226 B	Research: Biology
2:00 pm 2:20 pm	Numerical Modeling of Agricultural Managed Aquifer Recharge: Application of Concepts using the Integrated Water Flow Model on the Toppenish Fan Shallow Aquifer Recharge Project, Yakama Nation, WA	225 B	Research: Engineering
2:30 pm 2:50 pm	A Scoping Examination of Health Disparities – COVID-19 in Three Indigenous Contexts: North America, Australia, and New Zealand.	226 A	Research: Health Science
2:30 pm 2:50 pm	Atomistic Modeling Approach to Investigate Surfaces and Heterointerfaces in Next Generation Photovoltaics	225 B	Research: Engineering
2:30 pm 2:50 pm	Extracellular vesicle glycome in cancer detection and metastasis	226 B	Research: Biology
3:00 pm 3:20 pm	Biocultural Restoration of Fellows Falls: A Historical Ecology Approach	226 B	Research: Biology
3:00 pm 3:20 pm	Droplet-based, High-throughput Microfluidic Assay for Protein Selection	225 B	Research: Engineering
3:00 pm 3:20 pm	Geological Changes Along the Lewis and Clark and Sacagawea Trail	226 A	Research: Geoscience
3:30 pm 3:50 pm	Droplet-based, High-throughput Microfluidics to Fabricate Temperature-responsive Hydrogel Capsules for Drug Screening	225 B	Research: Engineering
3:30 pm 3:50 pm	Mixed effects for shrimp under ocean acidification and warming conditions	226 B	Research: Biology
3:30 pm 3:50 pm	Survey of Edible Plants of the Menominee Reservation	226 A	Research: Natural Resources

AISES Circle of Support

In 2021, AISES relaunches its Circle of Support Program that acknowledges the generous investment of partners whose support is integral to the AISES mission. Circle Partners are organizations that have established a multiprogram partnership with AISES in 2020. We wish to thank each of our Circle Partners for their continued efforts to serve AISES student and professional members.

Full Circle of Support (\$100,000 +)



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Director of PreK-12 Programs

Dr. Johnny Poolaw (Delaware/Chiricahua Apache/Comanche/Kiowa)
Director of Student Success

Dr. Tiffany D. Smith (Cherokee and Muscogee Nations)
Director of Research

Brittany Anderson (Anishinaabe)
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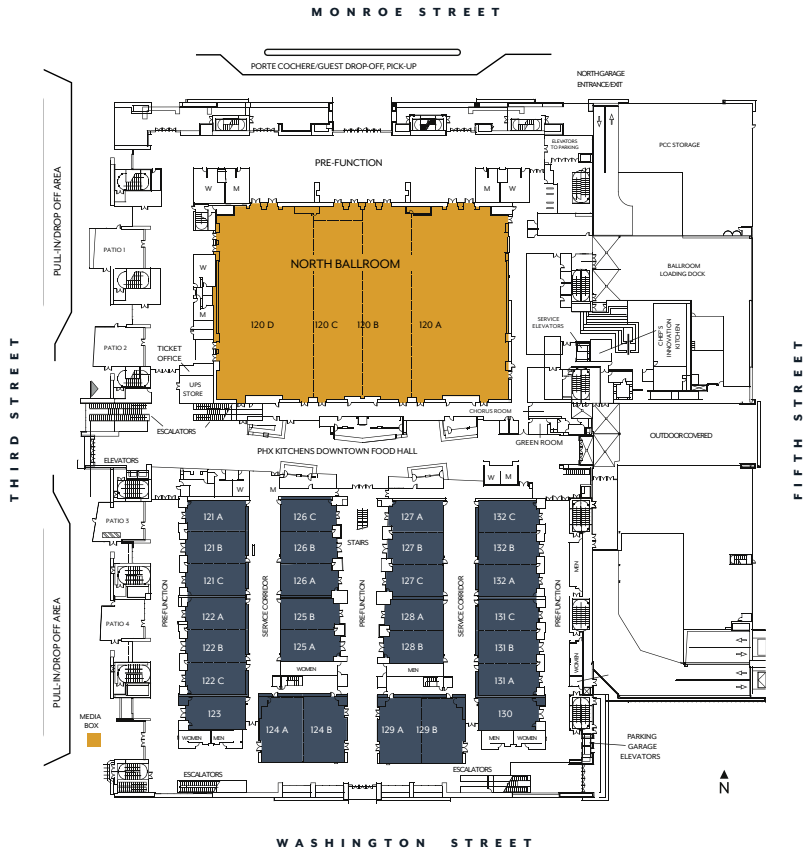
Tiffany Moore (Lower Brule Lakota)
Onsite Program Manager

Joseph Moreno (Filipino)
Onsite Program Manager

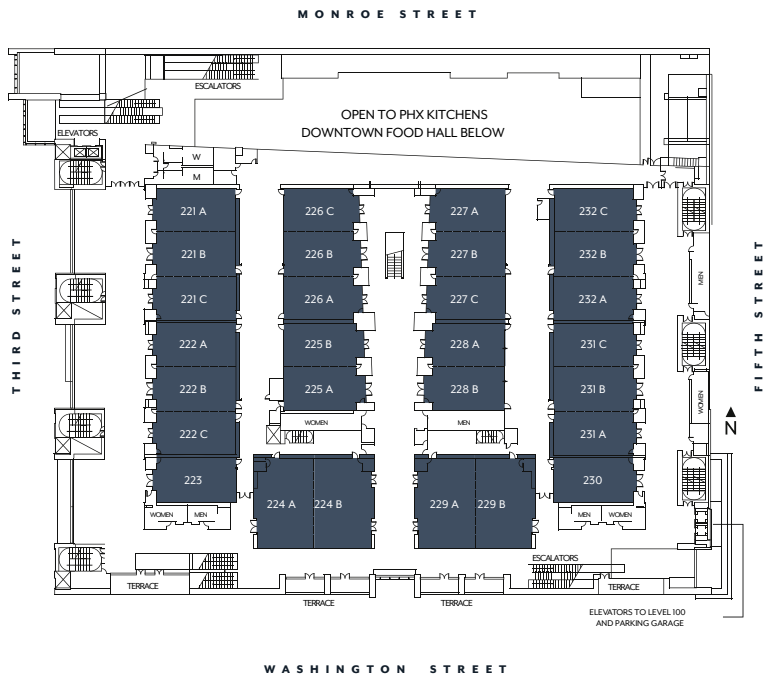
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SESSION DESCRIPTIONS

All biographies of session presenters may be found at the [online](#) conference agenda.

Academic Advisory Council (AAC) Meeting

The AAC provides advice and guidance to AISES regarding academic matters such as grant proposal writing, educational and research project design, faculty careers, college admissions and financial aid, postgraduate study and fellowship opportunities, research opportunities, and other higher education opportunities. The Council engages in issues including, but not limited to:

Providing recommendations concerning the scientific and technical merit of grant proposals and projects.

- Providing recommendations concerning protections for human subjects and other areas as applicable for grant proposals or projects.
- Making recommendations concerning appropriateness of budget requests for grant proposals and projects.
- Providing mentorship to AISES student members who are interested in pursuing a career in Academia.
- Supporting AISES' activities and chapters at ACC members' colleges and universities.
- Alerting AISES to potential grant funding and institutional partnership opportunities.

If you are interested in joining the Academic Advisory Council, please contact Kathy DeerInWater, Chief Program Officer at kdeerinwater@aises.org.

AISES College and Career Readiness Guidebook

Dr. Johnny Poolaw

(Delaware, Kiowa, Comanche, Chiricahua Apache)

Director of Student Success

AISES

AISES has developed a College and Career Readiness (CCR) in STEM for Native high school students to better prepare them to attend and navigate the pathways to college and a STEM degree thereby helping AISES to

address the significant underrepresentation of Native people in STEM studies and careers. The guidebook will include: STEM college and career assessment, overview of STEM careers, STEM careers pertinent to tribal communities, college application guide, scholarships for Native students, resume and personal statement assistance, and first year of college support.

AISES Merchandise Booth

Buy AISES branded apparel and accessories at the merchandise booth. The booth accepts cash and credit cards. If you purchased a National Conference T-shirt online you may pick it up at the merchandise booth.

Allyship and Leading in the New Normal

Kurby Hodges

Sr. Manager, Diversity, Equity and Inclusion
Northrop Grumman Corporation

Over the past year, our society has simultaneously experienced a pandemic, civil unrest, natural disasters and a new social consciousness. These factors have had a major impact on today's workplace as outside influencers have a significant effect on employees' emotional and physical wellbeing. How a leader responds can affect employee engagement as well as the efficacy of teams. Leaders of all levels have been challenged to demonstrate social awareness, develop emotional intelligence, evolve, and "up skill" quickly to address the needs of employees within their organizations. In this session, our leaders will discuss how they have adjusted their leadership styles, learned to be better listeners, demonstrated empathy, and developed skills in allyship to maintain employee engagement, increase team productivity, and facilitate unity across the organization.



SESSION DESCRIPTIONS

Amazon Inside the Smile (Imposter Syndrome)

Kris Follett

Diversity, Equity, and Inclusion Manager
Amazon

Imposter Syndrome can be loosely defined as doubting one's ability and feeling like a fraud. For underrepresented groups self-doubt and feeling as if they do not belong in the workplace can be even more pronounced. This panel, led by the leaders of Amazon's Indigenous@ Affinity group, will focus on their experience at Amazon, how they have dealt with Imposter Syndrome throughout their career, and what advice they would give to those interested in opportunities with Amazon.

ASU Downtown Phoenix Campus Tour

ASU Downtown Phoenix Campus Tour

502 E. Monroe, Phoenix, Arizona

Walking Distance: 15 minutes Pickup/Meeting Location – Outside and in front of the North Building off of 3rd Street

Description: We are excited to welcome you to Arizona State University and show you the Sun Devil campus experience! Join us for a walking tour of our Downtown Phoenix Campus. You will receive an in-person information session from ASU's Edson College of Nursing and Health Innovation as they highlight program pathways for Nursing, Community Health, Health Care Coordination and Integrative Health and College of Health Solutions which will discuss degree pathways in Kinesiology, Sports and Exercise Science and Nutrition. In addition, you will have the opportunity to meet American Indian Student Support Services students and staff as they showcase the services ASU provides to all indigenous students to ensure they will successfully progress towards educational excellence.

Max: 50 attendees Target Audience: pre-college and college students

Agenda 1:30 p.m. Welcome, Admission Services. Guided walk from Phoenix Convention Center to ASU Downtown Campus, Mercado 1:45 p.m. Edson College of Nursing Welcome, program overview and tour of the Grace Center 2:30 p.m. Walk to Health North Building 2:45 p.m. College of Health Solutions Welcome, program overview and tour 3:30 p.m. Walk to Arizona State University Student Center at the Post 3:45 p.m. American Indian Student Support Services, Welcome and overview of programs 4:30 p.m. Walk back to Phoenix Convention Center (highlight campus tour stops along the way 5:00 p.m. Arrive at Downtown Phoenix Convention Center.

ASU Tempe Campus Tour

ASU Tempe Campus Tour

660 S College Ave, Tempe, Arizona Bus ride: 30 minutes Pickup/Meeting Location (Outside and in front of the North Building off of 3rd Street

Description: This tour of ASU's Tempe campus will consist of an information session with the College of Integrative Sciences and Arts where you will get more information about their Applied Biological Sciences programs. You will then get to pick between the Ira A. Fulton Schools of Engineering, or The College of Liberal Arts and Sciences track where you will get to learn about their programs and go on a facility tour. Your tour will conclude with a session and tour with American Indian Student Support Services as they speak on all the resources and services available to ASU indigenous students to ensure their student success as they complete their degree program.

Max: 50 attendees Target Audience: pre-college and college students

Agenda 1:30 p.m. Travel to Tempe campus from Downtown Phoenix Convention Center 2:00 p.m. Arrive at Tempe (travel to MU for CISA 2:10 p.m. Welcome (Admission Services (10 mins) 2:20 p.m. CISA presentation with faculty (35 mins) 2:55 p.m. Split group between FSE and CLAS Travel time to FSE (Group A Travel time to CLAS (Group B 3:05 p.m. Group A (FSE presentation and tour (60 mins) Group B (CLAS presentation and tour (60 mins) 4:10 p.m. Travel time 4:20 p.m. AISSS presentation and tour (40 mins) 5 p.m. Back on bus to travel to Convention Center 5:30 p.m. Arrive at Downtown Phoenix Convention Center.

Balance: Studying, Leading, Achieving, and You

AISES National Student Representatives

AISES

Join the AISES Student Reps in a conversation about balancing the work load of students with self-care. How can you balance classes, research, your personal wellness, and social activities, while being also being a leader and taking care of your own mental health? Hear how the Student Reps work to achieve that balance. They will share resources, tactics, and experiences that have worked for them. Attendees can contribute to the conversation with their own tips or ask for advice for achieving balance.

SESSION DESCRIPTIONS

BetMGM Presents: Online Sports Betting and Industry Opportunity

Katy Kindsfather

Director of Account Management

BetMGM

Anna Taylor

Diversity & Inclusion Manager

BetMGM

Jason Scott

Vice President Trading

BetMGM

This session will highlight the fast-moving and exponentially growing industry of Online Sports Betting and Casinos. As more and more states welcome and approve this emerging sector, there will be incredible opportunities for recent college graduates and seasoned professionals looking to take on new challenges. This session highlights BetMGM as a company (who we are, our commitment to inclusion, and our market-leading position in the world of online sports and casino. The discussion also highlights the specific role of Trading within our organization; the math and science behind what we do. As a STEM graduate or professional, you'll learn more about how we set the odds, run the numbers, and create a world-class experience for our customers.

Canadian Indigenous Advisory Council (CIAC) Meeting

The CIAC consists of representatives from the Canadian Indigenous science, technology, engineering, and math (STEM) community. The primary role of the CIAC is to advise AISES on issues of relevance and importance to its Canadian Indigenous (Status and Non-Status First Nations, Metis and Inuit) members. In addition, the CIAC also works to assist AISES in creating opportunities for Canadian Indigenous members and to support the AISES mission of substantially increasing the representation of Canadian Indigenous Peoples in engineering, science, and other related technology disciplines. The Canadian Indigenous Advisory Council:

- Advises AISES on issues important to Canadian Indigenous chapters and members.
- Assists in the formation of professional and post-secondary chapters of AISES in Canada.
- Encourages K-12 Canadian Indigenous educator and student participation in AISES programming, where appropriate
- Serves as a liaison between the Canadian Indigenous STEM community and AISES.
- Provides networking opportunities for Canadian Indigenous AISES chapters and members.
- Promotes communication between Canadian Indigenous AISES chapters and members.
- Serves as an advocate to publicize Canadian Indigenous content in Winds of Change Magazine and on the AISES website.
- Represents the CIAC at regularly scheduled AISES Board meetings by sending at least one co-chair.
- Provides input to National Conference proceedings in order to increase relevance for Canadian Indigenous AISES members.
- Promotes, assists and supports AISES in hosting a gathering of Canadian Indigenous AISES members and allies at the National Conference.
- Supports AISES in developing a biennial conference held in Canada to serve Canadian Indigenous AISES chapters and members.

If you are interested in joining the Canadian Indigenous Advisory Council, please contact Lisa Paz, Senior Director of Engagement and Advocacy at lpaz@aises.org.

Canadian Members Meeting

All Canadian AISES members and conference attendees are welcome to gather, network, discuss and learn about future opportunities and events happening in Canada.

Chapter Advisors Meeting

All AISES college chapter advisors are invited to join this meeting. This is a time to network with other chapter advisors and discuss best practices, ideas and concerns involving advising an AISES college chapter.

Closing Banquet

The Closing Awards Banquet features live entertainment, pays tribute to the AISES Professional of the Year awardees, and offers much more!

Closing Talking Circle (All Welcome)

Facilitated by the AISES Council of Elders, the closing talking circle is a unique opportunity to share your thoughts and perspectives about the National Conference or other experience. Bring your authentic self to reflect and connect with others in a safe and supportive environment. Listen to others as they contribute a story, a song, or a point of view. Everyone can participate in complete honesty. Enter with an open heart and leave with your heart fuller until the AISES family sees you again.



SESSION DESCRIPTIONS

College and Career Fair

AISES hosts the largest College and Career Fair in Indian Country. The Fair attracts professionals and college recruiters from over 150 corporations, government agencies, and colleges and universities. This mix encourages mentoring and sharing that is unparalleled at any other event.

College and Career Fair Lunch

Lunch and dining tables are available at the back of the exhibit hall.

College and Career Fair Ribbon Cutting Ceremony

Come join us for the official opening of the AISES College and Career Fair.

College Student Region Caucuses

AISES students are invited to gather by region to discuss issues of interest as well as plan for their upcoming regional conference. Led by the Regional Student Representatives, this is a time for students to meet other students and professionals in their region. This is a student event, and while professional members and corporate partners are welcome to attend as observers, they are not eligible to vote and do not have presenting privileges.

Combating COVID-19: Tribal Health Research Office (THRO) at the National Institutes of Health

Dr. David R. Wilson

Director, Tribal Health Research Office
Division of Program Coordination, Planning, and Strategic Initiatives Office of the Director, National Institutes of Health

In 2020 the world experienced the worst pandemic in 100 years. The scientists and health care professionals across the world came together to develop vaccines and therapies to combat the deadly SARS-COV2 virus. The Tribal Health Research Office (THRO) at the National Institutes of Health played a significant role in creating partnerships at many different levels creating public, private and Tribal partnerships to aide Tribal Nations in protecting their communities. Dr. Dave Wilson, Director of the NIH THRO office will talk about how federal, academic, private, and Tribal partners led to effective interventions for Tribes in response to COVID-19.

Computer Science/Engineering Design Process

Nate Raynor

High School Science Teacher
Mescalero Apache School

Deborah Grider

High School Teacher (IT)
Mescalero Apache School

Students will be introduced to Computer Science (CS) and the Engineering Design Process (EDP) in a workshop setup. Students will work in teams to create a project that uses both CS and EDP protocols. Students will discuss their design with the entire workshop after completing their projects.

Conference Registration

Pick up important conference materials especially your printed conference badge. All conference attendees must be registered. All attendees must wear their conference badges at all conference events.

Corporate Advisory Council (CAC) Meeting

The AISES Corporate Advisory Council (CAC) is a professional association of corporate representatives who support AISES in its mission of increasing the number of Native people in STEM. The CAC provides industry advice and counsel for the AISES Executive Leadership and the Board of Directors and contributes to advancing the AISES mission by:

- Providing scholarships, internship programs and/or employment opportunities to college students and professionals.
- Supporting the development and implementation of programs that engage K-12 students, teachers, and families in the STEM fields.
- Participating in and supporting AISES events through sponsorships, presentations, and providing career information and resources.
- Supporting and engaging the student and professional chapters in their local areas.
- Providing industry expertise and guidance related to current/projected employment trends and needs.
- Developing support for AISES consistent with individual company capabilities, including financial contributions, in-kind gifts and human resources.
- Assisting AISES in fundraising efforts through networking and participation.

SESSION DESCRIPTIONS

- Facilitating effective public relations for AISES activities via coverage in company publications.

If you are interested in being involved in the Corporate Advisory Council, please contact Kellie Jewett-Fernandez, Chief Development Officer at kjfernandez@aises.org.

Creating Water Sustainability in a time of Uncertainty

Marcus Denetdale
(Navajo)

Program Manager
Construction in Indian Country (CIIC) at the ASU Del E. Webb School of Construction

Dr. Crystal Tulley-Cordova
(Navajo)
Principal Hydrologist
Navajo Nation

Dr. Karletta Chief
(Diné)
Associate Professor and Associate Extension Specialist,
University of Arizona
University of Arizona

Nikki Tulley
(Navajo)
Ph.D. Candidate
University of Arizona

The Navajo Nation (NN) has faced wicked water problems. The Nation's vast landscapes, low-density and rural population, legacy waste issues, limited personnel, and slow-growing economic development present complex water access struggles for the NN over its 27,000 square miles. The adverse impact of COVID-19 both highlighted and exacerbated these preexisting clean water issues.

Wicked water problems facing the NN cannot be solved with one solution or in a short time span. Yet the urgency of the pandemic prompted immediate action, and the need to seek more enduring water access solutions for the multiple stakeholders and institutions going forward. People in a group called the Water Access Coordination Group (WACG) came together in 2020 to address water issues and work to find permanent solutions. This session will tell the WACG success story and the insights that can be drawn from this formidable partnership to guide future water access work.

Data Sovereignty for Native Communities

Adam Recvlohe
(Muscogee (Creek) Nation)
Software Engineer

Andrea Delgado-Olson
(Ione Band of Miwok Indians)
Executive Director
Natives in Tech

Jeff Doctor
(Cayuga Nation)
Impact Strategist
Animikii Indigenous Technology

Caroline Running Wolf
(Crow Nation)
Co-Founder
Buffalo Tongue

Michael Running Wolf
(Northern Cheyenne/Lakota/Blackfeet)

This talk between Indigenous technologists, with academic, nonprofit, and corporate experience, will dive into the risks and possible models to protect Native Data.

In an era of Big Data, for applications like AI, what does Data Sovereignty look like for Indigenous knowledge? Trust and technology for Indigenous Nations have not been favorable for preserving our knowledge and language without the threat of ceding knowledge to non community members. Licenses for open source technologies are vague and do not protect traditional knowledge systems and invite exploitation. Join our talk to find out how your community can retain sovereignty of your community's data.

Decolonizing & Indigenizing Philanthropy and STEM, A Visualization Session. What is Philanthropy's Role in STEM?

Brian Tanner
(Salish/Cree)
Director of Development
Potlatch Fund

Rebecca Miles
(Nimiipuu)
Operations Director
Potlatch Fund

Timothy Corey
Principal and Owner
Colibri Facilitation

Potlatch Fund has recently completed our strategic plan, using many evaluation components that are less colonized and more Indigenized. We hope to share the results of our strategic plan and gain insight into how philanthropy can fill the gap in getting more Indigenous youth interested,



SESSION DESCRIPTIONS

involved, and supported in the STEM field.

As our people have managed the land and built great civilizations for thousands of years, we are Turtle Island's primary scientists. How can we reimagine STEM in a way that relates to our cultures and values, and bringing that ancestral knowledge into the 21st Century?

Potlatch Fund has two youth grants that fund youth programs for leadership, culture, language, arts, and health, which we believe use our ancient scientific methods.

Join us in a discussion about how we can Indigenize STEM and Philanthropy.

Defending Our Nation

Wiley Jones

Manager
NSA

Damon Smith

Technical Director
NSA

How are you protecting yourself from threats in cyberspace? How are we protecting our country from threats in cyberspace? Combining protection and defense defines cybersecurity. This unique presentation provides a view of cybersecurity and its threats, such as infected web-sites, infected emails, phishing attacks, and social engineering from a national-level down to the home user, and presents how it takes a team to make cyberspace more secure. The talk provides "homework" on how to secure your home computer via a variety of recommended tasks.

Department of the Air Force (Space Force Guardians and Air Force Airmen Stories of Success

Jacqueline Melcher

(Oglala Sioux)
Chief, Installation Management Flight
Department of the Air Force

Haida StarEagle

(Matinecock Tribe and Algonquian People)
Flight Commander of Target Operations Training for 36th intelligence Squadron, Joint Base Langley-Eustis
United States Space Force

Department of the Air Force is comprised of Air Force and Space Force which is supported by Active Duty Officers and Enlisted Personnel, as well as Civilian members who proudly serve to protect the Nation's Air, Space and Cyber Domains. Hear stories of success from Indigenous members who dominate their respective domains.

Emerging Industries, Entrepreneurship and The Gig Economy

Julius Maina

Chief of Staff
gener8tor

Pilar Thomas

(Pascua Yaqui Tribe)
Partner, Tucson Office
Quarles & Brady

One of the best ways to pursue your entrepreneurial spirit, while avoiding the potential pitfalls of launching out on your own, is to determine where the future of work is headed and vision yourself in the driver's seat. Specifically, you can identify the fastest growing industries, pick the one you are most enthusiastic about then develop the skills most valuable to that industry with the goal of either taking part in the next wave of industrial revolution or building products and solutions for the future.

This session will explore the fastest growing emerging industries and various models for building an entrepreneurship mindset (without having to abandon the traditional STEM career track), launching a startup or becoming a business owner. The session will also take a close look at emerging industries and innovations with the potential of positively impacting tribal land and tribal populations such as renewable/alternative energy and AgTech.

Empowering Student Science Learning: Strategies For Incorporating Traditional Knowledge Into Science Teaching

Dr. Wendy Smythe

(Haida)
Assistant Professor
University of Minnesota Duluth

There is an urgent need for a culturally relevant science curriculum in the U.S. and Canada and a greater need to provide training and support for teachers as they develop and implement curriculum in a culturally respectful and ethical way. This is the first in a two workshop series for K-12 educators that aims to provide foundational knowledge to allow teachers to build on as they begin to create science curriculum that incorporates Traditional Knowledge, culture, and language. The session will host two Indigenous science education scholars who will share best practices and successes they have had in curriculum development. Participants will have opportunities throughout the workshop to discuss knowledge shared, consider strategies for developing curriculum, and to build supportive peer relationships.

Questions this workshop will pose:

- What is Traditional Knowledge?



SESSION DESCRIPTIONS

- What to consider when using Traditional Knowledge?
- Community connections?
- How to incorporate Traditional Knowledge?
- Classroom and teaching support.

Empowering Tribal Education

Roberto Coppola

Researcher

University of Nevada, Las Vegas (UNLV)

There are not enough native people in leadership roles across Indian Country. What is being done to change that dynamic? How can tribal stakeholders, like you, help solve this problem? With generous support from the San Manuel Band of Mission Indians, UNLV will soon launch a new tribal education program aimed at providing executive development coursework for Native Americans.

Join us for an engaging conversation about a new education program that will debut later this year and learn how you can get involved.

Exhibitor Feedback Session

This is your opportunity as an exhibitor at the 2021 AISES National Conference to provide input to AISES for future conferences.

Explore Moon to Mars: We are the Artemis Generation

Sara Garcia-Torres

EPDC Education Specialist
NASA Ames Research Center

Monica Uribe

EPDC Education Specialist
NASA Armstrong Flight Research Center

NASA is expanding human exploration by visiting the Moon and then Mars. In this session, participants will get an overview of the return to the moon that will land the first woman and the first person of color on the surface of the moon called the Artemis Missions. We will explore the new technology such as the SLS, the Gateway, Orion and ground exploration system. We will take a close look at Perseverance, the fifth Mars rover who landed on the red planet on February 18, 2021. This presentation will also take a look at the Commercial Crew program and highlight STEM careers at NASA. Participants will use the engineering design process to create a lander.

Gemstone Reception (Sponsors & Invitation Only)

Open only to conference sponsors and by invitation only.

General Motors Innovation and Office Tour

General Motors Innovation and Office Tour

2900 W Geronimo Place, Chandler, Arizona Bus ride: 30 minutes (27 miles) Pickup/Meeting Location (Outside and in front of the North Building off of 3rd Street. Explore your opportunities with General Motors while touring the IT Innovation Center in Chandler, Ariz., home to more than 1,000 of GM's best and brightest technologists. GM's vision is a world with Zero Crashes, Zero Emissions and Zero Congestion to make the world better, safer, and more equitable. We look for the bold, the innovators, the self-motivated (those who ask questions, and never stop looking at what is next. Join us to learn about career paths with GM that will help define the new era of transportation and mobility.

Max: 55 attendees Target Audience: high school seniors, college students and professionals

Agenda 1:30 p.m. Depart AISES conference: Phoenix Convention Center, 100 N 3rd Street, Phoenix, AZ

2:00 p.m. Arrive GM IT Innovation Center, Chandler AZ.

2:15 p.m. Welcome (first floor training rooms)

2:30 p.m. Office tour and discussion with GM IT employees

4:20 p.m. Tour concludes; 15-20 minutes for break and gathering personal items

4:40 p.m. Depart GM IT Innovation Center

5:15 p.m. Arrive Phoenix Convention Center

Government Relations Council (GRC) Meeting

The AISES Government Relations Council (GRC) is comprised of U.S. Government employees. The GRC establishes and supports working relationships between Federal government agencies and AISES, and identifies government resources, develops strategies, and promotes government careers in support of AISES' mission by:

- Assisting in the placement of Native people into government jobs.
- Supporting the development and implementation of programs that engage and support AISES students and professionals in the STEM fields.
- Identifying federal internship and employment program for AISES membership.
- Coordinating and participating in government sponsored workshops at AISES events.



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- Supporting student and professional chapter events.
- Providing industry expertise and guidance related to STEM education and workforce needs and trends.
- Identifying federal funding opportunities for AISES.

If you are interested in joining the Government Relations Council, please contact Alicia Mitchell, Senior Development Officer at amitchell@aises.org.

Graduate Student Mixer sponsored by SIGP

Open to all graduate students and those interested in graduate school. Be part of this fun and engaging networking session with light refreshments.

Grow Your Career and Feed the World with the Natural Resources Conservation Service

Catherine Cannon

National American Indian Alaska Native Special Emphasis Program Manager
USDA NRCS

Created in response to the Dust Bowl in 1935, the Soil Conservation Service later expanded its mission to include the conservation of all natural resources. We will highlight how the employees of the Natural Resources Conservation Service utilize their education in agricultural or natural resources to support farmers, ranchers, forest owners, and tribes with maintaining their way of life by conserving that which gives us life. The many career opportunities, internship programs, and how to successfully navigate the federal job application process will be explored. If you have a passion for natural resources, food systems, sustainable agriculture, or maintaining culturally important plants and animals, a rewarding career with USDA's Natural Resources Conservation Service awaits.

hackAISES: Mini-Hackathon sponsored by Wells Fargo Bank (Registration Required)

This year's hackathon will feature a wide selection of projects from novice to advance levels that will include the Internet of Things (IoT), bot competitions, programable cars, arcade games, and of course you can bring your own project ideas to get support and feedback. The projects are intended for middle-school aged through high school students. Every attendee will receive their very own IoT device to take home and continue to grow and learn. There will be prizes and giveaways through-out the sessions. Bring your own laptop if you have one but that is NOT a requirement as we will have spare laptops to use.

Mentors will be available to help students troubleshoot

issues and answer questions. Food and beverages will be provided!

Target audience: Middle school and high school students, and chaperones

Hackathon: Sponsored by Chevron: Registration Required

Strategize, discover, build your tech skills, and network! During this mini-Hackathon for college undergraduate and graduate students, participants will work with industry professionals on a cyber security project. Show your talent; test your limits; and have fun meeting interesting people while putting your best efforts forward. There will also be lots of food, drinks, and prizes! Space is limited so hurry and register now!

Target Audience: College Students. Also open to Advisors.

Honoring Our Ancestor's Knowledge

Dr. Mark Bellcourt

(White Earth Nation)
Educator
Retired

Too often Indigenous / traditional knowledge is viewed as lacking any scientific methodology – it is seen as superstition and accidental discoveries. To the contrary, traditional knowledge relies upon the same processes as “western” scientific inquiry – it relies upon observation, trial and error, and hypothesis. Traditional Knowledge differs only in philosophy. For example, western scientific methodology relies upon a philosophy of reductionism (the universe is compartmentalized in dualistic forms and reduced progressively smaller conceptual parts. On the other hand, Traditional knowledge relies upon the philosophy of holism – seeking knowledge must be studied in terms of the wholeness. This session is for anyone who wants to learn about the fourteen philosophical differences and intersections of western scientific inquiry and traditional knowledge.

Honoring Our Ancestors Knowledge: Using Invention to Create Change

Danielle Boyer

Founder
The STEAM Connection

Have you ever wondered how to bring an idea to life? Or how to use your talents in science and technology for your community? This talk delves into the robotics initiative Every Kid Gets a Robot by Danielle Boyer (Ojibwe) on how to take a small concept and grow it for good through lessons in prototyping, manufacturing, distribution, and scale. Let's learn together how we can use traditional knowledge and STEM to meet our community goals.



SESSION DESCRIPTIONS

Human Factors Engineering: Designing systems and technologies that work for people

Dr. Scotty Craig

Assoc. Prof.
Arizona State University

Dr. Erin Chiou

Assistant Professor
Arizona State University

Dr. Heather Lum

Assoc. Prof.
Embry-Riddle

Dr. Carolyn Sommerich

Assoc. Prof.
Human Factors and Ergonomics Society

Session attendees will learn about Human Factors/ Ergonomics (HF/E), a field that studies human abilities, limitations, behaviors, and other human characteristics that are relevant to the design of tools, machines, systems, tasks, jobs, and environments for productive, safe, enjoyable, and comfortable human use. Through activity-based interactions, session attendees will be introduced to several key human factors concepts. Attendees will learn about graduate studies and the wide range of career opportunities in HF/E. They will also learn about the positive impact that application of HF/E principles can have on communities through the design of systems, such as healthcare and transportation, and products, such as smartphones and automobiles. Attendees will also learn about the need for inclusion of diverse and underrepresented perspectives in the HF/E field. Lastly, attendees will be able to meet in breakout groups with HF/E faculty.

Humanly, Making the Interview Process more Equitable

Prem Kumar

CEO and Co-Founder
Humanly

Do you get nervous when you interview? Do you come out of interviews with uncertainty and questions about decision criteria? How do you practice and get better without the inevitable cost of learning-through-failure? Humanly is an AI platform that helps the interview process and companies more equitable in their conversations with job candidates. Students will get a chance to do a mock interview and will receive a private report that helps them hone their interview communication skills. In the workshop sections we'll also conduct meetings in a coaching session style chat about career and interviewing to help improve your interview confidence and skill through actionable data.

Indigenous STEM Representation: Why it's of increasing importance in the era of AI

Tara Astigarraga

(*Choctaw Nation of Oklahoma*)
Lead Architect: Hybrid Cloud Storage, Master Inventor
IBM

Jael Whitney

(*Choctaw Nation of Oklahoma*)
Business Development Leader, AI Applications
IBM

Artificial Intelligence (AI) and Machine Learning (ML) are predicted to reshape manufacturing, energy, transportation, agricultural production, healthcare, education and financial markets. An intelligent computer is only as well rounded as the people who teach it and the training data it is exposed to. With Indigenous people accounting for 0.3% of the engineering workforce, we have a severe lack of presence (and data) in a space that is of growing importance. This session uses specific real world examples of projects where AI solutions were deployed that had unintended consequences on certain groups/populations due to incomplete or bias training data introduced into the machine learning models. These examples and future use cases will setup interactive discussion on why its of growing importance that we understand this space and ways that we can get involved in computer science, data science and adjacent fields to protect against unintended impacts of AI/Technology on Native communities.

Indigenous Venture Capital: A New Model

Garry McBerryhill

(*Muscogee (Creek) Nation*)
Investment Associate
Raven Indigenous Capital Partners

Indigenous entrepreneurs face systemic barriers in accessing appropriate seed, early stage and growth capital. Native founders often lack access to inter-generational wealth and angel investor networks that enable fundraising. Traditional "fail fast" models of venture capital investment are also at odds with Indigenous values of community, relationship building, and stewardship of resources.

Garry McBerryhill, an experienced Native American investor with Raven Indigenous Capital Partners, will present case studies of venture-backed Indigenous enterprises to demonstrate a new model of venture capital that supports Indigenous entrepreneurship in line with Indigenous values and knowledge.

Raven Indigenous Capital Partners is an Indigenous-owned and led funder that has served Indigenous



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founders since 2019, providing capital, guidance, community, and other support grounded in our shared Native experience and perspectives.

Interviewing Tips and Tricks and Basic Resume Advice

Leona Anderson

(Creek Nation)

Human Resources Business Partner

The Boeing Company

Heather Heckler

(Brothertown Indian Nation)

Sr. Industrial Engineer

General Motors

Participants will learn from two corporations Boeing and General Motors Interview Tips beginning with the resume process, through the screening process, interviewing process to the offer. We will cover how not to provide redundant information; Creating a resume that is too long.

Summary format – if you have a summery format, the reader has no idea when/where you accomplished what you are describing.

- Including tedious or irrelevant information.
- Typical errors that some applicants make such as cut and pasted job descriptions passed off as experience.
- Lacking qualitative experiences and “accomplishments” and merely including a list of duties.
- Using present tense when describing prior roles.
- Grammatical errors of any kind.
- Finally, we will end with an interactive mock interview activity.

Introduction to Space & Launch at Boeing

Kia Smith

Senior Engineer

The Boeing Company

Holly Murphy

Director of Engineering In-Space Vehicles

The Boeing Company

Dr. Danny Howard

Director of Space Electrics for Space & Launch Engineering

The Boeing Company

Your dreams go beyond Planet Earth. You are innovative, creative, and challenge the status quo. You work well in teams while also having the ability to work assignments autonomously. Here at Satellite Systems you will

collaborate with leaders in space innovation and pave the way in creating the world's best satellites. You will be a leader in space innovation.

At Boeing, we are all innovators on a mission to connect, protect, explore and inspire. From the seabed to outer space, you'll learn and grow, contributing to work that shapes the world. Find your future with us.

NASA's Space Launch System (SLS) provides a critical heavy-lift capability, powering people and cargo to/ beyond our moon and into deep space. Boeing's SLS launches larger payloads farther in our solar system, faster than ever before possible. Boeing is the prime contractor for the design, development, test and production, come learn about our products.

Journey From AISES Student to Intelligence Officer with the Federal Government

Leo Meyers

Native American Outreach & Recruitment Program

Manager

Central Intelligence Agency

During this session we will follow the journey of a Student, Jared, who attends an AISES Leadership Conference; meets with a recruiter to discuss student sponsorship programs; and ends up a “super spook” with the Central Intelligence Agency. At the beginning of the talk, you will see that Jerad was a typical college student. He was proud to be Native American, but more focused on finishing his engineering degree than his heritage. By the end of the talk we all have a sense that Jerad's attendance of the annual AISES Conference was meant to be. He had decided to go, against his initial judgment, given the arduous engineering exams looming over his head. He will share how his experiences with AISES broadened his horizons in positive ways and led to an interesting career he could not have dreamed of. Jared will wrap up by encouraging others to serve their country.



SESSION DESCRIPTIONS

Let's BUILD Indian Country!

Marcus Denetdale

(Navajo)

Program Manager

Construction in Indian Country (CIIC) at the ASU Del E. Webb School of Construction

Bob Terry, III

(Menominee)

Principal

Kenēw Construction Management

Liz Dover

Recruiter

Del E Webb School of Construction/ASU

Shandiin Yessilth

(Navajo)

Project Manager

Wenaha Group

The construction industry is looking for talented individuals who enjoy problem solving, managing, and think innovatively. The Del E. Webb School of Construction (DEWSC) and Construction in Indian Country (CIIC) at ASU has an opportunity for such individuals. Native American/Alaskan Native students looking to serve their communities through construction management can learn more about the industry in this presentation. Most projects on tribal lands are either federally and tribally funded projects. These projects require talented individuals. We will explain how these projects impacts the local economy and service to the surrounding communities. Through the DEWSC/CIIC collaborative, students will engage with tribal leaders, industry professionals and academic professors to learn about construction projects on tribal land at an executive management level. The presenters are from the CIIC program, the DEWSC degree program and the industry. Participants will learn about entrepreneurship, BUILDing in Indian country, and career opportunities (current salary range).

Linguistics and the Importance to National Security

Heather Nelson

Director

U.S. Intelligence Community

A panel of Subject Matter Experts (SMEs) will discuss linguistics and cultural competence within the IC, specific to American Indian languages.

Mental Health and Wellbeing: Setting Boundaries and the Power of saying NO

Megha Rao

Sr Manager

Nordstrom

Sindhu Manne

Sr Software Engineer

Nordstrom

Life is a one-time offer, setting boundaries is an important part of establishing one's identity and a crucial aspect of wellbeing. With modern technology and remote working, there is no separation between personal and professional life. It is not easy to say NO. This talk will shed light on what are the best practices for being yourself and setting expectations to prioritize your own needs. Dr. John Townsend says boundaries are "keeping the good in and keeping the bad out". Many of us are good at giving all of ourselves and keeping the bad in and keeping the good out. But we're not very good at self-advocacy and the opposite. This talk is for all audiences who are juggling an active home and work life, especially those with children or family that needs care.

Middle School to Medical School: The challenges and benefits of cohesive, collaborative programming across the educational spectrum, and supporting students pursuing Allied Health Careers

Danielle Thompson

Program Manager

University of North Dakota INMED

A review of the challenges and obstacles facing AI/AN students as they pursue Allied Health Careers. Discussion of programmatic offerings at UND's INMED program that address the needs of our students and our healthcare workforce in Indian Country. Establishing strategic pathways, supporting learning objectives, and setting students up for long-term success.

Morning Blessing Ceremony with the AISES Elders

Start your day in a reverent, meaningful and invigorating way. Join the AISES Council of Elders in welcoming and blessing a new day.

Native Artisan Marketplace

Come check out our vendors from Thursday through Saturday for a shopping experience and exhibition of Native artifacts from artists, crafters and traders.



SESSION DESCRIPTIONS

Native Financial Cents Train-The-Trainer Workshop

Ruth BlackHawk

(Ho-Chunk and Lakota)

Director of Programs
AISES

Brittany Anderson

(Fond du Lac Band of Lake Superior Anishinaabe)

Sr. Program Officer
AISES

Marie Casao

(Narragansett Tribe)

Program Officer
AISES

The AISES Native Financial Cents (NFC) culturally contextualized curriculum was designed to supplement content from Wells Fargo's Hands on Banking® Curricula to provide financial education for elementary, middle, high school, and young adults to help students start their financial lives smart and strong. The train-the-trainer workshop is for individuals interested in delivering the NFC curriculum in their local communities.

Native STEM Professional Tackle COVID-19 Pandemic

Dr. Mary Jo Ondrechen

(Mohawk)

Professor of Chemistry and Chemical Biology
Northeastern University

Dr. Naomi Lee

Assistant Professor of Chemistry and Biochemistry
Northern Arizona University

Mechem Frashier, MBA, BSN, RN

Director of Practice Operations
PMG Heart Group

Join AISES professionals in an engaging panel discussing the COVID-19 pandemic from research innovations to tribal community responses. The panel will highlight the work of Native researchers and their contributions during this global pandemic. The session will feature Q&A from the moderator and panelists as well as questions from the audience.

Networking Suites

Attend the event that has become a favorite among all conference participants! This "buffet-style" networking event offers a series of simultaneous receptions. Join conversations and meet others with common interests. This is an opportunity to meet the conference sponsors and exhibitors as well as other conference attendees in a fun and casual environment. Enjoy refreshments,

conversation and make important connections for the Career Fair! It is the perfect wrap-up for your first day. Visit one or all in rooms 124-129.

- Academia and Research
- Armed Forces/Intelligence sponsored by NSA
- Energy sponsored by Williams
- Health and Medical Science
- Intel
- Manufacturing and Consumer Goods sponsored by 3M
- Natural Resources. Food and Agriculture sponsored by USDA Natural Resource Conservation Service
- Tech, Telecom and Casino Gaming
- The Boeing Company
- Transportation
- U.S. Intelligence Community

Nurturing Communities, A Focus on Skill-Based Employment in a Gig Economy

Tracy Monteith

(Eastern Band of Cherokee)

Senior Software Embedded Engineer
Microsoft

Technology is always evolving over time as is the intersectionality of human relationship to technology. While most every corporation looks for a prototype employee they do so at the opportunity cost of not employing those that don't fit the idealism of the 'perfect' candidate. The so called 'Gig Economy' is controversial but also has merit by opening avenues for hiring a far more diverse range of people that might not have the same background but have the skill and knowledge to get the job done. This presentation will focus on skill-based opportunities that many corporations are enabling and how you might benefit from these new programs.

Opening Ceremony

Kick off the 2021 AISES National Conference with a welcome to Phoenix and inspirational speakers.



SESSION DESCRIPTIONS

Opportunities in the New Energy Economy- The AISES-Avant Native Energy Fellowship

John B. Lewis

Managing Director of Native American Energy
Avant Energy, Minneapolis

Sam T. June

AISES-Avant Native Energy Fellow
Avant Energy, Minneapolis

This session will cover the state of the energy industry and will discuss trends and transitions, especially related to renewable energy and sustainability for Tribal Communities. Ms. June will also provide an overview of the Native Energy Fellowship Program and will also provide recommendations for those who are interested in professional experience and development in the energy industry.

People, Process, and Product: Is Software Engineering right for me?

Ben Hibbeler

(Sicangu Lakota)
IT Manager
GEICO

In this interactive workshop, we will discuss the world of Software Engineering. The workshop will be centered around Agile Development, design principles, new and emerging technologies, career tracks, as well as interview coaching advice. There will be demos, online surveys, and a hands-on agile exercise.

Please bring your questions and curiosity.

Play for Work: Exploring a Career in the Games and Esports Industries

Roger Quiles

Director
Project Quipu Inc.

From esports players, to game developers, and the many different kinds of behind the scenes roles, there is a wide array of job opportunities available in video games. This panel will discuss the many different types of jobs available in the video game industry and how college students can best position themselves to work in the wide world of video games.

Poster Research Presentations

Poster boards are located at the back of the exhibit hall. Come learn about all the exciting research from our AISES students and professionals!

Poster Research Presentations Setup

Participants are expected to mount their posters after Friday: from 8:00 am to 9:00 am in the back area of the College and Career floor in Exhibit Hall 5 of the Phoenix Convention Center (North Building). Author(s) must be present at their poster during the judging period, 9:00 am - 12:00 pm.

Pre-College Advisors Meeting

This meeting is for K-12 educators that work with an AISES club or would like to start one. Meet other AISES advisors, learn how to start a club, how to keep one going, and what is important for your students to know about AISES.

Pre-College Student Caucus

AISES Pre-College students are invited to gather to meet new friends and hear more about AISES opportunities! This is a student event, and while professional members and corporate partners are welcome to attend as observers, they are not eligible to vote and do not have presenting privileges.

Professional Chapter Council (PCC) Meeting

The Professional Chapters Council (PCC) consists of representatives of the AISES professional chapters whose goal is to provide guidance and representation for professional chapters, to advise AISES on issues important to professional chapters and members, to increase opportunities for AISES professionals, and to support the AISES mission by:

- Meeting quarterly to support and represent the AISES professional chapters.
- Advising AISES on issues important to the professional chapters and members.
- Supporting the formation of additional professional chapters.
- Assisting professional chapters in fundraising ideas and programs.
- Serving as a liaison between professional chapters and AISES Headquarters.
- Assisting professional chapters to recruit new members and retain current members.
- Assisting professional chapters in providing professional development for members.
- Providing networking opportunities for professional chapters and members.
- Assisting professional chapters in their outreach to AISES students and student chapters.
- Reviewing professional chapter Affiliation Agreements



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and Professional By-laws and presenting any proposed changes to AISES Headquarters.

- Promoting communication between professional chapters.
- Having the PCC Chair represent the PCC at regularly scheduled AISES Board meetings.
- Providing input for the Professional Members Mixer at the National Conference.

If you are interested in joining the Professional Chapter Council, please contact Lisa Paz, Senior Director of Engagement and Advocacy at lpaz@aises.org.

Professional Members Mixer sponsored by The Boeing Company and US Department of State (Ticket purchase required)

Join us for the AISES Professional Members Mixer! Be part of this fun and interactive session which will pair Professional members with student members and give them the opportunity to network in a fast-paced setting! This event is geared towards professionals, as well as, college students that will be entering the work force in the near future. Light hors d'oeuvres will be served.

Professionals Keynote Breakfast sponsored by 3M (Registration Required)

State of Science Index 2021

3M Science Applied to Life

Science matters to 3M. We want to create a better world through science, and we want to inspire others to join us in that effort, which parallels this year's AISES theme "Together Towards Tomorrow". To do so, we need to understand what the world thinks of science—and the role it plays in society—because it could impact the future. 3M's State of Science Index presents original, independent, and nationally representative research conducted among the general population around the world. Since 2018, it has been one of the largest, most global studies to explore attitudes about science and enables 3M to track and benchmark shifts in attitudes about science over time, using the inaugural year as a baseline.

STEM Equity/Diversity, a key theme, is a big issue, a big priority, and an ample opportunity since it translates to positive societal outcomes in the future. As a global science, technology and manufacturing company, we believe 3M is uniquely positioned to bring our full capabilities to power racial equity and inclusion in our workplace and communities through two Platforms for Change: Racial justice for the future of work and Empowering an inclusive culture.

This 3M sponsored event is available exclusively to professionals with a limit of 300 participants. Registration is required.

Protecting By Preserving: Future Health & Traditional Foodways

Ellisia Nakai
(Choctaw/Navajo)
Student

Arcadia High School

This working presentation/discussion is designed to invite other youth and professionals into a conversation about the importance of traditional foods to Native health and our environment. We will discuss research which has been performed, projects we can do to assist, like urban gardening and produce distribution. Additional conversation will focus on research which should and could be done, even by high school students, that can be further expanded upon within a university setting. Why such efforts are important to preserving the health and welfare of our communities and opportunities to explore them will be a key focus of the interactive dialogue.

Resources! Recruitment! Retention!

Stacy Thacker
(Navajo)
Engagement Officer
AISES

Resources! Recruitment! Retention!

Find the three "R's" in this session with AISES Engagement Officer Stacy Thacker and learn new approaches to building and strengthening your program. This question-and-answer session is open to everyone and will include program information for developing chapters, building, and retaining membership while growing participation. This session will also include student representatives who will share their experiences and advice on creating and maintaining a successful chapter. Come and learn why an AISES chapter can make a difference in your community. Don't have a chapter? No problem! This session will help you build a network of contacts and information to guide you on a successful path in STEM.

Resume Room

The Resume Room will be available to students on Thursday and Friday. Come fine-tune your resume and upload it to the AISES resume database (Career Hub) as well as distribute it at the AISES College and Career Fair. The room is equipped with computers, printers and staffed with professional volunteers to answer questions about resume development.



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Sequoyah Fellows Breakfast (RSVP required and Invitation Only)

This breakfast is held to honor the AISES Sequoyah members and to celebrate and welcome new, lifetime Sequoyah members.

Showcase of Computer Science Opportunities at the Department of Energy and Its National Laboratories

Trina Bilal

Program Manager
Department of Energy

Key leaders within DOE and the DOE National Laboratories will showcase opportunities that are available in support of computer science.

State of AISES

Join AISES Chief Executive Officer, Sarah EchoHawk, as she gives an overview of the organization.

STEM Activity Day sponsored by The Boeing Company (Registration Required)

This fun, interactive day of activities will include hands-on STEM-themed ideas and challenges. Start your AISES National Conference off right with a full afternoon of STEM activities and information. This event is sponsored by The Boeing Company and include chances to win great prizes! STEM Activity Day will feature a Marketplace where middle school and high school students can learn more about AISES pre-college opportunities and gain valuable professional development skills such as resume building, college application tips, AISES opportunities and more! Target Audience: Middle school and high school students and chaperones.

Moon Habits

Sara Torres

EPDC Education Specialist
NASA Ames Research Center

Monica Uribe

EPDC Education Specialist
NASA Armstrong Flight Research Center

Join NASA EPDC Education Specialists to utilize the engineering design process in designing and creating a model of a moon habitat using recyclable materials. By returning to the Moon to explore in a more sustainable way, future robotics and human explorers will put in place infrastructure for a long-term sustainable presence on the Moon. On the surface astronauts will conduct more science such as test advanced robotics and a wide set of new technologies and stay for longer on the

surface. Advancing these technologies could enable the production of fuel, water, and/or oxygen from local materials, enabling sustainable surface operations. Come join in the designing, building, and creating your own moon habitat.

Sling Shot Car Project

Heather Heckler

(Brothertown Indian Nation)
Sr. Industrial Engineer
General Motors

Hands on exercise to build a slingshot car. Build a slingshot car in a small team. It is an excellent introductory project to illustrate how potential energy is converted into kinetic energy, and the importance of low friction.

Meshing Together

Angela Teeple

(Bay Mills Indian Community)
Nuclear Effects Analyst
Air Force Nuclear Weapons Center

Digital communications enables communities to share culture and ideas over great distance, but they are not yet available everywhere equally. Mesh networks enable people to provide and build their own digital communication. While there are limits and challenges to effective mesh networks, there is opportunity for people to help themselves and establish digital communication as a community project connecting neighbors both near and far. This demo introduces the basics and hands on experience on the challenge and reward of building a mesh-local with commonly available equipment. This learning experience will demonstrate the basics of mesh networking and the challenges of deployment. It's hoped that it inspires the inquisitive to explore how this technology is a benefit to all.

Circle Vs. Square: Which is Better? Roundabouts vs. All-Way Stop-Controlled Intersections

Dr. Beverly Thompson Kuhn

Division Head, Senior Research Engineer
Texas A&M Transportation Institute

Dr. Kohinoor Kar

Transportation Engineer Manager, Grant Coordination
Arizona Department of Transportation

Traffic engineering and design impact everyone! Have you ever wondered why transportation professionals design intersections the way they do? Do you know why one might be better than another? This session will give you a glimpse into our world. You will "be the vehicle" and learn how to navigate through various intersection types to compare and contrast them from the traveler's

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perspective. Participants will learn the general rules of the road for various intersection types and have the opportunity to “drive” through them using assigned navigation cards. Their driving activity will be monitored by other participants, and their assignments will also be complicated with the addition of “large trucks”, “bicycles”, pedestrians, and more (ALL users. They will be asked to share what they learned from the experience at the end of the activity and discuss their observations about efficiency, safety, challenges, and other issues that they consider important.

Voices to Congress: Video Booth and Collaborative

Joseph Alessi

Director

Congressional App Challenge

Since 2013, Members of the U.S. House of Representatives have challenged pre-college students in their Districts to create original software applications or “apps” as a part of the Congressional App Challenge (CAC). This annual event promotes awareness of STEM, coding, and computer science while also exposing students to emerging technologies and careers options. As a program, we are deeply invested in providing a pathway for underserved communities in tech. In this session we will set up a video booth where students can record messages to tell Congress why they should support Indigenous students in STEM. Students can then work collaboratively using HTML5, CSS, and Java Script to create a web app to host and deliver the videos directly to Congressional Staff. Our goal is to give students hands-on experience with coding software and bridge the gap between the Indigenous community and Congress.

DreamLearners

Stephen West

(Cherokee)

Engineering Technical Specialist

The Boeing Company

The paper airplane competition divides students into teams to design, build and fly an airplane – all on schedule and within budget. Just as in the Boeing production system, each student has a specific role to play that contributes to the team’s success, be it mechanic, finance manager, engineer, supplier management, or pilot.

Each team is tasked with choosing a design, building and flying an airplane in a competition flight.

Competition is for the longest flight by team pilot of team constructed plane.

Teams must stay under budget (or competition flight distance penalty).

Each team member is given a specific role and responsibilities.

Rube Goldberg Machine

Michael McBride

Nina Loughman

Students will be divided into teams of five and given materials to build a Rube Goldberg machine. This activity introduces the concept of simple machines. The machine should be built with a minimum of three steps and must squeeze toothpaste onto a toothbrush. Students are challenged to integrate an electrical and materials component (i.e. DC motor and water).

Agenda:

Introduction (10 min) (What is a Rube Goldberg Machine?)

Building (30 min) (Students work in teams)

Testing and Recap (10 min) (Test and share machines)

Cleanup and Reset (10 min) (Reset for next round of activities)

Materials:

- Balsa wood
- Duct tape
- DC motor with fan
- PCV pipe
- Balloons
- Paper
- Marbles
- Gold Ball
- Plastic cups
- Water bottle with water
- Toothpaste
- Toothbrush

Activity Evaluation:

1. Simple - range of ages
2. Versatile (students can join/leave)
3. Engaging (fun, visually engaging)
4. Beginner (activity is good for beginner/expert)



STEM DAY



SESSION DESCRIPTIONS

Planting Our STEM Story

Anna Bahnson

Tribal Science Outreach Coordinator
United Tribes Technical College

Kimberlee Blevins

(Mandan, Hidatsa, Arikara)
Graduate Student
Sitting Bull College

Ayanna Maynard

(Cheyenne River Sioux)
Student
United Tribes Technical College

Come engage in an activity that integrates Indigenous traditional culture through the scientific method and storytelling. You will be able to design an investigation through a technique known as three sisters planting and learn how traditional STEM knowledge combines with modern STEM opportunities. You will see how being a scientist is not a new or foreign concept for Indigenous people nor is it specific to a certain Tribe. Participants leave with their own planting kit.

Office of Legacy Management Radiation 101

Jennifer Grossheim Harris

Public Affairs Lead to the Navajo Nation
Department of Energy Office of Legacy Management Contractor

Shawn Montgomery

Senior Public Affairs Specialist
Department of Energy Office of Legacy Management

Did you know bananas are radioactive? Radiation is all around us. It emits from sources like the sun, rocks and soils, and other naturally radioactive materials like bananas.

At the Department of Energy Office of Legacy Management's 'Radiation and You' booth, students will learn what radiation is, where it comes from and understand dose and regulatory limits. They'll also learn that radiation can be helpful when used in medicine, clean energy production, and even in space exploration! The interactive booth includes common items, like smoke detectors, that can be scanned with a radiation detector and personal protective gear that can be used to take a 'Rad' selfie.

AISES Marketplace: AISES Pre-College Opportunities

Marie Casao

(Narragansett Tribe)
Program Officer
AISES

Rennea Howell

(Quapaw Tribe of Oklahoma)
Program Officer
AISES

The AISES STEM Activity Day Marketplace booth will feature AISES Pre-College opportunities from science fairs to scholarship applications. Students will learn how to engage in STEM research, prepare for college, and access AISES resources made specifically for them. Come visit with the AISES staff!

Student Awards Luncheon sponsored by Jake Kent Cooke Foundation, National Security Agency, and the Department of Air Force (Registration Required)

This event is available exclusively to students. This event honors the astounding STEM talent at AISES from students to researchers, and interns to scholars, as well as the exemplary chapters who power, connect, and elevate the AISES mission.

Student Orientation sponsored by The Boeing Company

This mandatory meeting for ALL students is where it's at! Come learn what to expect at the 2021 AISES National Conference and what is expected of you in return! We'll also discuss how to make the most of your experience at this year's conference.

Student Social Event (DJ and Dance)

This fun filled social event will include networking, entertainment and dancing!

Student Study Lounge

Students...do you need a quiet place and some time to study? Need a bit of relaxation? All students are invited to use this room to unwind. Wi-Fi provided.



SESSION DESCRIPTIONS

Supporting Indigenous Students in Research (MS/HS focus) through NAISEF and Energy Challenge

Rennea Howell

(Quapaw Tribe of Oklahoma)

Program Officer

AISES

This session is meant to introduce the 2021-2022 Energy Challenge and National American Indian Science and Engineering Fair (NAISEF) and help support teachers and students interested in research.

The Energy Challenge is an energy-specific science fair that focuses on increasing middle school and high school student research in science and engineering.

AISES staff will also be promoting NAISEF and providing tools and useful information to support teachers and students who wish to participate.

Participants will walk through the process of submitting a project—from brainstorming research concepts to gathering and organizing data to presenting findings and the judging process.

Join us if you want to learn more about student research and AISES opportunities!

Supporting the Gila River Indian Community with a Modern Commitment to Irrigation

David Phelps

Senior Project Engineer

Stantec

Adam Leggett

(Native Village of Eklutna)

Alaska Native Program Manager

Stantec

For more than 44 years, Stantec has helped the Gila River Indian Community with agricultural and water resources development in support of increasing capacity for agricultural irrigation on Community land. The local Community was in great need of irrigation infrastructure to maximize farming opportunities. As a result, the Gila River Indian Community has worked towards a sustainable and resilient irrigation system, reinforcing agriculture as a cornerstone of the Akimel O'otham and Pee Posh culture. Our work has increased farming potential, supporting job and economic growth.

Stantec proposes sharing case studies of our work designing and developing several irrigation systems for the Community, which are still functioning today. Our interactive presentation will focus on the tangible impacts our work has had on the local Indigenous community,

supporting a vision for a sustainable, vibrant life for its residents.

Teaching Heritage To Artificial Intelligence Through Storytelling

Tracy Monteith

(Eastern Band of Cherokee)

Senior Software Embedded Engineer

Microsoft

Davar Ardalan

CEO & Chief Storytelling Officer

IVOW *(Intelligent Voices of Wisdom)*

AI is reshaping society and changing how we live, learn, and work. In this talk, I'll focus on well-documented gender biases in AI and machine learning datasets, and illustrate the power of storytelling in helping machines learn about the pioneering roles of women today and yesterday. IVOW's digital storyteller Sina is a young conversational AI, now a prototype on Google Assistant. She loves learning about human history and then sharing those stories with others. That's what gives Sina purpose. Go ahead, ask Sina to tell you about a recipe from Cherokee or Navajo traditions.

The Future is NOW!!

Michael Gordon

Buick & GMC Zone Manager – Mountain/Desert

General Motors (West Region)

It's an exciting time to be in the automotive industry! Electric and autonomous vehicles from GM are already leading the way to a world of zero crashes, zero emissions, and zero congestion. Learn of the wide variety of career opportunities in the automotive industry for yourself and maybe even your family members. Go beyond the traditional engineering jobs commonly associated with automotive and use your education and skills in ways that are not typically thought of. Presenter Michael Gordon will share valuable information on scholarships, resources, and programs available to the openminded student or professional with a STEM or business background.

The Good Road of Life

Dr. Clayton Small

(Northern Cheyenne)

CEO

Native PRIDE

Theme: Effective culture and resilience based curricula for supporting students.

Objectives:

1. Participants will experience interactive culture and resilience based curricula.



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2. Participants will have opportunity to address wellness and leadership development.
3. Participants will increase awareness about being trauma-informed and a therapeutic model for students.

This highly interactive and fun session will create a safe place for educators, administrators, students and support personnel to experience culture and resilience based approaches that support student retention, graduation and walking into the light of goodness intended for AISES students. Strengthening cultural resilience means using our Native culture, spirituality, ceremonies and humor to overcome trauma, threats, tragedy and other stresses in our lives. This is an opportunity for participants to “let go” strong feelings associated with the trauma and losses witnessed and experienced from the ongoing COVID 19 pandemic and other stresses.

The Wireless Potential of Native Nations: Notes from the First Tribal Wireless Bootcamp

H. Rose Trostle (they, them, theirs)
(Cherokee Nation)

Research Professional FSC
American Indian Policy Institute, Arizona State University

In this session, H. Trostle describes the first ever Tribal Wireless Bootcamp. Participants at the bootcamp learned the potential of 2.5GHz licenses and LTE technology. Learn about the replicability of the bootcamp and how Native Nations are building Internet service for themselves. The Internet Society supported the bootcamp.

Things to know about the Security Clearance Process

Pierre Brown
Security Specialist II
Honeywell FM&T

Are you considering a job that requires a security clearance? Come to this session to learn about the process of applying for a security clearance, automatic dis-qualifiers and what the investigation will entail and what happens after we submit your security clearance. Pierre has 10 years of experience as a security clearance investigator.

Together Towards Tomorrow – Indigenous Futures Survey Examines Perceptions, Opinions and Priorities Across Indian Country

Kris Rhodes

(*Bad River & Fond du Lac Bands of Lake Superior Chippewa*)
Indigenous Futures Survey Project Manager
IllumiNative

The 2020 Indigenous Futures Survey was the first ever study aimed at understanding the priorities of Native communities in the U.S. conducted for Native People and led by Native People. IFS sought to understand how we think about ourselves, what we find important, and what galvanizes us to make change; to give Indigenous Peoples a platform; and to hold politicians, educators, policy makers, and researchers accountable to hear our collective voice, precluding them from claiming a dearth of data.

IFS2020 was conducted by researchers at the University of Michigan and the University of California, Berkeley in partnership with the Center for Native American Youth, IllumiNative, and Native Organizers Alliance. Over 6,400 Native people from across the country participated, representing 401 tribes and all 50 states with a diverse representative sample across age, gender and geography. Learn more about the 2020 survey, and add your voice in 2021 and beyond.

Together Towards Tomorrow Talking Circle

Circles provide space to open up fresh possibilities for connections, collaboration and understanding. Circles can hold the tensions and emotions that contribute to healing and can support people to use the collective energy to take action. It is an opportunity to express your conference experience with complete freedom. It is an effective way to remove barriers and feel the support and energy of all other participants during this moving experience. This year we are combining the Men's, Women's, and LGBTQ+ circles in honor of the conference theme of Together Towards Tomorrow. All are welcome!

Traditional Indigenous Technology

Randy Herrmann
(*Manitoba Metis Nation*)
Professional Engineer
University of Manitoba

The session will highlight the wonders of precolonial traditional technology demonstrating the high level of engineering and science used by pre-contact traditional peoples of North and South America. The presentation will focus on examples from North America and will include



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metal working, agriculture, transportation, trade routes, and the wonderful pre-contact civilization of Cahokia. A PowerPoint presentation utilizing pictures of traditional technologies will be the format of the presentation. A short question period after the presentation will also be available.

Traditional Native Social Powwow

Rock your Mocs and join us for what has become our most popular tradition! Open to all!

Tribal Cultural Revitalization in Computer Science: Connecting Traditional Knowledges with Core Computing Concepts

Frieda McAlear

(Inupiaq)

Senior Research Associate
Kapor Center

Dr. Kathy DeerInWater

(Cherokee)

Chief Program Officer
AISES

Marie Casao

(Narragansett Tribe)

Program Officer
AISES

Rebecca Luebker

(Cherokee)

Social Science Chair
Haas Hall Academy

Recent initiatives like the Equitable Computer Science Initiative (Kapor Center, 2021) and CSforAll have emphasized the importance of culturally responsive and sustaining CS courses that engage and support the computing aspirations of Black and other indigenous students. However ongoing colonization and assimilation policies have erased and attempted to destroy many of the traditional cultures of indigenous and Native American tribes. This panel will discuss a tribe-specific, girl-focused cultural revitalization framework for computing education currently implemented in a sequence of project based CS courses in two Native-serving schools. Panelists will discuss the development of the cultural revitalization framework and curricula, including working with tribal culture bearers to co-develop projects that relate to traditional knowledges and ways of thinking and knowing while being sensitive to tribal protocols about which knowledges are appropriate to share in a CS classroom setting. Participants will learn best practices developing cultural revitalization curricula within STEM subjects.

Tribal Nations Advisory Council (TNAC) Meeting

The TNAC of AISES consists of representatives from Tribal Nations in the United States and Canada. The primary role of the TNAC is to advise AISES on issues of relevance and importance to Tribal Nations. In addition, the TNAC also works to assist AISES in creating opportunities for Tribal Nations and their citizens, and to support the AISES' mission of substantially increasing the representation of Indigenous Peoples of North America in Science, Technology, Engineering, and Math.

The Tribal Nations Advisory Council:

- Advises AISES on issues important to tribal AISES chapters and their members.
- Participates in and supports AISES events through sponsorships, presentations, and providing career information and resources.
- Assists in the formation and development of Tribal AISES Chapters.
- Encourages K-12 Tribal educator and student participation in AISES programming.
- Provides scholarships, internship programs, and/or employment opportunities.
- Provides expertise and guidance related to current/projected employment trends and needs in Tribal communities.
- Develops tribal support for AISES including financial contributions, in-kind gifts, and human resources.
- Assists AISES in fundraising efforts through networking and participation.
- Serves as a liaison between Tribal Nations and AISES.
- Provides networking opportunities for tribal AISES chapters and members.
- Serves as an advocate to publicize content in Winds of Change Magazine and on the AISES website to represent Tribal Nations.
- Represents the TNAC at regularly scheduled AISES Board meetings by sending at least one co-chair.
- Provides input to AISES National Conference proceedings to increase relevance for Tribal Nations.
- Promotes, assists, and supports AISES in hosting a gathering of Tribal Nations' representatives at the AISES National Conference and other Native-focused events.

If you are interested in joining the Tribal Nations Advisory Council, please contact Shayna Gutierrez, Tribal and Business Development Officer at sgutierrez@aises.org.



SESSION DESCRIPTIONS

US National College Student Caucus

AISES College students are invited to attend this Caucus to vote on their next U.S. Junior National Student Representative. There is also the chance to meet their Regional Student Representative and hear what is important for AISES College Student members to know. This is a college student event, and while professional members and corporate partners are welcome to attend as observers, they are not eligible to vote and do not have presenting privileges.

Veterans' Gathering

This session is for Veterans who seek to address their specific issues as they seek guidance/ assistance in either their path to STEM education or finding opportunities in STEM upon completion of their service obligation. It is also for our partners who wish to support and hire skilled, brave and honorable individuals who have served our country.

Walking in Two Worlds as a Native STEM Federal Government Employee

Michelle Larson

(Minnesota Chippewa (Leech Lake Band of Ojibwe))

Senior Hydraulic Engineer

US Army Corps of Engineers

Panel Discussion with AISES STEM members of Federal Government Agencies.

AISES members are a small percent of STEM employees at federal government agencies. We have a unique perspective to bring to STEM in the federal government. Panel members will share their views on some of the following topics:

How can I assist Tribes in my role as a federal government employee?

What are the benefits of working for the federal government as a STEM professional?

What kinds of opportunities does your agency have for career growth and/or leadership development?

How does your agency cooperate and collaborate with other federal government agencies?

Has the appointment of Deb Haaland as the US Secretary of the Interior affected the way your agency approaches tribal community interactions?

What STEM fields are hired by your agency and how do you get a job?

What opportunities do you have for STEM students?

Wawatay Program

Dennis Ballard

Program Lead

University of Manitoba

The University of Manitoba's Faculty of Science "Wawatay Program" aims to recruit, retain and graduate Indigenous students in the Sciences. Participants will have a unique opportunity to access resources they may not have access to in order to succeed in the sciences.

The program would involve several custom support mechanisms to help Indigenous students develop the necessary skills to be successful in the sciences programs. Wawatay is not a special degree; the intent is to ensure there is no difference in the type of science degree Wawatay students receive to those in other science programs.

In order to maintain a relationship between the Universities, the Indigenous communities, the students and their home communities, students will take part in active research and community projects.

Throughout their journey Wawatay students will have an opportunity to acquire employable skills that will also enhance their education and experience at the University of Manitoba.

What Does a Small Animal Veterinarian Do?

Dr. Madeline Anna

(Choctaw/Delaware)

Veterinarian

VCA

Have you ever considered becoming a veterinarian? Attend this session to learn more about a typical day in the life of a small animal veterinarian. Our day starts with a few surgical cases such as neutering a dog and removing teeth from a cat. Then we move on to wellness and sick pet appointments in the afternoon. Oh no, an emergency case has arrived! We will cover the skills needed to handle all of these situations and more in order to be a successful veterinarian. Other career paths available to veterinarians will also be briefly discussed. Veterinary medicine can be a rewarding career path for the scientifically minded leaders who enjoy helping people, animals and the planet.



Are you interested in serving AISES as a member of the Board of Directors?

AISES is seeking nominations for Board of Directors positions for 2022.

As a member of the AISES Board of Directors, you will support and guide the direction of AISES. The Board of Directors are expected to understand, know, endorse, and advocate for the mission of AISES as well as attend and participate in all Board of Director's meetings (3 hours quarterly), serve and engage in AISES Board of Director's Committees (approximately 3 to 5 hours monthly), and provide fiscal oversight as part of the Board of Director's overall fiduciary responsibilities to the organization. Nonprofit board members have the legal responsibility to meet the duties of care and loyalty and be faithful to the organization's mission.

If you are a member of AISES in good standing and are willing to commit significant time and engagement, we welcome you to self-nominate or nominate other AISES members to run for a seat on the AISES Board of Directors. For more information about the responsibilities of serving on the AISES Board of Directors please see <https://www.aises.org/sites/default/files/Basic-responsibilities-of-nonprofi-boards.pdf>.

The AISES Board of Directors meet quarterly and serve on AISES Board Committees. All Board members are expected to attend and engage in all Board and Committee meetings.

Nominations will open on May 1, 2022 for five (5) open Board seats one (1) Associate Member and four (4) General Members. Nomination forms are available at <https://forms.aises.org>. Per AISES Bylaws, AISES must receive one additional candidate nominated over the total number of vacancies. As such, for 2022, we are seeking at least six (6) nominations.

For more information, please contact AISES at nominations@aises.org

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