

# National AISES Conference



2019 AISES National Conference

## PROGRAM

October 10-12, 2019

Wisconsin Center

Milwaukee, Wisconsin

<http://conference.aises.org>

#AISESNC19

Indigenizing  
the Future  
of **STEM**





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Mark Harding (*Mashpee Wampanoag*), Next7

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Alicia Ortega (*Pojoaque Pueblo*), All Pueblo  
Council of Governors

Gary Santos (*Tule River*), Tule River Indian  
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Ojibwe*)

Antoinelle Benally Thompson (*Navajo*)

Steve Darden (*Navajo/Cheyenne/Swedish*)

Rose Darden (*Ute*)

Norbert Hill, Jr. (*Oneida*)

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

Stan Lucero (*Laguna Pueblo*)

Cecelia Lucero (*Acoma Pueblo*)

Dr. Henrietta Mann (*Southern Cheyenne*)

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

### Council of Elders Emeriti

Andrea Axtell (*Nez Perce*)

Mary Kahn (*Navajo*)

### Council of Elders in Memoriam

Horace Axtell (*Nez Perce*)

Eddie Box, Sr. (*Southern Ute*)

Franklin Kahn (*Navajo*)

Bow Lane (*Chickasaw*)

Phil Lane, Sr. (*Yankton Sioux*)

Dr. James May (*United Keetoowah Band*)

Dr. Lee Piper (*Cherokee*)

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Kristina Halona (*Navajo*)

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### Student Representatives

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#### Region 3

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#### Region 4

Adarius Begay (*Navajo*), University of  
Oklahoma

#### Region 5

Makayla Mather (*Tlingit and Haida Indian Tribes  
of Alaska*), University of North Dakota

#### Region 6

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

#### Region 7

McKalee Steen (*Cherokee Nation*), Vanderbilt  
University

#### US Sr. National Rep

Steven Just (*Sisseton-Wahpeton*), University of  
Minnesota-Duluth

#### US Jr. National Rep

Jayne Sandoval (*Navajo*), Northern Arizona  
University

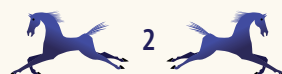
#### Canadian Sr. National Rep

Brielle Thorsen (*Saddle Lake Cree Nation*),  
Queen's University

#### Canadian Jr. National Rep

Jacob Calderone (*Fort Nelson First Nation*),  
Queen's University

# Indigenizing the Future <sup>of</sup> STEM





## 2019 AISES National Conference

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## In Memoriam

AISES has many paths crossing at the intersection of life. This year, we acknowledge three brilliant family members who are now the heartbeat between this world and the next. We are grateful for their generosity, attention and kindness, and the presence of their spirit in this material world.

### Everett F. Chavez

Governor Chavez, who passed away last December was former superintendent of the Santa Fe Indian School and three-time governor of Kewa (formerly Santo Domingo) Pueblo. Governor Chavez was a national leader in advancing educational opportunities for Native students. He was also a former AISES executive director and recipient of the Ely S. Parker Award, the highest AISES honor. Memorial contributions may be made to the Everett Chavez Scholarship Fund at [aises.org](http://aises.org).

### Dr. James H. May

Council of Elders member Dr. James H. May passed away last December. Known to most people as Jim, he was a member of the United Keetoowah Band of Cherokee Indians who served AISES in many ways over many years. He received numerous awards and honors over his long career, but he was particularly proud of the AISES Ely S. Parker Award. His career involved several academic appointments, including first dean of instruction and founding dean of science, technology, and information resources at California State University at Monterey Bay. Unfailingly friend, open and unassuming, Dr. May was eager to know everyone he met. Our sincere condolences to his wife, Margit and his entire family.

### Leslie Qöyawayma

Sequoyah Fellow Leslie Qöyawayma died in May 2019 in Prescott Ariz. A strong supporter of AISES, Leslie was involved from the early days of the organization. Along with her husband, Al, a founding AISES member, she hosted early meetings and helped design the AISES logo and conference banners. The AISES family sends condolences to Al and the Qöyawayma family. Memorial contributions may be made to the Leslie Qöyawayma Scholarship Fund at [aises.org](http://aises.org).





# 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 2019 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 & 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 prohibited 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.

## Community Partners

AISES would like to express its gratitude for the efforts of the local community partners who organized the conference powwow, all the ceremony singers, and drum groups.

- ▶ Robin Carufel
- ▶ Mark Denning
- ▶ Anne Egan Waukau

Special thanks for connecting AISES to these wonderful community partners.

### **Jacqueline Fontaine Schram**

Director of Public Affairs and Special Assistant for Native American Affairs  
Office of Public Affairs  
Marquette University

## Volunteer Coordinator

To one of many new AISES supporters, welcome to the family! Thank you for volunteering for the entire conference to ensure that all the volunteers were taken care of!

### **Cheryl Cavanagh**

Sales Operations Director  
Dualos





# Tony Evers

Office of the Governor | State of Wisconsin

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## Greetings Conference Participants:

It is an honor and a pleasure to welcome you to Milwaukee for the 2019 American Indian Science and Engineering Society (AISES) National Conference. I also want to extend special greetings to the AISES Board of Directors, staff, and the over 2,300 members and guests at this year's event.

While you are here, I hope you will join me in acknowledging and respecting the Potawatomi as the original inhabitants of the land. The Potawatomi contribute endlessly to this area and to our entire state — as do the other Native Nations of Wisconsin.

As you may know, Wisconsin is home to 11 federally recognized tribal nations and tribal communities, as well as the State-Tribal Consultation Initiative, which recognizes the importance of intergovernmental interaction and establishes a framework for collaboration between tribal communities and the state agencies in the Governor's cabinet. Like AISES, the State of Wisconsin recognizes that building partnerships better shapes our shared vision for the future, and better prepares each of us for success.

Additionally, Wisconsin is home to some of the biggest Fortune 500 and Fortune 1000 companies in agriculture, manufacturing, energy, retail, sales, and financial security and services. Each of these companies and industries requires a steady pipeline of STEM talent, positioning STEM as a burgeoning field in Wisconsin and throughout the United States. Whether it is coding, robotics, research, or data, it is up to all of us to build the next generation of problem solvers and innovators.

This year's conference theme, "Indigenizing the Future of STEM," is a frontline call to professionals and educators everywhere to continue to build long-lasting partnerships, to create gateways to STEM educations and careers for students of all backgrounds, and to embrace the countless possibilities STEM has to offer. I hope this year's unique convergence of networking, learning, and fun inspires you to realize your own path forward in a STEM education and career, and that you will have an opportunity to enjoy the many sights, sounds, and tastes that Milwaukee has to offer.

Thanks again for visiting Wisconsin – we hope you enjoy your stay and come back soon.

Sincerely,

A handwritten signature in cursive script that reads 'Tony Evers'.

Tony Evers  
Governor



**Tom Barrett**  
Mayor, City of Milwaukee

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October 10, 2019

GREETINGS!

On behalf of the City of Milwaukee, I would like to extend a warm welcome to all the attendees of the 2019 American Indian Science and Engineering Society (AISES) National Conference held October 10-12, 2019. I commend AISES for its commitment to increasing the representation of American Indians, Alaska Natives, Native Hawaiians, First Nations, Pacific Islanders and other indigenous peoples in North America in science, technology, engineering and math (STEM) careers and studies.

Milwaukee's exciting attractions and lively downtown area, combined with its renowned warmth and hospitality, assure all participants of a memorable visit. Be sure to take in the beauty of Milwaukee's lakefront, our award-winning RiverWalk and our breathtaking County Parks. You will want to check out the exciting new \$524 million Fiserv Forum, which is the spectacular home to the Milwaukee Bucks. Along beautiful Lake Michigan, the magnificent kinetic "wings" of the lakeside Milwaukee Art Museum welcome all to experience its world-class collections.

You will find lively entertainment, acclaimed brewery tours and a delicious array of dining options throughout the City. Don't miss out on the opportunity to take a ride on "The Hop" to visit the Milwaukee Public Market in the Historic Third Ward, featuring everything from locally made chocolates to spices, wine and seafood. The unique neighborhoods of Old World Third Street, Walker's Point, Brady Street and Dr. Martin Luther King Jr. Drive all invite you to experience the City's rich cultural tradition and diversity.

I hope you have the opportunity to explore Milwaukee and see all our City has to offer. Best wishes on a successful conference!

Sincerely,

A handwritten signature in black ink that reads "Tom Barrett". The signature is fluid and cursive.

Tom Barrett  
Mayor



## AMERICAN INDIAN SCIENCE AND ENGINEERING SOCIETY

Welcome to Milwaukee and the 2019 American Indian Science and Engineering Society's National Conference!

We could not be more excited about the 2019 AISES National Conference – Indigenizing the Future of STEM – happening in the City of Milwaukee on the western shores of Lake Michigan. We acknowledge the Indigenous presence and history of this land, and we are honored to hold our 41<sup>st</sup> annual AISES National Conference in this area with diverse cultures, traditions, food, and arts and crafts.

The 2019 AISES National Conference is our premier annual event, with top-notch educational sessions, research and professional opportunities, and ample social events over the course of three busy days. Be sure to read through the pages of this program to discover all there is to see, do and learn while at the National Conference.

Here are some highlights:

- Over 100 sessions in five topic-focused areas, workshops and talking circles.
- Over 60 companies exhibiting at Indian Country's largest college and career fair.
- Keynote conversation with recognized author and philanthropy executive, Edgar Villanueva on the economic and societal importance of diversity, equity, and inclusion across all sectors.
- Many AISES Leadership and Advisory Council meetings.
- Industry Partner/University Site tours to Marquette University, Carthage College, and Data Holdings.
- AISES Resume Room to polish your resume to distribute at the Conference.
- A talented Indigenous female leader, Lillian Sparks Robinson who is this year's master of ceremonies.
- Networking events to get right down to business on the opening day to reconnect with friends.
- Closing Banquet with Native American dancer and innovative hip hop artist Supaman.
- A Mobile App to help you plan your conference and manage your daily schedule.

AISES has witnessed extraordinary growth, which has in turn led to more and more communities across North America becoming connected and unified in the AISES mission. We are always looking for ways to better communicate between the diverse AISES audiences in order to build momentum and excitement about science, technology, engineering and math opportunities. We are continually focused on best practices of STEM leadership and the 2019 AISES National Conference is an excellent place to expand your networks; learn about the latest STEM trends, and return to your studies or careers with increased knowledge and confidence, along with a greater sense of STEM's role and future for Indigenous students and practitioners.

With so much to do and see, be sure to use your time wisely at the Conference. The conference is an amazing opportunity to come together with other professionals to discuss the advancements in your field. Visit the College and Career Fair to source new products, and forge partnerships that we hope will result in increased growth opportunities.

We look forward to meeting all of you at the 2019 AISES National Conference and hope this is the beginning of many connections and friendships that will last for years to come.

Best wishes for a rewarding conference and a great stay in Milwaukee. Thank you!

Sincerely,

Rick Stephens  
AISES Board Chair

Sarah EchoHawk  
AISES CEO







# 2019 AISES National Conference Opening Ceremony

Panel Discussion: "Building a Stronger Workforce: The Value of Diversity, Equity, and Inclusion"

## Distinguished Panelists:



W.K.  
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FOUNDATION®

**Cynthia Muller**, Director, Mission Investment, W.K. Kellogg Foundation



**Rhonda James**, Senior Program Manager, Global Diversity and Inclusion, Intel Corporation



U.S. DEPARTMENT OF  
**ENERGY**

**James E. Campos**, Director, Office of Economic Impact and Diversity, United States Department of Energy



**Rita Sampson**, Chief of Equal Employment Opportunity and Diversity, Office of the Director of National Intelligence



**Kathleen "KJ" Jolivette**, Vice President of Attack Helicopter Programs and Senior Site Executive for The Boeing Company in Mesa, Arizona

## Keynote Speaker

### Edgar Villanueva

The American Indian Science and Engineering Society (AISES) has announced that globally recognized author and philanthropy executive Edgar Villanueva will participate in a keynote conversation with AISES CEO Sarah EchoHawk during the opening ceremony of the 2019 AISES National Conference, scheduled for Thursday, October 10. More than 2,300 student and professional leaders and innovators who are shaping the future of science, technology, engineering, and technology (STEM) education and careers for Native people are expected to attend this year's conference, October 10–12, at the Wisconsin Center in Milwaukee.

Villanueva will provide insights into the major imbalances that exist in society. In his newest book *Decolonizing Wealth*, he offers compelling alternatives to the dynamics of colonization in the philanthropic and social finance sectors, pointing out that diversity in philanthropy is inadequate and more resources are needed in communities of color.

"The keynote conversation with Mr. Villanueva will be the perfect kickoff for this year's conference," says EchoHawk. "His insights can be applied broadly across all sectors to elevate and inform the current dialogue







around the economic and societal importance of diversity, equity, and inclusion (DEI). Organizations like AISES, which focus on DEI in workforce development, have found a valuable advocate in Mr. Villanueva.”

Immediately following the keynote conversation, there will be a panel discussion with top executives about the business case for DEI. “DEI is not something companies, institutions, and agencies should be doing as ‘charity,’” says EchoHawk. “DEI is in fact a key strategy for ensuring long-term innovation and economic growth across all sectors. At AISES we understand the business case for DEI and are proud to support STEM education and career development for Native people.”

A leader with impressive experience, Villanueva oversees grant investment and capacity-building supports for education-focused justice campaigns across the United States. He is vice president of programs and advocacy at the Schott Foundation for Public Education, and currently serves as chair of the board of directors of Native Americans in Philanthropy and is a board member of the Andrus Family Fund and the NDN Collective.

Villanueva holds two degrees from the Gillings Global School of Public Health at the University of North Carolina at Chapel Hill. He is an enrolled member of the Lumbee Tribe of North Carolina and lives in Brooklyn, N.Y.

## Master of Ceremonies

### Lillian Sparks Robinson

Albuquerque, N.M. — The American Indian Science and Engineering Society (AISES) is honored to announce that Lillian Sparks Robinson, CEO and owner of Wopila Consulting, LLC, will serve as the master of ceremonies for the 2019 AISES National Conference, October 10–12, at the Wisconsin Center in Milwaukee. An internationally recognized Indigenous leader, Lillian brings substantial experience in working with large groups and keeping major events running smoothly to this year’s conference. With her inimitable style she will ensure that the more than 2,300 leaders and innovators in science, technology, engineering and math (STEM) expected at this year’s conference are well informed and on schedule.



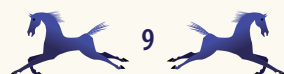
A member of the Rosebud Sioux Tribe, Lillian has worked in Washington, D.C., for nearly 20 years, devoting her career to supporting the educational pursuits of Native American students, protecting the rights of Indigenous people, and empowering tribal communities. In 2010, Lillian was appointed by President Obama, and confirmed by the U.S. Senate, to serve as commissioner for the Department of Health and Human Services Administration for Native Americans. In this role she worked on programs and policy, including impacting Native languages, education, and social and economic development for American Indian, Alaska Native, Native Hawaiian, and Pacific Islander communities.

Prior to her service at ANA, Lillian served as the executive director of the National Indian Education Association, where she focused on education policy and appropriations impacting Indigenous students. A former staff attorney at the National Congress of American Indians, Lillian has received numerous awards and recognitions, including being named one of seven young Native American Leaders by USA Today Magazine, one of “40 Under 40” by the National Center for American Indian Enterprise Development, and American Indian Woman of the Year by TK.

As the master of ceremonies, Lillian will assist AISES in celebrating its 41st year of providing STEM programs, scholarships, internships, and services to students and professionals. This year’s theme – Indigenous the Future of STEM — drives home the AISES mission of providing STEM opportunities and initiatives in a more modern, technical, and innovation-dependent world.

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

“AISES is excited to partner with Lillian because she has been a strong advocate and bold leader for Indigenous peoples and their communities her entire career,” says Sarah EchoHawk, AISES CEO.





# Entertainment

## Supaman is the Closing Banquet Entertainer!

Christian Takes Gun Parrish is “Supaman”, a Native American dancer and innovative hip hop artist who has dedicated his life to empowering and spreading a message of hope, pride and resilience through his original art form. A member of the Apsaalooke Nation, he lives on the Crow reservation in Montana.

Supaman was the recipient of the 2017 MTV VMA Award for «Best Fight Against the System». He has received numerous accolades, awards, and honors such as a Native American Music Award, North American Indigenous Image Award, and seven-time Tunney Award. He was named The Aboriginal People’s Choice Music Award in Canada for best video, and was voted MTV’s new Artist of the Week. His 2018 nominations brought home awards for Best Hip Hop Album and Best Producer for the Indigenous Music Awards. His latest video’s *Prayer Loop Song* and *Why* have gone viral and have received millions of views on YouTube. With close to a quarter million Facebook followers, he is in high demand touring extensively throughout North America and internationally. He has performed for Google at the Google headquarters in San Francisco. He recently was asked to audition for America’s Got Talent and the Broadway play, *Hamilton*. He is collaborating with Taboo from the multi-Grammy award winning group Black Eyed Peas on a project due in the coming months.

Supaman’s unique presentation combines Native American culture, comedy, and urban hip hop culture which dazzles audiences and captivates listeners. He has gained the respect of his community and generation. His communicative talent along with a compassion that exudes from his music allows him to connect with people from all walks of life. His uncanny ability to motivate, encourage, and inspire through dance, and hip hop music keeps him at the forefront among his contemporaries, which gives him a platform to educate others on global Indigenous issues.



# 2019 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.

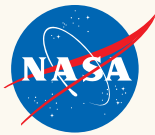
## TURQUOISE



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POTAWATOMI  
*Keeper of the Fire*



## SAGE



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## PINON



# Additional Sponsors

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Graduate Student Research  
Alfred P. Sloan Foundation

Student Research Abstract Booklet  
NOAA

Student Awards Booklet  
Stantec

Student Orientation  
Google

Pre-College Session Track  
The Boeing Company



### **College Session Track**

Jack Kent Cooke Foundation

### **STEM Activity Day**

The Boeing Company

### **Hackathon**

Chevron

### **hackAISES**

Wells Fargo Bank

### **College and Career Fair Lunch**

Oracle

### **Student Awards Luncheon**

Air Force Civilian Service  
National Security Agency  
The Boeing Company

### **Professional Members Mixer**

The Boeing Company

### **Wellness Activity**

Merck

### **Social Media Booth**

AT&T

### **WiFi and Mobile App**

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### **Networking Suite Sponsors**

Academia and Research Networking Suite (NSF I-Corps)  
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Chemistry (American Chemical Society)  
Energy (U.S. Department of Energy)  
Health and Medical Science (University of Wisconsin Health)  
Natural Resources, Food and Agriculture (USDA Natural Resource Conservation Service)  
Manufacturing (3M)

### **Company Suites**

Chevron  
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NextEra Energy, Inc.  
The Boeing Company

### **Coffee Break**

Double Rafter

### **Water Bottles**

AnitaB.org

### **Travel Scholarships**

Chevron  
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Mayo Clinic  
National Grid  
Salesforce.com  
USDA Natural Resource Conservation Service

### **Community Partners**

Collins Aerospace  
Marquette University

### **Media Partners**

DiversityComm Inc.  
Winds of Change Magazine





# Conference Basics - What You Need to Know

**AISES National Conference WiFi**  
**sponsored by Comcast NBCUNIVERSAL**  
Network: **AISES** Password: **aises2019**

**AISES National Conference App**  
**sponsored by Comcast NBCUNIVERSAL**  
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](http://www.aises.org/app)  
To login you will need: **Event Access Code: 709382**  
Username: **Email Used to Register**  
Password: **aises2019**

**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 pre-function area to purchase AISES-themed items.

**Wednesday: 9:00 am – 6:00 pm Thursday & Friday: 7:00 am – 5:00 pm Saturday: 10:00 am – 4:00 pm**

**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 CareerHub and to distribute at the National Conference College and Career Fair. Room 101C will be equipped with computers and printers and staffed by experts from sponsor organizations to help you polish your resume.  
**Thursday: 11:00 am – 6:00 pm Friday: 7:30 am – 5:00 pm**

**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 booths on the exhibit floor for more information like the Winds of Change magazine, AISES scholarships, internships and program opportunities, social media booth and prizes. Friday, October 11 between the hours of 9:00 am – 4:00pm.

- ▶ Winds of Change – # 624
- ▶ AISES – # 625
- ▶ Social Media – # I-12
- ▶ Prize Booth – # I-31

**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 2019 National Conference Attendee survey, available on the conference mobile app. Also, fill out the session evaluations on the mobile app at the end of each session to participate in drawings for great prize which be announced through the mobile app!

**On-Site Registration and Information**  
Registration will take place in the Ballroom pre-function area of the Wisconsin Center. Stop by during the hours listed below to pick up your name badge or if you have questions.  
**Wednesday: 9:00 am – 6:00 pm Thursday & Friday: 7:00 am – 5:00 pm Saturday: 7:00 am – 12:00 pm**

**Heart to Heart with AISES Council of Elders**  
The Council of Elders was established by the founding members of AISES to provide guidance, wisdom, support, and love to the AISES members. As students or professionals, you may have seen the Elders from a distance at an AISES function and have been hesitant to approach them with your questions or concerns. You will have an opportunity to sit and visit with an





Elder in a more informal setting either during one of their sessions or in their lounge. Laugh, cry, listen, reflect, and have time to enjoy a unique visit with an AISES Elder.

Sessions located in Room 201B:

Friday: 1:00pm – 2:50pm For Professionals

Saturday: 9:30am – 11:20am For Students

Lounge located in Room 101A:

Thursday: 1:30pm – 2:30pm

Friday: 10:00am – 11:30am and 3:00pm – 5:00pm

Saturday: 1:30pm – 3:00pm

## Industry Partner/University Site Tours

All attendees who have registered for this tour will meet at 401 W. Wells Street to begin the tour. To get there from inside the Wisconsin Center, follow the overhead signs to the Ballroom (1st floor). Once at the Ballroom B foyer, go through the doors and meet outside the building. There will be volunteers to direct you to the tour bus. All tours will depart promptly at 1:30 pm.

Be early!

## 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.

## Native Artisan Marketplace

Located on the first floor in the pre-function area of Ballroom C in the Wisconsin Center. 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.

Thursday: 12:00 pm – 5:00 pm Friday: 10:00 am – 6:00 pm Saturday: 10:00 am – 5:30 pm

## Nursing Pods (Mamava Pod)

A Mamava Pod is a private lactation room for moms to pump or breastfeed and is located on the first floor of the Wisconsin Center, Room 101.

## 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. We encourage all conference

participants to show their support by attending the oral presentations (see conference program for the agenda of times and locations) and poster presentations located on the College and Career Fair floor.

## Oral Presentations

Presentations will take place on Friday, October 11 between the hours of 9:30 am - 5:00 pm.

## Poster Presentations

Presenters are expected to mount their posters on Friday, October 11, between the hours of 8:00 am and 9:00 am in the back area of the College and Career Fair floor in the Exhibit Hall of the Wisconsin Center.

Presenters must be present at their poster during the entire presentation time, 9:00 am – 12:00 pm on Friday, October 11.

All posters are to be removed by the presenters on Friday, October 11, between the hours of 5:00 pm – 8:30pm.

## Session Tracks

Although all sessions fall within a specific track, track designations are just 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 make a plan, be strategic, and most importantly engage with your fellow conference attendees and presenters.

## Special Luncheon Events for Students

If you are a high school or college/graduate student, please be sure to join us for lunch in the Ballroom. Space is limited to 500; therefore, registration is recommended. We want you there to collaborate and network with students from across the country!

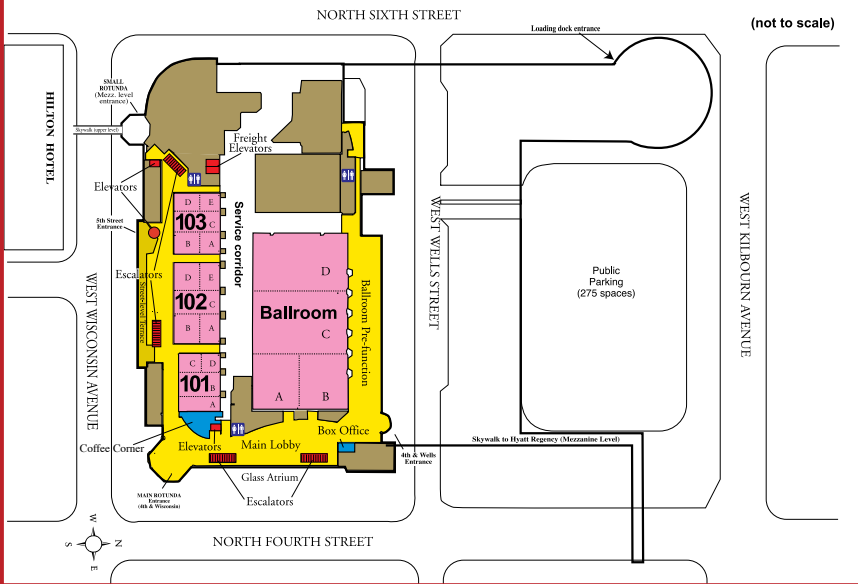
Join 3M representatives for an interactive experience!  
Thursday: 12:00 pm - 1:15 pm

Come celebrate all the Research competitors and awards presentations!  
Saturday: 11:30 am – 1:15pm

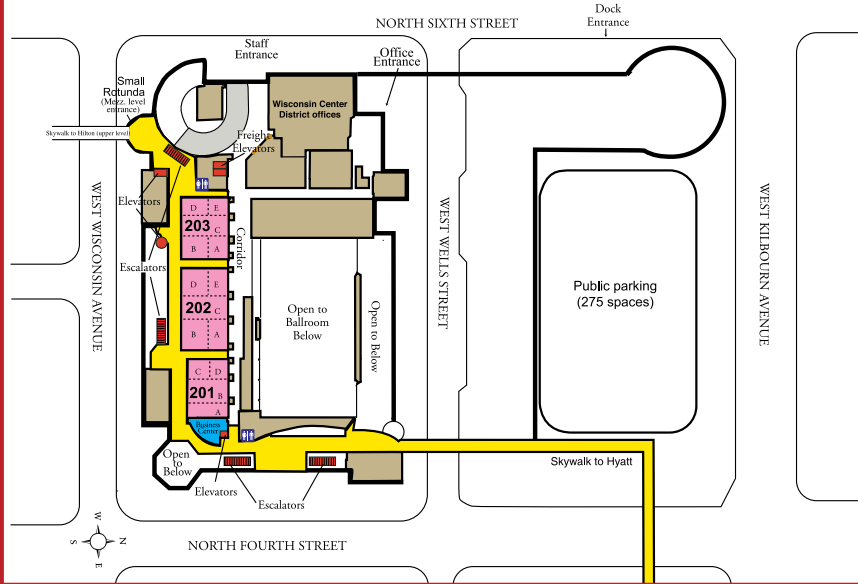
## Session Survey Drawings

Take session surveys from the agenda to be entered into daily drawings for prizes. Every completed survey counts as one entry, so make sure to fill out surveys for all the session you attend.

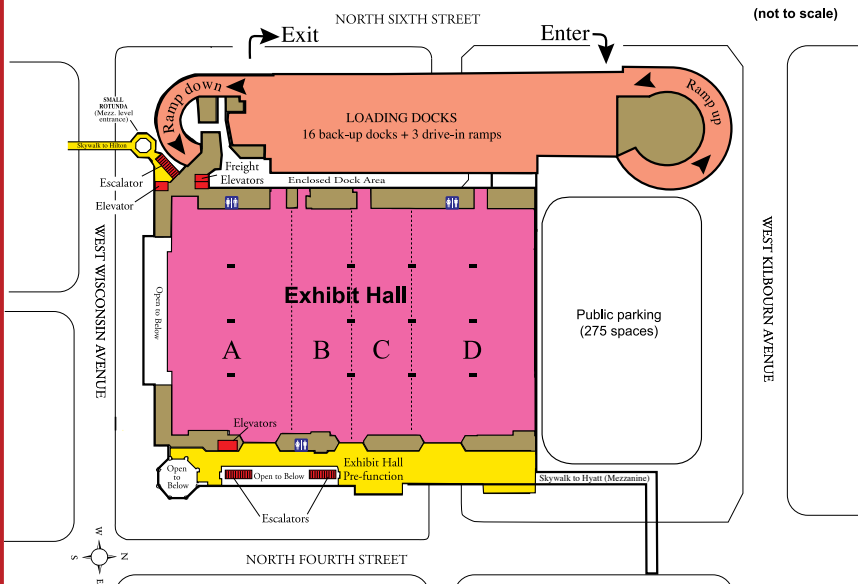
**WISCONSIN CENTER - STREET LEVEL**



**WISCONSIN CENTER - MEZZANINE LEVEL**



**WISCONSIN CENTER - UPPER LEVEL**





# Conference Agenda Highlights

## Wednesday, October 9 - Pre-Conference Highlights

- AISES Merchandise Booth Opens
- Conference Registration and Check-in Opens
- hackAISES sponsored by Wells Fargo Bank
- STEM Activity Day sponsored by The Boeing Company

## Thursday, October 10 - Day One Highlights

- Corporate Advisory Council (CAC) Meeting
- Exhibitor Orientation
- Gemstone Reception
- Government Relations Council (GRC) Meeting
- Hackathon sponsored by Chevron
- Industry Partner/University Tours
- Native Artisan Marketplace Opens
- Networking Suites sponsored by National Security Agency, American Chemical Society, Department of Energy, University of Wisconsin Health, 3M, and USDA National Resource Conservation Service
- Opening Ceremony
- Professional Chapters Council (PCC) Meeting
- Resume Room
- Sessions for All Tracks
- Student Orientation with Pre-College Kickoff sponsored by The Boeing Company and College Kickoff sponsored by the Jack Kent Cooke Foundation
- Student Plenary Luncheon sponsored by 3M
- Talking Circles
- Tribal Nations Advisory Council (TNAC) Meeting
- Veteran's Gathering

## Friday, October 11 - Day Two Highlights

- Canadian Indigenous Advisory Council (CIAC) Meeting
- Chapter Advisors Meeting
- College and Career Fair
- Exhibitor Feedback Session
- Morning Blessing Ceremony with the AISES Elders
- Professional Members Mixer sponsored by The Boeing Company (Ticket purchase required)
- Resume Room
- Sessions for All Tracks
- Student Caucuses
- Student Poster Presentations and Competition sponsored by Alfred P. Sloan Foundation, CIRES and AASONA with Student Research Abstract Booklet sponsored by NOAA
- Student Oral Research Presentations and Competition
- Student Social Event - DJ and Dance
- Wellness Activity

## Saturday, October 12 - Day Three Highlights

- AISES Members Meeting
- Canadian Members Meeting
- Closing Banquet
- Closing Talking Circle
- GEM GRAD Lab
- Pre-College Advisors Meeting
- Professional Members Meeting
- Sequoyah Fellows Breakfast (RSVP required)
- Sessions for All Tracks
- Student Awards Luncheon sponsored by Air Force Civilian Service, National Security Agency and The Boeing Company with Student Awards Booklet sponsored by Stantec
- Traditional Native Powwow
- US National College Student Caucus
- Wellness Activity
- *Winds of Change* Feedback Session
- Conference Agenda Highlights



# AGENDA

## WEDNESDAY, OCTOBER 9TH

Start	End	SESSION NAME	Location	Session Tracks
8:30 am	4:30 pm	NSF ASSIST Meeting	202 E	
8:30 am	4:30 pm	NSF Lighting the Pathway Meeting	202 D	
9:00 am	6:00 pm	AISES Merchandise Booth	Ballroom Lobby	
9:00 am	6:00 pm	Conference Registration	Ballroom Lobby	
12:00 pm	4:00 pm	STEM Activity Day sponsored by The Boeing Company	Ballroom AB	College, Pre-College
12:00 pm	6:00 pm	hackAISES: Mini-Hackathon sponsored by Wells Fargo Bank (Registration Required)	101 B	Pre-College
6:30 pm	8:00 pm	Open Mic Storytelling	202 B	Professional, College, Pre-College

## THURSDAY, OCTOBER 10TH

Start	End	SESSION NAME	Location	Session Tracks
7:00 am	5:00 pm	AISES Merchandise Booth	Ballroom Lobby	
7:00 am	5:00 pm	Conference Registration	Ballroom Lobby	
7:45 am	8:30 am	Exhibitor Orientation	201 B	
8:30 am	10:45 am	Opening Ceremony	Ballroom	Professional, College, Pre-College
11:00 am	11:45 am	Student Orientation w/Pre-College Kickoff sponsored by The Boeing Company and College Kickoff sponsored by Jack Kent Cooke Foundation	202 C	College, Pre-College
11:00 am	11:50 am	Explore and Engage with NASA: Panel and Information Session	203 D	College
11:00 am	11:50 am	Health Professionals Panel discussion	201 C	Health Sciences and Medical
11:00 am	11:50 am	Marketing Ourselves for Success	203 C	General
11:00 am	11:50 am	Pamunkey's Heritage Farming Project	203 B	Agricultural Sciences
11:00 am	11:50 am	Resilience: Messages from a Survivor	202 B	Health Sciences and Medical
11:00 am	12:00 pm	Tribal Nations Advisory Council (TNAC) Meeting	201 B	Professional
11:00 am	6:00 pm	Resume Room	101 C	Professional, College, Pre-College

# AGENDA

## THURSDAY, OCTOBER 10TH

Start	End	SESSION NAME	Location	Session Tracks
11:15 am	12:45 pm	Professional Chapter Council (PCC) Meeting	202 A	Professional
12:00 pm	1:15 pm	Government Relations Council (GRC) Meeting	202 C	Professional
12:00 pm	1:15 pm	Student Plenary Luncheon sponsored by 3M (Registration Required)	Ballroom	College, Pre-College
12:00 pm	5:00 pm	Native Artisan Marketplace	Ballroom Pre-Function	
12:15 pm	1:15 pm	TNAC and CAC Luncheon Mixer	201 B	Professional
1:00 pm	1:50 pm	8 Simple Rules to Financial Health	203 D	Professional
1:00 pm	1:50 pm	Can I Patent That? How to Obtain U.S. Patents	201 C	STEM & Business
1:00 pm	1:50 pm	Computer Literacy	203 C	General
1:00 pm	1:50 pm	Graduated? How to Continue Engaging the Native STEM Community	203 B	Professional
1:00 pm	1:50 pm	Opening Doors to the USDA/Agricultural Research Service Labs	202 D	Educator
1:00 pm	2:50 pm	ReFigure Your Biotech Career	202 B	Health Sciences and Medical
1:30 pm	3:00 pm	Corporate Advisory Council (CAC) Meeting	201 B	Professional
1:30 pm	5:30 pm	Carthage College Tour		College, Pre-College
1:30 pm	5:30 pm	Marquette University Tour		Pre-College
1:30 pm	5:30 pm	University of Wisconsin-Milwaukee Tour		Professional, College, Pre-College
1:30 pm	5:30 pm	Partner Tour: Data Holdings Center		Professional, College
1:30 pm	5:30 pm	Partner Tour: UPS Oak Creek Hub Tour		Professional, College, Pre-College
2:00 pm	2:50 pm	An 18-Year-Olds Take: Unique STEM Applications for Kids	202 D	Educator
2:00 pm	2:50 pm	STEM careers in the Casino Gaming Industry, let the games begin!	202 C	General
2:00 pm	2:50 pm	Career Preparation: Resume Writing and Interviewing Skills	202 A	College
2:00 pm	2:50 pm	IllumiNative: Reclaiming Native Truth	203 C	General
2:00 pm	2:50 pm	NSA and Intelligence Community STEM Careers	203 B	College

# AGENDA

## THURSDAY, OCTOBER 10TH

Start	End	SESSION NAME	Location	Session Tracks
2:00 pm	2:50 pm	Wells Fargo Financial Education Info Session	203 D	General
2:00 pm	4:50 pm	Building We Share Solar Suitcases for Tribal Lands	201 A	Pre-College
2:00 pm	5:00 pm	Lean Six Sigma White Belt Certification presented by America's Navy <b>Cancelled</b>	202 E	College
3:00 pm	3:50 pm	Cyber Security: What is Cyber Security? Are you talking about hackers?!	201 C	Pre-College
3:00 pm	3:50 pm	Financing Your Graduate and Postdoctoral Education	203 D	College
3:00 pm	3:50 pm	Great, You Landed an Interview... Now What?!	203 C	Professional
3:00 pm	3:50 pm	Introduction to Open Source: Technologies to help Indigenize STEM	202 D	Educator
3:00 pm	3:50 pm	Leading a Team of Volunteers While Avoiding Burnout	203 B	Professional
3:00 pm	3:50 pm	NextGen STEM: Cultivating a Diverse STEM Workforce to Solve Global Challenges	202 C	College
3:00 pm	3:50 pm	We Are Healers: Your Path to Medical School	202 A	Health Sciences and Medical
3:00 pm	4:30 pm	LGBTQ+ Rainbow Gathering/Talking Circle (All Welcome)	102 AB	Professional, College, Pre-College
3:00 pm	4:30 pm	Men's Talking Circle	103 C	Professional, College, Pre-College
3:00 pm	4:30 pm	Women's Talking Circle	102 CDE	Professional, College, Pre-College
3:00 pm	4:50 pm	Lego Serious Play	202 B	Professional
4:00 pm	4:50 pm	Close the Gap	203 D	Health Sciences and Medical
4:00 pm	4:50 pm	Failing Up: Adversity as a Path to Success in the Health Sciences	202 A	Health Sciences and Medical
4:00 pm	4:50 pm	From Resume Writing to Maximizing Your Interview & Job Offers	202 C	College
4:00 pm	4:50 pm	Indigenizing Science and Reasserting Indigeneity in Research	201 B	General
4:00 pm	4:50 pm	Look Ma! No Steering Wheel! Autonomous Vehicles Today and Tomorrow	202 D	Pre-College
4:00 pm	4:50 pm	Science and Technology that Changes the World	203 C	College
4:00 pm	4:50 pm	What is the ENIGMA?	201 C	Professional



# AGENDA

## THURSDAY, OCTOBER 10TH

Start	End	SESSION NAME	Location	Session Tracks
4:00 pm	4:50 pm	Yes Young Ladies! STEM Careers are for You!	203 B	Pre-College
5:00 pm	6:00 pm	Veteran's Gathering	202 B	Professional, College
5:00 pm	7:00 pm	Networking Suites sponsored by National Security Agency, American Chemical Society, Department of Energy, University of Wisconsin Health, 3M, and USDA National Resource Conservation Service	Exhibit Hall A	Professional, College, Pre-College
6:00 pm	7:00 pm	Judges Orientation for Research Presentations	201 B	
6:30 pm	11:00 pm	Hackathon: Sponsored by Chevron (Registration Required)	101 B	College
7:30 pm	9:00 pm	Gemstone Reception (Sponsors & Invitation Only)	Crystal Ballroom - Hilton Hotel	

## FRIDAY, OCTOBER 11TH

Start	End	SESSION NAME	Location	Session Tracks
7:00 am	7:45 am	Morning Blessing Ceremony with the AISES Elders	103 C	Professional, College, Pre-College
7:00 am	8:00 am	Wellness Activity - Hanu, Hā, Hula (Breathe In, Breathe Out, Hula)	MacArthur Room - Hilton Hotel	Professional, College, Pre-College
7:00 am	5:00 pm	AISES Merchandise Booth	Ballroom Lobby	
7:00 am	5:00 pm	Conference Registration	Ballroom Lobby	
7:30 am	5:00 pm	Resume Room	101 C	Professional, College, Pre-College
8:00 am	9:00 am	Poster Research Presentations Setup	Exhibit Hall BCD	Professional, College, Pre-College
8:00 am	10:00 am	Canadian Indigenous Advisory Council (CIAC) Meeting	201 B	Professional
9:00 am	12:00 pm	Poster Research Presentations sponsored by Alfred P. Sloan Foundation; CIRES; and AASONA	Exhibit Hall BCD	Professional, College, Pre-College
9:00 am	4:00 pm	College and Career Fair	Exhibit Hall BCD	Professional, College, Pre-College
9:30 am	10:20 am	Medical School 101	201 C	Health Sciences and Medical
9:30 am	10:20 am	SAIGE Professionals in STEM – Working for Tribes	203 D	Professional

# AGENDA

## FRIDAY, OCTOBER 11TH

Start	End	SESSION NAME	Location	Session Tracks
9:30 am	10:20 am	Solve Problems and Design Solutions like a Silicon Valley Professional	203 C	General
9:30 am	10:20 am	The Life and Culture of Honeybees	201 A	Agricultural Sciences
9:30 am	11:20 am	Reproducible Genomic Data Analysis with the Galaxy Workbench	202 A	Health Sciences and Medical
10:00 am	6:00 pm	Native Artisan Marketplace	Ballroom Pre-Function	
10:30 am	11:20 am	Improving Workplace Climate: Strategies for Responding to Harassment	203 C	Professional
10:30 am	11:20 am	Indigenous Methods to Bridge Cultural Gaps in the Classroom	202 C	General
10:30 am	11:20 am	Learning for the Health of It: Health Career Exploration with NACHP	201 A	Health Sciences and Medical
10:30 am	11:20 am	Panel Discussion: Game of (Stetho)scopes	201 C	Health Sciences and Medical
10:30 am	11:30 am	Join a Discussion: AISES Framework of Discovery	203 D	Educator
10:30 am	12:30 pm	Chapter Advisors Meeting	201 B	Professional
11:30 am	12:45 pm	College and Career Fair Lunch	Exhibit Hall BCD	Professional, College, Pre-College
1:00 pm	1:50 pm	Five Steps to Paying for College	201 A	Pre-College
1:00 pm	1:50 pm	Indigeneering™ K-12 Outreach: Creating Ethical Spaces of Cultural Safety and Humility for Indigenous and Non-Indigenous Educator and Mentor Collaboration	203 D	Educator
1:00 pm	1:50 pm	Indigenizing the Future of Business	201 C	STEM & Business
1:00 pm	1:50 pm	More Than Engineering. An Introduction to Engineering Client Management	202 C	General
1:00 pm	1:50 pm	Natives in Tech: Building Software that Supports Native Culture, Knowledge, and Identity	203 C	Professional
1:00 pm	2:50 pm	Heart to Heart with an AISES Elder	201 B	Professional
2:00 pm	2:50 pm	Drone Observations for Tribal Business	201 C	STEM & Business
2:00 pm	2:50 pm	Indigeneering - Engineering through Mino-Pimachisowin	203 C	Professional
2:00 pm	2:50 pm	Picture of Native Ag	203 D	Agricultural Sciences
2:00 pm	2:50 pm	STEM Financial Resources	201 A	College

# AGENDA

## FRIDAY, OCTOBER 11TH

Start	End	SESSION NAME	Location	Session Tracks
3:00 pm	3:50 pm	A Career in the Geosciences: More than just rocks!	201 C	Pre-College
3:00 pm	3:50 pm	A Day in the Factory: Adventures in Manufacturing	202 C	College
3:00 pm	3:50 pm	Exploring Culturally Relevant Teaching in STEM: NASA Based Resources for Educators	202 A	Educator
3:00 pm	3:50 pm	Indigenizing Academia	203 C	College
3:00 pm	3:50 pm	Indigenous Perspectives in STEM : Exciting Careers in Oceanic and Atmospheric Sciences	201 A	Professional
3:00 pm	3:50 pm	Make a Masterpiece - Why Scientists Need Art!	203 D	Pre-College
3:00 pm	4:50 pm	KAIROS Blanket Exercise	102 AB	General
4:00 pm	4:50 pm	Budgeting and Money Management Strategies for College Students	202 C	College
4:00 pm	4:50 pm	Indigenous Youth Forum: Preparing for Future Leader...Now!	203 C	College
4:00 pm	4:50 pm	Native Contributions - Creating and Supporting Effective Teams	201 A	Professional
4:00 pm	4:50 pm	Re-Indigenizing the Curriculum: Teaching to Stoke our Inner Fires	202 A	Educator
4:00 pm	4:50 pm	Unlock Possibilities and Break Out of the Known by Leveraging Personal Strengths and Motivations	203 D	Pre-College
4:00 pm	4:50 pm	Why Our Communities Need More Native Architects and Engineers	201 C	Pre-College
4:00 pm	5:00 pm	Exhibitor Feedback Session	201 B	
5:00 pm	6:00 pm	Pre-College Student Caucus	202 A	Pre-College
5:00 pm	6:30 pm	College Student Region 1 Caucus	201 C	College
5:00 pm	6:30 pm	College Student Region 2 Caucus	202 D	College
5:00 pm	6:30 pm	College Student Region 3 Caucus	202 C	College
5:00 pm	6:30 pm	College Student Region 4 Caucus	201 A	College
5:00 pm	6:30 pm	College Student Region 5 Caucus	203 C	College
5:00 pm	6:30 pm	College Student Region 6 Caucus	202 B	College
5:00 pm	6:30 pm	College Student Region 7 Caucus	203 B	College
6:30 pm	8:30 pm	Professional Members Mixer sponsored by The Boeing Company (Ticket purchase required)	Crystal Ballroom - Hilton Hotel	Professional



# AGENDA

## FRIDAY, OCTOBER 11TH

Start	End	SESSION NAME	Location	Session Tracks
8:00 pm	10:30 pm	Student Social Event - DJ and Dance	Ballroom	College, Pre-College

## SATURDAY, OCTOBER 12TH

Start	End	SESSION NAME	Location	Session Tracks
6:30 am	7:00 am	Sequoyah Fellows Breakfast Check-In	Crystal Ballroom - Hilton Hotel	
7:00 am	8:00 am	Wellness Activity	MacArthur Room - Hilton Hotel	Professional, College, Pre-College
7:00 am	9:15 am	Sequoyah Fellows Breakfast (RSVP required)	Crystal Ballroom - Hilton Hotel	
7:00 am	12:00 pm	Conference Registration	Ballroom Lobby	
9:30 am	10:20 am	American Indigenous Business Leaders: Business and Leadership	202 A	General
9:30 am	10:20 am	Beading with a Digital Loom Using XOR Linear Feedback Shift Register	202 C	College
9:30 am	10:20 am	Cancer Disparities in Native American Populations and Prevention Through Education and Screening	202 E	Health Sciences and Medical
9:30 am	10:20 am	Executive Leadership Panel	Ballroom	General
9:30 am	10:20 am	Forestry Fun with Phone Apps and Project Learning Tree Activities	201 C	Agricultural Sciences
9:30 am	10:20 am	Kanata, eh?: A panel on contemporary understandings of Indigeneity in Canada	203 D	Professional
9:30 am	10:20 am	Native American Women in Computing: Using Technology to Teach from a Native Perspective	203 C	Professional
9:30 am	10:20 am	Navigating Career Paths and Business Start-ups	202 D	STEM & Business
9:30 am	10:20 am	NIH and Tribal Biomedical Research: Tribal Health Research Office, an Introduction	203 B	Health Sciences and Medical
9:30 am	11:20 am	STEM Day Toolkit	202 B	Educator
9:30 am	11:20 am	Heart to Heart with an AISES Elder	201 B	College
9:30 am	3:20 pm	Mayo Clinic Global Medical Simulation Workshop	201 A	Health Sciences and Medical
10:00 am	4:00 pm	AISES Merchandise Booth	Ballroom Lobby	
10:00 am	5:30 pm	Native Artisan Marketplace	Ballroom Pre-Function	

# AGENDA

## SATURDAY, OCTOBER 12TH

Start	End	SESSION NAME	Location	Session Tracks
10:30 am	11:20 am	<b>AISES Members Meeting</b>	201 C	Professional, College
10:30 am	11:20 am	<b>General Motors Minority Dealer Development (GMMDD) Informational Seminar</b>	203 C	College
10:30 am	11:20 am	<b>How to Have a Successful AISES Chapter</b>	202 C	College
10:30 am	11:20 am	<b>Public Health Research Informed by American Indian Traditions and Cultures</b>	202 E	Health Sciences and Medical
10:30 am	11:20 am	<b>Tire Impressions - Oh My!</b>	203 B	Pre-College
10:30 am	11:20 am	<b>Turning Conflict into Results</b>	202 D	College
10:30 am	11:20 am	<b>What is so Exciting about Engineering?</b>	203 D	Pre-College
10:30 am	11:30 am	<b>Pre-College Advisors Meeting</b>	202 A	Educator
11:30 am	1:15 pm	<b>Lunch Break</b>		Professional
11:30 am	1:15 pm	<b>Student Awards Luncheon sponsored by Air Force Civilian Service, National Security Agency and The Boeing Company (Registration Required)</b>	Ballroom	College, Pre-College
1:30 pm	2:20 pm	<b>A Comprehensive Approach to Educating and Inspiring Native American Student Achievement</b>	201 C	Educator
1:30 pm	2:20 pm	<b>Canadian Members Meeting</b>	202 B	Professional, College, Pre-College
1:30 pm	2:20 pm	<b>Introduction to Lean Manufacturing</b>	201 B	College
1:30 pm	2:20 pm	<b>Knowledge Transfer: Wisdom and Guidance for Management Success</b>	202 D	Professional
1:30 pm	2:20 pm	<b>Micro Start-ups: Extra income without large risk</b>	202 A	STEM & Business
1:30 pm	2:20 pm	<b>U.S. National College Student Caucus</b>	202 C	College
1:30 pm	2:20 pm	<b>What's my Communication Style and Why Should I Care?</b>	202 E	Professional
1:30 pm	2:20 pm	<b>Zombie Autopsy and Emergency Preparedness</b>	203 B	Pre-College
1:30 pm	6:00 pm	<b>GEM GRAD Lab</b>	Regency Ballroom - Hilton Hotel	Professional, College
2:00 pm	3:20 pm	<b>Listening, Sharing &amp; Conversing with 8 Top STEM Companies</b>	Ballroom	General
2:30 pm	3:20 pm	<b>"I'm not what you think I am": Perception vs Reality in a Professional Environment</b>	201 B	College

# AGENDA

## SATURDAY, OCTOBER 12TH

Start	End	SESSION NAME	Location	Session Tracks
2:30 pm	3:20 pm	<b>Agriculture in a Changing Climate: Identifying Tribal Information Needs</b>	201 C	Agricultural Sciences
2:30 pm	3:20 pm	<b>Artificial Intelligence for Native Communities</b>	202 D	STEM & Business
2:30 pm	3:20 pm	<b>Debt &amp; Equity Funding: Options for Young Businesses/Startups</b>	202 A	STEM & Business
2:30 pm	3:20 pm	<b>Native Student Power: Using Your Voice for Education Equity</b>	202 C	General
2:30 pm	3:20 pm	<b>Navajo Teachings Applied in a STEM Career</b>	202 E	College
2:30 pm	3:20 pm	<b>Winds of Change Feedback Session: Help make the AISES magazine even better!</b>	202 B	General
3:30 pm	5:30 pm	<b>Closing Talking Circle (All Welcome)</b>	203 CDE	Professional, College, Pre-College
6:30 pm	9:00 pm	<b>Closing Banquet</b>	Ballroom	Professional, College, Pre-College
9:00 pm	11:59 pm	<b>Traditional Native Powwow</b>	Exhibit Hall AB	Professional, College, Pre-College

For the Research agenda, please go to page 28.  
Unless noted, all events are in the Wisconsin Center.

**Future AISES Event in 2020**



### 2020 LEADERSHIP SUMMIT

AMERICAN INDIAN SCIENCE AND ENGINEERING SOCIETY

FEBRUARY 16 – FEBRUARY 18, 2020  
(SUNDAY – TUESDAY)

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# RESEARCH AGENDA

FRIDAY, OCTOBER 11TH

Start	End	SESSION NAME	Location	Session Tracks
9:30 am	9:50 am	<b>An Inexpensive Closed-Loop Insulin Pump for Better Management of Types 1 and 2 Diabetes</b>	202 B	Research: Health Science
9:30 am	9:50 am	<b>Development towards a wearable, real-time ultrasound system to track the gastrocnemius tendon junction during human walking</b>	202 E	Research: Health Science
9:30 am	10:20 am	<b>Indigenous Medical Humanities: Critical Value in Clinical Settings</b>	202 D	Research: Health Science
9:30 am	9:50 am	<b>Heat Stress Impacts the Health of the Laying Hen Through Altering the Regulation of Oxidative Stress Genes in the Liver</b>	203 B	Research: Agricultural Science
10:00 am	10:20 am	<b>Social Support Networks and Their Impact on Depressive Symptoms Among Aging Transgender Adults</b>	202 B	Research: Health Science
10:00 am	10:20 am	<b>Grazing as a Tool to Reduce Wildfire Risk at Pu'u Wa'awa'a Forest Reserve</b>	202 E	Research: Agricultural Science
10:00 am	10:20 am	<b>Weathering Heights: Comparison of mating behavior of honey bee subspecies utilizing RFID</b>	203 B	Research: Agricultural Science
10:30 am	10:50 am	<b>An Evaluation of Pupillary Light Response Models for 2D Screens and VR HMDs</b>	202 B	Research: Biology
10:30 am	11:20 am	<b>Jellyfish Ecology on the Coast of British Columbia</b>	202 E	Research: Biology
10:30 am	10:50 am	<b>Reconnecting Fish Habitat on the Sand Hill River</b>	202 D	Research: Biology
10:30 am	10:50 am	<b>Simulation of the construction progression of an Illinois Hopewell Tribe's burial mound</b>	203 B	Research: Computer Science
11:00 am	11:20 am	<b>Extracting Rare Earth Elements from Alaskan Coal via Microbial Redox-Cycling</b>	202 B	Research: Biology
11:00 am	11:20 am	<b>Quantifying the Metabolic Dysfunction in FD Patients and Healthy Relatives by NMR</b>	202 D	Research: Biology
11:00 am	11:20 am	<b>Ojibwe Language Aid</b>	203 B	Research: Computer Science
1:00 pm	1:50 pm	<b>Case Studies on Rural and Underserved Success</b>	202 D	Research: Computer Science
1:00 pm	1:20 pm	<b>Hawaiian Morphemes to Improve Information Retrieval</b>	202 E	Research: Computer Science
1:00 pm	1:50 pm	<b>Tribal Technology Assessment: The State of Internet Service on Tribal Lands</b>	202 B	Research: Computer Science
1:00 pm	1:20 pm	<b>Anishinaabe Ojibwe Traditional Ecological Knowledge (TEK) Sourced Sustainable Construction Materials</b>	203 B	Research: Indigenous Knowledge

# RESEARCH AGENDA

FRIDAY, OCTOBER 11TH

Start	End	SESSION NAME	Location	Session Tracks
1:30 pm	1:50 pm	<b>"Where My Edhéhke Take Me": Stories of Student Experiences Learning From the Land</b>	202 E	Research: Indigenous Knowledge
1:30 pm	1:50 pm	<b>Facilitating greater representation and equity in the voices and data of science: Sea otter impacts on customary and traditional foods in Southeast Alaska</b>	203 B	Research: Indigenous Knowledge
2:00 pm	2:50 pm	<b>Indigenous Peoples and Settler Peoples: Immiscible World Views</b>	202 D	Research: Indigenous Knowledge
2:00 pm	2:50 pm	<b>Voices from the Dust: Technology Leading to Discoveries about the Mound Builders</b>	202 B	Research: Indigenous Knowledge
2:00 pm	2:20 pm	<b>Testing Gravity Below 50 Micrometers</b>	203 B	Research: Physical Science
2:00 pm	2:50 pm	<b>The synthesis and characterization of metal nanoparticles using the epoxide addition method with the aid of structural directing agents</b>	202 E	Research: Physical Science
2:30 pm	2:50 pm	<b>Wind structure in vicinity of a tornadic thunderstorm deduced from cloud motion in satellite and radar imagery using an optical flow technique</b>	203 B	Research: Atmospheric Science
3:00 pm	3:50 pm	<b>Activities, Resources, and Opportunities with the National Oceanic and Atmospheric Administration in the Great Lakes Region</b>	202 B	Research: Atmospheric Science
3:00 pm	3:20 pm	<b>Cultural Barriers for Indigenous Students and Professionals in STEM Fields</b>	202 E	Research: Social Science
3:00 pm	3:50 pm	<b>Indigenizing From the Ground Up: Student Perspectives on Decolonizing Academia</b>	203 B	Research: Social Science
3:00 pm	3:20 pm	<b>1,7-, 1,6-Regioisomers of Didodecylthio Perylene Diimides: Synthesis, Separation, Characterization, and Comparison of Optical Properties</b>	202 D	Research: Energy
3:30 pm	3:50 pm	<b>Preliminary Assessment of Potential for Wind Technology Deployment on the Turtle Mountain Band of Chippewa Reservation</b>	202 D	Research: Energy
3:30 pm	3:50 pm	<b>A 4-Dimension Model of High School Leaving Amongst Learners of Indigenous Descent</b>	202 E	Research: Social Science
4:00 pm	4:50 pm	<b>A Culturally-Relevant Engineering Design Curriculum for Navajo Nation Middle Schools</b>	202 E	Research: STEM Education
4:00 pm	4:50 pm	<b>Essentials for Collaborative Research for Engaging Native Youth in STEM</b>	202 D	Research: STEM Education
4:00 pm	4:50 pm	<b>Overcoming Barriers to Providing Quality STEM Experiences to Rural Alaskan Native Youth in K-5 Classrooms</b>	202 B	Research: STEM Education
4:00 pm	4:50 pm	<b>Portraits of Persistence and Nation Building: Native Women and Two-Spirit Individuals in Computer Science</b>	203 B	Research: STEM Education

## 8 Simple Rules to Financial Health

**Amanda Ashmann**

*Wells Fargo Bank*

No matter where you are in life, you can benefit from improving your financial health. This workshop will provide ideas for how you can take simple steps to help you better manage your money today and save for long-term goals.

## A Career in the Geosciences: More than just rocks!

**Dr. Kato Dee**

*University of Oklahoma*

**Shana Mashburn**

*U.S. Geological Survey Oklahoma Water Science Center*

Do you like to be outside? Are you curious about how landscapes and mountains formed? Do you like to investigate and solve puzzles? Do you want to help your tribe with the future of their natural resources? Then, maybe a geoscience career is for you! A career in the geosciences provides numerous opportunities that satisfy multiple interests; from understanding many of Earth's processes, to mapping landforms and faults, to providing essential knowledge and leadership in the protection of tribal lands and resources. Geoscience stereotypically has been thought of studying rocks or working for an oil company. However, a career in geoscience is very diverse and can lead to many essential specialties including geohydrology, environmental geochemistry, geophysics, soil science, mapping, and geologic hazards. Our session will provide reflections on how we chose our careers in geoscience, what significant barriers and opportunities existed we encountered, and insight on what to expect as a professional geoscientist. We will share why we have a passion for the geosciences and illustrate how exciting and fun a career involving the outdoors can be! We will also highlight the need for Native Americans, trained as professional geoscientists, to help solve numerous future challenges facing our Indigenous communities.

## A Comprehensive Approach to Educating and Inspiring Native American Student Achievement

**Nadine Groenig**

*Arizona Department of Education*

This session will focus on ways that the Office of Indian Education (OIE) at the Arizona Department of Education provides professional development for educators of Native American students; empowers Indigenous parents and family members to advocate for their children; and inspires Native American students to value their education, culture, health and well-being. OIE holds three conferences a year. They are each designed for specific audiences, but offer resources and information for everyone in Indian Education. OIE's Native American Youth, Educators, and Employers Conference seeks to prepare students to enter the workforce when their time comes. The Arizona Indian Education Stakeholders Summit

is for practitioners, administrators, lawmakers, federals program directors, tribal education departments, students, etc. Family Empowerment Day provides specific information regarding Indian Education funds and their use, and roles and responsibilities from school board members to students. In addition, OIE has researched what works best when educating Native American students. The results of a two-year study will be shared. Study participants come from Arizona, Nevada, and Utah. Attendees will have the opportunity to practice some real-world activities connected to some common emerging themes from the study.

## A Day in the Factory: Adventures in Manufacturing

**Todd Ambo**

*3M Company*

**Eric Daugherty**

*3M Company*

**Jeremy Dry**

*3M Company*

**Darren Goetz**

*3M Company*

Ever wondered what happens within the walls of the factories you pass by? How manufacturing of products you like happens? What the people do in the factories that make those products? How a STEM degree could fit into a factory? In this session, several 3M engineers with experiences in multiple factories around the globe will share their day-to-day experiences and "adventures" within the factory walls. We will explore the multiple roles that technical degrees can lead to, what they do to make a factory run seamlessly, and what technical skills you'll need to master a career in manufacturing.

## Agriculture in a Changing Climate: Identifying Tribal Information Needs

**Dr. Dennis Todey**

*USDA Midwest Climate Hub*

This session will be presented by an agricultural climatologist and extension specialist. Discussions will focus on existing climate/weather information, tools and resources in the framework of agriculture adaptation in a changing climate. Topics will specifically address: how the climate is changing in the Midwest region, how climate change/extreme weather events are impacting where and how we can grow various crops, the effects on diseases, insects, and soil, and explore what producers are doing to adapt. Participants will leave this session having a better understanding of climate change impacts in the region, how and where to find information on adaptation, and will be familiar with USDA Programs and Resources to Assist with Adaptation to Climate Change (a searchable table compilation of over 140 USDA programs and resources to assist Tribes with adaptation and mitigation of climate change that has been reviewed and approved by the USDA Office of Tribal Relations). A goal is: To identify a list of climate/weather Tribal informational needs for crop

production and planning that the Midwest Climate Hub can prioritize in the future to ultimately increase resiliency of tribal agricultural production to climate extremes.

## **AISES Members Meeting**

Please join us at our Annual Members' Meeting to hear informative updates of the the State of AISES from the Board of Directors and the CEO. We encourage members to come listen, share your ideas, and learn about the accomplishments AISES has experienced over the last year.

## **AISES Merchandise Booth**

Get 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.

## **American Indigenous Business Leaders: Business and Leadership**

### **Prairie Blount**

*American Indigenous Business Leaders*

The American Indigenous Business Leaders (AIBL) is the only American Indian nonprofit organization solely dedicated to empowering business students in the United States. Our programs are designed to engage students in activities that stimulate, enhance, and expand educational and leadership experiences beyond traditional academic methods. All students are encouraged to participate in AIBL regardless of race, academic major, or career objectives. Each year we offer internship opportunities and professional career counseling to Indigenous youth across the county through our Indigenous Scholars Internship Program. Educating and guiding our youth to develop and deepen an entrepreneur mindset while presenting professional opportunities in fields of interest is a life-changing experience. Join us for this session to learn more about the opportunities AIBL has to offer!

## **An 18-Year-Olds Take: Unique STEM Applications for Kids**

### **Danielle Boyer**

*The STEAM Connection*

Do you want to come up with new ways to educate young students and community about STEM? This presentation is perfect for you! We will cover unique and affordable resources, fun activities, and manageable events that could be utilized in a standalone manner or partnered with the curriculum to ensure that your students are not only interested in STEM, but have a higher chance of becoming proficient in STEM. Learn about increasing community support for your STEM educational pursuits and diversity in your programs, as well as having fun during the process.

## **Artificial Intelligence for Native Communities**

### **Andrew Narcomey**

*BlackRock Inc.*

Artificial intelligence, or AI, has been used in recent years to assist our society in a myriad of ways, some examples

ranging from medical drug creation to music creation, from both analyzing and writing news and poems to autonomous driving. In this workshop, we will explore how AI can be used for social good, and specifically, how it can be used to help Native communities. We will discuss how AI can be useful for improving healthcare and medicine in tribal communities, and work together on how you can build a conversational chatbot in an Indigenous language. Please bring a computer if you want to actively participate, or feel free to work together with someone who has one.

## **Beading with a Digital Loom Using XOR Linear Feedback Shift Register**

### **Frazer Tee**

*Intel Corporation*

This session aims to show the art in engineering by designing a "digital loom" to create Native-inspired beaded art. The "digital loom" is made up of simple Linear Shift Feedback Registers (LFSRs) constructed in digital hardware using XOR logic gates. LFSRs are used for pattern generation and can be seen in many digital applications such as cryptography, data scrambling and communications. To walk through the construction of an LFSR, this session will include a basic introduction into logic gates, digital logic, and states machines. We will explore how changing the initial state, or seed, for the "digital loom" can generate artistic patterns. Inspiration will be drawn from Native American beaded designs to incorporate cultural designs with modern technology.

## **Budgeting and Money Management Strategies for College Students**

### **Amanda Ashmann**

*Wells Fargo Bank*

Knowing how to better manage your money so you can reach your goals may boost your financial confidence. In this workshop, you can learn about budgeting tips and tools that can help you take steps for setting goals, and building your savings plan for reaching them.

## **Building We Share Solar Suitcases for Tribal Lands**

### **Dr. Hal Aronson**

*We Share Solar*

### **James Calabaza**

*Trees, Water & People*

### **Wendy Cross**

*We Care Solar*

### **Gigi Goldman**

*We Share Solar*

Since 2013, We Share Solar has empowered thousands of students to be global changemakers. We Share Solar's one-of-a-kind educational program and innovative solution combines experiential learning with purpose. A We Share Solar Suitcase is a complete 12-volt DC solar electric system that provides LED lighting and power to charge cell phones



and educational devices. Through this Solar Suitcase build workshop, students couple tangible STEM skills with the knowledge of how renewable solar energy serves as a powerful solution to the problem of energy access in their communities. The workshop will be hands-on with groups of youth assembling Solar Suitcases from the We Share Solar kit of high quality equipment. Students will learn the components of a standalone solar electric system as they wire the circuits, populate the control board, and trace the system's flow of electricity. Students will appreciate the real-world impact of their STEM service project as the Solar Suitcases built in this workshop will be distributed to tribal lands to serve as emergency preparedness backup power sources and for education. Participants should be prepared to use basic tools such as a 6-in-1 screwdriver and will be required to wear safety glasses (provided) and closed-toe shoes. This session is for high school students only.

## Can I Patent That? How to Obtain U.S. Patents

**Vanessa Bailey**

*Intel Corporation*

Have you ever had a great new idea for something and wondered whether it was patentable and if so, how would I go about obtaining a patent? If so, join us in this fun and interactive session where you will learn what a patent is, how to obtain one, the costs associated with obtaining and maintaining a patent, time considerations, fun trivia facts and great patent career options.

## 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.

## 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.

## Cancer Disparities in Native American Populations and Prevention Through Education and Screening

**Dr. Adrienne Laverdure**

*Peter Christensen Health Center*

The presentation will focus on cancer in Native American populations and the disparities in regards to different regions and other populations in the United States. The purpose of the session will be to educate the attendees in regards to risk factors, importance of family history, and preventive screening. The most up to date schedule of screening in regards to cancer will be presented to attendees. The U.S. Preventive Service Task Force ( USPSTF) has developed new recommendations and the importance of deciding if this is right for our communities.

## Career Preparation: Resume Writing and Interviewing Skills

**Andy Bidinger**

*AT&T*

**Deneen Garrett**

*AT&T*

**Charmaine Murphy**

*AT&T*

The goal of the "Preparing for Your Future", one of Winds of Change magazine's Top 50 STEM Employers for Native Americans is to share with participants how to write a cover letter and resume, as well as provide participants with an understanding on how to prepare for and what to expect from an interview for an internship or job. Participants will walk away with a clear understanding on how to format and write a resume; address a resume cover letter and key details to include; learn how to practice and prepare for an interview; participate in mock interviews; and gain informational tools on how to secure a stellar internship or job.

## Carthage College Tour (45-min bus ride to 2001 Alford Park Drive, Kenosha, WI)

Tour Carthage College, home of the First Nations Launch High-Powered Rocket Competition and NASA Wisconsin Space Grant Consortium. See the College's state-of-the-art planetarium, peer instruction physics teaching labs, and the space sciences laboratory, where students work on NASA and commercial spaceflight payload experiments. View the CubeSat lab, the

parabolic flight experiment work, and the payloads being developed for Blue Origin New Shepard flights. Your visit will include a presentation about admissions, financial aid, and curriculum, as well as, a campus tour with current Carthage students who will talk about student life, classroom resources, and technology. Last, Space Grant representatives will discuss financial support, including a \$500 WSGC First Nations Launch renewable scholarship, available to two tour attendees who apply to Carthage College to pursue their STEM degree. Meeting Location: From inside the convention center, follow the overhead signs to the Ballroom (1st Floor). Once at the Ballroom B foyer, go through the doors and meet outside the building. Agenda: 1:30 p.m. Depart Wisconsin Center 2:15 p.m. Arrive at Carthage College 2:20 p.m. Welcome to Carthage 2:45 p.m. Campus Tour with current Carthage students (snack served) 3:45 p.m. Straz Science Center Break Out Sessions: Planetarium, Labs, Space Grant 4:45 p.m. Depart Carthage College for return to Wisconsin Center 5:30 p.m. Arrive back at Wisconsin Center <https://www.carthage.edu/> and <https://spacegrant.carthage.edu/> Target Audience: High School Seniors and College Students. Maximum: 50 attendees

### 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.

### Close the Gap

**Joe Furino**

*Boston Scientific*

**Trish Solliday**

*Close the Gap*

Close the Gap is Boston Scientific's health equity initiative, designed to lead the industry in closing the health disparity gap. Its mission is to support a world where all patients, regardless of gender, race, ethnicity, sexual orientation and socio-economic status, understand their medical conditions and receive therapies to help them live better lives.

### 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.

### 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 Student Regional 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. Region 1 Caucus: Room 201 C; Region 2 Caucus: Room 202 D; Region 3 Caucus: Room 202 C; Region 4 Caucus: Room 201 A; Region 5 Caucus: Room 203 C; Region 6 Caucus: Room 202 B; Region 7 Caucus: Room 203 B

### Computer Literacy

**Jeffrey Gilchrist**

*The Sage Hawk Foundation*

The average smartphone today contains more processing power than all of NASA's combined mission control computers used during the Apollo moon landings. The summit of all acquired human knowledge is literally available now at the touch of a finger. Yet, despite the proliferation of computer technology today, most people cannot operate a computer beyond social media, texting and gaming. Because of this, most are unable to obtain quality employment that would make a significant impact their quality of life, limiting their options for a productive future. While this affects all demographics, Native American communities are particularly affected due to a spreading sense of hopelessness, extreme poverty and negative stereotyping. Native youth suffer disproportionately from high drop-out rates, while all ages are impacted by substance abuse and growing rates of suicide. Reservations lack infrastructure. Sage Hawk believes many of these challenges can be overcome by leveraging the power of the computer. By making this training free for those who cannot afford it or have simply fallen behind the technological curve, the spark of ambition will spread and our Native American heritage can be preserved. It enables tribal entrepreneurship, lessens dependency and breathes new life into distressed economies.

### Conference Registration

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

### Corporate Advisory Council (CAC) Meeting

AISES 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 CEO and the Board of Directors by: Providing scholarships, internship programs and/or employment opportunities. Participating in and supporting AISES events through sponsorship, presentations, and providing career information and resources. Supporting 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. Facilitating effective public relations for AISES activities via coverage in company publications.

## Cyber Security: What is Cyber Security? Are you talking about hackers?!

**Vanessa Benally**  
*Booz Allen Hamilton*

Come explore the Cyber Security field. Cyber Security is not just a buzz word, it is a field where dedicated professionals work to secure and protect information, computers, networks, and programs. Cyber Security is an in-demand STEM field, that needs a diverse set of professionals that are curious, dedicated and fast learners. This field is currently experiencing a shortfall of Cyber Security professionals with the gap expecting to widen. This session will lay the foundation of Cyber Security basics, what you need to know about Cyber Security, where to start and discussions on why Cyber Security is important to individuals and tribal communities. Let us discuss why Cyber Security engagement needs to be addressed in tribal communities now. What risks are individuals facing and how that may tie into tribal communities, governments, businesses, and healthcare facilities. We will talk about different Cyber Security roles and responsibilities. Bad guys vs. good guys, White Hat vs. Black Hat. Address what a "Hacker" is and what it is not. The main objective is to give you a start into your journey of asking questions and seeking information about the Cyber Security field!

## Debt & Equity Funding: Options for Young Businesses/Startups

**Gage Hutchens**  
*Wells Fargo*

This interactive session will examine debt and equity strategies available for your business. Bring a high-level summary of your current or future business, and the presenter will specifically help each attendee understand their options, and leave with concrete recommendations for next funding steps. Debt and equity financing will be reviewed and ideally, audience members will have an idea for a business in mind and can share high level details to help guide this interactive discussion. The presenter will examine audience examples of equity valuation explaining fundable ideas vs non-fundable ones. Leveraging his experience owning a small enterprise for 15 years we will examine the "3 legs of a chair" essential to

debt financing and review how serious a Personal Guarantee really is. The presenter will also make himself available during the conference and afterward as an ongoing free Q/A resource for students and young professionals.

## Drone Observations for Tribal Business

**James Grimsley**  
*Choctaw Nation of Oklahoma*

**Robbie Hood**  
*Blue Thunderbird LLC*

**Travis Potter**  
*FEMA Region IV*

The Inaugural Tribal Unmanned Aircraft System Conference (TUASC) was the first-ever conference devoted to bringing together tribal nations to learn about and share ideas on using Unmanned Aircraft Systems (UAS) data along with weather observations to inform tribal citizens and create business opportunities. Information collected by drones can be used to map tribal lands and natural resources, gain situational awareness after disasters, collect real-time weather, air quality, and soil moisture data for tribal planning, and to spark the imagination of young tribal scientists and engineers. Developing tribal expertise in UAS remote sensing and weather data collection may not only provide new information sources for tribal decision-making but may also provide new career and business prospects for tribal citizens. TUASC was sponsored by the Federal Emergency Management Agency, the Choctaw Nation and Blue Thunderbird LLC on April 17, 2019 at the Choctaw Nation Event Center in Durant, Okla. This session for the AISES STEM and Business track will provide an overview of TUASC and seek participation by all interested Tribal Nations in the second TUASC scheduled for February, 2020.

## Executive Leadership Panel

The session will feature leaders from various corporate and tribal enterprises.

## Exhibitor Feedback Session

This is your opportunity as an exhibitor at the 2019 AISES National Conference to provide input to AISES for future conferences. Additionally, this year, AISES will have a small group of students who attended the career fair also provide feedback to exhibitors at the beginning of the session.

## Exhibitor Orientation

This session is for first time and returning exhibitors. AISES will provide a brief overview of the organization, highlights for the National Conference, discuss 'housekeeping' topics for the College and Career Fair floor and answer any questions you have about the event or the AISES membership.



## Explore and Engage with NASA: Panel and Information Session

**Caroline Montgomery**

*NASA*

Learn more about the NASA resources available to your community and for your own professional and educational journey and hear stories from some of NASA's Native American employees. Explore internship opportunities, rover competitions for Tribal and community college students, rocket competitions for AISES chapters and Tribal Colleges, how to put NASA's data to work for communities facing environmental issues, citizen science and much more. Also, hear stories from some NASA employees on why they chose NASA and how they got to where they are now. The goal of this session is to share the variety of ways in which you can engage with the multitude of NASA missions in order to advance your own educational and professional goals.

## Exploring Culturally Relevant Teaching in STEM: NASA Based Resources for Educators

**Dr. Samuel Garcia**

*NASA Educator Professional Development Collaborative*

**John Weis**

*NASA Educator Professional Development Collaborative*

Culturally relevant and responsive forms of education have increasingly been recognized as a powerful approach to engage and serve traditionally underrepresented students and help transform the STEM landscape. In this interactive session, participants will be invited to explore NASA based, culturally relevant instructional practices, tools, and resources designed to help educators stimulate student interest in STEM learning and respond to the diverse backgrounds and learning styles in their classroom.

## Failing Up: Adversity as a Path to Success in the Health Sciences

**Dr. Ken Bernard**

*Pinnacle Emergency Medical Group PLLC*

Finding your career in the health sciences is hard. From the educational and financial requirements to the changing landscape of the health care industry and sorting through the diverse professional options, your path to a fulfilling a dream of a career in the health sciences may seem daunting. And in this presenter's opinion that is a good thing. Adversity is facing a challenge that is meaningful and working to accomplishing a goal that is worthwhile. However, we all need some tools to cope with the adversity we will face in chasing our dream. This talk will walk participants through some of those helpful tips gained though lesson learned from an early career physician who is always looking for the right mistakes. This session is geared toward high school and college students who are thinking about pre-professional degrees in the health sciences.

## Financing Your Graduate and Postdoctoral Education

**Dr. Jeane Breinig**

*University of Alaska Anchorage*

**Dr. Kathy DeerInWater**

*American Indian Science and Engineering Society*

**Brandon McCain**

*National Academies of Sciences, Engineering, and Medicine*

This session will provide information on graduate school funding as well as postdoctoral resources. Two Ford Fellows who are Native American Researchers and Scholars will share their views on seeking and obtaining funding. A member of the staff of the Fellowships Office of the National Academies of Sciences, Engineering, and Medicine (NASEM), Brandon McCain, will provide information on applying for fellowships and will provide tips for assembling a complete and competitive application. This will be an interactive session and there will be opportunities for questions and discussion. Participants will be encouraged to visit the Exhibit Hall where they can visit the NASEM booth and obtain one-on-one guidance on applying for funding.

## Five Steps to Paying for College

**Amanda Ashmann**

*Wells Fargo Bank*

**Jana Vanderah**

*Wells Fargo Bank*

Exploring options for funding higher education can be overwhelming. This workshop is designed to help you navigate the process from completing the FAFSA to applying for scholarships to considering private financing, with valuable tips to help you along the way.

## Forestry Fun with Phone Apps and Project Learning Tree Activities

**Donald Motanic**

*Intertribal Timber Council*

Session participants will receive a short overview about the different forestry phone apps, such as PlantNet and others, then have an opportunity to download the apps and discover the forest. Participants will leave the presentation with an app to share with their parents, students, family, and friends.

## From Resume Writing to Maximizing Your Interview & Job Offers

**Yvonne Deffenbaugh Houghton**

*Chevron*

Whether applying for an internship or a full-time job, having a good resume and preparing for the interview are the most important parts of the application process. This workshop will outline good resume writing techniques, different types of interviews, provide guidance on how to answer some of the most commonly asked interview questions, and sealing the deal. We will review things every student should consider when deciding which offer to accept.



**GEM GRAD Lab**

GRAD Lab is the National GEM Consortium’s premier programmatic offering for undergraduates! GRAD Lab offers underrepresented students exposure to the benefits of research and technology careers in a highly interactive one-day event. GRAD Lab encourages young people of color to consider graduate engineering or science education and applying for the GEM fellowship. Focusing on the global importance of research and innovation, life-long carer benefits, and real world role models the symposium will help each student envision his or her future as a technology leader, successfully apply for a GEM fellowship, and gain entry to a graduate program.

**Gemstone Reception (Sponsors & Invitation Only)**

Open only to conference sponsors and by invitation only.

**General Motors Minority Dealer Development (GMMDD) Informational Seminar**

**Jacqueline Vessel**

*General Motors*

Since 1972, GM has been a recognized diversity leader in retail automotive and the first OEM to sponsor a program for developing Native American, African American, Hispanic and Asian minorities as dealers. The purpose of this seminar is to create student awareness about the Automotive Retail Career opportunities with General Motors and our Dealers. Highschool is a critical time where students are making decisions on the direction of their future career aspirations. This seminar will show students that an Automotive Retail Career is a great opportunity and encompasses all aspects of work in a dealership that include sales, finance, service, parts and ultimately ownership of a dealer franchise. We will explore each of these potential career opportunities, as well as review how the median annual wages compare against other industries. This seminar will provide a review of the tuition assistance opportunities available for both women and minority students via the GM Minority and Women’s Retail Network Drive to Succeed Scholarship Programs. The session will conclude with a review of the GM Candidate Program and requirements, as well as next steps students can take to pursue an automotive career.

**Government Relations Council (GRC) Meeting**

The 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, by working closely with AISES student chapters, and colleges and universities. Coordinating and participating in government sponsored workshops at the AISES National Conference, Leadership Summit, and Regional Conferences. Identifying federal funding opportunities for AISES. Supporting student and professional chapter events.

Identifying federal internship and employment programs. This end of year national meeting is for all Government Relations Council (GRC) members.

**Graduated? How to Continue Engaging the Native STEM Community**

**Aaron Ashley**

*Raytheon Company*

A common dilemma of former AISES college students whose job doesn’t directly support Natives is how they can maintain their engagement with the Native STEM community. Aaron was highly involved with AISES while at MIT and has now been working at Raytheon for a year. In this session, he will share his tips on how to stay involved with Native networking and student outreach. The session will start by contrasting how AISES is set up for college students vs. professionals, and how the audience should expect to transition to becoming role models and community supporters vs. receiving that support. The session will then pivot towards sharing Aaron’s Native outreach efforts since his graduation, which includes his active involvement in the Raytheon American Indian Network, his attendance and support of his local AISES events and outreach efforts, and his role as a judge in the First Nations Launch competition. Then, a more generalized checklist will be presented, outlining different opportunities to engage in STEM outreach and networking among other Native professionals. This will include an overview of different companies’ Native employee groups and what they do, gathered from Aaron’s AISES peers. Aaron wishes he’d seen a session like this in college.

**Great, You Landed an Interview... Now What?!**

**Cheryl McClellan**

*Boeing Company*

**Beau Williams**

*Boeing Company*

Find out what traits/competencies the interviewer is looking for, and use what you find as a road-map for preparation. Its not enough to go over a list of questions and answers in preparation for an interview. You need insight into what the interviewer is looking for. So, how do you know what they are looking for? We will tell you this and also do mock interviews with you in this interactive session.

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

The hackAISES event will be held on Wednesday, October 9th during the pre-conference events at the AISES National Conference. Crash courses in coding basics, team building, APIs, and other relevant information will be projected during the hackathon to potentially introduce students to new concepts. Mentors will be available to help students troubleshoot issues and answer questions. At the end of the hackathon, a wrap-up session will give each team a chance to present and demonstrate their accomplishments as well as award some awesome prizes! Food and beverages will be provided!

**Hackathon: Sponsored by Chevron (Registration Required)**

NEW!!! Strategize, discover, build your tech skills, and network! This is a NEW event – a mini-Hackathon for college undergraduate and graduate students! During this event, participants will work with industry professionals on a software 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

**Health Professionals Panel discussion**

**Dr. Amy DeLong**

*Association of American Indian Physicians*

Native Americans comprise less than one percent of the physician workforce and it has remained this dismal for forty years despite the increase in medical school seats. If we are to reduce health disparities and improve the health of Native Americans, it is imperative that there are more Native health professionals. A panel of Native American health professionals (physicians, resident physicians, nurses and/or pharmacists) will talk briefly about their backgrounds and what helped them become health professionals. The members of the audience will have the opportunity to interact and ask questions (previously generated questions and their own questions) in this informal and engaging setting. Students will have an opportunity to meet Native health professionals from the Association of American Indian Physicians (AAIP), in conjunction with the University of Wisconsin Native American Center for Health Professionals (NACHP).

**Heart to Heart with an AISES Elder**

**AISES Council of Elders**

*AISES*

The AISES Council of Elders was established by the founding members of AISES to provide guidance, wisdom, strength, and love to the AISES membership. As students or professionals, you may have seen the Elders from a distance at an AISES function and have been hesitant to approach them with your questions or concerns. Here is an opportunity to sit and visit with an Elder in a more informal setting. The Elders will have their own table for more personal discussions in an individual or small group setting. Laugh, cry, listen, feel, and have time to enjoy a unique visit with an AISES Elder.

**How to Have a Successful AISES Chapter**

**Steven Just**

*University of Minnesota*

**Brielle Thorsen**

*Queen's University*

Every AISES chapter would like to be successful. In this session, AISES students will share experiences and suggestions for chapter leadership, succession planning, proposal writing, and ideas for how to recruit new members and/or reactivate old members. This will be an interactive session and the audience

will have the opportunity to ask questions, share ideas, experiences, and suggestions, and role play different scenarios. Being able to get immediate feedback is great so attendees will be able to utilize the comments and suggestions upon returning to their AISES family.

**IllumiNative: Reclaiming Native Truth**

**Crystal Echo Hawk**

*Echo Hawk Consulting*

This session will provide an overview of the research findings from the Reclaiming Native Truth project, an unprecedented 2-year public opinion and strategy-setting project led by and for Native peoples. It was the largest project of its kind focused on changing the damaging, inaccurate narratives about Native peoples and dismantling the invisibility and erasure that create bias, discrimination and structural racism. It will also explore next steps in this movement to illuminate the vibrancy and power of Native voices, knowledge and stories that can transform public perceptions and move hearts and minds to advance tribal sovereignty, social justice and equity for Native peoples.

**“I’m not what you think I am”: Perception vs. Reality in a Professional Environment**

**Cherise John**

*GE Aviation*

US office culture can be traditional and slightly formal. Often diverse employees feel that they need to alter their natural style to better fit in and be seen as “one of the guys”. Being under pressure to fit a mold that does not represent a person’s natural style can result in less job satisfaction and feelings of exclusion. There is growing recognition of the value of being authentic in the workplace, although it is a gradual change in many workplaces. Native Americans in the workplace tend to be more reserved & controlled at work, however, when at home they are high-spirited, nurturing, family-focused, and sustainability driven than Anglo-American colleagues. When these qualities are employed in the office, the result is a more relaxed and supportive atmosphere, where employees feel comfortable and valued as individuals. Employers recognize that having a diversity of thought, perspectives and backgrounds is a true asset and until you feel empowered to be yourself, you are restricting your full potential. This panel session will introduce you to how to let being yourself become an advantage in the workplace with examples from Natives working in engineering today.

**Improving Workplace Climate: Strategies for Responding to Harassment**

**Sarah Dance**

*University of Wisconsin - Madison*

**Dr. Erika Marin-Spiotta**

*University of Wisconsin - Madison*

Harassment and bullying endanger the professional and personal well-being of individuals and their communities, creating hostile climates that contribute to the persistent

underrepresentation of racial, ethnic and gender diversity in STEM disciplines. This interactive workshop will 1) identify factors that contribute to hostile and exclusionary behaviors in scientific research environments, with a focus on fieldwork experiences; 2) provide community bystander intervention strategies; and 3) share resources available to protect our community and for leadership to promote cultural change at different levels. We also discuss recent initiatives by professional societies and U.S. research funding agencies to address sexual and other types of harassment. This workshop was developed by the ADVANCEGeo Partnership team with funding from the U.S. National Science Foundation ADVANCE program to transform workplace climate through bystander intervention and research ethics training.

**Indigeneering™ K-12 Outreach: Creating Ethical Spaces of Cultural Safety and Humility for Indigenous and Non-Indigenous Educator and Mentor Collaboration**

**Deanna Burgart**

*Indigenous Engineering Inclusion Inc.*

The question around how to better engage Indigenous youth into the world of STEM (Science, Technology, Engineering, and Mathematics) is a complex one. In Canada, the 2015 Calls to Action from the Truth and Reconciliation Commission have accelerated the conversation and catalyzed incredible new innovative approaches to Indigenous youth STEM outreach. IndigeSTEAM is powered by a group of Indigenous STEM professionals who are passionate about STEAM – with the A standing for Arts, Agriculture, Architecture; humanities, social innovation, creativity and fun. We believe that incorporating these aspects into STEM outreach will lead to more successful outcomes for all youth. Through inclusion and the incorporation of Indigenous wisdom and teachings, we can engage youth in a space of cultural safety and inclusion. In April, 2019, 40 Indigenous and non-Indigenous STEM professionals, mentors, educators and community members came together to dialogue and share best practices in reaching Indigenous youth in K-12 Outreach. The outcomes were unexpected and transformational. Join Deanna Burgart as she shares the outcomes, and invites participants to join IndigeSTEAM in future collaborations, starting with this interactive workshop in creating ethical spaces and cultural safety and humility for Indigenous and non-Indigenous educators and mentor collaboration.

**Indigenizing Academia**

**Dr. Grace Bulltail**

*Stanford University*

**Sami Chen**

*Stanford University*

There is a critical need for deeper support networks and academic resources specific to Native graduate students and Native postdocs. Academic programs through AISES and through universities are essential to support the long

term inclusion of Native communities and values in STEM disciplines, and to train more Native Principal Investigators (PIs). In this workshop, we will begin to address how we can collectively build the infrastructure within AISES and academia to support Indigenous scholars and concrete actions that research teams can make to prioritize Native American narratives in STEM. We will further discuss comprehensive strategies for being successful while maintaining core values from the undergraduate to postdoctoral stages of the academic journey. Then, we will identify how we as undergraduate students, graduate students, and postdoctoral students can support each other in academia. Participants will walk away equipped with new strategies and best practices related to being resourceful as a Native and underrepresented scholar in academia.

**Indigenizing Science and Reasserting Indigeneity in Research**

**Rene Begay**

*University of Colorado Anschutz Medical Campus*

**Dr. Katrina Claw**

*University of Colorado School of Medicine*

**Dr. Jessica Elm**

*University of Minnesota - Duluth*

**Riley Taitingfong**

*University of San Diego*

**Krystal Tsosie**

*Vanderbilt University*

Indigenous peoples have multiple ways of knowing and traditional knowledge systems that are distinct from non-Indigenous Western perspectives. These onto-epistemologies are embedded in oral traditions, ceremonial practices, beliefs, and general knowledge of our ancestors and inhabitants of global lands for millennia. However, Indigenous science or Traditional Ecological Knowledge (TEK) is often overshadowed and minimized by modern Western science. The latter is often seen by the dominant society as being more “objective” whereas TEK might be viewed as anecdotal, imprecise, and valued only when in conjunction with largely non-Indigenous academic paradigms. This veneration of Western science has the effect of undermining the embodied and relational ways of knowing developed over countless generations, passed down by elders to the next generation, and rooted in centuries of observational and experiential learning. This session will present and elevate interdisciplinary research that incorporates Indigenous traditional approaches and worldviews in the sciences. Syncretizing or integrating Indigenous and Western approaches diversifies and adds foundational knowledge and methods to diverse fields that can advance global understandings of health, medicine, and biology at all intersections. In particular, we wish to showcase the research by Indigenous scholars to assert that “science” can be Indigenous, plus Q&A with the audience.



## **Indigenizing the Future of Business**

**Adam Leggett**

*Stantec*

Indigenizing the future of STEM requires a holistic approach to building stronger connections for tribal communities. Increasing the representation of Alaska Native and American Indian STEM professionals in business requires innovative approaches and partnerships, as well as early interactions. We will present a case study of our Alaska Native Program which was developed around the four pillars that integrate Stantec’s core values and focuses on the development of partnerships with Indigenous programs that strive to effect change within the Native population and create a path to STEM careers. In our interactive presentation format, we will discuss and provide examples of how we “put people first” by facilitating and promoting Alaska Native and American Indian recruitment, retention, awareness, and engagement in order to become an employer of choice. We will also discuss how we “do what is right” by fostering and providing internal awareness of Indigenous cultures, histories, and traditional knowledge. We will delve into our belief that we are “better together” by highlighting our efforts to strengthen connections and make meaningful contributions to the Alaska Native community. Last, we will show how we are “driven to achieve” by creating partnerships with Alaska Native and American Indian businesses, Tribes, educational institutions, and nonprofit organizations.

## **Indigenous Methods to Bridge Cultural Gaps in the Classroom**

**Maya Contreras**

*South High School-Denver*

**Hawk Jerome**

*John F. Kennedy HS-Denver*

**Jennifer Wolf**

*Project Mosaic LLC/Denver Public Schools*

Indigenous people are natural scientists, making observations, testing approaches, refining methods to interact with world around them with respect. We can apply these methods to build connections to bridge cultural gaps that occur in the classroom and beyond. Eventually, we can take those tools to the workplace, and other relationships as we interact with non-Natives throughout our lives. This interactive workshop will help participants explore Indigenous Methods to solve racial misunderstanding that may occur with a teacher, a classmate, or even a friend. How can we impact change for the positive and embrace learning opportunities by preparing for these inevitable conflicts? Participants will share and rehearse best practices, including using one of our people’s best tools...humor. Come ready to share your positive and negative experiences of dealing with racism in the classroom and we will generate ideas together. Indigenous people are highly effective collaborative problem solvers.

## **Indigenous Perspectives in STEM : Exciting Careers in Oceanic and Atmospheric Sciences**

**James Daugomah**

*NOAA/NOS/NCCOS*

**Catalina Martinez**

*NOAA/OAR/Ocean Exploration*

**Jackson Osborn**

*Cooperative Institute for Research in Environmental Sciences/NOAA*

**Bill Thomas**

*National Oceanic and Atmospheric Administration*

*National Ocean Service/Office for Coastal Management*

Rapid technological advances tend to catalyze new fields and career paths, resulting in transformational innovations and careers that continuously evolve. This is true for many STEM fields, and is certainly the case for oceanic and atmospheric sciences. Come and learn about various exciting careers in oceanic and atmospheric sciences from the perspective of Indigenous scientists to gain insight from their experiences. Panel participants will share challenges and pitfalls, as well as successes and accomplishments, and will also share internship, fellowship, scholarship and career opportunities. Students and early career professionals are encouraged to attend. As a result of this session, participants will: 1) Gain an appreciation for the importance of oceanic and atmospheric sciences from an Indigenous perspective; 2) Learn about some unique, exciting careers that many participants may not have considered otherwise; 3) Gain exposure to how rapid technological advances result in new opportunities; 4) Learn about a variety of internship, fellowship, scholarship and career opportunities associated with oceanic and atmospheric sciences; and 5) Experience successful professionals from cultural and ethnic backgrounds that remain sorely underrepresented in STEM fields, to hopefully broaden perspectives of who they can become.

## **Indigenous Youth Forum: Preparing for Future Leader...Now!**

**Marcellus Proctor**

*NASA Goddard Space Flight Center*

If we are going to have a successful workforce, both private and federal, it must be one that looks like the diverse makeup of America. This forum is intended as an opportunity for students and potential employers to hear from Native youth leaders as they describe what barriers and opportunities are present in entering the workforce. Several AISES student leaders (Chapter Presidents, regional representatives, community leaders) will give their perspective in what attracted or hindered them in applying for an internship or full time position. This session is highly recommend for college students and recruitment personnel, both private and federal, as they will hear what approaches work and do not work in recruiting Native students. This forum is modeled after the summer intern panel that is held every year at the AISES Government Relations Council summer meeting.



## Indigineering - Engineering through Mino-Pimachisowin

**John Desjarlais**

*Great Plains Contracting*

Indigineering explores the practice of Engineering through the lens of an Indigenous Engineering practitioner and the application of Cree language concept of Mino Pimachisowin - to live a good life. This Indigineering, more specifically is performing engineering while incorporating Cree ways on knowing; virtues that help to secure the ability for Mino Pimachisowin - to live a good life. Indigineering through the practice of the Mino Pimachisowin would help to build a pathway between the Indigenous community and Engineers, and further develop the Indigineering ability. This session begins by highlighting the infrastructural needs of Indigenous communities in Canada, how the Engineering profession can assist those needs, and close the access gap that exists between the profession and Indigenous communities. Next, it will elaborate on the concept of Indigineering, especially how the code of ethics from the Engineer profession can fit well with the cultural values of Indigenous peoples, using Cree as an example. Integrating Indigenous concepts, such as wahkohtowin, mino wicheetowin, and tapwewin, into engineering would help to indigenize the profession and make it more accessible to Indigenous people and better for everyone.

## Introduction to Lean Manufacturing

**Todd Ambo**

*3M Company*

**Sandra Whitney**

*3M Company*

What is Lean Manufacturing and why is it important? In this session, we will explore the fundamental principles of lean manufacturing. Attendees will participate in a hands-on exercise demonstrating the usefulness of lean principles to the factory. We will review lean methodologies such as 5S (i.e. Sort Straighten, Shine, Standardize, Sustain) identifying the 8 wastes and standard work. Lean methodologies can transcend the factory floor and be applied to home life too. Come and learn how to reduce waste in your place of work, home, and life to make continuous improvement the new standard.

## Introduction to Open Source: Technologies to help Indigenize STEM

**Rosario Robinson**

*AnitaB.org*

The way we learn is changing rapidly and now more than ever tools matter in delivering great learning content that is easily accessible. But what happens when learning opportunities are not available to those from disenfranchised communities who miss out on economic empowerment and sustainability? This workshop will introduce open source to the AISES community. From GitHub to Python to Jupyter Notebooks, this workshop will provide brief introduction to these open

source technologies as well as provide additional learning resources. We'll explore industries and research that are using open source technologies and how it has impacted some of the current work such as machine learning, blockchain and infrastructure to name a few.. Furthermore, we hope to spark more learning, collaboration and discussion around how to solve and/or create new solutions and how these learning opportunities are more inclusive and can close the learning and economic gap. This workshop will provide AISES community with open source technologies to help indigenize STEM. We will be providing hands-on experience in these tools so please bring your laptop. If you don't have one, we'll provide you with resources where you can still use after the conference.

## Join a Discussion: AISES Framework of Discovery

**David Cournoyer**

*Plain Depth Consulting*

What does every individual need to discover his/her/their gifts? What conditions enable a team to unleash innovation? What resources, supports and opportunities do people need in order to grow and develop over time? Join this interactive discussion to consider a framework of supporting development and discovery - in the context of Indigenous thinking and STEM fields - that AISES can utilize to connect and leverage discrete programs across student success, professional support and more.

## KAIROS Blanket Exercise

**Prairie Rose Seminole**

*American Indian and Alaska Native Ministries - ELCA*

**Montoya Whiteman**

*American Indian Science and Engineering Society*

Created in 1997, the KAIROS Blanket Exercise (KBE) explores the major themes and findings of the Royal Commission on Aboriginal People that exists in adaptations in Australia, Guatemala, and the United States. This workshop is an American version of the KBE that is a highly participatory history lesson covering more than 500 years in a 90-minute experiential workshop that is designed to foster truth, understanding, respect, and reconciliation among Indigenous and non-Indigenous peoples.

## Kanata, eh?: A panel on contemporary understandings of Indigeneity in Canada

**Matthew Dunn**

*University of Saskatchewan College of Engineering*

**Jamie Ricci**

*Indspire*

First Nations? Métis? Inuit? Indigenous peoples? Join as panelists shed light on their experiences as Indigenous peoples in the Canadian context, how they see similarities and differences when visiting AISES in the American context, and what they wish folks would understand about First Nations, Métis and Inuit. Panelists will include students and

professionals who are First Nations, Métis, or Inuit studying or working in Canada and the U.S.. Attendees will leave with more knowledge of First Nations, Métis and Inuit peoples and information about how programs and policies affect FNMI STEM students and professionals.

## Knowledge Transfer: Wisdom and Guidance for Management Success

**Marcellus Proctor**

*NASA Goddard Space Flight Center*

**Anthony Sanders**

*NASA Goddard Space Flight Center*

In this interactive session, the audience will have the opportunity to be part of scenarios where they see situations from a manager's point of view. The audience will hear from seasoned NASA managers and gain knowledge about what it takes to be an effective manager, lessons learned, and tips on conflict resolution. The audience will come away with what the characteristics are to be a successful manager and leader by understanding the importance and function of active listening, providing constructive feedback on employees' performance, and managing conflict from both personnel and other managers within an organization.

## Leading a Team of Volunteers While Avoiding Burnout

**Matthew Dunn**

*University of Saskatchewan College of Engineering*

**Jamie Ricci**

*Indspire*

This session will share lessons learned from our time as the founding Co-Chairs of the Canadian Indigenous Advisory Council (CIAC) to AISES. We will start with a brief history on the formation of CIAC and how AISES enabled this awesome group of people to come together. We will then discuss the strategies that we used to coordinate and run meetings so that everyone's voice was heard, how we motivated each other when life got hectic, and review the accomplishments of CIAC over the past two years. Attendees will learn of a variety of tools and first hand experiences that work (and don't work!) to use in their own council, committee or working group.

## Lean Six Sigma White Belt Certification presented by America's Navy

**Phil Jones**

*America's Navy*

Process improvement aims to make work and work products better, faster, cheaper, and safer. Lean Six Sigma is an internationally recognized methodology for eliminating waste, reducing variation, and managing constraints. In this introductory course to Six Sigma training, workshop attendees will learn the fundamental principles of process improvement, gain hands-on experience with some of the tools and techniques, and receive certification as a Lean Six Sigma White Belt. This is your opportunity to learn the foundation

of the premier business methodology used at Fortune 500 companies across the country. Target Audience: College Students

## Learning for the Health of It: Health Career Exploration with NACHP

**Dr. Bret Benally Thompson**

*University of Wisconsin - Madison*

**Lina Martin**

*Native American Center for Health Professions*

**Danielle Yancey**

*Native American Center for Health Professions*

In this session students will explore the wide variety of health care career options that exist at the Native American Center for Health Professions. Students will also have an opportunity to explore human anatomy through a hands-on organ demonstration with Native health professional students and professionals to get a glimpse of what it's like to train and serve in the health field.

## Lego Serious Play

**Carolyn Jurca**

*Intel Corporation*

LEGO® SERIOUS PLAY® is a facilitation methodology rooted in play theory, constructionism, and constructivism. Basically, humans learn best and are more engaged when we use our hands and tell stories. Certified LEGO® SERIOUS PLAY® facilitators lead groups through a series of exercises to guide them to wonderful and meaningful discovery.

## LGBTQ+ Rainbow Gathering/Talking Circle (All Welcome)

Join us at the Annual AISES Rainbow Gathering. Here, everyone is welcomed in an inclusive environment where Lesbian, Gay, Bisexual, and Transgender (LGBT) individuals, and their Allies assemble to show support for all our AISES family and friends. Through this gathering we will create a "Safe Space," giving attendees the opportunity to share stories and ideas for shaping AISES culture that is accepting of all people, regardless of sexual orientation, gender identity/expression, or any other difference. The Rainbow Gathering celebrates who we are, in the context of our Native American traditions, and gives support to LGBT individuals and their Allies. By removing barriers, AISES hopes to strengthen our organization as we promote the American Indian and Alaska Native presence in the STEM fields.

**Cancelled**

**Indigenizing  
the Future  
of STEM**

**Listening, Sharing & Conversing with 8 Top STEM Companies**

**Leona Anderson**

*Boeing Company*

**Mark Fairbanks**

*3M Company*

**Heather Heckler**

*General Motors*

**Bonnie Murray**

*NASA*

**Rhonda Peters James**

*Intel Corporation*

**Juanda Siddiqui**

*Raytheon Company*

This session will provide an opportunity to share stories and begin conversations with the Boeing, General Motors, NASA, Intel, 3M, Amazon, Raytheon, and the Navy. During the conversation we hope to discuss needs of American Indian and Alaska Native students and communities, debunk misconceptions about these companies, identify available resources, and share a variety of existing engagement opportunities with these STEM companies. The session will be held in a storytelling format, with time for engagement through listening and sharing as the focus. Students have the unique opportunity to meet with as many corporate partners as possible.

**Look Ma! No Steering Wheel! Autonomous Vehicles Today and Tomorrow**

**Josef Sanchez**

*Zoox Inc.*

Tech companies and automakers are working to safely deploy autonomous vehicles around the world. Zoox, a leader in this mobility revolution, is applying the latest in automotive, robotics, and renewable energy to design a symmetrical, bidirectional, zero-emissions vehicle from the ground up to solve the unique challenges of autonomous mobility. Conventional cars on the road today are optimized around human vision. They allow for a human driver to see what she needs to in order to complete the driving task safely. Retrofitting conventional cars with sensors and compute will not lead to the full realization of autonomous mobility. To fully realize this future, Zoox is developing a fully autonomous electric vehicle, the A.I. software stack to make it drive, and the service for point-to-point mobility in large cities. Learn about the innovative engineering that goes into designing and making a vehicle drive itself safely in the world and meet the engineers who build it. At Zoox, our vision is to connect people and places in wonderful ways, while at the same time improving public safety and reducing harmful greenhouse gas emissions.

**Make a Masterpiece - Why Scientists Need Art!**

**Dr. Ruth Picket Seltner**

*Mount Royal University*

Science can be both exciting and daunting! There is a definite role for art and the artistic eye in learning science. For many students, science means studying books and memorizing facts, but in reality science is about looking and doing!. What do I see in the world around me, and how do I explain it in a way that brings it to life? In this workshop, we explore the relationship between art and science, and start to understand why honing our observational skills will make us better scientists. Have you ever wondered what your cells look like at a microscopic level? How tissue is organized, and how this structure helps it do the things it needs to do? What is special about the plants that surround us? Science can be beautiful and observing science through the lens of an artist can help us understand structure and function and our place in the world of living things. Come and enjoy the beauty of the world. See it, observe it, and draw, paint or sculpt it! Make a masterpiece, and learn about a different way of approaching scientific learning.

**Marketing Ourselves for Success**

**Lacey Arseneau**

*Social Interest Solutions*

This presentation seeks to highlight the importance of being ones most authentic self during job hunting and encourage Native professionals to advance their careers in STEM. In addition, this presentation will discuss methods/practices on how to leverage current tools, progressive thinking and traditional values to ensure all are managing their image for success. A critical tool for managing your own image is recognizing and aligning with those that will benefit your position through meaningful relationships. Detecting the skills, strengths and tendencies of others as you “read the room” is critical for developing your professional network and growing yourself through constructive interactions. This presentation has three primary goals: (1) to illustrate why soft skills and hard skills are equally important; (2) to demonstrate how effective relationship building can create opportunities for personal and professional growth; (3) to describe what effective and ineffective communication looks like to bridge the gap from “hello” to “hired”.

**Marquette University Tour (10-min 6 block escorted walk to 1250 W Wisconsin Ave, Milwaukee)**

Join us for a bird’s eye view and experience at one of the most innovative Catholic, Jesuit universities in the world. You will learn more about our academic programs and student life opportunities during a welcome presentation led by an admission counselor. This will be followed by a campus tour, which will include academic buildings, the student union, and many more special locations across the campus. A behind the scenes look at the College of Engineering will



generate wonder and inspiration about a field that leads bold, innovative change to serve the world. Meeting Location: From inside the convention center, follow the overhead signs to the Ballroom (1st Floor). Once at the Ballroom B foyer, go through the doors and meet outside the building. Agenda: 1:30PM MU Ambassadors meet the tour group at the Wisconsin Center and walk to MU 1:50PM Arrive at Marquette University Undergraduate Admissions 2:00PM Admissions presentation 2:30PM Wrap-up and embark upon campus tour 3:00PM Stop and visit the College of Engineering 4:30PM Relax in the Alumni Memorial Union 5:00PM Depart campus with MU Ambassadors and walk to Wisconsin Center 5:30PM Arrival back at the Wisconsin Center www.marquette.edu Target Audience: High School students Maximum: 50 attendees

### **Mayo Clinic Global Medical Simulation Workshop**

**Dr. Rahul Kashyap**

*Mayo Clinic*

You are invited to visit a Mayo Clinic global simulation environment. You can visit with care providers and staff, view the technology used in health care delivery, and have hands-on experiences with a team in a simulated emergency scenario. Led by highly experienced and world renowned facilitators, these exercises provide an experience of how a health care response team must work together in a crisis. In this safe and supportive learning environment, participants will be encouraged to serve as medical professionals in a variety of care and support roles to treat mannequin “patients”, work with medical equipment, and operate as a team. This workshop is appropriate for students and professionals to consider STEM opportunities – especially for health education and health careers. There will be 3-4 station based simulation workshop, including but not limited to: Use of mobile ultrasound, Primary response to medical emergency, How to provide breathing by bag-mask and Endotracheal tube, Team work and Triage during natural disaster. The facilitators have rich experience running these fun filled educational workshops for medical students, high school/college students, as well as health care providers like doctors and nurses.

### **Medical School 101**

**Dr. Jonathan Baines**

*Mayo Clinic*

American Indians and Alaska Native constitute 2% of the U.S. population yet only 0.5% of all physicians. This contributes to significant health disparities. Of all racial groups, only American Indians and Alaska Natives have seen an actual decline in the total number of applicants and matriculants to medical schools over the last 20+ years. This session will focus on stories of success getting into medical school and what admission committees are looking for, including both medical schools and MD/PhD programs. It includes tips, tricks and strategies for the application and MCAT preparation. Finally, strategies for finding scholarships and handling the challenges of medical school will be discussed.

### **Men’s 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.

### **Micro Start-ups: Extra income without large risk Gage Hutchens**

*Wells Fargo*

You have skills! We all do. How do we translate skills into some extra income? During this highly interactive session, the presenter will leverage his 20+ years of entrepreneurial experience to create a collaborative dialogue between audience members. Together we will examine your specific situation and your skills as they related to income creation potential, and outline marketing needs and resources, and touch-on regulatory challenges if applicable. How much can you ask per hour and from whom? How can you access those markets and leverage your skills to earn “side money” and improve your hire-ability over the longer term? Can your hobby become a revenue rather solely a cost center? Can you turn your passion into a gig which brings in some side-income? Bring your whole self to this discussion, lay out your goals and skills and we will talk through options. The presentation will contain a few examples but primarily will be generated dynamically from audience content. The presenter will also make himself available during the conference and afterward as an ongoing free Q/A resource for students and young professionals.

### **More Than Engineering. An Introduction to Engineering Client Management**

**Nicole Shaw**

*Souder, Miller & Associates*

**Thaddeus Yazzie**

*Souder, Miller & Associates*

Whether it be a road, drinking water system, or solar farm, engineers must not only design those elements, but they must work alongside their client in doing so. During the planning process, an engineer will develop several alternatives that satisfy their client’s needs. Working with their client to select a preferred alternative based on criteria such as safety, design lifespan, constructability, and cost, the project will progress into the design phase. In this session, engineers from the consultant engineering industry will present that being an engineer is more than what is taught in college. Working with a client on a project requires a positive relationship during the design process. Effective methods maintaining that relationship will be presented. After the lecture, the audience will have an opportunity to collaborate in small groups on an example engineering project in which they will select from a series of alternatives and present to their client, the



session presenters, why they think it will satisfy their client's needs. Participants will come away with additional tools to effectively collaborate on a project with a client and a greater understanding of the engineering profession.

## 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 American Women in Computing: Using Technology to Teach from a Native Perspective

**Andrea Delgado-Olson**

*AnitaB.org/Native American Women in Computing*

Passing down knowledge from generation to generation and leveraging technology to preserve and share that knowledge can be challenging. During this session I will share examples of what my tribe is doing to support the preservation of knowledge and language, but also how it can be tailored for non-natives to teach accurately about Native Americans from our Perspective. Year after year I struggle with my children's schools and how they teach about Native Americans and our culture. The way Natives are depicted in the curriculum is teaching students that Natives are (you know the terms...) "savage", "uncivilized" and even extinct! In my town's community garden there is a camp being offered, called "In the Spirit of the Local Saklan Miwok". The most troubling part of the description was the last sentence, "Soon, as now a Miwok, you may want to stay longer." Learning about a culture does not make you a part of that group. Northern Sierra Miwok dialect sokpa- "to teach" miw'a - "language"

## 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.

## Native Contributions - Creating and Supporting Effective Teams

**Todd Dunivan**

*Sandia National Laboratories*

A noble challenge for any organization is how to best create and support a team that is highly effective and makes the most of team member contributions. This is not simply a leadership challenge but a responsibility for team members at all levels. In this session we will explore some key concepts related to both the creation and support of effective teams. Following our review of foundational material and conventional solutions we will have an interactive activity to put our collective Native brainpower to work! A goal of the session is to use Native cultural wisdom as a springboard for solutions to this classic organizational challenge. Indigenous peoples may have some different contributions to this challenge due to our unique culture and values. The contributions we provide to the work space on this topic not

only help the team to be as effective as possible, but those contributions also open up additional career growth potential and the ability to strengthen our impact over time.

## Native Student Power: Using Your Voice for Education Equity

**Angelique Albert**

*American Indian Graduate Center*

**Cheryl Crazy Bull**

*American Indian College Fund*

**Sarah EchoHawk**

*American Indian Science and Engineering Society*

This session highlights strategies and best practices by which American Indian and Alaska Native students can transform their college campuses toward safer and welcoming environments for themselves. Students have the capability to address issues on campus that create obstacles to their social and academic well-being through building allies, fostering advocates among leaders and faculty, and through networking across college campuses. In 2018, declarations of Native Purpose in Higher Education were created by a convening of Native students, educators, policy advocates, and institutional leaders. These declarations provide a path for a more welcoming and inclusive environment and led to the development of additional resources that students can use to build their own advocacy skills and transform their campuses through their own personal and political power.

## Natives in Tech: Building Software that Supports Native Culture, Knowledge, and Identity

**Adam Recvlohe**

*Natives in Tech*

**Coty Sutherland**

*Red Hat Inc.*

Natives in Tech is a coalition of Native and non-Native developers who support software developers and/or applications that reinforce Native culture, knowledge, and identity. Over the past decade, open source technology has grown exponentially and with that has grown online communities. In this presentation, you will learn about Natives in Tech and its goal to elevate Native developers and Native-centric applications with the help of open source technologies.

## Navajo Teachings Applied in a STEM Career

**Joshua John**

*Raytheon Company*

Flight tests are a costly, highly visible, and critical event in the life cycle of any aerospace program. The flight test unit can be a missile, rocket, spacecraft, or aircraft. The flight test gathers critical data to validate and verify requirements that an aerospace system is ready for operational setting and production. In this workshop, using the recent Flight Test Ground-based midcourse defense Eleven (FTG-11) for the

Missile Defense Agency as a case study. Participants will be able to view footage from the flight test and learn how a flight test is completed. Participants will see how applying Navajo teachings to make the planning and execution of this flight test successful. Participants will have the opportunity to explore how to apply their Native traditions to their STEM careers.

## Navigating Career Paths and Business Start-ups

### Misty Mousseaux Begay

*MMPowered Strategies*

MMPowered Strategies is a team of advisers who believe in community ownership and authentic development. We help create your business, make your mission a reality, and locate resources to aide in your project success. We also facilitate training and workshops on: A light perspective of choosing a career path, how to get the most of your work experiences and if a nonprofit or small business is in your future. We go over a quick strategy questionnaire handout and do a quick review and recommendations based on group answers. Each attendee gets a small binder filled with helpful information on business start-up, nonprofit development, creating your mission statement and funding ideas, and resources plus a networking ice breaker and calendar guide. The session is packed with resources, hands-on activity and a packet of valuable information to take home with them.

## 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 Exhibit Hall A!

Academia and Research  
 Armed Forces/Intelligence: Sponsored by the National Security Agency  
 Chemistry: Sponsored by American Chemical Society  
 Chevron Energy: Sponsored by Department of Energy  
 Facebook Health and Medical Science: Sponsored by University of Wisconsin Health  
 IBM Intel Manufacturing and Consumer Goods: Sponsored by 3M  
 Natural Resources, Food and Agriculture: Sponsored by USDA National Resource Conservation Service  
 Raytheon Tech, Telecom and Casino Gaming  
 The Boeing Company

## NextGen STEM: Cultivating a Diverse STEM Workforce to Solve Global Challenges

### Dr. Iris Wagstaff

*American Association for the Advancement of Science*

This session will share professional development and science communication skills development opportunities for undergraduate and graduate student researchers from diverse backgrounds, and who are underrepresented in STEM

fields. The session will also share opportunities to learn about various STEM career pathways in academia, industry, and the federal government. As a result of this session, participants will learn about resources, opportunities and support mechanisms to cultivate a diverse cadre of undergraduate and graduate student STEM researchers in their educational and career aspirations. Participants will learn about travel award opportunities to present their research, participate in professional development and skills development sessions that include topics such as applying for graduate and medical school, finding summer research opportunities, mentoring, writing abstracts, and presenting research data. Other goals and objectives of the session are to provide examples of how students can leverage and integrate their diverse backgrounds, lived experiences, and culture into their research to address critical issues of diversity, equity and inclusion in STEM. Finally, participants will gain knowledge of how to engage and leverage virtual scientific communities to share resources about STEM career pathways and innovation and entrepreneurship in STEM.

## NIH and Tribal Biomedical Research: Tribal Health Research Office, an Introduction

### Dr. Maria Jamela Revilleza

*Tribal Health Research Office, DPCPSI, NIH*

### Dr. David Wilson

*Tribal Health Research Office*

The presentation will introduce the Tribal Health Research Office, (<https://dpcpsi.nih.gov/thro>), its specific goals, and current efforts especially on student training. THRO is the central hub of coordinating Tribal health research across the NIH; gathering meaningful input from Tribal communities on NIH policies, programs and activities; and creating opportunities for the next generation of AI/AN researchers at the NIH. The NIH supports scientific studies that turn discovery into health and presenters will share recent developments that have impact on Tribal research, especially student training in STEM. The Strategic Plan for Tribal Health Research will be shared.

## NSA and Intelligence Community STEM Careers

*CIA Representatives*

### Wiley Jones

*National Security Agency*

### David Luber

*United States Cyber Command (USCYBERCOM)*

### Rita Sampson

*Office of the Director of National Intelligence*

The Intelligence community (IC) is made up of 17 agencies and there are a number of opportunities for students and professionals seeking careers in STEM and business fields. The panelists represent an IC agency or the Office of the Director for National Intelligence (ODNI) and will provide a view into STEM opportunities at their respective organizations. The IC values diverse perspectives of all potential candidates for

employment and that includes perspectives of our Indigenous people. Please come and hear of STEM opportunities. There could be a career in the IC waiting for you.

## NSF ASSIST Meeting

This is a faculty career development workshop for ASSIST scholars. By invitation only

## NSF Lighting the Pathway Meeting

This is a faculty career development workshop for LTP scholars. By invitation only."

## Open Mic Storytelling

The telling of stories remains an essential part of many Indigenous communities. It is used as a way to preserve the past while enhancing the heritage for future generations. For many Indigenous communities the re-telling of stories promotes culture and history knowledge as well as transmits educational messages. We invite everyone to come and share your favorite cultural or generational story.

## Opening Ceremony

Kick off the 2019 AISES National Conference with a welcome to Milwaukee and inspirational speakers.

## Opening Doors to the USDA/Agricultural Research Service Labs

### Dr. Craig Wilson

*USDA/ARS and Texas A&M University*

Dr. Wilson currently runs the USDA Future Scientists Program and ran a Teacher Educator Program for NASA. Engage in hands-on activities that can be easily replicated in your classrooms at little cost. Corn (*Zea mays*) will be a focus and include handling and learning about the corn earworm (*Helicoverpa zea*) a major crop pest. Calculate the calorific value of an almond and see how the crop is dependent on pollination by bees sent from Texas to California and the environmental hazards they face through Colony Collapse Disorder (CCD). Dr. Wilson is part of a nationwide effort to sustain the Miracle Monarch butterfly (*Danaus plexippus*) migration. Learn how you and your students can become involved in helping too. His work with the USDA/Agricultural Research Service (ARS), the research arm of USDA, allows him access to the 85 research labs and centers nationwide. He can open doors for you to visit these with your students to learn first-hand of world-class Agricultural research taking place within your communities and how to engage with them as they support strong educational outreach. Come prepared to roll up your sleeves and take part. Life is better as a participant than as a spectator.

## Pamunkey's Heritage Farming Project

### Dr. Warner Orozco

*Virginia Cooperative Extension and Pamunkey Indian Tribe*

Sustainability is an interdisciplinary field that promotes environmental health and restoration, social equity, and

economic vitality. Native Americans honor their rural roots by preserving a cultural connection with the landscape and the values of their ancestors. However, several communities are being affected by poverty and environmental degradation. To reverse this trend, we must implement strategies that support rural development while protecting the environment and rescuing the traditions, and culture. Currently, in collaborative partnership with the Pamunkey Tribe, The Cooperative Extension is developing an educational program to encourage food sovereignty by using an experiential learning model. We are increasing agricultural literacy in the community by teaching how to produce food using sustainable methods. At the same time, our program promotes the rescue of their heritage farming knowledge (traditional crops, heirloom varieties). The program is also collecting cultural ethno-botanical knowledge from the elders. The information gathered is being documented and supported with literature. The final product of this project will be an educational resource (e.g., booklet) that will provide the natural history of the plant. This history will include the name of the plant, scientific name, nutritional or medicinal information, and name in the native language. Attendees will walk away with learning the educational tools to foster a Native American community into conserving cultural values, history and the environment.

## Panel Discussion: Game of (Stetho)scopes

### Marcy Averill

*Mayo Clinic*

With some riffs on Game of Thrones, we will explore paths to medical school with current medical students and medical school pipeline program staff from different locations. Mayo Clinic will host this discussion and help you to understand why it is so critical right now to increase the number of American Indian/Alaska Native students applying for Medical School and entering other health professions, too. In addition to recommendations on resilience, we will establish some core strategies for success and best practices for applications and interviews. The session will be highly interactive, asking the audience to identify with a House specialty, exploring the best of that House's characteristics, and determining how one can best survive and thrive. We are determined to bring about better outcomes than those featured on television programs.

## Partner Tour: Data Holdings Center

*(8-min bus ride to 3135 W Highland Blvd, Milwaukee, WI 53208)*

Data Holdings owns and operates Wisconsin's Premier Tier III+ Commercial Data Center. Centrally located in Milwaukee with a LEED Gold design, Data Holdings offers a full suite of solutions and services designed to meet any needs. Meeting Location: From inside the convention center, follow the overhead signs to the Ballroom (1st Floor). Once at the Ballroom B foyer, go through the doors and meet outside the building. Target Audience: College Students and Professionals



**Partner Tour: UPS Oak Creek Hub Tour**

*(18-min bus ride to 6800 S. 6th St., Oak Creek, WI 53154)*

UPS is inviting AISES to tour the Milwaukee area UPS Facility. The facility is a 320,000 square foot package facility that operates 7 days a week. Named the Oak Creek Hub, the hub processes 300,000 packages daily. A large percentage of the volume processed is sorted through the automated small sort. Roughly 37% of the daily volume is processed through our Small Sort. During the tour, we will explain how packages flow through this large facility to the point of delivery. UPS is a global leader in logistics, offering a broad range of solutions including transporting packages by utilizing world class technology to more efficiently manage the world of business. We look forward to having you tour our facility. Requirements for the tour: Security check-in to obtain Visitor IDs to be worn during the tour; sturdy footwear must be worn (no open toed shoes or sandals) and no video or photography is allowed. Meeting Location: From inside the convention center, follow the overhead signs to the Ballroom (1st Floor). Once at the Ballroom B foyer, go through the doors and meet outside the building.

**Picture of Native Ag**

**Cindy Farlee**

*Native American Agriculture Fund*

**Karli Moore**

*Native American Agriculture Fund*

The Native American Agriculture Fund (NAAF) provides support for business assistance, agricultural education, technical support, and advocacy services to Native farmers and ranchers. NAAF envisions a sustainable, highly productive ranching and farming economy that brings pride, honor, prestige and prospective to Indian Country. In addition to grantmaking, NAAF seeks to provide valuable resources and expert information on Native agriculture. During this 50-minute presentation, NAAF staff will share a concise history of Native agriculture and discuss relevant findings from the 2017 U.S. Department of Agriculture Census. We hope participants walk away more knowledgeable about the current state of Native agriculture. Whether you are an experienced agriculturalist or newly interested in food systems, please join us for an engaging, interactive and informative session.

**Poster Research Presentations Setup**

Participants are expected to mount their posters on Friday. Author(s) must be present at their poster during the judging period.

**Poster Research Presentations sponsored by Alfred P. Sloan Foundation; CIRES; and AASONA**

The Student Research Abstract Booklet is sponsored by NOAA

**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 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.

**Professional Members Mixer sponsored by The Boeing Company**

*(Ticket purchase required)*

Join us for the inaugural 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.



## Public Health Research Informed by American Indian Traditions and Cultures

**Madison Anderson**

*American Indian Cancer Foundation*

**Kristine Rhodes**

*American Indian Cancer Foundation*

From the food you eat to the fluoride in your water, public health is woven into your everyday life. Many think of health as treating an ailment, but public health provides an opportunity for preventing disease at a population level. This session will provide an overview of public health, how to incorporate community stakeholders in the research process and how to integrate cultural knowledge into western research methods which are paramount to decreasing health disparities seen within American Indian and Alaska Native communities. Through hard work, culturally appropriate community-based programs and policy change that affords Native people access to the best prevention and treatment strategies, the American Indian Cancer Foundation (AICAF) envisions a day where American Indian communities are free of the burdens of cancer.

## ReFigure Your Biotech Career

**Dr. James Akin**

*Scimpact, LLC*

**Dr. Girija Goyal**

*Scimpact, LLC/Harvard University*

We will highlight 1-2 case studies of cutting edge research at the interface of biology and engineering using our online tool ReFigure. We will then lead attendees in a literature review activity on the topic of their choice (or STEM field), using ReFigure to save and publish their insights. We will discuss additional digital tools that are changing the way we communicate, interpret and discuss data and experimental results. Attendees will leave with transformative knowledge on how they can get the most out of their expertise and talent, as well as having generated a novel, citable insight over the course of the workshop. In addition, the presenters (and founders of ReFigure) will share additional insights on being entrepreneurs with a STEM background.

## Re-Indigenizing the Curriculum: Teaching to Stoke our Inner Fires

**Dr. Mae Hey**

*Virginia Tech*

Dr. Mae Hey will introduce participants to a model she designed through her research that guides teachers in the creation of curriculum aligned with Indigenous teaching methods. This model is intended to support natural learning instinct, balanced experience, identity building, and correlations to Nature's absolute laws to fully utilize the teachings around us, found in Nature, for us to become better Beings - Beings aligned with the rhythms of the Land. This method encourages both the engagement with curricular material as well as the cultivation of ever-more complete Beings, which IS the ultimate goal of education. The session

will provide a summary and orientation to the model, but the bulk of the session will be focused on participants actually workshopping with Dr. Hey and colleagues to implement the model into the improvement of the learning opportunities they orchestrate for students. That said, when you attend the session, bring a lesson, unit, or curriculum from your work that you wish to work on enhancing.

## Reproducible Genomic Data Analysis with the Galaxy Workbench

**Dave Clements**

*Johns Hopkins University*

**Dr. Mo Heydarian**

*Galaxy Project/Johns Hopkins University*

This hands-on workshop will introduce genomic data science through guided exercises using the Galaxy workbench (<https://galaxyproject.org/>). Participants will learn principles of human genomics, be introduced to data science best practices using Galaxy, and perform analysis on genomic data with interactive and batch based approaches. Workshop participants will be introduced to practical examples of how genomic data is used in research and clinical applications, highlighting techniques, technologies, and platforms used in genomic analysis. The current state of genomic science will be presented, with emphasis on population level sequencing projects involving hundreds of thousands of genomes, and analysis platforms that can scale to meet the demands of such projects. Participants will engage in guided activities using the Galaxy workbench to demonstrate best practices of data analysis. Hands-on exercises will expose participants to Galaxy features that enable accessibility, reproducibility, and transparency in data analysis pipelines. Participants will work through sample pipelines analyzing population level human variation, characterization of disease variants, and data visualization. Participants of this workshop will achieve an understanding of Genomic Data Science. The presentations and hands-on exercises will provide practical exposure to the field of Genomics for young scholars.

## Resilience: Messages from a Survivor

**Lorelei McIntyre-Brewer**

*Heart Hugs*

Complex congenital heart defect survivors are surviving longer due to advancements in science and technology, but what does the future hold for them? Presenter, Lorelei McIntyre-Brewer, explores her journey with the palliative diagnosis of Hypoplastic Left Heart Syndrome and her simultaneous resolve to combat the disconnect between the scientific and medical world and society. Her session gives attendees the opportunity to hear about her award-winning work establishing remote detection programs for newborns born with CHDs and delivering compression heart pillows to pediatric open-heart patients globally. She will discuss methods she has used to advocate for funding and access for appropriate cardiac evaluations for Wounded Warriors and how her journey as a single ventricle patient clued both she and her mother into some of the dangers affecting Veterans with

truncated anatomies. She will also discuss opportunities she has established for access to cardiac critical care for remote tribal entities with limited medical facilities. Attendees will have the opportunity to engage with a critical thinker living with an extremely complex diagnosis to understand the value palliative patients have to society and potential solutions to difficult problems.

**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.

**SAIGE Professionals in STEM – Working for Tribes**

**Brian Billy**

*USDA Animal and Plant Health Inspection Service*

**Susan Filkins**

*U.S. DOI/Bureau of Land Management*

**Duane Matt**

*Division of Energy and Mineral Development/U.S. DOI*

**Carl Etsitty**

*U.S. Bureau of Reclamation - Department of Interior*

The Society of American Indian Government Employees (SAIGE) is showcasing four members who work with Tribes using their STEM careers. The panelists exemplify the SAIGE theme, “Honoring Our Ancestors through Government Service” and will share their respective STEM journeys, challenges and positive outcomes along the way. Whether working on tribal greenhouses with solutions to challenges such as communication differences, serving as a bridge for tribal and mainstream science concerns, or providing input to policy decisions, you will gain knowledge and an appreciation for working with Tribes in a Federal career. As a result of this session, audiences will: 1) Gain an appreciation for the importance of working with Tribes with a Federal career in STEM; 2) Gain exposure to the various ways to work with Tribes; 3) Gain first-hand information from the panelists on their respective STEM journeys, challenges and positive outcomes along the way; 4) Get answers to questions and concerns; and 5) Learn about the SAIGE youth track and scholarships.

**Science and Technology that Changes the World**

**Tony Baylis**

*Lawrence Livermore National Laboratory*

Find out what a national laboratory does and why it is where you belong. The 17 National Laboratories and programs as part of the U.S. Department of Energy, promote a vibrant culture of inclusive diversity that fuels growth and drives innovation. Through team collaboration, we encourage our scientists, engineers, and staff to apply skills that significantly

contribute to solving the nation’s most critical safety and security challenges. Our employees utilize world-class scientific technology to push the limits of creativity in ways no other entity can. We invite undergraduate, graduate and professionals to come listen to our laboratory speakers discuss their education and professional journeys. Audience participants will gain insight, advice, knowledge on STEM disciplines and careers that they can use to progress their education journey or professional career.

**Sequoyah Fellows Breakfast**

*(RSVP required)*

This breakfast is only for AISES Sequoyah members to honor these members and to celebrate and welcome new, lifetime Sequoyah members. A reservation is required prior to the event.

**Solve Problems and Design Solutions like a Silicon Valley Professional**

**Jay Castro**

*Airbnb*

The purpose of this workshop is to provide exposure to how the world’s most well-known technology companies apply design strategies to problem solving. This workshop will be active, and will draw from real life experiences to help the audience directly translate learnings into a corporate, startup, or technology workplace. Having spent over 8 years in Silicon Valley with companies like Google and Airbnb, the presenter has first-hand experience facilitating a design oriented problem solving methodology called a Design Sprint. The Design Sprint methodology was developed at Google from a vision to answer critical business questions rapidly through designing, prototyping, and testing ideas. Now, companies of all sizes and from all corners of the world, have experimented with their own version of the Design Sprint. The presenter is a part of the Chamorro diaspora, an Indigenous group who he is deeply passionate and involved with. His partner, who will help develop the workshop, is a first generation Master’s degree holder, immigrant from Panamanian, and the Equity, Inclusion, and Diversity Program Manager at X, The Moonshot Factory. In addition to the presenters empathetic approach, this partnership gives the presenter another unique lens to the challenges underrepresented communities face.

**Indigenizing  
the Future  
of STEM**

## STEM Activity Day sponsored by The Boeing Company

**Alex Tsosie**

*Boeing Company*

**Stephen West**

*Boeing Company*

**Angelita Denny**

*Department of Energy - Legacy Management*

**Ken Kreie**

*Department of Energy - Legacy Management*

**Heather Heckler**

*General Motors*

**Dr. Samuel Garcia**

*NASA Educator Professional Development Collaborative*

**John Weis**

*NASA Educator Professional Development Collaborative*

**Danielle Boyer**

*The STEAM Connection*

**William Frazier**

*U.S. Department of Energy*

**Bernadette Tsosie**

*U.S. Department of Energy*

**Victoria Fuentes**

*American Chemical Society*

This fun, interactive day of activities will include hands-on STEM activities for pre-college students and educators; and college students. Start your AISES National Conference off right with this engaging and helpful 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 pre-college students can visit a variety of booths to 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: Pre-college: middle school and high school students and educators; and College Students STEM Day Activities ACS presents Hands-on Chemistry Experiments (Victoria Fuentes) American Chemical Society's local members will be conducting hands-on activities that may include (and are subject to change) creating bouncing balls, slime, and producing oxygen gas, among others. There will be between four and five different experiments. AISES Marketplace: AISES Pre-College Opportunities 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 AISES staff! Boeing DreamLearners (Alex Tsosie, Stephen West) 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. Every Kid Gets a Robot (Danielle Boyer) Have a chance to see and help assemble Every Kid Gets a Robot, a less than \$20 dollar robot developed by student Danielle Boyer to increase STEM accessibility and knowledge in her community. Designed in SOLIDWORKS, these small app-controlled robots involve young students and teach them CAD, electrical, 3D printing and programming skills. Get up-close and personal with full-color 3D prints, see robots designed by young students, and learn about amazing STEM educational resources to use at home or in the classroom. Every Kid Gets a Robot has been featured by SOLIDWORKS, FIRST Like a Girl, Fabbaloo and more and is currently helping students around the United States. How Energy Works! (Bernadette Tsosie, William Frazier, Angelita Denny, Ken Kreie) DOE will have one activity demonstrating how energy works. The student teams will explore alternatives and work together to see how force and motion affect the work, energy and power. The student teams will build a balloon-powered straw and determine ways to make it go further on an approximately 50-foot string. The teams will be given two opportunities to test their balloon-powered straw device and race with other teams. The first race is their trial run where the students can observe what works and what does not. The second run will follow any modifications made based on their first run. How Strong are You? (Heather Heckler) In this session we will run trials and explain grip strength. We will discuss how to measure participants' grip using gauge equipment, talk about individual differences and how we can make sure that everyone can complete work by meeting measurements. We will determine the average grip strength of team members. On Target for the Moon and Mars (Samuel Garcia, John Weis) Before NASA sends astronauts to visit the Moon and Mars, we will need to place supplies on site. Participants will engage in a hands-on engineering challenge simulation to deliver a payload from orbital altitude to a crater on the surface without damaging the payload or the landing site. No one works alone at NASA, so bring friends or prepare to be placed in a small group to collaborate on your solutions for testing.

## STEM careers in the Casino Gaming Industry, let the games begin!

**Jodi DiLascio**

*BMM Testlabs*

**Ken Golda**

*Aristocrat/VGT Technology*

**Michele Hannah**

*Ainsworth Game Technology*

**Russel Witt**

*Incredible Technology*

STEM allows students to have an inside track to an exciting and challenging career in the world of Casino Gaming. The possibilities are nearly endless for students with degrees and experience in the areas of technology, math and science. The Tribal Gaming Industry now accounts for 32.4b yes BILLION dollars of revenue annually which now surpasses commercial casino gaming! Within this growing and prospering sector of



gaming the career possibilities for STEM students are endless. During this session, our panel of industry experts will give you a firsthand look into all the career possibilities working directly for Casino Gaming manufacturer working on cutting edge technology games and products for the next generation of casino patrons, working for one of the hundreds of Tribal Gaming Casinos in their information technology, regulatory or casino operations departments or countless other companies that work in and help support the multibillion dollar Tribal Gaming Industry annually.

### **STEM Day Toolkit**

**Julie Gustafson**

*National Center for Women & Information Technology*

**Paige Prescott**

*Computer Science Alliance*

Would you like to engage ALL of your students in CS and give them meaningful opportunities and experiences? Do you worry about not knowing enough CS? In this hands-on session participants will explore free tools and resources to lead a STEM day. We will create a project using simple circuits using copper tape, LED lights and coin cell batteries and explore free curriculum to bring back to your sites. This will be followed by a discussion where participants will explore actionable practices around three Engagement Principles: Make It Matter, Create Inclusive Community, and Build Student Confidence in Computing. Students are more motivated, perform better, and more likely to persist when they can see how a lesson connects to their life, interests, goals, and values, and when they have a community related to their academic pursuits. Participants will leave with materials to bring back to their students and a resource sign up form to have posters, resources and STEM day materials delivered to your campus. This will also include a toolkit to enter the National Center for Women & IT (NCWIT) Aspirations in Computing Community and apply for the High School, Collegiate and Educator awards.

### **STEM Financial Resources**

**Janelle Cronin**

*American Indian Graduate Center*

**Sara LaBarge**

*American Indian Graduate Center*

**Dr. Corey Still**

*American Indian Graduate Center*

This session explores how the American Indian Graduate Center (AIGC) effectively manages scholarships for American Indian and Alaska Native (AI/AN) students seeking higher education in STEM (Science, Technology, Engineering and Mathematics) fields. A panel, comprised of AIGC staff and funded students, will discuss scholarship opportunities for AI/AN students in the STEM field and best practices for student support services.

### **Student Awards Luncheon sponsored by Air Force Civilian Service, National Security Agency and The Boeing Company**

*(Registration required)*

This special luncheon is open to all 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. The student awards booklet is sponsored by Stantec. Target Audience: High School and College Students Maximum: 500 attendees

### **Student Orientation with Pre-College Kickoff sponsored by The Boeing Company and College Kickoff sponsored by Jack Kent Cooke Foundation**

This mandatory meeting for ALL students is where it's at! Come learn what to expect at the 2019 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 Plenary Luncheon sponsored by 3M (Registration Required)**

This is a great opportunity to learn more about a valued AISES partner, 3M. Learn about their business lines, programs, and opportunities while networking and enjoying lunch. This event is available exclusively to students. Sign-up required during registration.

### **Student Social Event - DJ and Dance**

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

### **The Life and Culture of Honeybees**

**Dr. Ken Poff**

*Michigan State University*

**Dr. Holly Schaeffer**

*Lansing Community College*

Honeybees were originally introduced to this country to pollinate crops introduced from Europe. They have now become a major agricultural industry for both honey production and crop pollination. Although few people know the lifestyles of honeybees, we are all dependent on their hard work for our food supply. Learn basic practices that can help protect and encourage all pollinators. We are connected to the insects that, through their food production, mutually supports our food production. Fear of bees is often the result of a brief painful encounter, not knowing the culprit or some basic strategies for minimizing the risk of getting stung. Learn from two beekeepers about bee biology and bee culture including how they communicate, and produce food and offspring and thus maintain their hive structure. By understanding the culture of bees and making small changes in behavior, you can listen and observe bees and insects and decrease risk of a violent interaction.



## Tire Impressions - Oh My!

**Deneen Hernandez**

*Federal Bureau of Investigation*

This session will expose and allow students to conduct multi-unit (level) forensic examinations using a drag race scenario. Students will identify and process a mock crime scene, use critical analysis skills to analyze and process the evidence left at the scene, apply physical examination skills and techniques (including calculations) to the evidence, and identify the importance forensics is in the criminal justice field.

## TNAC and CAC Luncheon Mixer

This is an invitation only event.

## Traditional Native Powwow

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

## Tribal Nations Advisory Council (TNAC) Meeting

The Tribal Nations Advisory Council (TNAC) 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 (STEM). The Tribal Nations Advisory Council assists AISES with the following: 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 the 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.

## Turning Conflict into Results

**Heather Heckler**

*General Motors*

Turning Conflict into Results! How you handle conflict is integral to your performance as well as your personal and professional Brand. In today's fast-paced, high intensity business climate, conflict plays a major part in our everyday activities. How we handle ourselves in different situations can be viewed by key stakeholders as positive and if not handled well possibly negative. Let's work on it together to turn conflict into results! By the end of the session, participants will be able to... 1. Be better skilled at improving communication techniques 2. Become more effective at turning conflict into results 3. Resolve conflict in a way that allows you to prove your ability to handle conflict situations

## U.S. 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.

## University of Wisconsin-Milwaukee Tour

*(15-min bus ride to 2100 E Kenwood Blvd)*

This four-hour tour welcomes prospective undergraduate and graduate students to Vogel Hall on the campus of the University of Wisconsin-Milwaukee (UWM) (<https://umw.edu>). Participants will break out in two groups for campus walking tours to get a feel for UWM - from classes to academics, dorms, and cafeteria menus. The groups will rejoin for a visit and tour at the College of Engineering and Applied Science. Next, the group will visit the UWM's Electa Quinney Institute. The focus of the Electa Quinney Institute is to strengthen and celebrate American Indian education at the local, regional and national level with strong connections to Indigenous teaching practices from around the globe. Students will then depart for the Wisconsin Center. Meeting Location: From inside the convention center, follow the overhead signs to the Ballroom (1st Floor). Once at the Ballroom B foyer, go through the doors and meet outside the building. Agenda: 1:30 p.m. Depart Wisconsin Center 2:00 p.m. Arrive at UWM 2:10 p.m. Begin Undergraduate or Graduate Campus Visits 3:45 p.m. Engineering Program Visit 4:25 p.m. Electa Quinney Institute Visit 5:00 p.m. Depart UWM 5:30 p.m. Arrive at Wisconsin Center Target Audience: Prospective undergraduate and graduate students who are college students or professionals. Maximum: 45 attendees

**Unlock Possibilities and Break Out of the Known by Leveraging Personal Strengths and Motivations**

**Sheri Smith**

*Indigo Education Company and Impact Initiative*

**William Tiger**

*General Motors Lockport Operations*

Unlock the possibilities! A fulfilling and financially rewarding career close to home, or far from the known, is within reach while still honoring your values and growing your strengths and passions. Indigo helps students, educators and families align their potential with STEM and entrepreneurial opportunities in the real world. During this interactive session, Indigo CEO and Founder, Sheri Smith, will lead participants in discussions and exercises about finding and pursuing that perfect career. Co-presenter, William Tiger, member of the Miccosukee Tribe and retired General Motors Executive will discuss the inherent challenges in students leaving the Reservation, and how entrepreneurship and co-op programs are a good way to address this big barrier of leaving. Both will discuss their work on the Navajo Reservation and how they've been able to overcome some of these obstacles by leveraging student strengths and emerging technology.

**Veteran's 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.

**We Are Healers: Your Path to Medical School**

**Dr. Allison Empey**

*Oregon Health and Science University*

**Dr. Norma Poll-Hunter**

*Association of American Medical Colleges*

American Indian/Alaska Native (AI/AN) people face significant health disparities, which is further jeopardized by a shortage of AI/AN healthcare professionals. Persistent physician vacancies at tribal clinics results in decreased access to high-quality, safe healthcare and perpetuation of disparities. AI/AN health professionals are disproportionately under-represented in medicine and research has shown AI/AN medical health professionals are more likely to serve their own communities. It is crucial to increase the number of AI/AN medical health professionals. WE ARE HEALERS is a digital story initiative with a vision to transform Indigenous health by increasing the number of AI/AN health professionals. In 2018, the Association of American Indian Physicians and Association of American Medical Colleges (AAMC) published Reshaping the Journey: American Indians and Alaska Natives in Medicine to increase awareness of the need for Native physicians, and strategies to increase their representation in medicine. This presentation will: 1) Share data on the representation of AI/AN in medicine; 2) Explore the milestones of the medical school application; 3)

Screen a digital story of an AI/AN physician; 4) discuss Wy'east a direct pathway to Oregon Health and Science University School of Medicine and national resources to support students interested in medicine.

**Wellness Activity - Hanu, Hā, Hula (Breathe In, Breathe Out, Hula)**

**Dr. Kelsea Hosoda**

*Ike Papalua*

The Native Hawaiians mimicked their surroundings through dance, being one with nature, and understanding the mana (power) that hula can bring to the earth and to the individual. In this activity participants will be taught basic movements of traditional hula, learn to connect to the environment, and bring life energy into their body. Come join me for this early morning culturally grounded fitness activity!

**Wells Fargo Financial Education Info Session**

**Ruth Cameron**

*American Indian Science and Engineering Society*

**What is so Exciting about Engineering?**

**Brian Billy**

*U.S. Bureau of Reclamation - Department of Interior*

**MRutheyi Thompson**

*U.S. Bureau of Reclamation*

This interactive session is designed to answer the question "What is so exciting about engineering?" The main focus will be how the field of engineering is exciting, challenging, life-changing and innovative. It will start with providing information on the difference between science and engineering and transition to a discussion on the various disciplines within engineering and how they are related to one another. It will also discuss why engineers are so important to the world and provide concrete examples of engineering innovation. The final portion of the presentation will focus on the great need for American Indian scientists and engineers. Tribal engineers are needed to assist with designing and building critical infrastructure and also maintaining already existing roads, water/wastewater infrastructure, fiber-optics networks, irrigation systems, electrical transmission systems, etc. Tribal professionals are needed to model, predict, and mitigate negative impacts occurring due to a changing climate. Many tribal lands are situated in locations rich in natural resources and are suitable locations for renewable energy development and require proper planning and development. Overall, effective tribal engineers can become the ultimate stewards of the land by protecting and managing each tribes' precious resources in accordance to local tribal beliefs and customs.

## What is the ENIGMA?

**Shereen Campbell**

*Department of Defense*

**Paul Marynowski**

*National Security Agency*

The Enigma is an encryption device developed and used in the early- to mid-20th century to protect commercial, diplomatic and military communication. It was employed extensively by Nazi Germany during World War II, in all branches of the German military. This session gives the historical background, and allows the attendees the opportunity to encrypt and un-encrypt messages. Touching a piece of history allows individuals to see firsthand how this device works, challenges them to “break the code”, and provides a vital lesson of how the ENIGMA won the war and protected our Nation during this period.

## What’s my Communication Style and Why Should I Care?

**Sandra One Feather**

*Los Alamos National Laboratory*

Understanding your personal communication style and your colleagues communication styles are key to being successful at work. This interactive session provides a framework for looking at communication styles in the workplace. Participants will gain an understanding of their own communication style, as well as others’ styles in order to maximize interpersonal success. This session will increase participant’s self-awareness, give tips on how to flex your personal style and relationship management in the workplace.

## Why Our Communities Need More Native Architects and Engineers

**Michael Laverdure**

*DSGW Architects and First American Design Studio LLC*

You spend about 90% of every day indoors. Who designed that building? Was it a Native Architect or Engineer? Sad to say, there are only a handful of Native Architects and Engineers that can participate. We hope our discussion today, helps you Rise to the need of your people. There is a need out there for Native Architects and Engineers to be a part of the future in our communities, to be an advocate. Our discussion can also shed light on some of the most frequently asked questions about the Architect and Engineering professions. Projects on reservations should be functional, culturally subsistent, sustainable and financially responsible. You will meet members of the American Indian Council of Architects and Engineers ([www.aicae.net](http://www.aicae.net)) who are leaders in the Architecture, Engineering and Construction industry.

## Winds of Change Feedback Session: Help make the AISES magazine even better!

Bring your ideas and get ready to share your thoughts on what’s working -- and not working -- for you.

## Women’s 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.

## Yes Young Ladies! STEM Careers are for You!

**Jennifer Arias**

*Koniag Government Services*

**Kimberly Homolka**

*Koniag Government Services*

**Jessika Pettit**

*Contractor Task Lead - Indian Health Service*

**Jennifer Roadcap**

*Koniag Government Services*

**Kiera Wideman**

*University of Maryland*

An all-female panel of STEM professionals discusses methods for overcoming STEM career barriers and challenges as well as strategies for boosting options and opportunities. Moderator: Kim Homolka, Sunaq and Woody Island Tribe, Vice President Account Management Koniag Government Services Panel Participants Include: Jennifer Roadcap, Vice President – Encouraged by her father, Jennifer entered the Computer Information Systems field where she has excelled in both software engineering and leadership positions. Jennifer Arias, Director IT Services - After completing degrees in Psychology and Human Resources, Jennifer changed career paths and has been pursuing a career in Information Technology for the past decade. She is currently working to complete the MIT program and Graduate Certificate program in Information Technology Management at Virginia Tech. Jessika Pettit, Help Desk Program Manager – Jessika manages the team responsible for providing technical support for over 22,000 users throughout Indian Health Service (IHS), as well the Resource and Patient Management System (RPMS) programs. Kiera Wideman, Student, Cyber Security at the University of Maryland – After considering accounting / finance and international business, Kiera chose the STEM cyber security field of study for her future career and currently maintains a 3.65 GPA.



### **Zombie Autopsy and Emergency Preparedness**

**Deneen Hernandez**

*Federal Bureau of Investigation*

"Zombie Autopsy and Emergency Preparedness" is a blended STEM curriculum from Texas Instrument's (TI) STEM in Hollywood, the Center for Disease Control (CDC) and the Public Broadcasting Service (PBS). Although zombies do NOT exist, they serve as a fun, pop cultural model that allows us to talk about disease and the spread of disease. Many television shows and movies have zombies as a part of the storyline, so they will serve as a way to engage students as they are introduced to the concepts of disease and the patterns and parameters that are characteristic of the spread of disease. This also allows the opportunity to plan for emergencies. Identifying supplies, medical necessities and what is considered a necessity versus a luxury. Last, these unfortunate events also allow the general public to learn about the important and necessary PPE that every first responder, emergency personnel and law enforcement officer needs to know.

# **Indigenizing the Future of STEM**

**SAVE THE DATE • SPOKANE CONVENTION CENTER**

**Future AISES Event in 2020**



**SPOKANE CONVENTION CENTER • SAVE THE DATE**



**Dr. James Akin**

*Cherokee Nation of Oklahoma*

Dr./Co-Founder

Scimpack, LLC

Dr. Akin has worked at the cutting edge of technology in engineering and biomedical science for over 15 years at some of the most prestigious academic, government and industrial research organizations in the world. Through his experiences, he realized the inefficiencies in the way we communicate and discuss innovation. As a result, he co-founded a ground breaking platform to change how research is communicated and discussed. In this workshop, he will lead STEM professionals through case study highlights, and highlight the rapid advances happening at the interface of engineering and biology that will have an impact on healthcare and the biotech/ pharma industry in the years to come. As part of the workshop, students and attendees will learn to contribute their own insights through the online platform ReFigure. ReFigure recently debuted at the National American Indian Science and Engineering Fair at Oklahoma State University where it was well-received.

**Angelique Albert**

*Confederated Salish & Kootenai*

Executive Director

American Indian Graduate Center

Angelique Albert serves as Executive Director at American Indian Graduate Center (AIGC). Since joining AIGC she has increased the reach of the Center's scholarship and student support programs and has led the rebranding of AIGC as a center for Native scholarships. Ms. Albert served as Executive Director of the Salish Kootenai College Foundation where she helped plan and implement the successful launch of their first \$20 million capital campaign. She served as Associate Director of the National American Indian Business Leaders Organization, the only American Indian nonprofit solely dedicated to empowering business students in the U.S. She has served in various roles in philanthropy, including Lead Native American Program Officer for the Beaumont Foundation of America, and External Grant Reviewer for the Case Foundation. Her early career included working in the justice field for the Salish Kootenai Nation. Angelique currently serves as a member of the Obama Foundation's MBK Alliance Advisory Council. She has served as a board member for the Potlatch Fund and as a managing member of S&K Gaming, LLC, a Tribal corporation owned by the Confederated Salish and Kootenai Tribes. Angelique has a BA in Human Services and an MBA with a special emphasis in American Indian Entrepreneurship from Gonzaga University.

**Todd Ambo**

*Juaneno Band of Mission Indians, Acjachemen Nation*

Lean Six Sigma Black Belt

3M Company

Todd Ambo is a Lean Six Sigma Black Belt for 3M in Irvine, California. Before his Black Belt role, Todd was an O2 (Optimized Operations) in Aberdeen S.D., and more recently a manufacturing engineer for 3M's dental division in Irvine, California. Todd was raised in the San Fernando Valley and has a degree in Chemical Engineering from UCLA.

**Leona Anderson**

*Creek and Cherokee*

Sr. Human Resources Generalist

Boeing Company

Leona Anderson has a demanding job at Boeing, but, she still takes time to serve in the community with the Salt River Pima Maricopa Indian Community, Mesa Public Schools Native American Education Program, Morning Star Leaders Youth Council, Junior ACE Program, and the Gila River Indian Community STEA<sup>3</sup>M Program. She is a past presenter at AISES National Conferences and Leadership Summits. She is a Sequoyah Fellow. Her paternal grandparents are registered members on the Dawes Cherokee Roll in Oklahoma.

**Madison Anderson**

*Anishinaabe*

Predoctoral Fellow

American Indian Cancer Foundation

Madison Anderson is a predoctoral fellow at the University of Minnesota.

**Jennifer Arias**

Director IT Services

Koniag Government Services

Jennifer Arias serves as the Director of IT Services for Koniag Government Services. In this role, Jennifer manages the daily IT operations and is providing leadership and technical oversight for the IT sector. Jennifer has over a decade of Facility and IT experience and prior to joining Koniag, was the Facilities Manager for a Department of State contract (IV&V) where she managed the System Admin team and proved to have the ability to prioritize and execute critical system updates and administrative tasks. Jennifer has a bachelor's degree in Psychology and Humans Resources from Marymount University. After obtaining her degree, Jennifer spent several years working in the Human Resources field but realized that her true passion was in the IT sector. After deciding to take the leap and follow her passion, Jennifer completed the necessary IT courses that enabled her to secure a position as a System Administrator on a government contract. Jennifer continues to her expand and improve her knowledge base and is currently completing a Master of Information Technology (MIT) program and Graduate Certificate program in Information Technology Management at Virginia Tech.

**Dr. Hal Aronson**

Director of Technology and Education

We Share Solar

Hal holds a PhD in Sociology and has spent his career working for social justice. More interested in action than in academics, Hal has worked continuously to provide opportunities in solar energy for California's youth. Hal co-created the Solar Schoolhouse to spread the message of clean solar energy to students and teachers. He later founded California Youth Energy Services, now Rising Sun Energy Center, to train and employ youth as energy-efficient retrofitters. Hal created the first We Care Solar Suitcase. Together, the We Care Solar Suitcase and Hal's commitment to students are the heart of the We Share Solar Service Learning program.

**Lacey Arseneau**

*Tlingit*

**Talent Acquisition Manager**

**Social Interest Solutions**

Lacey Arseneau’s motivators run the gamut from mission-driven principles to her penchant and passion for people. As a visionary, Lacey’s work, thus far, has paved a road toward a society of equity and voice for each individual. Through her 10+ years of experience in administration, customer service, leadership, and implementing lean concepts, Lacey has gained a reputation within industry of trust and reliability. Clients, partners, and many individuals from various backgrounds, cultures, and experiences have been positively affected by Lacey’s professionalism and expertise. Her belief in the use of data to understand issues has enabled Lacey’s success in creating strategic, innovative solutions to complex problems. With experience in healthcare and technology, whether public or private sectors, Lacey’s resume lends itself to health exchanges, qualitative research and project management. She is truly a multi-functional talent professional. To compliment Lacey’s extensive resume of quantitative skills, she boasts an equally impressive resume of qualitative skills that root in inspiring others inside and out of her organization. She relies on a backbone of communication and ability to adapt to rapidly changing environments. Organization, resourcefulness, and an obvious passion for her mission helps build the relationships that Lacey employs in achieving great results.

**Aaron Ashley**

*Crow Creek Sioux and Omaha*

**Systems Safety Engineer**

**Raytheon Company**

Aaron Ashley is a systems safety engineer at Raytheon in Tucson, Ariz., who grew up in Gretna, Neb., and is from the Crow Creek Sioux and Omaha tribes. He earned a bachelor’s degree in aerospace engineering from the Massachusetts Institute of Technology (MIT) in 2016, where he helped restart the dormant MIT AISES chapter and was president for three years. Aaron earned his master’s degree in aerospace engineering from the University of Colorado Boulder in 2018, where he joined his AISES chapter in participating in the First Nations Launch (FNL) in Kenosha, Wisc., where they designed, built and launched a Level 2 high power rocket, competing against other AISES chapters. Aaron is now a judge for this competition, using his hobby rocket and industry experience to give back to new FNL teams. He is also active in Raytheon’s American Indian Network (RAIN), with whom his MIT AISES chapter formerly collaborated. Aaron wants to help Indian Country grow by being a role model for young Natives and getting them excited about STEM as a potential career path.

**Marcy Averill**

*Turtle Mountain Band of Chippewa*

**Program Director, Education Office for Diversity**

**Mayo Clinic**

Marcy Averill grew up on the Turtle Mountain reservation in North Dakota. Her passion for cultural connections to science, technology, engineering, and math (STEM) was ignited and built in junior high and high school by AISES summer academic programs and science fairs and led her on a path to being honored with an AISES Sequoyah

Fellowship. She earned a Bachelor of Science degree in Electrical Engineering at the University of Minnesota and worked for IBM for 15 years. Now employed by Mayo Clinic, Marcy serves as the Program Director for the Education Office for Diversity and Spirit of EAGLES, as well as the chair of the American Indian/Alaska Native employee resource group. She is also a graduate student at North Dakota State University, pursuing a Master of Public Health in American Indian Public Health.

**Vanessa Bailey**

*Meherrin*

**Global Director - Intellectual Property Policy**

**Intel Corporation**

Vanessa Bailey (Meherrin) is the Global Director of Intellectual Property Policy at Intel Corporation where she counsels on all aspects of patent, copyright and trade secret law and policy as well as legislative issues like the Defend Trade Secrets Act and global patent and copyright reform, including the role of intellectual property law in artificial intelligence and emerging technologies. Prior to working at Intel, Ms. Bailey developed international licensing strategies and managed various multi-jurisdictional patent litigation cases in Japan, China, Germany, United States, France, England, Belgium, and the Netherlands. Ms. Bailey received her undergraduate degree and her J.D. from the University of Texas at Austin. She has a LL.M. from the University of London, Queen Mary and Westfield College in Commercial Law with a specialization in international patent law. In addition to U.S. courts, she is also admitted to practice before the courts of England and Wales as a U.K. Solicitor.

**Dr. Jonathan Baines**

*Tlingit/Tsimshian*

**Physician**

**Mayo Clinic**

Dr. Baines completed his undergraduate degrees in Chemistry and Microbiology at Arizona State University. He went on to complete his MD and PhD in Tumor Biology at the Mayo Clinic. He did a preliminary year in General Surgery, a year of a postdoc and then completed three years of a Family Medicine residency. He practiced three years in a rural clinic and hospital in the Mayo Clinic Health System before returning to the Department of Family Medicine at the Mayo Clinic in Rochester. He currently has an outpatient practice, works the adult and newborn hospital services, has an obstetrics practice, is co-director of the Employee and Community Health Procedure Clinic, is a member of the Cancer Center, works with the Office for Diversity on Native American education and recruitment, is involved in grants on Native health and is director of the Native Cancer Information Resource Center and Learning Exchange (Native CIRCLE), a resource center providing cancer- and non-cancer-related materials.

**Tony Baylis**

**Director, Office of Strategic Diversity and Inclusion**

**Programs**

**Lawrence Livermore National Laboratory**

Tony Baylis is the senior management advocate for diversity and inclusion for the Laboratory. Tony is responsible for overseeing the laboratory’s interactions and successful execution in building, partnering and collaborating with governmental, educational,

industrial, community interests and other stakeholders. LLNL has had a long history in working with Minority Serving Institutions, specifically relationships with American Indian Institutions, Hispanic Institutions, and Historically Black College and Universities. He represents the Laboratory on the subjects of Diversity and Inclusion, STEM, Outreach Efforts, and Student Programs. Tony's career represents 29 years of administrative, project, program, technical, and organizational management. He has worked in a scientific and technical environment for over 20 years and has worked as a consultant in industry as well. Tony has extensive experience networking with a broad range of academic, industry, government and nonprofit organizations that has educated him and helped him in his career. He is a DOE Minorities in Energy Champion for the department and also serves on a number of conference program committees and advisory boards that promote STEM and diversity in science and technical careers.

**Rene Begay**

*Navajo Nation*

**Research Assistant**

**University of Colorado Anschutz Medical Campus**

Rene Begay is Diné (Navajo), and is an Indigenous geneticist. He obtained her master's degree in Clinical Science at the University of Colorado Anschutz Medical Campus in Aurora, Colorado studying genetic mutations associated with dilated cardiomyopathy. Currently, she is a Research Assistant at the Centers for American Indian and Alaska Native Health (CAIANH) at the University of Colorado, Anschutz. Rene is currently working with the Navajo Nation to generate a genetic research policy that is specific to helping the Navajo people engage in genetic research in a culturally relevant manner.

**Vanessa Benally**

*Navajo Nation*

**Cyber Security Engineering Analyst**

**Booz Allen Hamilton**

Vanessa Benally is Kinyaa'áanii (Towering House) nishí, Bit'ahníi (Under His Cover) bashishchiin, 'Áshllhíí (Salt People) dashicheii, and T'ááshchí'í (Red Bottom People) dashinalí. Vanessa is a Diné (Navajo) Cyber Security professional with experience in Cyber Security Operations, Engineering and Architecture. She is knowledgeable in Application Security, PCI DSS, RMF implementation, DISA STIG requirements, security best practices and standards and their impact on overall organizational security and business functions. Vanessa's multidisciplinary work background includes: the Ute Mountain Ute Reservation as a youth shelter employee; the oil and gas industry on the Navajo Nation as an intern; as a Cyber Security Analyst for a Navajo Nation owned IT subsidiary (DDC-ITS); as a Cyber Security Analyst and Engineer for a Payment Card Industry company and as a DoD contractor. Currently, Vanessa is a Cyber Security Engineering Analyst from Booz Allen Hamilton. Vanessa grew up in Cortez, Colorado, a small town, near the Ute Mountain Ute Reservation. Vanessa graduated from Fort Lewis College with a bachelor's degree in Computer Science Information Systems. Additionally, she earned a master's degree from Norwich University in Information Security and Assurance. Her certifications include the Certified Information Security Systems Professional (CISSP),

Certified Secure Software Lifecycle Professional (CSSLP) and CompTIA Security+ certifications.

**Dr. Bret Benally Thompson**

*White Earth Ojibwe*

**Clinical Assistant Professor**

**University of Wisconsin - Madison**

Bret Benally Thompson, MD, is a clinical assistant professor in the Department of Family Medicine and Community Health and Department of Medicine at the University of Wisconsin-Madison. Dr. Benally Thompson and his wife serve on the Council of Elders for the American Indian Science and Engineering Society (AISES). The Council of Elders directly advises the organization, the board, and members on cultural, community and organizational matters. Dr. Benally Thompson is the current board chair for the American Indian Cancer Foundation (AICAF) after serving on the board for the previous two years. The AICAF is made up of American Indian leaders from across the Nation. Its mission is to eliminate the cancer burdens on American Indians and Alaska Native people through improved access to prevention, early detection, treatment and survivor support.

**Dr. Ken Bernard**

*Turtle Mountain Chippewa*

**Co-Founder and Managing Partner**

**Pinnacle Emergency Medical Group PLLC**

Hailing from the Turtle Mountains of Belcourt, North Dakota, Dr. Ken Bernard is an Anishinabe (Chippewa/Ojibwe), board certified emergency medicine physician and health disparities advocate. He received his undergraduate degree in biology from Yale University and his medical and master of business administration degrees from Harvard University. Dr. Bernard completed his emergency medicine training in Boston. Currently he is the chief of emergency medicine at the Tuba City Regional Health Care Corporation, author and co-investigator of the Indian Health Service National Emergency Department Inventory, co-founder and managing partner of Pinnacle Emergency Medical Group, and co-founder of the Native American (Navajo Area) Emergency Medicine Consortium, which sponsors the Native American and Rural Emergency Medicine Conference. He lives in Flagstaff, Ariz. with his wife and hero, Kelly, their daughter Lila, and two dogs, Greta and Tully. Ken loves country music and working out more days of the week than not.

**Brian Billy**

*Navajo Nation*

**Civil Engineer**

**U.S. Bureau of Reclamation - Department of Interior**

Brian Billy is a professionally licensed engineer from the State of Oregon. He currently works for the Bureau of Reclamation in Klamath Falls, OR. where he performs inspections on dams, canals, concrete structures, and water conveyance features. He received his master's degree from the University of Arizona in Civil Engineering. He is a Sloan Scholar and a current member of the Northwest Professional AISES organization. In his work he works closely with local irrigation districts and specializes in maintenance activities within the Klamath Basin. He currently serves as the Native American Special Emphasis Coordinator for the Mid-Pacific Region and a member of the Society



of American Indian Government Employees (SAIGE). Brian is Dine' and was born and raised in the Four Corners Area near Farmington, NM. His immediate family consists of his wife Jennifer and 3 children: Nathan, Ella, and Sophia. He spends his extra time as a volunteer coach for little league soccer and baseball.

**Prairie Blount**

*Fort Peck Sioux*

**Executive Director**

**American Indigenous Business Leaders**

Prairie Blount grew up on the Northern Cheyenne reservation in eastern Montana and is an enrolled member of the Fort Peck Sioux Tribe. She graduated from Rocky Mountain College, with a bachelor's degree in business, and from the University of Montana, with a master's degree in business administration. While she was in college, she was an active AIBL chapter member and also worked for the National AIBL office during her graduate studies. Before joining the AIBL team, she worked in Washington DC, providing accounting and contract management services to help support economic development within American Indian communities. She has also served as the comptroller for the Northern Cheyenne Tribe in Montana and worked for an auditing firm specializing in governmental compliance. In 2011, she was a recipient of the National Center for American Indian Economic Development's 40 Under 40 Awards. This prestigious award recognizes 40 emerging American Indian leaders who have demonstrated leadership, initiative, and dedication and made significant contributions in business and their communities. In her spare time, she enjoys running, snowboarding, reading, starting new businesses, and hanging out with her family.

**Danielle Boyer**

*Sault Ste. Marie Tribe of Chippewa Indians*

**Entrepreneur**

**The STEAM Connection**

Danielle Boyer is an 18-year-old entrepreneur, roboticist, and STEM educator. Her involvement with thirty-five robotics teams has led her to start The STEAM Connection, bringing STEM to hundreds of kids through her five books, and Every Kid Gets a Robot, a less than \$20 dollar robot to increase STEM accessibility and knowledge. She has been featured for her STEM achievements by organizations such as Dassault Systèmes, FIRST, Fabbaloo, and STEMher and has traveled to educate others on STEM education across the U.S., including at SOLIDWORKS World 2019, the 2018 SOLIDWORKS User Advocacy Day, and the FIRST Detroit World Championship (2018/2019). She is a gap year student who will be pursuing mechanical engineering in 2019 and wants to change her environment to make STEM education more accessible for children.

**Dr. Jeane Breinig**

*Haida*

**Associate Dean**

**University of Alaska Anchorage**

Dr. Jeane Breinig has done extensive work in the preservation of native languages. She has been the recipient of many awards including a Ford Foundation Predoctoral award followed by a Ford Foundation Dissertation award. She is a Regional Liaison for the Ford Foundation Fellowship Programs and has served for many years as

a mentor and guide to students and faculty in a variety of fields, including STEM disciplines. Dr. Breinig has extensive knowledge of the fellowship application process and shares tips and strategies for strengthening applications for funding.

**Dr. Grace Bulltail**

*Crow and Three Affiliated Tribes*

**Postdoctoral Scholar**

**Stanford University**

Dr. Grace Bulltail is a California Alliance postdoctoral scholar in the Department of Earth System Science at Stanford University. Grace is Crow and Three Affiliated Tribes and originally from Montana. Grace is a member of the American Indian Science and Engineering Society (AISES) Board of Directors and is a registered professional engineer.

**Deanna Burgart**

*Fond du Lac First Nation Saskatchewan Canada*

**President**

**Indigenous Engineering Inclusion Inc.**

Deanna Burgart is a speaker, trainer, engineer and mentor that has a talent for identifying gaps and providing solutions to systemic, organizational and transformational change. She brings over 20 years of experience and education in energy and pipelines and is passionate about energy transitions and the implementation of the UN Sustainable Development Goals and UN Declaration of Rights of Indigenous People. She helps STEM (Science, Technology, Engineering and Math) focused organizations move forward in operationalizing Indigenous inclusion and the Truth and Reconciliation Commission Calls to Action. As a formally trained musician and performer, Deanna believes that incorporating the Arts in STEM will engage future diverse perspectives. She is the President of Indigenous Engineering Inclusion Inc. and co-founder of IndigeSTEAM – A nonprofit youth initiative that connects Indigenous professionals and youth in the spirit of mentoring and collaboration. Deanna is a recipient of the 2019 Evolutionary Business Council's Unstoppable Award, the 2018 American Indian Science and Engineering Society's Blazing Flame Award, the 2017 Women of Inspiration Award for a Trailblazer in STEM and Oilweek Magazine's Rising Star of 2015. In 2019, Deanna was elected to the AISES board of directors.

**James Calabaza**

*Santo Domingo Pueblo*

**National Program Coordinator**

**Trees, Water & People**

Born in Santo Domingo Pueblo, New Mexico, James grew up with a passion to help Tribal communities across the country. As a first generation college graduate with an Agricultural Business degree from Colorado State University, James strives towards educating others about the importance of higher education and self-identity. After working in the government sector for a few years, James realized his heart belonged to the nonprofit world. James joined Trees Water and People as the National Program Coordinator and works closely with Tribal communities across the country around renewable energy and green development initiatives. As a proud Indigenous community member, he understands and experienced first hand the hardships that affect Tribal communities across the country. Following his passion and spiritual education from his



community elders, his vision is to educate and empower the warriors of tomorrow, all while respecting and honoring our ancestral roots.

**Shereen Campbell**

Curriculum Manager  
Department of Defense

Shereen Campbell has 29 years of service working for the U.S. Federal Government. Her expertise range from resource management to curriculum management. Over the past two years, she has been involved in the American Indian Native Alaska Employee Resource Group as the Communications Officer. Ms. Campbell's interest is to understand the many different cultures and assisting in highlighting the different opportunities offered in the Government.

**Jay Castro**

*Chamorro (Je'je and Piyu)*  
Product Content Strategist  
Airbnb

Jay Castro is an island boy from an island in the San Francisco Bay Area. He was raised by a loud, beautiful family from the islands of Guam and Sicily, Italy. He received his Bachelor of Arts degree from California State University-Long Beach. He was an entrepreneur who helped build a clothing brand from designs in a sketchbook to over 500 products. He spent seven years at Google following an acquisition of a startup he joined to dip his feet into technology. Now he's a Product Content Strategist for Airbnb, responsible for designing and writing the words in the product. Outside of his job on the design team at Airbnb, he currently volunteers as a business advisor to Guampedia.com, a Guam-based nonprofit documenting the rich culture of the Chamorros from the Mariana Islands.

**Sami Chen**

*Cherokee*  
Doctoral Student  
Stanford University

Sami Chen is of mixed Chinese, Scots-Irish, Welsh, and Cherokee descent. Sami is a PhD student in the Earth System Science department at Stanford University. She is a Graduate Student Liaison for Stanford's AISES Chapter and the former president for the Stanford Native American Graduate Students (SNAGS). Her research interests span biogeochemistry, ecohydrology, remote sensing, traditional ecological knowledge (TEK), and language revitalization.

**Dr. Katrina Claw**

*Navajo Nation*  
Assistant Professor  
University of Colorado School of Medicine

Dr. Katrina Claw's general research areas are pharmacogenomics/genomics and the ethical, social, and legal implications (ELSI) of genomic research with Native Americans and other Indigenous populations. She is involved in various projects studying hepatic transcriptomes and genetic variation, tobacco cessation and metabolism, vitamin D metabolism and regulatory genes, and examining the perspectives of American Indian and Alaska Native peoples regarding genetic research in their communities.

**Dave Clements**

Training and Outreach  
Johns Hopkins University

Dave Clements works for Johns Hopkins University coordinating training and outreach for the Galaxy Project (<http://galaxyproject.org>). He has also worked for the Generic Model Organism Database (GMOD) Project; ZFIN, the model organism database for zebrafish; and the European Renal Genome (EuReGene) project. Prior to working in bioinformatics, he worked in artificial intelligence and database management.

**Maya Contreras**

*Lakota*  
Student  
South High School-Denver

Maya uses spoken word poetry to bridge cultural gaps, represent her people, and stand up for social justice issues. She raised awareness at her school about Standing Rock, gathering supplies for the NODAPL protest. She is on the student council, where she will serve as Class President her senior year. She has advocated for early childhood education on Capital Hill in Washington DC and at Colorado Senators' offices.

**David Cournoyer**

*Rosebud Sioux Tribe*  
Chief Executive Officer  
Plain Depth Consulting

David Cournoyer is a story weaver who helps connect people to each other and to new ideas. He is passionate about sharing stories, especially about people expressing their strengths and life lessons. David's career began in television news, where he covered events like the Oklahoma City bombing trials, hurricanes and space shuttle launches. He worked for local TV stations, as well as nationally for CBS News and Fox News Channel. David transitioned to nonprofit communications, first for the American Indian College Fund and then the W.K. Kellogg Foundation. Since then, he has been passionate about human development and network-building, as a staff member in philanthropy and, since 2010, as an independent consultant based in St. Paul, MN. Clients include foundations, nonprofit organizations including AISES, and public and tribal agencies. David also is active volunteer, including board service for First Peoples Fund and the Minneapolis American Indian Center. He is an enrolled member of the Rosebud Sioux Tribe.

**Cheryl Crazy Bull**

*Sicangu Lakota*  
President and Chief Executive Officer  
American Indian College Fund

Cheryl Crazy Bull, Wacinyanpi Win (They Depend on Her), Sicangu Lakota, is President and CEO of the American Indian College Fund. A lifelong educator and community activist, Cheryl is an advocate for self-determination focused on Native voice, philosophy, and traditions as the heart of the people's work in building prosperity for current and future generations. Her research is focused on tribally-controlled education, leadership, and educational equity. Among her recent speaking engagements are presentations or keynotes at the 2018 regional convenings on racial equity hosted by Grantmakers for Education, 2016 Annual Conference of Association for the

Study of Higher Education, and the 2014 National Conference on Race and Equity in Higher Education. Cheryl worked for 17 years at Sinte Gleska University and for four years as the Chief Educational Officer of St. Francis Indian School, a tribally-controlled school on her home reservation, Rosebud, in South Dakota. In 2002 Cheryl began a 10-year tenure as the President of Northwest Indian College headquartered on the Lummi Nation in Washington until she came to the American Indian College Fund in September 2012. Cheryl has been recognized with an honorary cultural degree from Sinte Gleska University and an honorary doctorate from Seattle University. She is also the recipient of numerous recognitions as an Indigenous woman leader and tribal educator.

**Janelle Cronin**

*Navajo Nation*

**Development Assistant**

**American Indian Graduate Center**

Janelle Cronin (Navajo) is a Development Assistant at the American Indian Graduate Center. As a development team member, Janelle supports a broad range of fundraising activities, with her responsibilities centered around administrative duties, maintaining the Development Department files and records, entering donor and pledge information into the database and assisting in donor and prospect research. Janelle is from Gallup, New Mexico. She earned her bachelor's degree in Natural Science from Haskell Indian Nations University in 2015. As a Sloan Indigenous Graduate Program Scholar, she earned her Master's of Science degree in both Ecological Sciences and Engineering, and Curriculum Studies and Instruction at Purdue University in 2018.

**Wendy Cross**

**Program Director - We Share Solar**

**We Care Solar**

Wendy Cross began her international work while living in rural South Africa, where she developed and managed sustainable development projects with grassroots organizations. Her career in international development and nonprofit management includes over a decade of experience with an emphasis on teacher training, education technology, and capacity building. The highlight of her work at "We Share Solar" is working closely with partners to grow programs in Kenya and Uganda. She holds a Master of Arts degree in Sustainable Development from SIT Graduate Institute. [www.wesharesolar.org](http://www.wesharesolar.org)

**Sarah Dance**

*Lumbee Tribe*

**Graduate Student**

**University of Wisconsin - Madison**

Dance is a graduate student in the Environmental Chemistry and Technology program at the University of Wisconsin-Madison and a member of the Lumbee Tribe of North Carolina. She received her bachelor's of science in environmental and soil science from North Carolina State University. Her research investigates iron and sulfur dynamics in the near-root zone of Manoomin in Wisconsin. Dance is a team member of the Wisconsin Sea Grant's Manoomin Education and Outreach Toolkit project. Dance also leads a new initiative developing culturally-relevant wetland research for Wisconsin Native Nations funded by the Ira and Ineva Reilly Baldwin Wisconsin Idea Endowment. She is recipient of the Graduate Engineering Research

Scholars Fellowship (GERS) for underrepresented students and currently serves on the GERS recruiting committee.

**Eric Daugherty**

*Eastern Shawnee Tribe of Oklahoma*

**Application Engineering Specialist**

**3M Company**

Eric Daugherty is an Application Engineering Specialist for 3M in St. Paul, MN. Previously, he spent 13 years in the 3M Nevada, Missouri manufacturing facility. He grew up in Claremore, Oklahoma and graduated from the University of Oklahoma with a BS in Chemical Engineering.

**James Daugomah**

*Kiowa*

**Fishery Biologist**

**NOAA/NOS/NCCOS**

James W. Daugomah grew up in Yukon, Oklahoma and is half Navajo and enrolled member of the Kiowa Tribe of Oklahoma. He graduated with a BS in Business Administration from Oklahoma State University in 1988. James' early career was with the University of South Carolina and the National Marine Fisheries Service as Biological Science Technician. James graduated from the University of Charleston in 2000 with a MS in Environmental Studies. James currently works as a Fishery Biologist with NOAA's National Centers for Coastal Ocean Science in Charleston, SC. Current research includes studying the effects of land use on marine organisms and geographic information systems modeling. James has been a member of the American Indian Science and Engineering Society (AISES) since 1995 and has served as the National Ocean Service's (NOS) liaison to AISES since 2003. Within AISES, he has served on the Government Relations Council (GRC) Task Force to increase Federal Agency participation with AISES since 2005. James has served as Co-Chair for the AISES GRC from 2008 to present.

**Dr. Kato Dee**

*Navajo*

**Assistant Professor**

**University of Oklahoma**

Dr. Dee is an Assistant Professor of Hydrogeology in the School of Geology and Geophysics at the University of Oklahoma. His primary research interest centers around the distribution and molecular properties of natural organic matter found in natural waters (streams and groundwater). Dr. Dee also conducts research in the areas of trace metal fate and transport in natural waters, aquatic toxicity, and biogeochemical processes of wetlands in regards to mine drainage. Dr. Dee obtained his PhD in Geochemistry from the Colorado School of Mines, MS and BS Geology from the University of Kansas. Prior to his current appointment at the University of Oklahoma, Dr. Dee was the Program Director of the Natural Resource Management program at Colorado Mountain College and was employed in environmental consulting as a hydrogeochemist. One of Dr. Dee's lifelong goals is to bring awareness that careers in geosciences for Native Americans is not only rewarding but a necessity in the protection of vital water, soils, and air.

**Dr. Kathy DeerInWater**

*Cherokee*

Director of Special Projects and Research

AISES

Dr. DeerInWater has a STEM research background in ecology and evolution. Dr. DeerInWater has in-depth knowledge of applying for fellowships and is a mentor and guide to students and postdoctoral scholars seeking support for study and research. Dr. DeerInWater provides information, mentoring and advice to those aspiring to advanced degrees. Dr. DeerInWater is a past award recipient in the Ford Foundation Predoctoral Fellowship Program.

**Andrea Delgado-Olson**

*Ione Band of Miwok Indians*

Program Manager/Founder

[AnitaB.org](http://AnitaB.org)/Native American Women in Computing

Andrea Delgado-Olson is the Founder and Chair of Native American Women in Computing, a Systems Affinity Group under AnitaB.org Communities, and the Program Manager for Systems and GHC Communities at AnitaB.org. Andrea is a member of the Ione Band of Miwok Indians of the Northern Sierra region of California. She studied Computer Science and holds a bachelor's degree in Education. Her focus is to provide support for a global community of technical women, and preserving her Miwok language, culture, and traditions. She is using technology to teach her children the language and hopes to share this curriculum with her Miwok community who do not have access to the resources to learn from tribal members on tribal homelands. In 2019, Andrea was elected to the AISES board of directors.

**Angelita Denny**

*Navajo Nation*

Site Manager

Department of Energy - Legacy Management

Angelita Denny is of the Salt People, born for the Manygoats clan and is originally from Klagetoh, Ariz. Angelita was an instructor at Diné College. Currently, she is a DOE site manager for the former Monument Valley processing site, the Mexican Hat disposal cell, and the Navajo outreach POC for LM- DOE.

**John Desjarlais**

*Cree-Metis*

General Manager, P.Eng. MBA, MMP

Great Plains Contracting

John Desjarlais, a very proud Cree Indigenous northerner, grew up immersed in the rich culture of Cumberland House, Saskatchewan, Canada. This represented a rich way of life revolving around traditional Indigenous practices of living off the land for sustenance and well-being. John's keen interest in science informed his educational choices and explored related opportunities. His belief in lifelong learning and his educational pursuits attest to that. In 2001, he first completed a certificate in Radiation and Environment Monitoring, a Bachelor's of Science in Mechanical Engineering, and Professional Communications Certificate in 2011, a Maintenance Management Certificate and a Masters of Business Administration in 2015. John is concluding a Masters in Governance and Entrepreneurship in Northern and Indigenous

Areas (GENI). His commitment to lifelong learning aligns with his interest in governance and entrepreneurship. John now divides his time amongst many community, regional, national activities with a focus on wealth creation, building capacity and creating sustainable opportunities through entrepreneurship, governance, and education. His primary focus is with his role as the General Manager of Great Plains Contracting, a First Nation owned and governed Industrial contracting business, and serving as councillor with his profession's regulator APEGS (Association of Professional Engineers and Geoscientists of Saskatchewan).

**Jodi DiLascio**

Director Tribal Gaming

BMM Testlabs

Jodi DiLascio is the Director of Tribal Gaming for BMM Testlabs and a member of AISES and The National Indian Gaming Association Board of Directors. In her role Jodi is the primary liaison to all Tribal Gaming Regulators overseeing Tribal Gaming facilities throughout the U.S. and 1st Nations of Canada. Jodi and her team support the Tribal Gaming Commissions which oversee the casinos operations. Casinos are required to have all electronic gaming devices tested and certified by an Independent test lab, which provides assurance that all games are operating with integrity and are fair to the player and the Tribal Enterprise. Jodi also leads the AISES – BMM Testlabs Internship program and a Native STEM Casino Gaming Career Pipeline to casino gaming manufacturers. In 2019, Jodi was elected to the AISES board of directors.

**Jeremy Dry**

*Eastern Band Cherokee Indians*

Plant Manager

3M Company

Jeremy Dry is a Plant Manager for 3M Flexible Insulation, managing two facilities in Tilton, NH and Haverhill, MA He was born and raised in Oklahoma, and graduated from the University of Oklahoma with a BS in Chemical Engineering. His first internship for 3M was in the summer of 2000, which was obtained at his first AISES conference. After graduation, he then started his career in the Nevada, MO 3M facility, and held various roles; engineering, supervision, and Lean Six Sigma Black Belt before moving to the North East.

**Todd Dunivan**

*Standing Rock Sioux Tribe (non-enrolled)*

Manager

Sandia National Laboratories

Todd Dunivan is the Department Manager for Nuclear Materials Management and Material Control and Accounting (MC&A) at Sandia National Laboratories. Mr. Dunivan is a long standing AISES member whose American Indian heritage is Hunkpapa Lakota. He holds a MS degree in International Relations from Troy University and a BA in Political Science from the University of New Mexico. Mr. Dunivan was formerly elected Chair of the American Indian Outreach Committee at Sandia. He is a certified Project Management Professional and Radiological Worker I. Mr. Dunivan has spoken at international conferences and symposiums focusing on topics such as international security collaboration, continuous improvement methodology and at AISES on Native values elevating success in the workplace. He has additionally been a part-time faculty member



of the University of New Mexico and has worked in the U.S. State Department's Bureau of Politico-Military Affairs. Mr. Dunivan is a graduate of Leadership Albuquerque, and a recipient of a New Mexico Distinguished Public Service Award.

**Matthew Dunn**

*Athabasca Chipewyan First Nation (Dene)*

**Indigenous Peoples Initiatives Coordinator**

**University of Saskatchewan College of Engineering**

Matthew Dunn, P.Eng., is Dene and a member of the Athabasca Chipewyan First Nation. He grew up in Watrous, SK and obtained a bachelor's and master's degree in Mechanical Engineering at the University of Saskatchewan (USask) while competing for the Huskie Track and Field team in the Pentathlon. Matthew worked in the mining industry before joining the USask College of Engineering in 2014 as the Indigenous Peoples Initiatives Coordinator, where he leads the Indigenous Peoples Initiatives Community (IPIC) Engineering Access Program and supports Indigenization in the college. Matthew was the founding Co-Chair of the Canadian Indigenous Advisory Council to AISES, and served as the Chair of Engineers Canada's Equitable Participation in Engineering Committee and Indigenous Peoples Participation in Engineering Working Group. Matthew lives in Saskatoon, Saskatchewan with his wife Adrienne and their two young kids.

**Crystal Echo Hawk**

*Pawnee Nation of Oklahoma*

**President**

**Echo Hawk Consulting**

Crystal Echo Hawk (Pawnee) is President and CEO of Echo Hawk Consulting. The mission of Echo Hawk Consulting is to help to create new platforms, narratives, strategies and investment that can help to catalyze transformational change for and by Native Americans. It partners with Native American, philanthropic and diverse multi-sector partners to move hearts and minds, and drive institutional, policy and culture change. Its founder Crystal Echo Hawk, was recently recognized by the National Center for American Indian Economic Development as its 2018 "Native American Woman Business Owner of the Year."

**Sarah EchoHawk**

*Pawnee Nation of Oklahoma*

**Chief Executive Officer**

**American Indian Science and Engineering Society**

Sarah EchoHawk is the CEO of AISES. She has been working on behalf of Native people for more than 20 years having worked for First Nations Development Institute, the American Indian College Fund, and as an adjunct professor of Native American Studies. She also serves on numerous boards including: Native Americans in Philanthropy, Native Ways Federation, Red Feather Development Group, Champions Board for the National Girls Collaborative, and the Collaborative Advisory Board for Women of Color in Computing Research.

**Dr. Jessica Elm**

*Oneida Nation & Stockbridge-Munsee*

*Band of Mohicans Indians(descendant)*

**Postdoctoral Researcher**

**University of Minnesota - Duluth**

Jessica Elm is a citizen of the Oneida Nation, descendant of the Stockbridge-Munsee Band of Mohican Indians, and a postdoctoral researcher at the University of Minnesota Medical School, Duluth Campus, Department of Family Medicine and Biobehavioral Health. She received her PhD from the University of Washington School of Social Work in 2018 and her MSW from UC Berkeley in 2009. Dr. Elm is a social and behavioral scientist that uses qualitative and quantitative methods to answer research questions that are relevant to tribal communities. Her research is rooted in community-based participatory methodologies and recognizes historically traumatic events as the source of contemporary stress and health inequities. Jessica's scholarship is centered on two primary areas: 1) examining social stressor exposures (e.g. adverse childhood experiences, discrimination), the accumulation across multiple developmental periods (i.e., childhood, adolescence, early adulthood, life course), and increased risk for substance misuse and poor mental health outcomes; and 2) identifying individual, family, and community strengths which lead to pathways of resilience, recovery, and thriving for American Indians. Dr. Elm's scholarship is informed by over 15 years of health and social services employment in tribal program development and evaluation, policy analysis and advocacy, child and family services, and surgical technology.

**Dr. Allison Empey**

*The Confederated Tribes of Grand Ronde*

**Assistant Professor**

**Oregon Health and Science University**

Allison Empey is a general pediatrician at Oregon Health and Science University. She completed her undergraduate studies at Stanford University and medical school at the University of California, San Francisco School of Medicine. She returned home to Oregon for her pediatric residency and pediatric chief year. Her professional interests include medical education, newborn care, Native American health, community engagement, and mentorship for underrepresented minorities in healthcare. She is a member of the Confederated Tribes of Grand Ronde in Grand Ronde, Oregon and serves on their health care committee. Additionally, she is a member of the American Academy of Pediatrics Committee on Native Child Health.

**Carl Etsitty**

*Navajo Nation*

**Tribal Liaison/Assistant Director**

**USDA Animal and Plant Health Inspection Service**

Carl Etsitty is Tódich'ii'nii and Tó'áhani of the Diné (Navajo) Nation. After an honorable discharge from the U.S. Navy, Carl graduated from the University of Arizona with bachelor and master degrees in Soil, Water and Environmental Sciences. He worked for 10 years with the U.S. Environmental Protection Agency (EPA) as a microbiologist, where he assessed risks for new biological pesticide registrations, including genetically engineered organisms for human health and product chemistry reviews. He also helped to establish



EPA's Tribal Science Council, and within that context worked to affirm the validity of Tribal holistic science. In addition, he was an American Indian Special Emphasis program manager. Carl moved on to Animal and Plant Health Inspection Services (APHIS) as a regional biotechnologist with Biotechnology Regulatory Services, then became Plant Protection and Quarantine's Tribal Liaison. In his current position as Assistant Director of APHIS' Office of National Tribal Liaison, he plays a multifaceted role providing guidance in carrying out Tribal consultation, reviewing Tribal implications of new/modified regulations, reaching out to Tribes, training staff, building cooperative partnerships, and more.

### **Mark Fairbanks**

#### **Sr. Test Engineering Specialist**

##### **3M Company**

Mark Fairbanks is currently a Sr. Test Engineering Specialist in the Transportation and Electronics Group Laboratory. He is a Mechanical Engineering graduate from the University of Minnesota and has worked at 3M for 24 years. Mark's career at 3M started in Design Engineering staff group and moved to Application Engineering position within the Automotive Division to get more direct involvement with external customers. His efforts to support 3M Product Development and external customers with technical data needs lead him to his Test Engineering roles of developing test methods and testing facilities globally. Mark is a Sequoyah Fellow and currently leading the effort to build a new world class energy storage testing laboratory at 3M.

### **Cindy Farlee**

#### ***Cheyenne River Sioux Tribe***

#### **Associate Program Officer**

##### **Native American Agriculture Fund**

Ms. Farlee was born and raised on a cattle ranch on the Cheyenne River Indian Reservation in north central South Dakota. She is a first-generation college graduate who, in May 2018, obtained her bachelor's degree in Indigenous and American Indian studies with an emphasis in sovereignty from Haskell Indian Nations University (HINU) in Lawrence, Kansas. During her time at HINU, she researched and presented on topics that highlighted her passions, including cultural knowledge and healing through language revitalization and food sovereignty, the impact of federal Indian law and policy, and tribal government structure and relationships. She is also one of the founding members of the Indigenous Justice Initiative, an academic demonstration working to create a framework for an Indigenous justice system that is more reflective of cultural values and acknowledges the reciprocal relationships we have with the natural world. Ms. Farlee has taken on the roles of co-vice chair and Southern Plains Region representative for the Native Youth Food Sovereignty Alliance, the youth advisory board of the Intertribal Agriculture Council. She has interned with the Indigenous Food and Agriculture Initiative, where she assisted in the development of an Indian Agriculture-driven curriculum and coordination of a national youth leadership event.

### **Susan Filkins**

#### **Natural Resource Specialist**

##### **U.S. DOI/Bureau of Land Management**

Susan Filkins is a Natural Resource Specialist (Botany and Ecology)

for the Bureau of Land Management (16 years), where she works in the Resources and Science Branch (Native Plants Program). Currently, Susan assists the Shoshone-Paiute Tribes of the Duck Valley Indian Reservation and the Shoshone-Bannock Tribes of the Ft. Hall Reservation with native plant propagation and greenhouse business development. Susan also educates junior and high school students on Biology, Botany, and greenhouse germination of native plants, vegetable gardens and is a committee member of the Duck Valley Garden and Hoop House Initiative. She is a member of the Intertribal Nursery Council. Susan has been awarded the U.S. Department of the Interior Honor Award, SAIGE Achievement Award, U.S. Boy Scouts, and Job Corps awards. Susan's father was a member of the Cherokee Nation (Wolf Clan).

### **William Frazier**

#### ***Navajo Nation***

#### **Site Manager**

##### **U.S. Department of Energy**

William Frazier (Navajo) is a Persian Gulf War Navy Veteran who currently works at the U.S. Department of Energy (DOE), Office of Legacy Management in Grand Junction, Colorado. William graduated from the University of Colorado at Denver with a Bachelor's Degree in Civil Engineering and is a Registered Professional Engineer (PE) in the State of Colorado. He has worked as a private consultant, municipal city engineer, facilities engineer, and now as a Site Manager at the DOE Office in Grand Junction, Colorado.

### **Victoria Fuentes**

#### **Project Manager - Diversity Programs**

##### **American Chemical Society**

The American Chemical Society was founded in 1876 and chartered by the U.S. Congress. We are the world's largest scientific society whose mission is to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people. Our vision is to improve people's lives through the transforming power of chemistry.

### **Joe Furino**

#### **University Relations Manager**

##### **Boston Scientific**

Joe Furino is responsible for managing university relations and campus recruiting efforts at Boston Scientific for their U.S. based businesses. Joe and his team work closely with leaders and champions in the organization to promote the Boston Scientific employer brand with target schools and diversity organizations, attracting and identifying top student talent for internships and early career opportunities. Joe is passionate about coaching students and has participated in numerous panels over his career focused on career development, as well as leading workshops to help students prepare for their professional job search and future careers. In addition to serving students, Joe has been a member of the corporate advisory boards for Penn State's Multicultural Engineering Program, as well as their Learning Factory, a nationally recognized center for hands-on, experiential project-based learning. Joe has 20 years of talent acquisition and college relations experience, previously managing programs for Philips and BAE System. In those roles, he helped create successful programs and effective strategies to build relationships with students, faculty and university staff,

establishing strong partnerships and company brand recognition. Joe is a graduate of Boston College, with degrees in Counseling Psychology (MA) and Psychology (BA).

**Dr. Samuel Garcia**

**Education Specialist**

**NASA Educator Professional Development Collaborative**

Dr. Samuel Garcia, Jr. currently serves as Educator Professional Development Specialist at the Jet Propulsion Laboratory in Pasadena, California, and is an Assistant Professor of Practice for the LBJ Institute for STEM Education and Research at Texas State University.

**Deneen Garrett**

**Lead Consultant - Diversity**

**AT&T**

Deneen L. Garrett makes a difference in the lives of others through diversity awareness, community involvement, and coaching and developing. Helping someone reach his or her goals and dreams helps her understand her purpose. As a lead consultant-diversity with AT&T, Deneen is responsible for the company's Global Corporate diversity strategy – specifically the Hispanic/Latino; Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ); and Native American segments. She also works closely with the External/Legislative and Public Affairs, Supplier Diversity, Talent Acquisition and Talent Development organizations as well as the related Employee Resource Groups or ERGs. Deneen also has over 20 years of experience successfully leading customer service, sales and operational teams. Whether it's building a talent pipeline, mechanizing the way work is done or reducing costs, Deneen attributes much of her success to the art of relationship (team) building, leadership skills and training/mentoring. Deneen loves to travel, turn work trips into adventures (who knew there was a beach at the end of that train route), and learning and trying new things ("Yes!")

**Jeffrey Gilchrist**

**Founder/Executive Director**

**The Sage Hawk Foundation**

In 2016, Jeff became Founder and Executive Director of the Sage Hawk Foundation. He is a 22-year veteran of the U.S. Air Force and the U.S. Army. He is a father of two grown children and a grandfather of one grandson. Graduating with an associate degree in Electronics Technology in 1982, he joined the Air Force where he worked on the inertial navigation systems of the Air Force's E-3A AWACS at Tinker AFB, Oklahoma. Having honorably discharged from the Air Force, he spent 2 years as a civilian electronics technician building Multiple Launch Rocket Systems for the U.S. Army in Camden, Arkansas. Two years later he joined the Army on active duty and became trained in military satellite communications and worked for the Army's Space Command in Colorado Springs, Colorado. After being assigned to Europe, Jeff became the Information Assurance Manager of cybersecurity operations for the Director of Information Management for the 39th Signal Battalion. After retiring from the Army in 2005, he worked as a cybersecurity certification and accreditation analyst for the FBI, the Director of Information Systems Administration, the Library of Congress and the Office of Personnel Management. He now devotes his time to his love of the Native American community.

**Darren Goetz**

*Sault Ste. Marie Ojibwe*

**Lean Six Sigma Master Black Belt**

**3M Company**

Darren Goetz is a Lean Six Sigma Master Black in the Advanced Materials Division (AdMD) for 3M in Oakdale, MN. He was raised in Sault Ste. Marie, MI, and holds undergraduate degrees in Chemical Engineering (BSE) and American Cultures (BA), as well as graduate work in Manufacturing Engineering (MSE), all from the University of Michigan – Ann Arbor. He has worked for 3M for 18 years, in a multitude of positions ranging from process engineering to factory management, to global operations management, in locations all over the world. He has been involved, as both a student and professional, with AISES for approximately 25 years, and is a Sequoyah Fellow.

**Ken Golda**

**Senior Manager, Gaming Compliance**

**VGT/Aristocrat Technology**

Ken Golda has over 17 years of experience in the casino gaming industry where he has had prominent roles with all three major independent testing laboratories. Ken is considered an expert in the field of gaming device testing and regulation; the development of technical standards for gaming equipment; communication protocols and systems; forensic analyses of gaming devices and systems; and has performed training on all aspects of technology in the gaming industry for regulators and operators alike. As the Senior Manager of Gaming Compliance for VGT, Ken and his team are responsible for ensuring that VGT meets all compliance requirements for development of new games, platforms, servers and hardware for all VGT product lines.

**Gigi Goldman**

**Strategic Advisor**

**We Share Solar**

Gigi brings her product-centric strategic business savvy to We Share Solar, honed from years in corporate management and entrepreneurial experience. After nearly a decade in product management at General Mills and Minnetonka Corporation, Gigi launched her own international products company which supplied leading U.S. department stores for over 20 years. Extensive travel to remote corners of the world turned her attention to the many challenges others face. In 2010, she began pursuing initiatives to address these challenges, including product sourcing for a UN world food program as well as developing and launching We Share Solar.

**Dr. Girija Goyal**

**Instructor/Co-Founder**

**Scimpact, LLC/Harvard University**

I combine a passion for exploring human biology with a commitment to make an impact on patient health. At the end of my doctoral work in the PhD program in Immunology at Harvard University, I created ReFigure so that the impact of biomedical research can be enhanced by harnessing literature curation and micropublications. In parallel, I continued my scientific training as a postdoctoral researcher where I combined my immunology expertise with bioengineering to create organ-on-chip models to study human immunity. Both during my doctoral and postdoctoral work, I set up fruitful collaborations further training me in how

research is conducted and published across a variety of laboratories. My postdoctoral work is being prepared for submission. I have submitted three patents during my scientific training, all three of which have been licensed either by a big pharmaceutical company and a biotech startup. I have been invited to speak as an early career researcher as well as an open science leader, again merging my interests and allowing development as a scientist and innovator in scholarly publishing.

### **James Grimsley**

#### **Executive Director of Advanced Technology Initiatives Choctaw Nation of Oklahoma**

James Grimsley is a nationally-recognized expert on policy and technology related to unmanned aircraft (“drones”) and autonomous systems. Mr. Grimsley has appeared in numerous press outlets since 2007 speaking about technology policy issues, and is a recognized speaker on the topic at international conferences and events. He was appointed to the Oklahoma Transportation Commission in May 2018 by Oklahoma House Speaker Charless McCall and currently serves as the Transportation Commissioner for District 2. Mr. Grimsley is the founder of successful technology company startups and is also a former Associate Vice President for Research at the University of Oklahoma – Norman Campus. Mr. Grimsley was also the founding director of the OU Center for Applied Research and Development. He graduated from the University of Oklahoma with a BS in Aerospace Engineering and MS in Mechanical Engineering. In 2017, Mr. Grimsley led the proposal development team for the Choctaw Nation of Oklahoma for the FAA’s Unmanned Aircraft Systems Integration Pilot Program (UAS IPP). The Choctaw Nation was ultimately selected as one of ten sites for the UAS IPP by U.S. Transportation Secretary Elaine L. Chao, and was the only tribal government selected for the program.

### **Nadine Groenig**

#### *Pueblo of Laguna*

#### **Director of Indian Education**

#### **Arizona Department of Education**

Nadine Groenig is a member of the Pueblo of Laguna in New Mexico. She has worked at the Arizona Department of Education for 17 years and became the Director of Indian Education for the Office of Indian Education in July 2015. She serves as Tribal Liaison to the 22 tribal nations in Arizona. Nadine’s work includes administering federal and state programs to meet the educational and cultural needs of participating school districts in Arizona. She provides training and technical assistance to all of Arizona’s school districts and charter schools on reservations and urban areas with both high-density and low-density enrollment of American Indian students. Conferences, such as the Arizona Indian Education Stakeholders Summit; Native American Youth, Educators, and Employers Conference; and Family Empowerment Day, are also provided by the Office of Indian Education. Nadine and her assistant collaborate with agency staff and outside organizations to provide resources for Native American students. She facilitates the Superintendent of Public Instruction’s initiatives to benefit the academic achievement and cultural awareness of Arizona’s Indigenous youth. Nadine also directs the work of the Office of Indian Education Task Force and facilitates meetings with Indian Education Advisory Council for the Arizona Department of Education.

### **Julie Gustafson**

#### **Community Manager, Counselors for Computing**

#### **National Center for Women & Information Technology**

Julie Gustafson joined NCWIT as the Counselors for Computing Program Consultant late in 2018. She brings expertise as an organizer and advocate and is very excited to advance the opportunities for girls and women, and diverse learners to engage in, and feel welcome in computer science. She has more than fifteen years experience working for nonprofit organizations and particularly working to advance conservation education programs. She is most proud of the work she did with the National Wildlife Federation to advance equitable access to environmental education across Colorado. Julie serves as mayor pro tem of Nederland, CO and on the Peak to Peak Healthy Communities Project Board. She served six years on the Board of the Colorado Alliance for Environmental Education and one year as the Board President. Julie graduated with a B.Sci. from The Ohio State University School of Natural Resources. In downtime, Julie enjoys time outside exploring with her family.

### **Michelle Hannah**

#### *Three Affiliated Tribes*

#### **CDG Senior Systems Engineer**

#### **Ainsworth Technology**

Michelle Hannah is the Senior Systems Engineer for Ainsworth Game Technologies Central Determined Gaming Group. In her role with Ainsworth, Michelle leads a team of system engineers who are responsible for the installs, upgrades, conversions and troubleshooting for all the Central Determined System based gaming products which includes Class II, Historical Horse Racing and Washington State Video Lottery Terminals. Her team is responsible for over 2,000 units operating in the field across all three server-based product lines.

Before joining Ainsworth Gaming Technology in 2016, Michelle worked for Nova Gaming Systems based in Greenville South Carolina for over a decade. She began her career at Nova starting as an Executive Administrator and working her way through the organization to become a Field Technician then into a systems engineering role with the organization. Michele’s industry experience and expertise played a critical role in the successful integration and initial success of the Class II product line when Ainsworth acquired Nova in January of 2016. Michelle was based in Tulsa during her tenure with Nova and recently relocated to the Ainsworth world headquarters in Las Vegas Nevada.

Michelle is a proud enrolled member of the Hidatsa tribe, part of the Three Affiliated Tribes located in central North Dakota.

### **Heather Heckler**

#### *Brothertown Indian Nation*

#### **Sr. Industrial Engineer**

#### **General Motors**

Heather Heckler is the Subject Matter Expert in Industrial Engineering with over 24 years of experience. She leads a global team to define the computer application needs for Industrial Engineering. She has a BSIE from the University of Wisconsin-Platteville and a MSE from Rensselaer Polytechnic Institute. Heather is the Chair for the Native American Cultural Network (NACN) and is an AISES Sequoyah Fellow. Through her experiences in Industrial Engineering and with



NACN, Heather has had the opportunity to present at many different activities within GM and at various AISES events. She is always excited to encourage students' interest in STEM and ultimately their pursuit of a career in STEM.

**Deneen Hernandez**

*Seneca*

**Forensic Examiner**

**Federal Bureau of Investigation**

Ms. Hernandez is an enrolled member of the Seneca Nation of Indians from the Cattaraugus Reservation and possesses law enforcement experience for approximately 30 years. Currently, Ms. Hernandez is a Forensic Examiner for the Federal Bureau of Investigation Laboratory Division in the Cryptanalysis and Racketeering Records Unit in Quantico, VA. Ms. Hernandez is also an Adjunct Professor for various universities. Ms. Hernandez holds certifications as a Forensic Examiner of Illicit Bookmaking Records and Gambling Devices. She is also a NYS Department of Criminal Justice Services, Bureau of Municipal Police Certified Instructor, NYS Commission of Corrections Certified Instructor and Certified Instructor for the FBI. Ms. Hernandez is a national trainer/Board member for the National Partnership for Careers in Law, Public Safety, Corrections and Security. She also volunteers for the Forensic Outreach Program in London, England and is a member of the American Public University System, Criminal Justice Industry Advisory Council. Ms. Hernandez volunteers for Nepris, introducing forensics to students and for eCyberMission sponsored by the U.S. Army Educational Outreach Program. Most recently, she was appointed to the American Indian and Alaska Native Advisory Committee for the FBI. Finally, Ms. Hernandez has published two articles about Indian gaming and shredded document reconstruction.

**Dr. Mae Hey**

*Anishinaabe*

**Indigenous Community Liaison**

**Virginia Tech**

Mae Hey's undergraduate education focused on geology and geography, and human-nature relationships. Her graduate degrees are in curriculum and instruction. Mae has been creating and teaching culturally-relevant, place-based education programs for the past 20 years. She has taught all ages of learners from elementary through adult, including scientists completing their graduate degrees to be secondary school educators. Her PhD research focused on the confluence of Indigenous worldview/ knowledge and science education, a natural blending of local knowledge and practices, experiential, inquiry-based, student-centered learning that fosters both character development and scientific understanding that ultimately leads to creative problem-solving for a more sustainable future. She is now the Indigenous Community Liaison and InclusiveVT Postdoctoral Fellow for the Office for Inclusion and Diversity, instructor of American Indian Studies, and Faculty Fellow for the Leadership and Social Change Residential College at Virginia Tech.

**Dr. Mo Heydarian**

**Outreach Coordinator**

**Galaxy Project/Johns Hopkins University**

Mo Heydarian is an outreach coordinator for the Galaxy Project (<http://galaxyproject.org>) and the AnVIL Project (<http://anvilproject.org>).

org). He was trained in cell and molecular biology and later in bioinformatics. His current focus is to teach computational biology to bench scientists on the Galaxy platform.

**Kimberly Homolka**

*Sunaq Tribe and Woody Island Tribe of Kodiak, Alaska*

**Vice President Account Management**

**Koniag Government Services**

Kim Homolka is a member of the Sunaq Tribe and Woody Island Tribe of Kodiak, Alaska. Kim has been employed by Koniag Corporation since 2016 serving as Vice President of Account Management. Kim is a native community member of Koniag and Leisnoi Corporation with voting shares in each, both of which were handed down to her from her Mother, Mary Ann Bezates. Kim has over 15 years of progressive Business Development experience within the Federal, Local and State Government Sectors with an emphasis in Technology. Kim has experience building over \$200 million in contract value with Federal Government Agencies. Kim has a diverse history of over 20 years experience in National Account Management, Project Management, Talent Acquisitions, Federal Government Contracting, Marketing, P&L and IT Modernization initiatives. Kim is a current board member of Leisnoi Corporation and serves on the Tribal Nations Advisory Council for AISES. She has held various Board of Director positions in the past, most recently with the Rocky Mountain Region of Advisory Council for Technology (ACT) / Industry Advisory Council (IAC) bringing government and industry together in the technology sector. Kim holds a bachelor's degree from Colorado State University and is a PMP certified professional.

**Robbie Hood**

*Cherokee Nation of Oklahoma*

**Atmospheric Scientist**

**Blue Thunderbird LLC**

Ms. Robbie Hood is an atmospheric scientist with over 30 years of experience as a remote sensing scientist and project manager. She was the Director of the Unmanned Aircraft Systems Program within the National Oceanic and Atmospheric Administration for nine years before retiring from federal service in 2017. She has also served as an instrument, mission, and project scientist of aircraft field experiments during a 21-year career at the National Aeronautics and Space Administration (NASA). Her research interests have included investigations of precipitation, thunderstorm, and hurricane properties using manned and remotely piloted aircraft. She has started Blue Thunderbird, LLC to mentor and assist Tribal Nations in the use of Earth Science observations for tribal decision-making and business development. She has a Bachelor of Science degree in Atmospheric Science from the University of Missouri and Master of Science degree in Physical Meteorology from Florida State University. Her husband, Michael Goodman, is an atmospheric scientist with NASA. Ms. Hood, her two daughters, and her son are all citizens of the Cherokee Nation of Oklahoma.

**Dr. Kelsea Hosoda**

*Kanaka Maoli*

**Educational Research Consultant**

**Ike Papalua**

Dr. Kelsea Kanohokuahiwi Hosoda is a Kanaka Maoli whose work focuses on indigenizing digital technologies through the use of Indigenous language. Dr. Hosoda uses natural language processing



# PRESENTERS

techniques to construct Hawaiian centered cyberinfrastructure. She is an advocate for indigenization of thought and respect for all cultures and beliefs throughout the scientific community.

## **Gage Hutchens**

*Cherokee heritage*

**Portfolio Manager**

**Wells Fargo**

Gage Hutchens is of Cherokee descent, and has served on Native nonprofit boards since 2004. He is currently the enterprise President for Wells Fargo Native People's, representing more than 3,000 teammates. He has been a Sequoyah Fellow and associate member of AISES since 2011, and has had the honor to present at AISES national each year since becoming a Sequoyah. His bachelor degree is in social science (USC) and he holds graduate degrees in psychology (Antioch) and an MBA (WGU). From 1999 to 2015 he was a San Francisco entrepreneur in the technology industry, growing his boutique consulting firm to \$2.5m in annual service revenue, and seeding a sister operation of developers in Romania. He has hired over 50 technology personnel and consulted for well-known companies in the financial, pharmaceutical and technology industries. In Q3 2013 he led the creation, and launch, of a micro-cloud appliance tech startup. In Q2 2015 he joined Wells Fargo Bank as a technology Systems Architect and currently serves as Portfolio Manager overseeing app-dev & vendor spending in the Enterprise Platform Services group.

## **Rhonda Peters James**

**Senior Program Manager**

**Intel Corporation**

Rhonda Peters James currently serves as Senior Program Manager in the Global Diversity and Inclusion Strategy and External Partnerships Group at Intel Corporation. In this role Rhonda is responsible for creating strategic programs and partnerships that will deliver results to increase the number of Native Americans graduating with technology and engineering degrees in the United States. An 18-year Intel veteran, Rhonda has held various positions in engineering, marketing research and competitive intelligence, community management, and product marketing at the company. Rhonda has over five years of experience in similar positions in the semiconductor industry where she held team lead positions in process engineering and program management. Rhonda holds a Bachelor's in Physics from Dillard University, Master's in Electrical Engineering (Semiconductor Devices) from the University of Missouri at Columbia, and a Master's in Business Administration from Arizona State University. She serves as a mentor to several high school girls and women in engineering both at Intel and other companies, and is an active volunteer in several local organizations. Rhonda is also an entrepreneur and award winning cookbook author and publisher.

## **Hawk Jerome**

*Turtle Mountain Chippewa/Kumeyaay*

**Student**

**John F. Kennedy HS-Denver**

Gifted and Talented program, debate team, speaker on social justice issues, speaker at teacher cultural training.

## **Cherise John**

*Navajo*

**Engineer**

**GE Aviation**

Cherise John is a Turbine Aerodynamics Engineer at GE Aviation and recently completed the GE Edison Engineering Development Program in 2018, which allowed her to obtain her second Master's degree in Aeronautical and Aerospace Engineering at The Ohio State University. Her first Master's of Science degree was in Mechanical Engineering completed in December 2015 and her baccalaureate studies in Environmental Engineering was completed in 2012 both obtained at Northern Arizona University (NAU). Recently, she's helped kick off the GE Affinity Native American Network and has taken on the additional role of being the Recruit/Grow Chair. Cherise has a high interest in combining the strengths of her Aerospace / Environmental / Mechanical Engineering degrees, by enhancing advanced technology while being environmentally conscious. This engineering interest stems from her background of living between two mines and two power plants adjacent to the Navajo Nation combined with her passion of preserving the natural beauty of the environment and health of her community. She's also passionate about encouraging Native American youth to pursue careers in the STEM field and is actively seeking different ways to help them find their way.

## **Joshua John**

*Navajo Nation*

**Space Interceptor Systems Engineer**

**Raytheon**

Joshua A. John is a senior systems engineer with Raytheon Missile Systems in Tucson, Arizona. He is a member of the Navajo Nation who was born and raised in Shiprock, New Mexico. He is of the Folded Arms People clan, born for the Mountain/Apache People clan; his maternal grandfather. His current position is with the Space Interceptors Integration and Verification department. Joshua was the kill vehicle test director for the FTG-11 flight test. This was the first salvo flight test for the Ground-based Midcourse Defense program. Joshua has been an active member of the American Indian Science and Engineering Society (AISES) since 2003. In 2018, he received the Professional of the Year Most Promising Engineer award from AISES.

## **Wiley Jones**

**Staff Officer**

**National Security Agency**

Wiley Jones has spent a 32 year career with the NSA and has enjoyed careers in Computer Operations, Program Management, Team Leadership and Diversity, Equality and inclusion. Since 2010 he has participated in recruitment and outreach activities at NSA. He has dedicated the last seven years to providing awareness of STEM opportunities to the AISES community. Mr. Jones is an AISES Sequoyah Fellow

## **Carolyn Jurca**

**Sr. Program Manager**

**Intel Corporation**

Prior to joining Intel BHR Carolyn Jurca has held numerous roles in her 21 years at Intel. Starting as a Systems Engineer in what is now the Data Center Group, she has been a Factory Program Manager, Engineering Manager, and Program Manager. She holds a BSEE from



New Mexico State University, an MS in Engineering Management from Southern Methodist University, and her PMP certification. Outside of work, Carolyn likes to spend time with her husband and daughter between school, hockey, robotics and lacrosse chauffeur sessions. She also serves on the Portland Junior Winterhawks Girls Hockey Development Parent Committee. In her free time, Carolyn enjoys a good book and a hot cup of tea, movies, and walkabouts.

**Steven Just**

*Sisseton Wahpeton Sioux Tribe*

**U.S. Senior National Student Representative**

**University of Minnesota**

Steven Just is an enrolled member of the Sisseton Wahpeton Sioux Tribe and is a third year student at the University of Minnesota College of Pharmacy. He currently studies for a Doctor of Pharmacy (PharmD) degree, and in 2013, received a bachelor's degree in Biochemistry from the University of Minnesota-Morris. In addition to his studies, Steven works on a pharmacogenomics clinical research project at UMN and interns at a nationally recognized hospital in Minneapolis. Steven is a Sequoyah Fellow. He has been involved with AISES since 2010 and is currently the U.S. Senior National Student Representative.

**Dr. Rahul Kashyap**

**Assistant Professor**

**Mayo Clinic**

Dr. Rahul Kashyap is a physician scientist in Critical Care Medicine, and he holds academic rank of Assistant Professor of Anesthesiology at the Mayo Clinic, Rochester, MN. Dr. Kashyap has completed a postdoctoral research fellowship in Emergency Medicine and senior research fellowship in Critical Care Medicine at Mayo Clinic. He is also an instructor for FCCS-Fundamental of Critical Care Medicine course conducted by the Society of Critical Care Medicine. He sits on the Mayo Clinic's Diversity and Inclusion Committee (DAIC) and is Chair of Transcultural Patient Care (TPC) Mayo Employee Resource Group. He has extensively published (220+ articles) in prestigious peer-reviewed journals with over 2,500 citations. Dr. Kashyap is Principle/Co-Principle investigator in global projects, CERTAIN ([www.icertain.org](http://www.icertain.org)) and HEMAIR ([www.hemairregistry.org](http://www.hemairregistry.org)) and regularly presents at NIH via SCCM Discovery meetings. Dr. Kashyap is an award-winning public speaker. He has been recognized for exemplary research, quality improvement and leadership. His research interest consists of Severe Sepsis, Septic Shock, Simulation Medicine, Acute Respiratory Distress Syndrome (ARDS), Medical Errors, Learning Health System, Checklist, and Patient Safety. He has enjoyed coaching and mentoring medical students, residents, clinical fellows and young faculty members in China, India, Indonesia, Philippines, United Arab Emirates, and the United States.

**Ken Kreie**

**Site Manager**

**Department of Energy - Legacy Management**

Ken Kreie holds a BS in Environmental Restoration and Waste Management from Colorado Mesa University. Ken joined the Department of Energy in 2016, bringing over 17 years of experience as a regulatory and environmental consultant. Ken oversees sites related to the atomic device testing conducted during the Cold War era.

**Sara LaBarge**

*Menominee Nation*

**Director of Development**

**American Indian Graduate Center**

As Development Director, Sara is responsible for the oversight of AIGC's Development team. Sara is an enrolled member of the Menominee Indian Tribe of Wisconsin. She was awarded the Gates Millennium Scholarship in 2004. She earned her baccalaureate degree from Saint Norbert College (De Pere, WI.) in 2008 and then went on to earn her Master of Science degree in Higher Education Administration from the University of Wisconsin – La Crosse in 2011. In 2016, Sara was honored as one of the National Center for American Indian Enterprise Development's "40 under 40" for her work in education in Indian country. She currently serves on the National Scholarship Providers Association New Member Welcome Committee. In her spare time, Sara enjoys being with her family, fishing, reading and traveling. Having served over a decade in higher education, Sara brings a wealth of experience and knowledge of the field.

**Dr. Adrienne Laverdure**

*Turtle Mountain Chippewa*

**Medical Director**

**Peter Christensen Health Center**

Dr. Adrienne Laverdure is an enrolled member of the Turtle Mountain Chippewa. She graduated from the University School of Medicine in Grand Forks North Dakota and went on to complete a residency program in Family Practice with focus on rural medicine. Dr. Adrienne Laverdure moved to Northern Wisconsin in 1997 with her family. She works for the Lac du Flambeau Ojibwa Tribe as the Medical Director. Her focus is preventive care, including recommended yearly screening for cancer. She continues to do inpatient, outpatient, nursing home, and home visits. Dr. Adrienne Laverdure is currently a member of the AISES Board of Directors. Dr. Adrienne Laverdure is married and has three children. Her husband is an enrolled member of the Lac du Flambeau Tribe. Ken Bernard M.D. is her oldest son who is an emergency room physician in Tuba City, AZ. Her daughter, Veronica graduated from the University of Madison who plans on getting her master's in social work/public health. Her youngest child is 3 1/2 year old. She has three grandchildren. She spends most of her free time with her family and doing outdoor activities.

**Michael Laverdure**

*Turtle Mountain Band of Chippewa*

**Architect**

**DSGW Architects and First American Design Studio LLC**

Mike Laverdure is an enrolled member of the Turtle Mountain Band of Chippewa in North Dakota. He is a registered architect and a Sequoyah member of AISES. Mike is currently a partner at DSGW Architects, and President of the Native American owned, First American Design Studio. Mike was the President of the American Indian Council of Architects and Engineers for 2017-2018. Mike has made it a mission in his life to promote architecture and engineering as valid and vital STEM careers for tribal youth. In 2019, Mike was elected to his second term on the AISES board of directors.

**Adam Leggett**

*Native Village of Eklutna*

**Alaska Native Program Manager**

**Stantec**

Adam Leggett, BS, MBA, is the Alaska Native Program Manager for the Anchorage, AK Stantec office. He is Dena'ina Athabascan and an enrolled member of the Native Village of Eklutna where he serves as Treasurer on the Tribal council. Adam is a U.S. Navy Veteran and has more than 13 years of experience working for a variety of Alaska businesses, including oil and gas companies and Alaska Native businesses. In his role as the Alaska Native Program Manager, he is focused on developing and facilitating business partnerships with Alaska Native Corporations, Tribes, nonprofits, and organizations. In addition, he provides project support as a specialist in cultural integration, grant writing, and human resources to make Stantec a diverse and inclusive place to work. Adam was a 2017 "Native American "40 Under 40" award recipient by the National Center for American Indian Enterprise Development. Adam serves on several boards including the Eklutna, Inc. Scholarship Committee, Alaska Native Cultural Charter School Academic Policy Committee and the Department of Energy Office of Indian Energy Tribal Working Group. In his spare time, he enjoys volunteering for several other organizations including Big Brothers Big Sisters, the American Heart Association, and his son's sports teams.

**David Luber**

**Executive Director (EXDIR)**

**United States Cyber Command (USCYBERCOM)**

The EXDIR position represents the highest-ranking-civilian and third-in-command at USCYBERCOM. Mr. Luber leads an organization of over 12,000 personnel, to include a headquarters element, six large Service Cyber Components, 133 Cyber Mission Force Teams consisting of over 6,000 cyber warriors, and Department of Defense (DoD) enterprise defense forces. He drives global cyber operations for combatant commanders, and defends U.S. critical infrastructure, while shaping a budget of nearly \$700M, and elements of DoD budgets totaling in the billions.

**Dr. Erika Marin-Spiotta**

**Professor**

**University of Wisconsin - Madison**

Erika Marin-Spiotta is a Professor of Geography at the University of Wisconsin - Madison and an affiliate of the Nelson Institute for Environmental Studies; the Departments of Soil Science and Forest and Wildlife Ecology; and the Latin America, Caribbean, and Iberian Studies program. Her research focuses on how changes in climate and land use alter ecosystem processes such as nutrient and carbon cycling. Marin-Spiotta is the recipient of a National Science Foundation (NSF) CAREER Award, the Sulzman Award for Excellence in Education and Mentoring from the American Geophysical Union, and the President's Award from the Association for Women Geoscientists. This Fall she will be a resident Feminist Scholars Fellow at the Center for Research on Gender and Women at UW-Madison. Marin-Spiotta is committed to increasing the participation of historically underserved groups in science and serves on the leadership council of the nonprofit Earth Science Women's Network, which is dedicated to peer mentoring, career development, and

community building for women in the geosciences. She is currently leading a national program funded by NSF to transform workplace climate in the geosciences and other scientific fields through the development of bystander intervention and research ethics training.

**Lina Martin**

*Ho-Chunk and Stockbridge-Munsee Band of Mohican Indians*

**Student Service Coordinator**

**Native American Center for Health Professions**

Lina Martin is the Student Support Coordinator for the Native American Center for Health Professions located within the University of Wisconsin School of Medicine and Public Health in Madison, Wisconsin. Lina grew up in Madison. She is an enrolled member of the Ho-Chunk Nation and Stockbridge-Munsee Band of Mohican Indians. She graduated from the University of Wisconsin - Madison with a degree in women's studies, history and a certificate in American Indian studies.

**Catalina Martinez**

**Regional Program Manager**

**NOAA/OAR/Ocean Exploration**

Catalina Martinez (MSc Oceanography, MMA Marine Affairs, MBA) manages a regional program for NOAA's Office of Ocean Exploration and Research (OER) focused on ocean exploration via telepresence. Ms. Martinez also works on a variety of local, regional, and national efforts to face the issues and challenges associated with recruitment and retention of underrepresented individuals in STEM fields. She was honored with the University of Rhode Island's Diversity Award for Staff/Administrator Excellence in Leadership and Service in 2010 for this work, and was recognized by the YWCA as one of their 2015 Women of Achievement in Rhode Island for promoting peace, justice, freedom and dignity for her consistent efforts to help increase potential for life success for individuals born to challenging circumstances. Most recently, Ms. Martinez was awarded the 2016 NOAA Oceanic and Atmospheric Research EEO/Diversity Award for Exemplary Service for dedication to improving the representation of women and minorities in STEM.

**Paul Marynowski**

**Legislative and Public Affairs Staff Lead**

**National Security Agency**

Paul Marynowski has worked for the National Security Agency (NSA) for nearly 36 years, in a wide variety of postings, including in analysis, current operations, requirements, planning, strategic communications, and with customer and partner organizations. He is currently a legislative and public affairs staff lead. Paul is the agency's American Indian and Alaskan Native Employee Resource Group representative for his site, supporting diversity, inclusion, and academic engagement initiatives; NSA is a widely recognized leader in these efforts. Paul has political science and national security studies degrees from Duke and Georgetown Universities. He was raised in upstate New York and Florida and currently resides in Colorado.



**Shana Mashburn**

*Comanche*

**Studies Chief and Groundwater Specialist**

**U.S. Geological Survey Oklahoma Water Science Center**

Shana Mashburn is currently the Studies Chief and Groundwater Specialist for the U.S. Geological Survey Oklahoma Water Science Center in Oklahoma City. She received a Master's degree in Geology from Oklahoma State University in 2003. Shana has been working for the USGS since 2001. Her projects in Oklahoma have included studies on alluvial aquifers and bedrock hydrogeology. Shana was heavily involved in the Garber-Wellington aquifer study, that included potentiometric-surface maps, percent-sand-based geologic framework, groundwater-flow modeling with allocation scenarios. She was also part of Rush Springs aquifer studies for the Caddo Nation, the state of Oklahoma, and Bureau of Reclamation that included water-level data collection, analysis of groundwater/surface-water interactions, and springs inventory. More recently, Shana has been working on the Boone and Roubidoux aquifers study in eastern Oklahoma and collaborating to help develop additional studies of the Arbuckle-Simpson aquifer. Shana has worked with many tribes across Oklahoma for the past 18 years as part of collaborative hydrologic projects to help tribes with water resource concerns and issues.

**Duane Matt**

*Confederated Salish and Kootenai and Pend D'Oreille Tribes Geologist*

**Division of Energy and Mineral Development/U.S. DOI**

Duane Matt is a member of the Confederated Salish and Kootenai and Pend D'Oreille Tribes located on the Flathead Indian reservation located in western Montana. Mr. Matt currently works as a Geologist with the Division of Energy and Mineral Development (DEMD) in Lakewood, CO. DEMD is part of the Office of Indian Energy and Economic Development (IEED.) He previously worked as both a Reclamation Specialist and Technology Coordinator with the Office of Surface Mining Reclamation and Enforcement (OSMRE) in Denver, CO. Both DEMD and OSMRE are part of the Department of the Interior (DOI). Before working for DEMD, Duane worked for the Bureau of Land Management (Initial Attack Fire Dispatcher), Scientific Applications International Corporation (Field Geologist), Bureau of Reclamation (Geological Intern), United States Department of Agriculture (Smokejumper), Confederated Salish and Kootenai Tribes (Minerals department) and National Park Service (Helitack/Firefighter). Duane also worked as a schoolteacher on the Laguna-Acoma reservation in New Mexico. He holds a Master's Degree in Geology and a Bachelor's Degree in both Geology and English/Secondary Education. Mr. Matt was a member of the University of Montana cross-country and track-and-field teams (1986-1990). He also possesses six years of experience coaching both boys' and girls' high school cross-country and track-and-field. Duane is a founding board member of the Society of American Indian Government Employees (SAIGE.) Duane is also a member of the American Indian Science and Engineering Society (AISES).

**Brandon McCain**

**Program Coordinator and Marketing Specialist**

**National Academies of Sciences, Engineering, and Medicine**

Brandon McCain is the Marketing Specialist and Program Coordinator in the Fellowships Office of the National Academies of Sciences, Engineering and Medicine. Brandon has knowledge of various predoctoral, dissertation, and postdoctoral fellowship programs. Brandon has organized this session on financing graduate and postdoctoral education. He has established professional relationships with many Indigenous scholars who have received Ford Foundation Fellowship awards.

**Cheryl McClellan**

*Sax & Fox Nation*

**Quality Engineer**

**Boeing Company**

Cheryl McClellan joined the Boeing Company in March 2013 as a Supplier Quality Specialist. Her Tribal affiliations are the Sac and Fox Nation. Cheryl works in the Boeing Company Oklahoma City facility. She is a member of the Boeing American Indian Society. Cheryl has been a member of AISES for many years and is a Sequoyah Fellow. Cheryl was the named the recipient of the 2018 Ely S. Parker award - the highest award bestowed by AISES for exemplary contributions in science, technology, engineering and mathematics (STEM).

**Lorelei McIntyre-Brewer**

*Cherokee heritage*

**Founder and Chief Executive Officer**

**Heart Hugs**

Lorelei McIntyre-Brewer is the Founder and CEO of Heart Hugs, a global organization that provides tangible support and advocacy for congenital heart defect awareness, detection, and treatment. Her work includes several educational publications explaining the Total Artificial Heart, 3-Stage Palliative Reconstruction, and the effects of trauma on patients. She has been instrumental in funding various medical response programs, advocating for transplantation approval for children with intellectual disabilities, as well as better cardiac care for Wounded Warriors, providing compression heart pillows to over 36,000 open heart patients from around the world, and advocating for informed and culturally responsive health programs to help detect congenital heart defects. She was recognized as the 2016 Military Child of the Year for the Army, a National Prudential Spirit of Community Award Recipient, an Everyday Health Hero by Dr. Mehmet Oz, and is a part of the upcoming series Marvel's Hero Project, as well as numerous other distinctions. Her Cherokee heritage greatly influences her approaches to Resiliency and Healing as she faces her own complicated diagnosis of Hypoplastic Left Heart Syndrome, an incurable severe congenital heart defect. Lorelei's ability to make extremely complicated diagnoses understandable to the public creates hope and understanding in each community she serves.

**Caroline Montgomery**

**Communication Strategist**

**NASA**

Caroline is the Communication Strategist for MAIANSE, working from the Office of Education at NASA Langley Research Center, in her



hometown Hampton, VA. She is motivated by stories and the innate power they have to transform lives, cultivate growth and create change. Caroline holds a Bachelor of Arts in Communication with a focus on Multimedia Journalism from Virginia Polytechnic Institute. Her background includes work as a Montessori teacher, a Farmers Market assistant and as a content developer at a start up to finally landing the job with MAIANSE at NASA. Her favorite part of her job is making new connections with people interested in MAIANSE and fostering communication centered on building bridges between Indigenous communities and NASA.

**Karli Moore**

*Lumbee*

**Associate Program Officer**

**Native American Agriculture Fund**

Karli Moore is an Associate Program Officer at the Native American Agriculture Fund. She has experience on a family farm operation; with youth-led food sovereignty initiatives; in corporate agribusiness; with international agriculture projects, and; at land-grant institutions. Karli earned her bachelor's degrees in chemistry and agricultural business management from North Carolina State University. She will soon finish a dual master's program in agricultural economics and international development from the University of Arkansas (with studies at Humboldt University of Berlin). She coordinated a monarch butterfly conservation program for BASF Agricultural Solutions and conducted logistical analysis relating to the Food Distribution Program on Indian Reservations for the Indigenous Food and Agriculture Initiative. She has experience in tribal communities (working for her family's direct-market beef business in North Carolina) and global contexts (conducting rural development research in Slovakia). Karli serves on the inaugural board of directors for the Native Youth Food Sovereignty Alliance and is a member of Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS). She is a Park Scholar, Udall Scholar and sister of Alpha Pi Omega Sorority, Inc. Karli cherishes her parents, three siblings, extended family, and friends.

**Donald Motanic**

*Umatilla and Coeur d' Alene*

**Technical Specialist**

**Intertribal Timber Council**

Donald Motanic earned a BS in Forest Engineering from the University of Washington. He has a 34-year career with the Bureau of Indian Affairs with positions that include forest engineer, forest manager and regional forester.

**Misty Mousseaux Begay**

*Oglala Lakota*

**Chief Executive Officer**

**MMPowered Strategies**

Misty Mousseaux Begay is Oglala Lakota from Porcupine, SD. Having spent 15 years in higher education, Misty left office work and started her own boutique business. With a background in youth outreach, grant management and teaching mathematics making the adjustments and change to boutique life was interesting. Misty took it as a challenge to learn the ins and out of building inventory, processing systems and a life of taxes plus all the laws and rules of licensing in her state and the reservation economy. After two years,

two locations and the boutiques online systems growth, other aspiring business owners, entrepreneurs and established stores started reaching out to seek trainings, up-to-date online algorithms and the latest marketing must haves and know how's. The last eight months have been spent building a business in grant writing, business coaching and start up building contacts and networks in 15 states. The best part of owning her own businesses is being able to schedule her time around her two children and a busy husband. Without the help of her team and community, none of this would be possible.

**Bonnie Murray**

**Strategic Partnerships Lead**

**NASA**

Bonnie is a NASA Education Specialist working in the Office of STEM Engagement at NASA Langley Research Center, in Hampton, VA. Bonnie works with the NASA MAIANSE (Minority University Research Education Project for American Indian and Alaska Native STEM Engagement) and Minority University Research and Education Project (MUREP) building partnerships to support American Indian and Alaska Native communities and coordinating Distance Learning elements to connect students to NASA mission content.

**Andrew Narcomey**

*Seminole Nation of Oklahoma*

**Analyst**

**BlackRock Inc.**

Andrew Osceola Narcomey is a new graduate of Stanford University with a BS in Computer Science and concentration in Artificial Intelligence. He is Seminole Nation of Oklahoma and grew up around San Francisco, California, which shaped his interests in starting a career in technology and finance. While at Stanford University, Andrew served as the Vice President of Stanford's AISES Chapter and helped lead the organization of the 2019 AISES Region 2 Conference with over 30 different speakers over the course of the three-day event. He has also worked on using technology to record and preserve Seminole language and culture. Andrew is currently an Analyst in the Risk and Quantitative Analysis division at BlackRock where he uses his computer science background to work on innovative projects to better understand idiosyncratic returns in investment portfolios.

**Sandra One Feather**

*Oglala Lakota*

**Human Resource Program Specialist**

**Los Alamos National Laboratory**

Sandra is an Human Resource People and Organizational Development Program Specialist at Los Alamos National Laboratory (LANL). She managed the Lab's institutional mentoring program for several years and is a member of a team who develops and implements workforce development and leadership programs. Sandra has worked in the LANL Diversity Office as a Program Specialist and Senior Institutional Diversity Staffing Recruiter. She also managed the LANL Institutional Recruiting and Advertising programs for 7 years. Prior to LANL, she worked for IBM.

**Dr. Warner Orozco**

*Native American (non affiliated)*

**Extension Educator**

**Virginia Cooperative Extension and Pamunkey Indian Tribe**

Warner began his studies at The Costa Rican Institute of Technology majoring in Agronomy. He earned his BS at UC Davis specializing in Plant Sciences. He earned a master's degree in Environmental Law at The International University of Andalucía, Spain as well as a master's degree in Horticulture from the University of Georgia. He completed his PhD in Horticulture at Auburn University. Warner's dissertation evaluated the suitability of Sacred Lotus to phytoremediate organic compounds, nutrient run-off, and heavy metals from polluted waters. Warner has worked as a Post-Doctoral Research Associate at the University of Florida Center for Aquatic and Invasive Species and at the University of New Mexico as a visiting professor in the Sustainability Studies Program. In New Mexico, Warner also had the opportunity to do some agricultural consulting for Native American Communities focused on heritage farming and sustainable agricultural practices. Warner joins us as VA Cooperative Extension's first Native American Extension Educator. Currently, he works for the Pamunkey Indian Tribe at King William, VA. Here, he is developing a program focused on three goals: 1. Natural Resource Management, 2. Research, test, implement and develop alternative Agri-business options for tribal lands, and; 3. Cultural rescue and outreach.

**Jackson Osborn**

*Choctaw Nation of Oklahoma*

**Associate Scientist**

**Cooperative Institute for Research in Environmental Sciences/NOAA**

Jackson Osborn is an Associate Scientist at the University of Colorado's Cooperative Institute for Research in Environmental Sciences (CIRES) and the National Oceanic and Atmospheric Administration (NOAA). His current work involves the development and deployment of earth system sensing instrumentation for use on UAVs, micro-buoys, and other autonomous platforms. Jackson began his career as a Student Assistant in 2016. Jackson holds a BS in Electrical Engineering from the University of Colorado-Denver. Jackson is an enrolled member of the Choctaw Nation of Oklahoma. He has been a member of AISES since 2013 after finding the CU Denver AISES Student Club and attending the 2013 AISES National Conference. Jackson is now a Sequoyah Fellow and a member of the recently reformed AISES Colorado Professional Chapter.

**Jessika Pettit**

**Help Desk Program Manager**

**Contractor Task Lead - Indian Health Service**

Jessika Pettit is the Task Lead for the Tier 3 IT Service Desk at the Indian Health Service (IHS) located in Albuquerque, NM. She also manages the Tier 2 End User Support team located in Rockville, MD. Jessika's team of 14 employees offers desktop support for 800 users as well as enterprise IT support for about 22,000 users. While her educational background is in Pre-Law (she earned a Bachelor's of Science in Government: Law & Society and a Bachelor's of Criminal Justice from New Mexico State University) her personality pushed her more towards a career in customer service. "As an ESFJ (Myers-Briggs personality type) I naturally want to give to others and I gain my personal satisfaction from the satisfaction of others," she said. Jessika

began her career in the IT field as the Contract Support Specialist. She maintained spreadsheets, filed paperwork and assisted her team members with administrative tasks. After her second year with the IHS, she was asked to step in and assist with the Service Desk during a staff shortage. Seeing the request as an opportunity to expand her knowledge, Jessika stepped in. Within two years, she earned her ITIL foundation certification and became the Task Lead for the Service Desk.

**Dr. Ruth Pickett Seltner**

**Associate Professor**

**Mount Royal University**

Ruth Pickett Seltner is an associate professor of biology with a strong interest in STEAM. While her research has been focused on eyes and development, a passion for teaching has led to an interest in the relationship between the study of art and observation with success in science. This interest dovetails with an interest in support for First Nations students at the institution through the Iniskim Centre and the ASTEP programme. As she learns more about tradition and culture, diversity and equality, the role of art in science becomes more compelling. There are many ways to engage and integrate art into science and those opportunities may lead to greater success in both areas.

**Dr. Ken Poff**

**Professor Emeritus**

**Michigan State University**

Ken Poff, PhD is Professor Emeritus of Michigan State University Department of Horticulture, where he conducted research on plant sensory biology, served as Associate Dean of Diversity and Pluralism, as well as having run a plant research program for undergraduate minority students and writing a book on how to navigate and succeed in graduate school. He has been an AISES Sequoyah Fellow for 20 years and is a regular attendee at AISES national conferences. In retirement, Ken continues to encourage students in their education, gives presentations, and actively manages and works his farm, and raises honeybees.

**Dr. Norma Poll-Hunter**

**Senior Director, Diversity Policy and Programs**

**Association of American Medical Colleges**

Norma Iris Poll-Hunter, PhD is Senior Director of Human Capital Initiatives in Diversity Policy and Programs at the Association of American Medical Colleges (AAMC). She leads a portfolio of career development programs and initiatives focused on advancing diversity and inclusion across the medical education continuum from the premedical pipeline to faculty development. She also serves as the Deputy Director for the Summer Health and Professions Education Program (SHPEP), and she is engaged in research and evaluation focused on diversity in medical education and the health care workforce. Her research interests are in the area of the career development of racial and ethnic minorities, culturally responsive health care, and diversity in the health professions. Prior to the AAMC, Dr. Poll-Hunter practiced as a bilingual psychologist in New York. Following receipt of her BA from Lehman College, CUNY, she attended the University of Albany, SUNY, where she earned her PhD in counseling psychology. She is a Bronx native of Puerto Rican heritage and is passionate about diversity and equity.

**Travis Potter**

*Euclidean Tribe*

**Information Technology Project Manager**

**FEMA Region IV**

Mr. Travis Potter is the Information Technology Project Manager and Remote Sensing/Unmanned Aircraft Systems (UAS) Coordinator for Region IV of the Federal Emergency Management Agency (FEMA). He has been deployed to over 25 disasters during his 10 years at FEMA. Mr. Potter has been instrumental in developing a strategy for using UAS observations to quickly assess the damage and impacts of disasters within FEMA Region IV, which includes Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. Mr. Potter established a partnership among local, state and federal entities with UAS resources in FEMA Region IV and helped define a common set of requirements for UAS data capture and analysis to facilitate fast, easy information exchange among the partners. This collaborative UAS observing strategy is now serving as a template for other FEMA regions in the United States. Mr. Potter received the FEMA Administrator's Award for Innovation in March 2019 for this accomplishment. Mr. Potter is of Euclidean heritage and has worked extensively with the numerous Tribal Nations who reside within the eight states comprising FEMA Region IV.

**Paige Prescott**

**Executive Director**

**Computer Science Alliance**

Paige Prescott has been involved in Computer Science education for more than fifteen years. As Executive Director of the newly formed Computer Science Alliance, she is interested in strengthening the community of people involved computer science education and to advocate for more computer science offerings in schools, especially to the underserved areas in rural and Native American communities. She is the President of the Computer Science Teachers Association of New Mexico (CSTA-NM) and is pursuing a PhD in Learning Sciences at UNM where she is focusing on computer science education. Paige has personally trained over 500 teachers to bring computer science to their students K-8 and has organized large-scale PD events in CS. She began her science teaching career in Gallup, NM and continues to work with Native American communities to bring Computer Science by creating near-peer mentors to run clubs in Pueblo libraries and customized professional development for teachers in Bureau of Indian Education schools.

**Marcellus Proctor**

*Piscataway-Conoy*

**Assistant Division Chief**

**NASA Goddard Space Flight Center**

Mr. Marcellus Proctor (Piscataway-Conoy) is the Assistant Division Chief of the Electrical Engineering Division at NASA Goddard Space Flight Center (NASA/GSFC). Mr. Proctor is an enrolled member of the Piscataway-Conoy Nation, which is located in Southern Maryland (20 miles South of Washington D.C.). As the Assistant Division Chief, Mr. Proctor assists in the leadership of an organization of engineers, technicians, managers, and support staff engaged in the design, analysis, development, integration, and launch of electrical and electronics systems. Marcellus was the Chair of the NASA/GSFC Native American Advisory Committee (NAAC) from

2007-2011, current Co-Chair of the American Indian Science and Engineering Society (AISES) Government Relations Council (GRC), Lifetime member of the Society of American Indian Government Employees (SAIGE), AISES, and National Society of Black Engineers (NSBE). Mr. Proctor received his BS degree in Electrical Engineering from the University of Maryland College Park and his MS in Electrical Engineering from Johns Hopkins University.

**Adam Recvlohe**

*Muscogee Creek Nation*

**Software Developer**

**Natives in Tech**

Adam Recvlohe is a software developer with more than 4 years experience working professionally and a member of the Muscogee (Creek) Nation of Oklahoma. Adam is now working to build a community centered around Native developers in order to develop applications that better serve the needs of Native peoples here on Turtle Island. It is his mission to see more web applications that reinforce Native culture, knowledge, and identity.

**Dr. Maria Jamela Revilleza**

**Health Science Policy Analyst**

**Tribal Health Research Office, DPCPSI, NIH**

Prior to joining THRO, Dr. Revilleza was a Scientific Program Analyst at the Division for Research Capacity Building, NIGMS, that administered the Institutional Development Award (IDeA), Native American Centers for Health (NARCH), Support of Competitive Research (SCORE), and Science Education Partnership Award (SEPA) programs. A biochemist by profession, she received her PhD from the University of the Philippines, with a Fulbright dissertation grant at UC Berkeley. She was an associate professor of Biochemistry and Molecular Biology at the University of the Philippines where she mentored students in Chemistry and Molecular Biology, as well. A former professorial lecturer at American University, she joined the intramural program at NIH as a postdoc at the Molecular Biology Section of the Laboratory of Immunology, NIAID.

**Kristine Rhodes**

*Anishinaabe, Fond du Lac and*

*Bad River Band of Lake Superior Chippewa*

**Chief Executive Officer**

**American Indian Cancer Foundation**

Kris Rhodes, MPH, is the Chief Executive Officer at the American Indian Cancer Foundation. Starting her career as a Community Health Educator, Kris finds her passion in tobacco and cancer control through research, partnerships, and mentorship. Kris brings a unique combination of research expertise and community knowledge, coupled with applied public health service to the field and dedicates her life work to family members who have passed from cancer.

**Jamie Ricci**

**Researcher**

**Indspire**

Jamie is an active volunteer for AISES and holds the role of Researcher at Indspire, Canada's largest charity supporting Indigenous peoples' access to education.



**Jennifer Roadcap**

Vice President

**Koniag Government Services**

Jennifer Roadcap is a certified PMP and SAFe Agilist with 30 years of IT experience in software engineering. Jennifer is a recognized expert in Operations and has an extensive background in software testing, ITSM, configuration management and management of environments, both virtual and in the cloud. Over the past 10 years, Jennifer has successfully managed large scale programs with a high level of customer satisfaction and operational excellence. She encourages and helps her teams to set a high bar for quality, demonstrate continuous improvement, and strive to exceed customer expectations.

**Rosario Robinson**

Senior Director, Women in Tech Evangelist

**AnitaB.org**

Rosario (Rose) Robinson is an innovative thought leader, speaker and global transformation change agent in technology and diverse workforce. As a woman technologist for more than 25 years and as the Women in Tech Evangelist for AnitaB.org, she helps further the organization's mission for 50/50 women in tech by 2025 through stimulating storytelling, thoughtful dialogue and advocating for true representation in tech. Additionally, Rose is involved in social impact projects for criminal justice reform, Computer Science education in minority serving institutes and #Cancer advocacy. Rose works with organizations to assist disenfranchised communities toward financial stability through innovative open source technology. She engages with the Industry Advisory Board she founded at Savannah State University Computer Science department helping increase awareness of Computer Science education, conference, scholarships and open source tech and community opportunities for student and faculty. And as a #BreastCancerSurvivor, Rose also advocates for healthcare access for everyone, more cancer research, early screening, improvements in patient care and support for caregivers.

**Rita Sampson**

Chief of IC Equal Employment Opportunity and Diversity

Office of the Director of National Intelligence

Office of the Director of National Intelligence

Ms. Sampson is the Chief of IC Equal Employment Opportunity and Diversity (EEOD) within the Office of the Director of National Intelligence (ODNI). She advises the Director of National Intelligence on all matters relating to compliance with federal EEO laws, policies, and directives that impact the ODNI workforce and the Intelligence Community (IC). From 2010 to 2013, Ms. Sampson served as a Senior Civil Liberties Advisor in the ODNI's Civil Liberties and Privacy Office. Before joining the ODNI, Ms. Sampson served in various capacities within the United States Department of Justice. As an Assistant Director within the Executive Office for United States Attorneys (EOUSA), she served as the agency's EEO Officer and led all aspects of the agency's EEO program, covering 94 district offices. She also served as an Assistant General Counsel within the EOUSA, specializing in government ethics and employment litigation. Before joining the EOUSA, she worked in the Office of the General Counsel at the Federal Bureau of Investigation (FBI), where she litigated a range of civil matters, including complaints related to excessive use of force, the Federal Tort Claims Act, and Title VII civil rights violations.

**Josef Sanchez**

*Mescalero Apache*

Systems Engineer

**Zoox Inc.**

Josef Sanchez, Lipan and Mescalero Apache, is a System Design Engineer at Zoox Inc., working on developing the future of autonomous mobility. Prior to joining Zoox, Josef was at NASA's Jet Propulsion Laboratory as a Systems Integration and Test Engineer, where he worked on the Mars 2020 Rover, ASPIRE, Europa Lander Concept, and Low Density Supersonic Decelerator projects. Josef has been a member of AISES since his undergraduate studies at California Polytechnic State University-San Luis Obispo where he received his BS and MS degrees in Aerospace Engineering. Josef is passionate about ensuring more Native peoples are a part of the development and propagation of new technologies.

**Anthony Sanders**

Assistant Division Chief

**NASA Goddard Space Flight Center**

Anthony Sanders is the Assistant Chief of the Instrument Systems and Technology Division within the Applied Engineering and Technology Directorate at NASA Goddard Space Flight Center. He is responsible for administering Division-wide programs and serves as an expert consultant on the most challenging technical problems in fields of optics, cryogenics and fluids, detector systems, lasers and electro-optics, microwave instrument technology and instrument systems. Previously, he served as the Associate Chief of the Quality and Reliability Division where he provided senior management leadership of reliability and risk assessment, mission software and ground system assurance, and quality engineering branches. Mr. Sanders has a BS degree in Electrical and Nuclear Engineering from the University of Maryland. He has authored and co-authored numerous data workshop papers involving radiation effects on microelectronics at both international and national conferences. He is a member of IEEE Nuclear and Plasma Sciences Society (NPSS), American Institute of Aeronautics and Astronautics (AIAA), National Society of Black Engineers (NSBE), and the University of Maryland Alumni Association.

**Dr. Holly Schaeffer**

Adjunct Instructor

**Lansing Community College**

Holly Schaeffer, (PhD Michigan State University, Molecular Genetics, BS University of Maine, Biochemistry) has taught over 20 years across middle school, high school, and college. She currently is adjunct instructor at Lansing Community College teaching Environmental Biology, where she shares sustainable agricultural practices of the 115 acre farm she runs with her husband. They grow numerous crops and raise honeybees. As a first generation college student, she has been dedicated to helping demystify the college and graduate school experiences and expectations for her students. She has been a Sequoyah Fellow of AISES for over 10 years and has served as reviewer of applications for scholarships, graduate school, and college programs.



**Prairie Rose Seminole***Three Affiliated Tribes***Program Director****American Indian and Alaska Native Ministries - ELCA**

Prairie Rose Seminole is a citizen of the Three Affiliated Tribes of North Dakota, descendent of the Sahnish/Arikara, Northern Cheyenne, and Lakota Nations. She is a former staffer with the Nueta Hidatsa Sahnish College. Seminole currently serves as the American Indian and Alaska Native Program Director for the Evangelical Lutheran Church in America. She serves American Indian and Alaska Native communities around the United States as an educator, and advocate, deconstructing colonial systems of oppression.

**Nicole Shaw***Navajo Nation***Sr. Engineer****Souder, Miller & Associates**

Ms. Shaw has extensive experience providing water resources planning and engineering services to tribal entities in New Mexico. As a Senior Engineer at SMA, Ms. Shaw has worked on several planning documents including Preliminary Engineering Reports focusing on water system improvements, wastewater collection system improvements and wastewater treatment upgrades. Her experience includes developing GPS/GIS-based asset inventories for water distribution and wastewater collection systems, designing water projects for local and regional community water systems, hydraulic modeling of utility systems, preparing record drawings and developing GIS data. Through her experience assisting communities with planning and designing water and wastewater projects, Ms. Shaw has evaluated and prioritized infrastructure capital improvement projects to help communities strategically focus funding procurement efforts on projects with the greatest need.

**Juanda Siddiqui***Rhode Island Indian***Sr. Information Technologist II****Raytheon Company**

Juanda Siddiqui, a Narragansett Bostonian and middle child, was the first of 6 siblings to graduate from high school and attend college. Her first introduction to corporate America was while she was a student attending Boston University. Juanda's college experience was not traditional. She was a full-time student responsible for her own education. After her freshman year, she depleted all of her savings and needed to obtain full-time employment to pay for her education. Upon completing her undergraduate degree, Juanda landed a position with a software startup and worked as an Application Support Analyst. She went on to graduate school where she obtained a MEd in teaching specializing in Moderate Disabilities, and took a 5 year sabbatical from Information Technology (IT) to Teach Math in a public school system, before returning to IT. In the early 90's, Juanda spend a lot of time in the Middle East where she was exposed to jewelry manufacturers. She has operated her own jewelry business for the past 15 years where she enjoys meeting and greeting people from all over the world. Juanda came to Raytheon in 2015 as a Contractor and was hired full-time in November 2018. She has over 20 years of experience in IT ranging

from Desktop Support to Program Management. She has also worked in many industries such as education, energy, and defense.

**Sheri Smith****Founder and Chief Executive Officer****Indigo Education Company and Impact Initiative**

Sheri Smith is the Founder and Chief Executive Officer of Indigo. She has 17 years of experience in entrepreneurial leadership and sales, helping start companies in retail and heavy industry, and building the U.S. State Department's first website while in college. A national expert in assessment technology, she uses these tools in high schools and higher education as a way to engage students, empower educators, and transform schools.

**Trish Solliday****Senior Health Equity Consultant****Close the Gap**

Trish Solliday has 20 years' research and development experience in both consumer goods and medical devices. For the past ten years, Trish has been with Boston Scientific, a world-leader in the development and manufacturing of minimally invasive medical technologies and solutions. Throughout her tenure Trish has held various positions with increasing responsibilities supporting efforts related to the Product Life Cycle Process, Value Improvement and Acquisition and Integration. She has a BS degree from Hampton University and a MS from the University of Alabama. Trish will complete her MBA from St. Thomas University in 2020. Blending her engineering skill sets with her passion for helping others, Trish recently transitioned to a new role within Boston Scientific supporting its health equity initiative called Close the Gap. As Senior Health Equity Consultant, Trish is responsible for managing relationships with health care providers that result in reducing the barriers to care for populations that are sorely underrepresented in medical research and health outcomes.

**Dr. Corey Still***United Keetoowah Band of Cherokee Indians***Director of Scholarship Operations****American Indian Graduate Center**

Dr. Cory Still is Director of Scholarship Operations who is responsible for ensuring scholarship program delivery and achieving outcome goals in conjunction with the AIGC's vision, mission, and strategic direction. He serves as a liaison between educational institutions and recipients, and the wider Native American community. Originally from Tahlequah, OK, Dr. Still was named a 2009 Gates Millennium Scholar. He holds a Bachelor of Arts degree in Native American Studies from the University of Oklahoma, a Master of Science degree in Higher Education Leadership from Northeastern State University, and a Doctorate in Adult and Higher Education with an emphasis in Student Affairs and Higher Education Administration from the University of Oklahoma. Dr. Still's current research agenda includes the experiences of undergraduate Native men, Native/Indigenous masculinity, Native American fraternities and sororities, and Native student leadership development. He has served on several national and regional boards, advisory councils, and community and organizational leadership teams advocating and promoting Native education across the country.

**Coty Sutherland**

*Waccamaw Siouan of North Carolina*

**Software Engineer**

**Red Hat Inc.**

Coty Sutherland is a Senior Software Engineer at Red Hat, Inc., that contributes to the JBoss Web Server product. He is a member of the Waccamaw Siouan Tribe. Over his 7-year career at Red Hat, Coty has been in various positions including Technical Support Engineer for Tomcat/httpd/JBoss EAP, Business Intelligence Engineer, and now Senior Software Engineer. Coty is an active contributor to the Tomcat community, co-maintainer of Fedora's Tomcat and Tomcat Native packages, and maintainer for the RHEL Tomcat package. Coty also recently launched a Diversity and Inclusion Community at Red Hat for Native and Indigenous people with a focus on educating colleagues about Indigenous peoples and working to increase the number of Indigenous people in STEM, specifically software and technology.

**Riley Taitingfong**

*Chamoru*

**PhD Candidate**

**University of San Diego**

Riley Taitingfong is a PhD candidate in the Department of Communication at the University of California-San Diego. Her research is informed by Indigenous Studies, Pacific Studies, and Science Studies, and looks at the tensions between Western scientific research and Indigenous ways of knowing in the fields of biomedicine and environmental conservation. Her current project focuses on the social and ethical implications of genetic engineering technologies being developed for conservation purposes in Hawai'i. She has experience in community-based participatory research and ethnographic methods.

**Frazer Tee**

*Inupiaq*

**BIOS Engineer**

**Intel Corporation**

Frazer Tee was born and raised in Anchorage, Alaska and received his BS degrees in Computer and Electrical Engineering from the University of Alaska Anchorage. His mother is Inupiaq from Nome, Alaska and his father is Chinese from Burma. Frazer currently works at Intel as a BIOS Engineer, writing firmware that initializes DRAM Memory for Intel computer systems. He is the Cross-Site Co-chair for Intel's Native American Network Employee Resource Group which focuses on developing and retaining a diverse and inclusive workforce. He has been an AISES member since he was a university student, and he is now co-president of the North California Professional AISES chapter.

**Bill Thomas**

*Kanaka Maoli (Native Hawaiian)*

**Senior Advisor for Islands, Indigenous and International Issues**

**National Oceanic and Atmospheric Administration**

**National Ocean Service**

**Office for Coastal Management**

Bill Thomas (BSc Biology, MSc Zoology) is the Senior Advisor for

Islands, Indigenous, International Issues for the NOAA Office for Coastal Management. Prior to his current position, he was the Director for the NOAA Pacific Services Center in Honolulu from 2002-2013. He also served in various leadership positions for NOAA's National Marine Sanctuary Program and Estuarine Research Reserve System from 1980-1990 in addition to working as a Sea Grant Extension agent from 1978-1990. From 1990 to 2002, Bill served as the Special Assistant to the Senior Vice President for Academic Affairs and Director for Community and Alumni Relations at the University of Hawai'i. He has served on numerous local, state, and federal committees and has served in leadership for several. One of NOAA's few Native Hawaiians in a leadership position, he has focused his professional work on ecosystem services and sustainable communities, mitigation of coastal hazards, impacts of climate variability on coastal and marine resources, impacts of climate on national security, and the integration of Indigenous sciences into decision making at all levels of government.

**MRutheyi Thompson**

*Mescalero Apache*

**CESCO, REA, REP**

**U.S. Bureau of Reclamation**

MRutheyi Thompson is the current President of the AISES Colorado Professional Chapter. She works for the Bureau of Reclamation as an Environmental Engineer/Safety Specialist. She is an alumna of Brigham Young University. She has designed and built several universal accessible recreation features, taught numerous workshops and on the team that designed a Gold LEED Certified building. She has several awards for technical presentation and public speaking. She enjoys singing and storytelling, nature walks, travel, armored medieval mixed martial arts and being the reigning Queen of the Grand Junction Renaissance Faire in Colorado. She has two daughters and two cats, though only the cats still live at home.

**Brielle Thorsen**

*Saddle Lake Cree Nation*

**Canadian Senior National Student Representative**

**Queen's University**

Brielle was born and raised in Calgary, Alberta who is studying Applied Mathematics and Mechanical Engineering at Queen's University. She has interned with Suncor Energy in Engineering Data Management. She has also been an assistant coach for the Special Olympics Swim Club. She has worked with indigeSTEAM, serving as the Mathematics and Mechanical Engineering Class of 2020 representative, and has also worked as the Logistics Coordinator for the Queen's Oil and Gas Speaker Series. She has served as the Treasurer for the Queen's Chapter of AISES and is currently the Canadian Senior National Student Representative.

**William Tiger**

*Miccosukee Tribe*

**Retired GM Plant Manager & Co-Founder of GM's Native American Cultural Network**

**General Motors Lockport Operations**

William obtained a BME from General Motors Institute and MSE from Rensselaer Polytechnic Institute. He advanced from project engineer, to assembly superintendent, Engineering Manager, and Assistant Plant Manager working at five plants in the U.S. and Canada. In

2010, he became Plant Manager at the Baltimore Operations where in 2013 GM became the first Automaker to manufacture electric motors for EVs. In 2015 he transferred to the Lockport New York plant. William help found GM's Native American Cultural Network. He is an AISES Sequoyah Fellow, and serves on boards for the Regional Manufacturing Institute, Baltimore County Chamber of Commerce, and United Way of Central Maryland. Most recently William served on the Board of Directors for Indigo and the United Way of Greater Niagara, as well as joining the Board of the Smithsonian's National Museum of the American Indian. In 2019, he was elected to the AISES board of directors.

**Dr. Dennis Todey**

**Regional Director**

**USDA Midwest Climate Hub**

Dennis Todey is the Director of the Midwest Climate Hub (MCH) in Ames, Iowa. He is a native Iowan with a BS and PhD from Iowa State in Meteorology and Agricultural Meteorology. He has spent two stints in South Dakota, first completing his MS at the South Dakota School of Mines and Technology and most recently as an Associate Professor and State Climatologist for South Dakota at South Dakota State University. He is well known regionally as a speaker and media source on various climate issues and is the former president of the American Association of State Climatologists. As the South Dakota State Climatologist and now as Director of the MCH, he has helped to coordinate and develop regional climate services with a variety of federal, state and university partners, creating usable information for decision-making at a variety of time scales. He is helping lead development of information on the impacts of climate change on agriculture in the region and helping agriculture adapt to a changing climate. He was a co-author of the recently released National Climate Assessment Midwest Chapter.

**Alex Tsosie**

*Navajo Nation*

**Sr. Environmental Health and Safety Specialist**

**Boeing Company**

A member of the Navajo Nation, Alex is of the Tábaqáhá (Water Edge Clan), born for the Táchii'níi (Red-Running-Into-The-Water Clan). Kinyaa'áanii (Towering House People) are his maternal grandfather's clan and Ma'íi Deeshgiizhinii (Coyote Pass People) is his paternal grandfather's clan. He is a Senior Environment Health and Safety Specialist at The Boeing Company in Renton Wash., President of the Boeing Native American Network, President and co-founder of the Puget Sound American Indian Science and Engineering Society (AISES) Professional Chapter, AISES Sequoyah Fellow, an AISES Professional member, and the American Society of Safety Professionals (ASSP). Alex is a graduate of Northern Arizona University with a BS in Mechanical Engineering. He holds a Certification from the University Southern California in Occupational Health and Safety Management. He also worked 8 years as an Engineer in Aerospace and Mining, 20 years as a Safety Professional in Mining, Semiconductor, Oil and Gas, and Wind Energy. He is the Vice President serving on the Puyallup School District Parent Advisory Committee. Alex enjoys coaching, golfing, and camping.

**Bernadette Tsosie**

*Navajo Nation*

**Site Manager**

**U.S. Department of Energy**

Bernadette Tsosie has 28 years of experience with the federal government and various tribes on ground/surface water issues. She received bachelor and master degrees in Geology from the New Mexico Institute of Mining and Technology. She serves as a Site Manager for the U.S. Department of Energy's Office of Legacy sites located in Wyoming and New Mexico.

**Krystal Tsosie**

*Navajo Nation*

**Doctoral Researcher / Tribal College Instructor**

**Vanderbilt University**

Krystal Tsosie (Diné), MPH, MA, is currently completing a PhD in Genomics and Health Disparities at Vanderbilt University in Nashville, Tennessee. She co-leads the Genetics and Preeclampsia Study within the Turtle Mountain Band of Chippewa Indian Nation in Belcourt, North Dakota where she studies genetic determinants of women's health while also advancing equitable genomics research in Indigenous communities.

**Jana Vanderah**

**Market Relationship Manager**

**Wells Fargo Bank**

Jana Vanderah is a Market Relationship Manager for Wells Fargo's Education Financial Services (EFS) division in the Midwest. She has spent her entire 30 year career in higher education financing, including the past 23 years with EFS. Jana is passionate about helping families navigate the college financial aid process and complete their education with as little student loan debt as possible. With three children of her own, Jana is always researching scholarship options and ways to make college more affordable.

**Dr. Iris Wagstaff**

*Lumbee Tribe*

**STEM Program Director**

**American Association for the Advancement of Science**

Iris R. Wagstaff, PhD is a scientist, educator, mentor, researcher and STEM advocate. She currently serves as a STEM Program Director in the Diversity, Equity, and Inclusion Department of AAAS where she manages programs at the undergraduate, graduate, and postdoctoral levels focused on broadening participation in STEM and workforce development. She is a native of Goldsboro, NC with a BS and MS in Chemistry from UNC-Greensboro and NC A&T State Universities respectively; and a PhD in Science Education from North Carolina State University. She worked as a research chemist at the Dow Chemical Company for 15 years where she led analytical project teams and company-wide diversity initiatives. She has over 20 years of STEM outreach and advocacy developing informal science programs, mentoring, resourcing parents, coaching K-12 science teachers, and building strategic partnerships between industry, academia, and community organizations. She serves on the Board of several organizations that include NOBCCHE, ACS, and Science, Engineering, and Math Links (SEM). She has received several honors that include the 2017 Women of Color in STEM K-12 Promotion



of Education Award, the 2018 NOBCCHE Presidential Award for Mentoring, and the 2019 BEYA Science Trailblazer Award.

**John Weis**

**Education Specialist**

**NASA Educator Professional Development Collaborative**

John Weis has been an Education Specialist with NASA for the last 14 years. He is currently stationed at the Marshall Space Flight Center in Huntsville, Alabama. In addition to providing online professional development for educators, John is responsible for educational outreach including professional development for pre-service and in-service teachers, community programs and liaising with state and local education agencies in the Marshall region of Iowa, Missouri, Arkansas, Alabama and Tennessee. John earned a BS in Science and Mathematics Teaching with an emphasis in Mathematics and Physics from Florida State University and an MS in Curriculum and Instruction from the University of Scranton. Before joining NASA education, he spent 10 years as a secondary science teacher in Volusia County, Florida. His areas of specialization include Mathematics, Physics, Earth/Space Science, and Astronomy.

**Stephen West**

*Cherokee*

**Engineering Technical Specialist**

**Boeing Company**

Stephen West is an Engineering Technical Specialist with 30 years experience in Design Engineering with a BS in Drafting and Design. Professional strengths include 3D design related investigations, engineering resolution, and interpretation, problem solving, change management, and a high level of proficiency in GD&T, Boeing design standards. Director of Communication for BRG "BNAN-SC" (3 years) and now the current President; promoting diversity and inclusion for all Boeing teammates, and supporting STEM events and the DreamLearners program to the local tribe through BNAN-SC. Personal traits include commitment to customer service; a results-driven individual that is resourceful, and ability to build and maintain positive cross functional partnerships to achieve desired results.

**Montoya Whiteman**

*Cheyenne and Arapaho*

**Director of Marketing, Communications, and Individual Giving**

**American Indian Science and Engineering Society**

Montoya Whiteman is the Director of Marketing, Communications and Individual Giving at AISES. She leads the AISES team that is responsible for developing communications strategies for broad impact in STEM education and workforce development. Strategies include oversight of the *Winds of Change* Magazine, web marketing, social media, outreach, conferences, and partnerships with organizations. For 10 years, she was a senior program officer working with nonprofits, tribes, and tribal leaders in policy development, organizational management, and business development. She completed her BS in Business Administration at Regis University in Denver, Colorado. She is a lifetime Sequoyah Fellow.

**Sandra Whitney**

**Digital Systems Lead**

**3M Company**

Sandra Whitney is a Digital Systems Lead in the Corporate Research Systems Lab for 3M in Maplewood, Minnesota. Before her current role, Sandra was an IT Director in multiple industries including financial services and healthcare. Sandra has a Lean Six Sigma Master Black Belt. Sandra was raised in Milwaukee, Wisconsin and has a bachelor's degree in Business Administration and a master's degree in Information Technology.

**Kiera Wideman**

**Student**

**University of Maryland**

Kiera Wideman is a rising junior who is studying Cyber Security at the University of Maryland. After considering accounting, finance and international business, Kiera chose the STEM cyber security field of study for her future career and currently maintains a 3.65 GPA. Kiera has always had a deep passion for mathematics, science, and technology and excelled in these subjects in school. Electronics have played a very important role in her life, which has always inspired her to learn about how they operate. After completing her sophomore year of college, Kiera had the opportunity to work with a team of cyber security specialists performing penetration testing as an intern. Here she acquired various skills that enhanced her understanding of the field. She also obtained a good understanding of networking technologies and fundamentals of operating systems; and was introduced to fundamentals of penetration testing tools, web application testing and network vulnerability assessments. Kiera has a deep passion for STEM and believes in closing the gender gap and disparity of women in the field by empowering the next generation of female innovators.

**Beau Williams**

**IT Manager**

**Boeing Company**

Beau started working for The Boeing Company in 1997. He has held various positions in The Boeing Company's IT operations environment, most recently as manager of the Change & Release Management group where he is responsible for changes being released into production environments. As a volunteer, Beau actively supports diversity initiatives that are primarily focused in the Native American and the LGBT communities, and most recently supporting the Northwest Indian College. He is a lifetime AISES Sequoyah Fellow.

**Dr. Craig Wilson**

**Director USDA Future Scientists Program**

**USDA/ARS and Texas A&M University**

Dr. Wilson was born in Carrickfergus, Northern Ireland, but grew up in England and attended Oxford University. He met his Texan wife in Iceland and they had their three children in Botswana, Africa where he was Head of Science in the tribal village of Serowe as part of The University of Botswana. He has also owned and operated a chicken farm with his wife and they restore old homes. He climbed Mt. Kilimanjaro (Tanzania), the highest mountain in Africa with their oldest daughter, having climbed The Matterhorn (Switzerland), one of the highest mountains in The Alps when in college. His office is at the USDA/Agricultural Research Service (ARS) building in College



Station, Texas alongside which he has been created a Monarch Waystation (butterfly garden), pond and 'pocket prairie' where students are able to spend a day working on science activities. He has taught for over 45 years on three continents in situations ranging from beneath a huge thorn tree on the edge of the Kalahari Desert (Botswana, Africa) to experimenting with weightlessness on NASA's KC-135 (Houston, Texas). His research interests are in hands-on, inquiry-based science teaching, and in how to most successfully to link science teachers with research scientists.

**Dr. David Wilson**

*Navajo Nation*

**Director**

**Tribal Health Research Office**

David R. Wilson, PhD, was appointed as the first Director of the Tribal Health Research Office (THRO) in January 2017. In this leadership role, Dr. Wilson brings together representatives from the NIH ICs to leverage trans-NIH resources and build collaborations through the research portfolio to address tribal health concerns. He works to build a unified NIH presence to engage and ensure input from tribal leaders across the nation, and aims to expand training opportunities for American Indians and Alaska Natives. Dr. Wilson comes to the NIH Office of the Director from the DHHS Office of Minority Health where he served as Public Health Advisor and American Indian/Alaska Native Policy Lead. Dr. Wilson graduated with a PhD in molecular and cellular biology from Arizona State University. His commitment to encouraging underrepresented minorities to pursue scientific careers began as a graduate student and Regent's scholar working with high school and community college students in the Four Corners area. Dr. Wilson completed a three-year postdoc, and served as a senior research scientist at the National Institute on Aging. He also serves as an adjunct professor at the Johns Hopkins School of Public Health at the Center for American Indian Health.

**Russel Witt**

**Director Central Determination Gaming**

**Incredible Technology**

Russell serves as the Director of Central Determinate Gaming for Incredible Technologies. In this role, Russell is responsible for

leading the strategic development, implementation and market development and growth initiatives for Incredible Technologies Class II Gaming System. His primary responsibilities also include identifying business opportunities for Incredible Technologies products in both existing and emerging tribal gaming markets. Russell Witt is one of the industry's leading subject matter experts in Tribal Gaming technology and regulation. Russell is currently serving his third consecutive term as one of the Associate Board members for the National Indian Gaming Association. In this role, he has contributed to the growth of the technical training curriculum for both the Commissioner and Master series training programs and helped to develop the NIGA Class II Immersion Workshop series. Russell served as the Principal Technical Consultant to the National Indian Gaming Commission on the drafting of the Class II Technical Standards. He is one of the industry leaders on Class II Technical Standards and Internal Controls and frequently provides trainings and participates in panel discussions on the subject at Tradeshows and Conferences throughout the country.

**Jennifer Wolf**

*Ponca, Santee Sioux, Ojibwe*

**Culture and Equity Specialist**

**Project Mosaic LLC/Denver Public Schools**

Jennifer is a facilitator, helping several national organizations with evaluation, strategic planning, and training. She also works with Native American students in Denver Public Schools, leading the Native American STEM Institute at Colorado State University, and providing cultural and equity training to educators. With a past career as a chemist for the U.S. Food and Drug Administration, Jennifer uses methodical approaches and best practices to facilitate conversations about race and culture in a respectful and collaborative manner. Jennifer emphasizes the importance of using your own cultural tools and assets to connect with others, and to see conflict and misunderstandings as an opportunity to educate. She believes that Indigenous ways of thinking and analyzing situations can be used to bridge cultural gaps, and that students can have a better educational experience if they are proactive, prepared, and have pride in representing their unique perspectives.



**Danielle Yancey**

*Menominee*

**Director**

**Native American Center for Health Professions**

Danielle Yancey serves as the Native American Center for Health Professions (NACHP) director. She was raised on the Menominee Indian reservation in north-central Wisconsin and is a graduate of the University of Wisconsin-Madison. Her studies include bachelor of arts degrees in social welfare and women's studies, master of science in urban and regional planning, and a graduate certificate in sustainability leadership. Yancey has many years' experience serving tribal communities in pre-college programming, intergovernmental affairs, and community and economic development. She joins the Native American Center for Health Professions from UW Health, where she served as a Career Pathways coordinator supporting health care career exploration for youth and workforce development pathways into health care professions. She looks forward to bringing her experience and background to NACHP.

**Thaddeus Yazzie**

*Navajo Nation*

**Project Engineer**

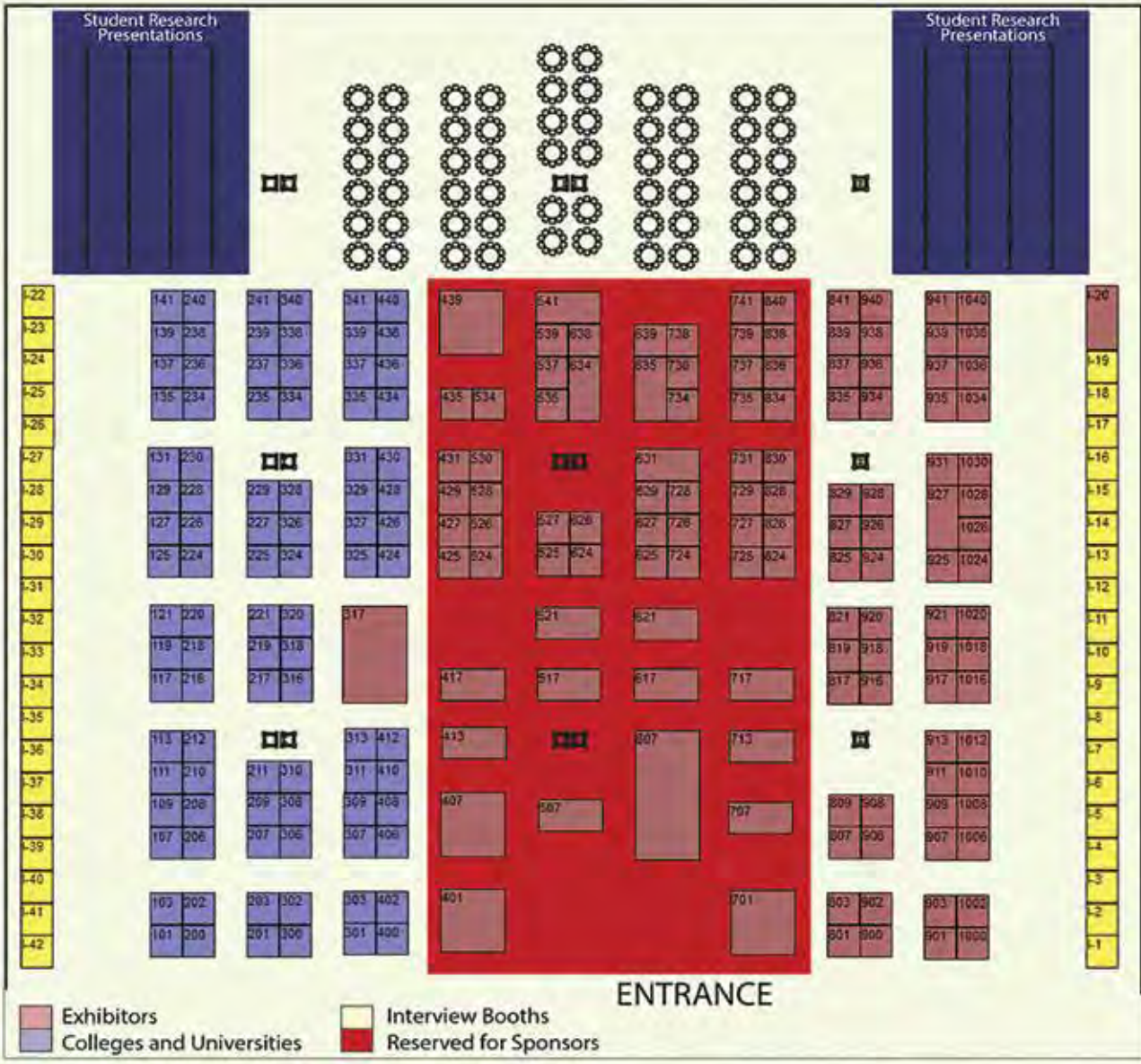
**Souder, Miller & Associates**

Thaddeus is a member of the Navajo Nation. He grew up in Nenahnezad, NM, west of Farmington, NM. Growing up he developed an interest in transportation engineering and began to pursue his dream. Upon graduating from Kirtland Central High School, he began his higher education at San Juan College in Farmington, NM. Graduating in May 2012 top of his engineering class, Thaddeus transferred to the University of New Mexico (UNM). While here he participated in numerous student organizations such as serving as the Secretary of Diné of UNM, vice president of UNM's American Indian Science and Engineering Society, president of UNM's Institute of Transportation Engineers, and as a minority student fellow for the Transportation Research Board. Thaddeus has completed internships with the Public Service Company of New Mexico (PNM) and Souder, Miller & Associates (SMA). After graduating from UNM in December 2014, he began working full time for SMA as an engineer in training (EIT) and is a licensed professional engineer (PE). His many duties include: speed and traffic calming studies, roadway lighting design, design of pedestrian/ADA and bicycle facilities, construction traffic control design, intelligent transportation systems (ITS) design, plan set development, and conceptual/construction cost estimates.





# 2019 AISES NATIONAL CONFERENCE FLOOR PLAN



This list is current at the time of printing.

- ▲ Top 25
- ◆ 10 Organizations Creating Change
- Top 50 Companies
- Top 200 Colleges/Universities



3M	407	●	Alfred P. Sloan Foundation	Sponsor Only
A.T. Still University	229		Amazon	439 ◆
Accenture	527		American Chemical Society	631 ●
Advancing Agricultural Science Opportunities for Native Americans (AASONA)	Sponsor Only		American Indian Graduate Center	1030
Air Force Civilian Service	617	●	American Physical Therapy Association	937
Airbnb	824	◆	AMERIND Risk	734 ●
AISES	625		Ames Laboratory - Iowa State University	826
			AnitaB.org	534



Argonne National Laboratory	839		Fermi National Accelerator Laboratory	830	
Arizona State University	311	■	Fiat Chrysler Automobiles	427	◆
Army Educational Outreach Program (AEOP)	919		Forest County Potawatomi Community	401	▲
Association of American Medical Colleges	901		Fred Hutchinson Cancer Research Center	903	
Association of American Medical Colleges - Summer Health Professions Education Program	817		General Electric Aviation	507	●
AT&T	725	●	General Motors	417	●
Be An Actuary	920		Georgia Tech Research Institute (GTRI)	902	
Berkeley Lab	840		Geoscience Convergence Zone	707	
Binghamton University-SUNY, Thomas J. Watson School of Engineering and Applied Science	337		Gila River Indian Community	Sponsor Only	
BNSF Railway	431	●	Google	Sponsor Only	
Bonneville Power Administration	924	●	Grand Canyon University	230	■
Boston Scientific	530	●	Greenfire Management Services	626	▲
Canadian Indigenous Advisory Council to AISES	627		Harvard T.H. Chan School of Public Health	219	
Carnegie Mellon University College of Engineering	309		Harvard University Native American Program	221	
Carollo Engineers, Inc.	738		Haskell Environmental Research Studies	141	
Cherokee Nation Businesses	935	▲	Higher Education Recruitment Consortium- HERC	909	
Cherokee Nation Human Resources	821	●	IBM	701	●
Chevron Corporation	713	●	Idaho National Laboratory	837	
CIA	Sponsor Only	●	Indian Affairs Division of Energy and Mineral Development	639	
CIRES	Sponsor Only		Indian Health Service - Division of Sanitation Facilities Construction	739	◆
College of Engineering University of Wisconsin-Madison	326	■	Indiana University	334	
College of Menominee Nation	139		Indigenous Education, Inc. Home of the Cobell Scholarship	941	
Colorado School of Mines	440	■	Intel Corporation	607	●
Columbia University in the City of New York	220	■	Intertribal Timber Council	907	
Columbia Vagelos College of Physicians and Surgeons	336		Jack Kent Cooke Foundation	429	
Comcast NBCUniversal	Sponsor Only	●	Johns Hopkins Bloomberg School of Public Health	402	
Cornell Engineering	318	■	Joint Institute for the Study of the Atmosphere and Ocean (JISA0)	238	
Cronkite School	234		Jopwell	1-20	
Dartmouth School of Graduate and Advanced Studies	331	■	Kettering University	200	
Defense Contract Management Agency (DCMA)	939		Koniag Government Services	526	
Department of Energy	834		Langdale Center for Forest Business, University of Georgia	210	
Department of Energy/Legacy Management	927		Lawrence Livermore National Laboratory	838	
Department of Nutritional Sciences	135	■	Leidos	906	
Des Moines University	203		Los Alamos National Laboratory	835	●
Double Rafter	Sponsor Only		Massachusetts Institute of Technology	301	■
DuPont	1000		Mayo Clinic	541	●
Eastern Band of Cherokee Indians	Sponsor Only	▲	McGill University	338	
Elizabeth City State University	211		Medical College of Wisconsin	103	
Emory University, Laney Graduate School	316		MEDTRONIC MITG	735	
ExxonMobil	Sponsor Only	●	Merck & Co.	728	●
Facebook	Sponsor Only	●	Michigan State University	430	■
Federal Bureau of Investigation	827		Microsoft	425	
Federal Highway Administration, Office of Human Resources	925		Morehouse College	424	





NAFOA	825		Peace Corps	1002	
NASA - National Aeronautics and Space Administration	521	●	Pechanga Band of Luiseño Indians	Sponsor Only	
NASA Jet Propulsion Laboratory	926	●	Poarch Band of Creek Indians	Sponsor Only	
NASA STEM Engagement & Educator Professional Development Collaborative	236	■	Procter & Gamble	918	●
NASA Wisconsin Space Grant Consortium	410		Purdue University	434	■
National Academies of Sciences, Engineering, and Medicine	928		Raytheon	807	●
National GEM Consortium	1034		ReFigure	911	
National Grid	435		Robotics Education and Competition Foundation	938	
National Institute of Allergy and Infectious Disease	936		Rochester Institute of Technology	329	
National Institute of Arthritis and Musculoskeletal and Skin Diseases	940		Rocket Mortgage by Quicken Loans	726	
National Institute of Diabetes and Digestive and Kidney Diseases, NIH	917		Rutgers School of Environmental and Biological Sciences	218	■
National Institute of Standards and Technology	803		SACNAS	1036	
National Institutes of Health	737		Salesforce.com	Sponsor Only	
National Institutes of Health/Office of Intramural Training & Education	913		San Diego Gas & Electric	741	◆
National Research Mentoring Network	900		Sandia National Laboratories	524	●
National Science Foundation	801	●	Sanford Research	916	
National Security Agency	517	●	Sealaska Corporation	638	
Native American Center for Health Professions	209		Security Innovation	537	
Natural Resources Conservation Service	634	●	SEH	819	
Navajo Nation Division of Natural Resources	525		Shakopee Mdewakanton Sioux Community	Sponsor Only	
Navajo Transitional Energy Company	539	◆	Sitting Bull College	101	■
NC State University, College of Engineering	307		SLAC National Accelerator Laboratory	1026	
New Mexico Tech	208		SMART Scholarship	809	
NextEra Energy, Inc.	Sponsor Only	●	SNHU College of Engineering, Technology, and Aeronautics	216	■
Nicholas School of the Environment at Duke University	212		Society of American Indian Government Employees	1038	
NIKE	724		Society of Women Engineers	1040	
NOAA	621	●	Southern California Tribal Chairmen's Association	Sponsor Only	
Northeastern University	428		Stanford University	406	■
Northwestern University	325		Stantec	Sponsor Only	
Northwestern University Master of Science in Law	237		State University of New York at Oswego	240	
NREL - National Renewable Energy Laboratory	841		SUNY University at Buffalo School of Engineering and Applied Sciences	412	
NSF I-Corps	Sponsor Only		TC Energy	535	
NYU Tandon School of Engineering	306		The Boeing Company	317	
Oak Ridge National Laboratory	828		The Indian University of North America	335	
Oneida Nation	Sponsor Only		The Ohio State University College of Medicine - Office of Diversity and Inclusion	310	
Oracle	528	●	The United States Secret Service	736	
Oneida ESC Group	829		The University of Idaho College of Graduate Studies	341	■
Oregon Health and Science University	202		Tribal Alliance of Sovereign Indian Nations	Sponsor Only	
Pacific Northwest National Laboratory	836		Tule River Indian Tribe of California	Sponsor Only	
Pala Band of Mission Indians	Sponsor Only		U.S. Department of State	727	
Palmer College of Chiropractic	206		U.S. Environmental Protection Agency	934	◆
Pauma Band of Luiseño Indians	Sponsor Only		U.S. Fish & Wildlife Service	908	
			U.S. Geological Survey	931	



U.S. Intelligence Community	729	University of Michigan School of Information	137
UC San Diego Undergraduate & Graduate Admissions	217	University of Minnesota Patent Law Program	225 ■
UCLA Health	303	University of Missouri	339
UIC Urban Health Program	226	University of Montana	302 ■
United States Military Academy	239	University of North Dakota-INMED	201 ■
United States Pharmacopeia (USP)	731	University of Wisconsin - Stevens Point	327
UNITY, Inc.	1028	University of Wisconsin Law School	324 ■
University at Albany, Graduate School	129	University of Wisconsin-Madison	328 ■
University of Arizona	308 ■	UPS	629
University of Arizona	131	U.S. Army Corps of Engineers	413 ●
University of California, Merced	408	USC Viterbi School of Engineering	228
University of Chicago Biological Sciences Division	241	USDA Agricultural Research Service	635 ●
University of Cincinnati - College of Engineering and Applied Science	300	UW Health and UW School of Medicine and Public Health	Sponsor Only
University of Colorado Denver   Anschutz Medical Campus	400 ■	Virginia Maryland College of Veterinary Medicine	235
University of Illinois at Urbana-Champaign Graduate College	227	Virginia Tech College of Engineering	426
University of Iowa Department of Civil and Environmental Engineering	438 ■	Washington State University Graduate School	340
University of Kansas School of Engineering	320 ■	Wells Fargo	717 ●
University of Maryland A. James Clark School of Engineering	313	Winds of Change	624
University of Michigan Future Public Health Leaders Program	207	Yale School of Forestry & Environmental Studies	436 ■
		Yale University	224 ■

## AISES Circle Partners

The following outstanding organizations are recognized for their commitment to supporting the educational and professional development of American Indians, Alaska Natives, Native Hawaiians, First Nations, and other Indigenous peoples of North American in the STEM fields. AISES' Circle Partners diversify their involvement over at least two national events or programs for three or more years. For more information on how to become a Circle Partner, please contact Kellie Jewett-Fernandez at [kjfernandez@aises.org](mailto:kjfernandez@aises.org).

### Full Circle of Support



### Circle of Support





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**Angelika Silva**  
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**Johnell Lovejoy** (*Flandreau Santee Sioux and Shoshone-Bannock*)  
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Associate Director of Marketing and Communications

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**Amy Norcross**  
Managing Editor

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**Melanie Clark**  
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Plain Depth Consulting

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Graphic Designer  
ver5design

# Indigenizing the Future of STEM





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Diversity Staffing Program Manager  
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