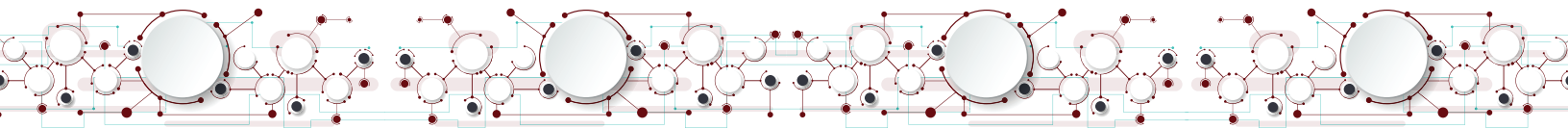
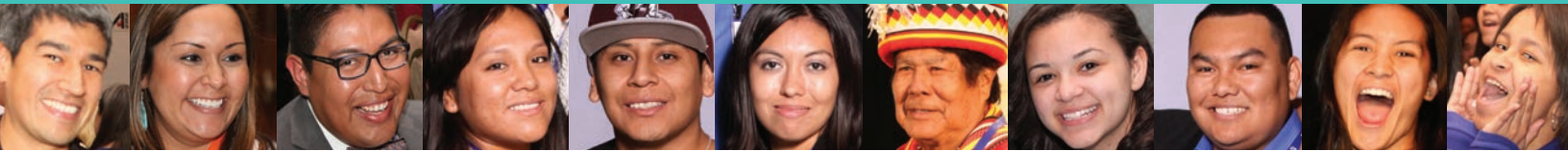




AMERICAN INDIAN SCIENCE  
AND ENGINEERING SOCIETY

TRADITIONAL KNOWLEDGE | NEW IDEAS | A BETTER WORLD



▲ ▲ AISES 2014/2015 ANNUAL REPORT ▲ ▲ ▲



## **Council of Elders**

**Mary Kahn** (Navajo)

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

**Henrietta Mann, Ph.D.** (Southern Cheyenne)

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

**Stan & Cecelia Lucero** (Laguna and Acoma Pueblo)

**Bret Benally Thompson** (White Earth Band of Ojibwe)

**Antoinelle Benally Thompson** (Navajo)

## **2015 Board of Directors**

**Rick Stephens, Chair** (Pala Band of Mission Indians)

**Dr. Twyla Baker-Demaray, Vice-Chair** (Three Affiliated  
Tribes MHA)

**Dr. Jim May, Treasurer** (United Keetowah Band)

**Marlene Watson, Secretary** (Navajo)

**Dr. Mark Bellcourt** (White Earth Ojibwe)

**Dr. Iona Black** (Cherokee)

## **2014 Board of Directors**

**Dr. Melinda McClanahan, Chair** (Choctaw)

**Dr. Twyla Baker-Demaray, Vice-Chair** (Three Affiliated  
Tribes MHA)

**Dr. Jim May, Treasurer** (United Keetowah Band)

**Rick Stephens, Secretary** (Pala Band of Mission Indians)

**Dr. Mark Bellcourt** (White Earth Ojibwe)

**Ki Tecumseh** (Winnebago)

**Barbara Tenorio-Grimes** (San Felipe Pueblo)

## **2014 – 2015 Advisory Council Chairs Corporate Advisory Council**

**Chuck Ross** (Choctaw), Raytheon

## **Government Relations Council**

**Marcellus Proctor** (Piscataway-Conoy), National  
Aeronautics and Space Administration (NASA)

**Noller Herbert** (Navajo), USDA Natural Resources  
Conservation Service (USDA-NRCS)

## **Academic Advisory Committee**

**Dr. Mary Jo Ondrechen** (Mohawk), Northeastern  
University

**Andrea Axtell** (Nez Perce), Emeriti

**Horace Axtell** (Nez Perce), In Memoriam

**Eddie Box Sr.** (Red Ute), In Memoriam

**Franklin Kahn** (Navajo), In Memoriam

**Phil Lane, Sr.** (Yankton Sioux), In Memoriam

**Bow Lane** (Chickasaw), In Memoriam

**Lee Piper, Ph.D.** (Cherokee), In Memoriam

**Paul Kabotie** (Hopi)

**Lisa Lone Fight** (Mandan, Hidatsa, Sahnish)

**Sheila Lopez** (Navajo)

**Crystal Tulley-Cordova, Senior National Student  
Representative** (Navajo)

**Sheridan Evans, Junior National Student  
Representative** (Cherokee)

**Marlene Watson** (Navajo)

**Dr. Iona Black** (Cherokee)

**Paul Kabotie** (Hopi)

**Lisa Lone Fight** (Mandan, Hidatsa, Sahnish)

**Sheila Lopez** (Navajo)

**Ciarra Greene, Senior National Student  
Representative** (Nez Perce)

**Jeffery Ross, Junior National Student  
Representative** (Ojibway)

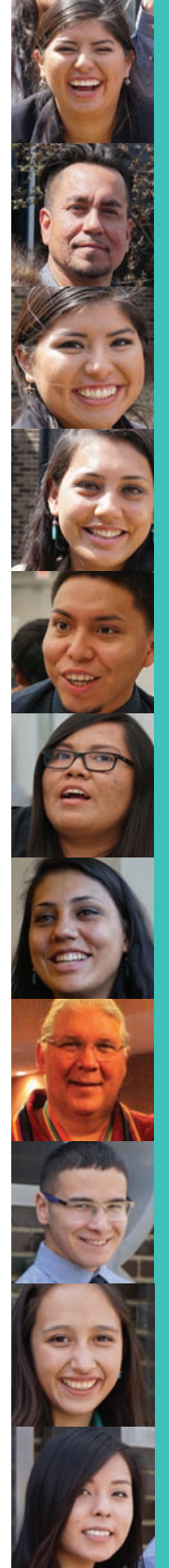
**Laurence Brown** (Navajo), Sandia National Labs

**James Daugomah** (Kiowa), National Oceanic and  
Atmospheric Administration (NOAA)

**Amanda James** (Pyramid Lake Paiute Tribe), Bureau of  
Land Management (BLM)

## **Professional Chapter Council**

**Jonathan Clark** (Apache), Casino Arizona



# TABLE OF CONTENTS

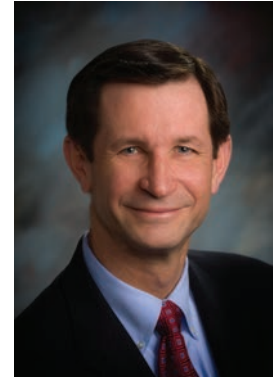
LETTER FROM THE CHAIRMAN	2
WHY STEM FOR NATIVE AMERICANS?	3
THE BUSINESS OF AISES	4
THE STRUCTURE OF AISES	5
AISES BY THE NUMBERS	6
STRATEGIC PARTNERSHIPS, PROJECTS AND RESEARCH	7
ANNUAL NATIONAL CONFERENCE	9
REGIONAL CONFERENCES	10
ANNUAL LEADERSHIP SUMMIT	11
PRE-COLLEGE PROGRAMMING "AWARENESS AND RETENTION"	11
COLLEGE PROGRAMMING "ACCESS AND SUCCESS"	11
PROFESSIONAL PROGRAMMING "LEADERSHIP AND CHANGE"	12
WINDS OF CHANGE MAGAZINE	12
STUDENT REPRESENTATIVES	13
AWARDS, FUNDERS, SCHOLARS, AND INTERNS	14
2014 AND 2015 NATIONAL CONFERENCE SPONSORS	18
2014 – 2015 INDIVIDUAL DONORS	19
SEQUOYAH FELLOWS	20
2014 AISES CIRCLE PARTNERS	27
2015 AISES CIRCLE PARTNERS	28
AISES STAFF	29

## LETTER FROM THE CHAIRMAN



Miyaxwa -

When the American Indian Science and Engineering Society (AISES) was founded 39 years ago by American Indian scientists: Manhattan Project scientist and Mohawk, Arnold Anderson, Al Qöyawayma (Hopi), Carol Gardipe (Penobscot), George Thomas (Cherokee), Jerry Elliott (Cherokee/Osage), Alex Labadie (Osage) and Jim Shorty (Navajo), their intent, passion and commitment was clear...substantially increase representation of indigenous peoples of North America in science, technology, engineering and math (STEM) studies and careers. Over 25,000 individuals have been benefited as members of AISES. Today, AISES is now over 4,000 strong, with 189 college chapters, 15 professional chapters and 158 affiliated schools that enroll more than 55,000 K-12 Native students.



On behalf of the AISES Board of Directors, I am honored to thank you for your commitment of time, energy and resources toward fulfilling not only the vision of our founders, but that same commitment of encouragement, support, and mentorship we each share with Native Americans on their STEM journey.

As you read the AISES annual report, I hope you are as excited as I am about not only accomplishments this past year, but also about the future of AISES. In just 24 short months, Sarah Echohawk and the AISES staff, with support and guidance from the AISES Board and Council of Elders has increased membership by over 30%, established a solid financial footing, and helped AISES regain its rightful leadership role when it comes to supporting Native Americans in STEM.

We are also forever grateful of the individuals, organizations, tribes, universities, companies and government entities that demonstrate their commitment everyday by donating their time, and providing vital resources that enable the programs AISES offers and employment opportunities that so many of our students are able to pursue.

As *Mulu'wetam* (first people) we have a core belief that we are on a journey in this world that enables us to help and guide others as we have been guided by our *Mukat* and those before us.

While the vision remains strong, and the commitments solid, we have much work to do and we invite you to be engaged even more. One of our key objectives over this next year is to strengthen the services and support we provide to our professional members. Whether you pursue an AISES board position, volunteer as a member of an AISES board committee, or as part of the important advisory committees, get engaged. With the new effort to focus on professionals, as a Sequoyah Fellow, as a mentor, or with financial support, please know that your engagement is so appreciated.

TRADITIONAL KNOWLEDGE | NEW IDEAS | A BETTER WORLD

Traditional Knowledge – New Ideas – A Better World – AISES

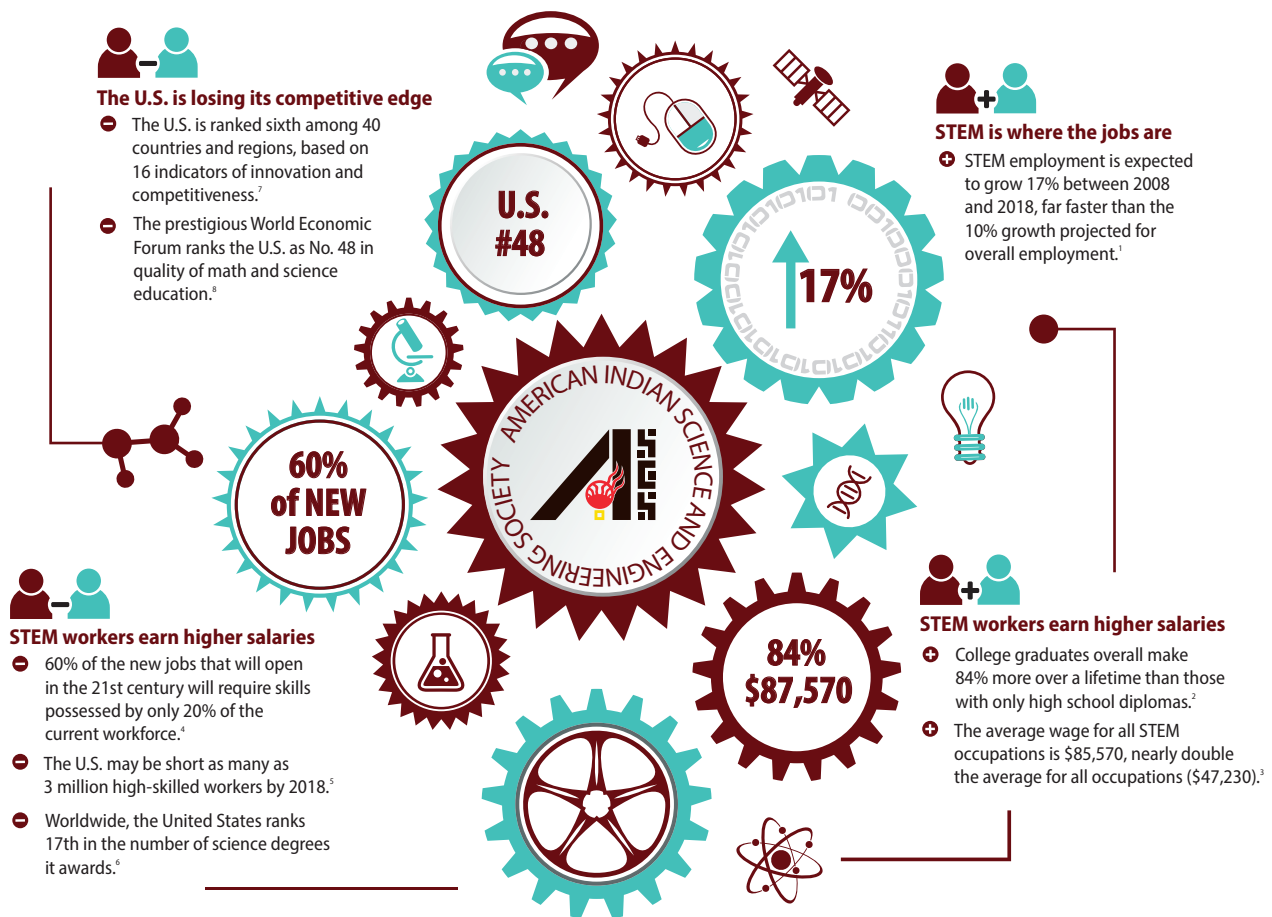
Rick Stephens (Pala Band of Mission Indians)  
Chairman of the Board



# STEM

## Why STEM for Native Americans?

Many individual Native Americans as well as tribal communities are not provided resources for, or access to, STEM (Science, Technology, Engineering, and Math) education. Too often when we address workforce development and economic development for Native Americans, STEM is left out of the conversation and yet 80% of the fastest growing occupations in the United States depend on some mastery of mathematics and scientific knowledge and skills. Native American mastery of STEM is fundamental to proactive management of tribal land and resources and overall economic success and yet all too often the educational pipeline used does not ensure Native American students are academically prepared to successfully undertake STEM studies when they enter college. The AISES mission is focused on closing these gaps.



1 U.S. Department of Commerce Economics and Statistics Administration, 2011  
 2 "What's it Worth? The Economic Value of College Majors" Georgetown University, 2010  
 3 Bureau of Labor Statistics data on occupational employment and wages, 2014  
 4 National Commission on Mathematics and Science for the Twenty-first Century, 2000  
 5 Georgetown University's Center on Education and the Workforce, 2010  
 6 Georgetown University's Center on Education and the Workforce, 2010  
 7 Information Technology and Innovation Foundation, 2009  
 8 World Economic Forum

# THE BUSINESS OF AISES

## Vision, Mission, Values, Strategies, Goals, and Programmatic Focus

### VISION

The vision of the American Indian Science and Engineering Society (AISES) is for the next seven generations of Native people to be successful, respected, influential and contributing members of our vast and ever changing global community.

### MISSION

Founded in 1977, The American Indian Science and Engineering Society (AISES) is a national, nonprofit organization focused on substantially increasing the representation of American Indians, Alaska Natives, Native Hawaiians, Pacific Islanders, First Nations and other indigenous peoples of North America in science, technology, engineering and math (STEM) studies and careers.

### VALUES

Knowledge	Innovation	Relationships	Commitment	Empowerment	Culture
We are committed to the pursuit of knowledge and continuous growth in learning and teaching.	We anticipate and embrace change and strive to learn and improve by trying new approaches and forward thinking solutions.	We actively build and continually steward transparent, honest and ethical relationships with our partners, members and all who are part of our AISES family.	We do what we say we are going to do and conduct our business with the highest standards of professional behavior and ethics.	We embrace the power of our people by encouraging them to take initiative, lead and make decisions.	We honor our ancestors by carrying forward our cultural traditions and values in all that we do.

### STRATEGIES

Advancing Educational and Career Knowledge While Embracing Native Culture and Tradition	Empowering Native People through Relationships and Innovative Resources	Creating and Sustaining the AISES Family through a Full Circle of Support Services
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### GOALS

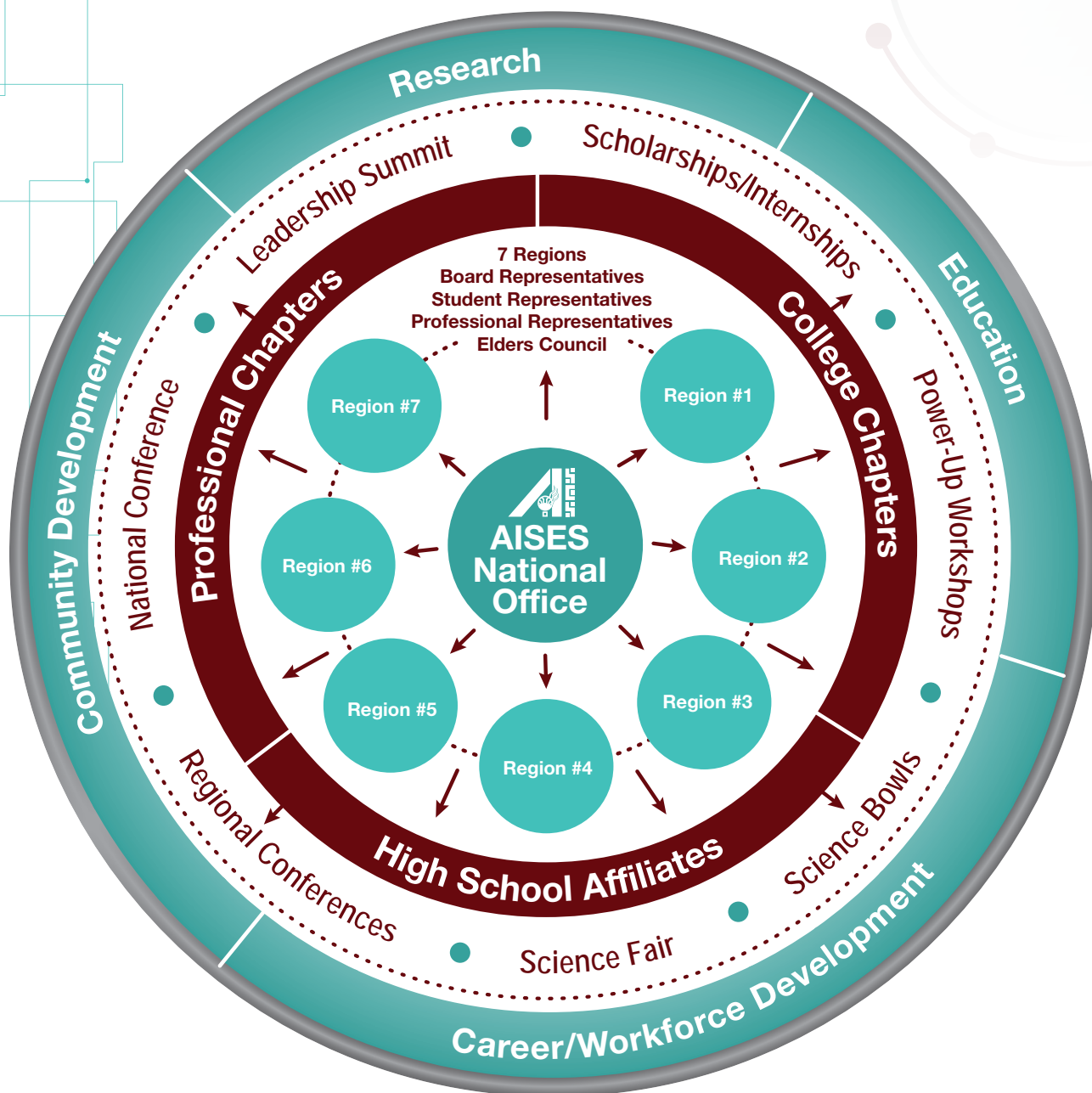
Build Awareness	Foster Partnerships	Provide Support Services	Maintain Effective Organizational Structure
Increase awareness among Native people about STEM educational and career opportunities	Develop and strengthen diverse partnerships with key STEM stakeholders	Design and deliver comprehensive and effective programmatic and financial STEM support services	Support the staff, board, mission and membership through effective infrastructure and systems.

### FOUR PROGRAMMATIC FOCUS AREAS

Pre-College: Awareness & Retention	College: Access & Success	Professional: Leadership & Change	Strategic Partnerships & Research
AISES creates and administers programs and events to provide Native K-12 students and educators exposure to quality curriculum and opportunities to interest and engage them in STEM.	AISES provides opportunities and financial support to Native college students to increase access to and boost success in STEM studies in higher education.	AISES supports a network of Native STEM professionals through professional chapters, awards, career development resources; and research and mentoring opportunities.	AISES identifies and engages in strategic partnerships and conducts research to further our mission of substantially increasing the representation of Natives in STEM studies and careers.

## The Structure of AISES

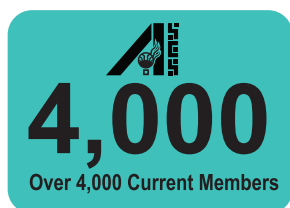
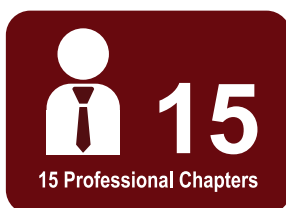
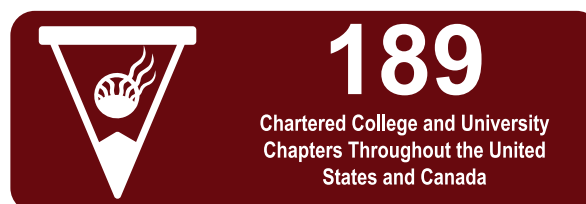
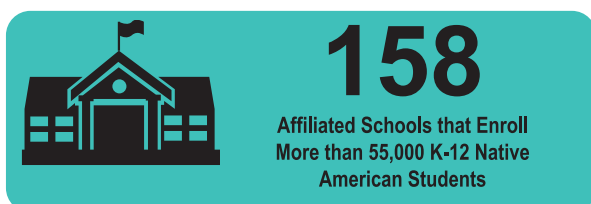
### Organization, Chapters, and Programming



## AISES by the Numbers

### Today

- Over 4,000 Members
- \$10.3 Million in Academic Scholarships to Over 5,000 Students Since Inception
- 15 Professional Chapters
- 189 Chartered College and University Chapters
- 158 Affiliated Schools That Enroll More Than 55,000 K-12 Native Students



### 2015

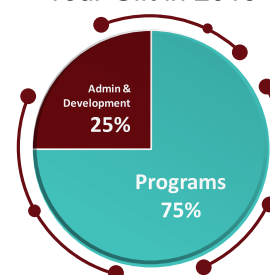
- Membership: 3,727
- Academic and Travel Scholarships and Support: \$589,962
- Annual Revenue: \$3,189,215<sup>1</sup>
- Total Program Support Provided: \$2,465,831<sup>2</sup>

How we spent our funding in 2015<sup>3</sup>:

Administration and Development = 25%

Programmatic Support = 75%

How AISES Used  
Your Gift in 2015



Based on 2015 draft financials not yet audited. Audited financial statements will be available in July 2016.

### 2014

- Membership: 3,289
- Academic and Travel Scholarships and Support: \$391,901
- Annual Revenue: \$2,740,432<sup>4</sup>
- Total Program Support Provided: \$2,072,690<sup>5</sup>

How we spent our funding in 2014<sup>6</sup>:

Administration and Development = 27%

Programmatic Support = 73%

### 2013

- Membership: 2,819
- Academic and Travel Scholarships and Support: \$349,947
- Annual Revenue: \$2,581,298<sup>7</sup>
- Total Program Support Provided: \$1,948,056<sup>8</sup>

How we spent our funding in 2013<sup>9</sup>:

Administration and Development = 31%

Programmatic Support = 69%

<sup>1</sup> 2015 draft financials not yet audited. Audited financial statements will be available in July 2016 at [www.aises.org](http://www.aises.org).

<sup>2</sup> 2015 draft financials not yet audited. Audited financial statements will be available in July 2016 at [www.aises.org](http://www.aises.org).

<sup>3</sup> 2015 draft financials not yet audited. Audited financial statements will be available in July 2016 at [www.aises.org](http://www.aises.org).

<sup>4</sup> 2014 audited financial statements. Available at [www.aises.org](http://www.aises.org).

<sup>5</sup> 2014 audited financial statements. Available at [www.aises.org](http://www.aises.org).

<sup>6</sup> 2014 audited financial statements. Available at [www.aises.org](http://www.aises.org).

<sup>7</sup> 2013 audited financial statements. Available at [www.aises.org](http://www.aises.org).

<sup>8</sup> 2013 audited financial statements. Available at [www.aises.org](http://www.aises.org).

<sup>9</sup> 2013 audited financial statements. Available at [www.aises.org](http://www.aises.org).

## 2014 – 2015 HIGHLIGHTS

### Strategic Partnerships, Projects and Research

In addition to programming for students and professionals, AISES also engages in strategic partnerships, projects and research that support our mission. Here is a small snapshot of just some of those partnerships and programs from 2014 and 2015:



**Comcast/NBC Universal Public Service Announcements (PSAs):** In 2015, the Comcast Foundation awarded AISES support to produce two PSAs to educate the public about the importance of its mission. The Foundation also committed to providing \$1.5 million in airtime in 2016 to air the PSAs. The PSAs are designed to convey how, through our work at AISES, intergenerational traditional Native American cultural knowledge is woven together with new ideas to generate innovative technology, ideas and people that create a better world for everyone. The PSAs will run in multiple markets on multiple channels in early and late 2016 and can also be viewed on the AISES website.



**National Science Foundation (NSF) ASSIST Project:** Funded by the National Science Foundation (NSF) and in partnership with Great Minds in STEM (GMiS), Latinos in Science and Engineering (MAES), National Society of Black Engineers (NSBE), Advancing Chicano/Hispanics & Native Americans in Science (SACNAS), Society of Hispanic Professional Engineers (SHPE), and Society of Women Engineers (SWE), AISES is working to support Native Americans who are early-career faculty, graduate students, and post-doctoral professionals in any field of engineering. The overall focus of the project is to support those who are traditionally underrepresented in engineering fields.



### Department of Energy, Minorities in Energy Initiative:

The Minorities in Energy Initiative addresses the needs of underrepresented communities in the energy sector and is focused on engaging more Americans in energy and science, technology, engineering, and math fields. The Initiative, guided by the U.S. Department of Energy's Office of Economic Impact and Diversity, seeks to create a substantive, sustainable model that connects diverse stakeholders together to address challenges and opportunities for minority engagement in energy economic participation, STEM education, and climate change. The Ambassadors of the Initiative are key leaders in industry, government, academia, and nonprofits who are committed to lending their voices and vision to inform and inspire Americans about the critical need for greater diversity in STEM professions, energy entrepreneurship, and climate change adaptation and mitigation. AISES CEO, Sarah EchoHawk, serves as an Ambassador for the initiative.



U.S. DEPARTMENT OF  
**ENERGY**





**50k Coalition – 50,000 Diverse Engineers by 2025:** AISES, in partnership with the National Society of Black Engineers (NSBE), the Society of Hispanic Professional Engineers (SHPE) and the Society of Women Engineers (SWE), the preeminent engineering professional societies focused on diversity and inclusion, and who collectively serve more than 75,000 pre-collegiate, collegiate and professional members, formed the 50K Coalition. The Coalition is working toward a singular goal: to increase the annual number of engineering bachelor's degrees awarded to underrepresented minorities and women from 30,000 to 50,000 by 2025 – a 66 percent increase. The Coalition intends to achieve this goal by collecting and monitoring plans generated by Coalition partners to achieve this strategic goal and by measuring, monitoring and reporting on key indicators, including the number of women and underrepresented minorities qualified to enter the engineering pipeline and the number earning engineering degrees. The 50K Coalition was created in 2015 and will continue its work to 2025.



**National Science Foundation (NSF) REESE Project:** This project is an empirical research study using a resiliency-based framework to investigate the factors that contribute to American Indian and Alaska Native (AI-AN) success and achievement in STEM education and careers. The focus is on what makes people successful rather than what makes them fail. It was developed through a partnership between the American Indian Science and Engineering Society (AISES), the Office for Community Health (OCH) at the University of New Mexico (UNM), and Northwestern University. The aim of this research is to identify the role of culture, individual identity, epistemology and bi-cultural efficacy in this process. This information is particularly salient in the face of the continuing stagnation of AI-AN STEM graduation rates and the ongoing need for expansion and equity in the STEM pipeline that has been identified as a national priority. The project utilizes AISES historical American Indian STEM data collected over its almost 40 year existence and will be completed in 2016 at which time AISES will begin the process of creating a database to house the data and make it available to key stakeholders.



# ANNUAL NATIONAL CONFERENCE

The Annual AISES National Conference is a one-of-kind, three-day event focusing on educational, professional and workforce development. Attendees include American Indian high school and college students, educators, professionals; tribal nations, tribal enterprises, universities, corporations, and government agencies. The AISES National conference has become the premier event for American Indian Science, Technology, Engineering and Math (STEM) students and professionals attracting over 1,800 attendees from across the country.

## Highlights Include:

- Amazing Keynote Speakers – Speakers in 2014 and 2015: PGA Golfer, Notah Begay III (Navajo and San Felipe Pueblo), NASA Astronaut, John Herrington (Chickasaw), and Olympic Gold Medal Winner, Billy Mills (Lakota)
- The Largest American Indian Career & Education Expo with over 180 Exhibitors
- Sessions Designed for Students and Professionals Covering Topics and Providing Resources and Information Pertaining to Educational and Career Access and Development in STEM Fields
- Student Research Competitions for High School, College and Graduate Students
- Interactive Tours of Colleges, Universities and Industry Partner Facilities – 2014 and 2015 Tours Included NASA, GM at Epcot, Boeing, and Intel.
- STEM Activity Day with Interactive, Hands-On Sessions, Events and Activities for Middle School, High School and College Students
- Professional Opportunities Expo for AISES Professional Members
- Grand Awards Banquet on the Closing Night with over 1,500 Attendees
- Native American Pow Wow and American Indian Products Marketplace



The 2014 National Conference was held in Orlando, Florida, and the 2015 National Conference was held in Phoenix, Arizona. In 2016, the National Conference will take place in Minneapolis, Minnesota, where we anticipate 2,000 participants! The 2015 National Conference had a 51% increase in professional participation, a 15% increase in college students, a 93% percent increase in high school participation and a 30% increase in overall participation compared to 2014.

## **2015 National Conference Registration Numbers:**

Professionals 278  
College Students 587  
High School Students & Chaperones 267  
Educators & Judges 76  
Exhibitors/Sponsors 562  
Speakers 41  
Other 4  
**Total 1,815**

## **2014 National Conference Registration Numbers:**

Professionals 184  
College Students 509  
High School Students & Chaperones 138  
Educators & Judges 61  
Exhibitors/Sponsors 438  
Speakers 58  
Other 3  
**Total 1,391**



# REGIONAL CONFERENCES

AISES' Regional Conferences take place every spring and provide an opportunity for AISES College and Professional Chapters to gather and share information, form partnerships, and to network with each other and with selected presenters and partners. Each regional conference has a number of informative sessions and activities for both college and high school students. Among the activities provided are mini career fairs, poster presentations, and engineering competitions. Generally, each Regional Conference host develops a theme or focus area for the Regional Conference (environmental, bridging native cultures with science, etc.). Local and national professionals within a variety of fields provide workshops, seminars, and discussion groups about a wide variety of topics.

AISES' student representatives and the host chapters for the following year are selected during the regional conferences. Chapters interested in hosting the regional conference indicate their interest in hosting and make a presentation regarding their resources, planning, and ability to host the conference. Each college chapter in "Good Standing" is allowed one vote; the majority of votes determines the location of the regional conference.

## *2015 Regional Conferences*

- Region 1- University of Utah, Salt Lake City, UT (shared region 1 & 3)
- Region 2- Stanford University, Palo Alto, CA
- Region 3- University of Utah, Salt Lake City, UT
- Region 4- Northeastern State University, Tahlequah, OK
- Region 5- South Dakota School of Mines, Rapid City, SD
- Region 6- Cornell University, Ithaca, NY

## *2014 Regional Conferences*

- Region 1- Montana Tech University, Butte, MT
- Region 2- University of Hawaii at Manoa, Honolulu, HI
- Region 3- Ft. Lewis College, Durango, CO
- Region 4- University of Oklahoma, Norman, OK
- Region 5- University of Minnesota-Twin Cities, Minneapolis, MN
- Region 7- North Carolina State University, Raleigh, NC



# ANNUAL LEADERSHIP SUMMIT

**2014 & 2015 Location: Santa Ana Pueblo in New Mexico**  
**(2016 Location: IBM and the Mayo Clinic in Rochester, MN)**

**Number of Participants in Each Summit: 200**

The major focus of the annual Leadership Summit is to improve the skills and aptitude levels of AISES members in leadership and career development in order to better prepare them to attain careers in STEM fields. The summit provides Native American college and graduate students as well as professional members with in-depth leadership and professional development workshops and networking opportunities. Multiple sessions engage participants in topics like *Maintaining Your Cultural Identity in STEM*, *Change Management: Managing Personal Change*, and *Bridging Native Tradition within STEM*. The Leadership Summit also offers networking opportunities for early to mid-career level professionals and Native American students in STEM and fosters the matching of professionals with students for mentoring. We know that building peer support networks and providing positive role models, mentors, and career development programs have profound positive effects on Native American college students and professionals in the workforce.



## PRE-COLLEGE PROGRAMMING – AWARENESS & RETENTION

**Number of K-12 Native American Students Directly Served in 2014 - 2015: 2,404**

**Number of High School Affiliate Chapters: 155**

AISES engages in a multitude of programs and events to ensure students are given exposure to quality science, technology, engineering, and math (STEM) programming. These experiences and opportunities support students in discovering, pursuing, and sustaining their interest in STEM as they prepare for their college careers and beyond.

**Specific Programming in 2014 – 2015:**

Virtual Science Fair Competition • Energy Challenge Competition • Power-Up Workshops for Students, Parents and Educators • Science Bowl Competitions • Robotics Programming for Schools • Research and Poster Presentations and Competitions • College Fair

## COLLEGE PROGRAMMING – ACCESS & SUCCESS

**Number of College and Graduate Native American Students Directly Served in 2014 - 2015: 3,114**

**Number of College Chapters: 180**

AISES administers many programs, services and events for college and graduate students that are designed to increase their access to college and support their success during their college and graduate STEM studies to prepare them for career opportunities in STEM fields.

**Specific Programming in 2014 – 2015:**

Scholarship Funding for STEM Majors • Internships in STEM Fields with Corporations and Government Agencies • Fellowships (NSF Lighting the Pathways Program) • Research and Poster Presentations Competitions • Professional Mentorship • College Chapters • Regional Conferences • College and Career Fair



## PROFESSIONAL PROGRAMMING – LEADERSHIP & CHANGE

**Number of Native American Professionals Directly Served in 2014 - 2015: 2,437**

**Number of Professional Chapters: 15**

AISES is dedicated to supporting its professional members in STEM, supporting early, mid and executive professionals in STEM fields through professional development, career opportunities, networking and opportunities to mentor and support students in STEM.

**Specific Programming in 2014 – 2015:**

Mentoring of Students • Scholarship Reviewing and Scoring • Research and Science Fair Judging • Serving as Speakers and Trainers at AISES Events • Corporate Advisory Council • Government Relations Council • Professional Chapter Council • Academic Advisory Council • Professional Development Programming • Career Fair • Professional of Year Awards

## WINDS OF CHANGE MAGAZINE

AISES' Winds of Change is the premier nationally distributed magazine published with a single-minded focus on career and educational advancement for American Indians/Alaska Natives/Native Hawaiians/First Nations, with an emphasis on STEM. Published five times a year by AISES, four print issues and one digital-only issue, Winds of Change print issues are now also available as digital editions. The digital editions offer readers the option of accessing each issue of the magazine online at any time throughout the year.

In 2016, Winds of Change is introducing a new monthly newsletter, Pathways. The Pathways newsletter will provide timely information for continued growth and success in STEM education and careers for Native Americans. Every issue includes in-depth coverage of a career development topic for members, from pre-college to mature professional. Pathways also provides current information from the AISES family on timely topics and upcoming events.

### Highlights include:

- A special College Issue that features the Top 200 Colleges for Native Americans which has come to be viewed as a crucial resource for students, counselors, and college recruiters alike.
- The spring issue each year that includes The Top 50 Workplaces for Native STEM Professionals. This list provides Native students and young professionals who are planning their STEM careers a snapshot of the companies and agencies who make the list.



## Advertising in Winds of Change!

With a print distribution of more than 6,000, and an email distribution that exceeds 12,500 to students, professionals, supporters, universities, and commercial and government businesses, Winds of Change remains unsurpassed in its commitment and ability to reach a broad spectrum of rural and urban American Indians/Alaska Natives/Native Hawaiians/First Nations. Readers anticipate arrival of the magazine for career and educational opportunities, for inspiration and motivation, and for information about and for Native people and their careers.

Winds of Change is also a valuable recruitment tool for corporations, government agencies, tribal and non-tribal businesses, and colleges and universities across the U.S. The editorial focus of this dynamically redesigned magazine honors tradition while exploring topics in STEM fields as well as health, education, business, and culture.

To submit a story or story idea to Winds of Change, please contact Winds of Change Editor, Karen English at [kenglish@pohlyco.com](mailto:kenglish@pohlyco.com) / (617) 872-3395. To advertise, contact Candace McDonough at [cmcdonough@pohlyco.com](mailto:cmcdonough@pohlyco.com) / (617) 969-2137. For advertising materials, contact Gina White at [windsofchange@pohlyco.com](mailto:windsofchange@pohlyco.com) / (781) 479-2346.

# winds OF CHANGE

Expanding Opportunities for Native American Students and Professionals



## AISES STUDENT REPRESENTATIVES

### 2015-2016

Senior National Rep- **Crystal Tulley-Cordova** (Navajo)

Junior National Rep- **Sheridan Evans** (Cherokee)

Region 1- **Jason Slats** (Chevak Native Village)

Region 2- **Raquel Kamalu** (Native Hawaiian)

Region 3- **Nikki Tulley** (Navajo)

Region 4- **Ashleigh McIntosh** (Caddo)

Region 5- **Hannah Balderas** (Three Affiliated Tribes)

Region 6- **Ben Oster** (Mohawk)

Region 7- **Joi Owle** (Eastern Band of Cherokee)

### 2014 - 2015

Senior National Rep- **Jeffrey Ross** (First Nations)

Junior National Rep- **Crystal Tulley-Cordova** (Navajo)

Region 1- **Jennifer Brazeau** (Timiskaming)

Region 2- **Isaiah Sato** (Native Hawaiian)

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Region 6- **Michael Charles** (Navajo)

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Senior National Rep- **Ciarra Greene** (Nez Perce)

Junior National Rep- **Jeffrey Ross** (First Nations)

Region 1- **Jennifer Brazeau** (Timiskaming)

Region 2- **Isaiah Sato** (Native Hawaiian)

Region 3- **Althea Walker** (Gila River, Hopi, Nez Perce)

Region 4- **Sheridan Evans** (Cherokee)

Region 5- **Pearl Walker** (Standing Rock Sioux)

Region 6- **Michael Charles** (Navajo)

Region 7- **Jeremy Evans** (Haliwa-Saponi)



## PROFESSIONAL OF THE YEAR AWARDS

In recognition of the significant contributions American Indians, Alaska Natives, Native Hawaiians, Pacific Islanders, First Nations and other indigenous peoples of North America, have made to the STEM disciplines, AISES conducts the Professional Awards Program. Each year, AISES produces a short video highlighting the accomplishments of each category winner. The videos are shown during the awards banquet at the AISES National Conference where each winner receives an engraved Nambé Silver Eagle award.

### 2015 Award Winners

Overall Professional of the Year Award

**Pat Gwin** (Cherokee) Cherokee Nation of Oklahoma

Executive Excellent Award

**Melvin L. Yawakie** (Pueblo of Zuni), Turtle Island Communications, Inc.

Technical Excellence Award

**Sarah Lauff** (Shawnee) SPAWAR Systems Center Pacific

Most Promising Engineer or Scientist Award

**Franklin Dollar** (Dry Creek Band of Pomo Indians) University of California Irvine

### 2014 Award Winners

Overall Professional of the Year Award

**Dr. Andre Dominic Cropper** (Kalinago Carib), Raytheon

Executive Excellent Award

**Mike Laverdure** (Turtle Mountain Band of Chippewa), DSGW Architects / First American Design Studio

Technical Excellence Award

**Joseph W. Connolly** (Onondaga - Six Nations Reserve of the Grand River), NASA Glenn Research Center

Most Promising Engineer or Scientist Award

**Mitchell Martin** (Cherokee), Raytheon Corporation



## 2013 – 2015 FELLOWS - LIGHTING THE PATHWAY TO FACULTY CAREERS FOR NATIVES IN STEM

*Supported by the National Science Foundation (NSF), the "Pathways" program focus is to increase the representation of Native Americans in STEM faculty positions in higher education through the creation and support of an intergenerational community of undergraduate and graduate students, postdoctoral scholars, and junior and senior faculty members.*

### Cohort One

Angelita Bearquiver	Devin Etcitty	Carrie Joseph	Alexander McGirt	Jesse Peltier
Rene Begay	Amber Eule-Nashoba	Nicole Kenote	Na'ta'ne Miles	Darryl Reano
Rebecca Buckman	Bradley Ganoe	Sandra Kjono	Jocelyn Painter	Biidaaban Reinhardt
Katherine Crocker	Jennifer Graham	Janie Locklear	Keith Parker	Joshua Thomas
Joshua Danny	Ariel Helms	Jacinda Mainord	Anthony Parson	Ranalda Tsosie
Megan Dunn	Kelsea Hosoda	Jack Martin	Mackenzie Pearson	Crystal Tulley-Cordova

### Cohort Two

Chad Auginash	Jesse Gibson	Naomi Lee	Jordan Oshiro	Nizhone Talker
Shanadeen Begay	Ciarra Greene	Rebekah Lester	Ulali Phillip	Scott Tan
Johnny Buck	Candice Guy	Kristen Lycett	Canek Phillips	Henrietta Tsosie
Katrina Claw	Megan Kiedrowski	Phillip Medina IV	Dylan Suvlu	Delbert Willie



## 2015 ENGINEERING TRAVEL FELLOWS

**Supported by: National Science Foundation (NSF) ASSIST Project**

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Grace Bulltail	Nizhoni Chow-Garcia	Thomas Jung		

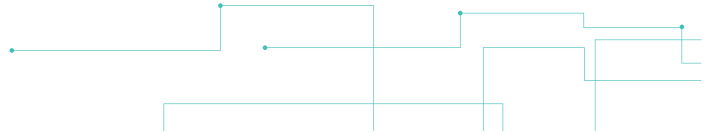




## ELY S. PARKER AWARD WINNERS

The Ely S. Parker Award is the highest honor bestowed by AISES, given in honor of the first recognized American Indian scientist/engineer. Parker made many civil engineering contributions and was a Chief of the Seneca and a Union Army General. The purpose of the award is to recognize those leaders who most clearly embody AISES' mission and goals through their achievements and contributions to science, technology, engineering, and math.

1983	<b>A T (Andy) Anderson</b> , Chemical Engineering (Seneca) - <i>Awarded Posthumously</i>	1998	<b>Dick French</b> , Forestry (Yakama) - <i>Awarded Posthumously</i>
1984	<b>Phil Stevens</b> , Engineering (Oglala Sioux)	1999	<b>Robert Megginson</b> , Ph.D., Mathematics (Lakota)
1985	<b>Mary Ross</b> , Mathematics & Aerospace Engineering (Cherokee)	2000	<b>Jim May, Ph.D.</b> , Engineering/Business/Library Science (Cherokee)
1986	<b>Al Qöyawayma</b> , Mechanical Engineering (Hopi)	2001	<b>Carolyn Elgin</b> , Ed.D., Educator (Choctaw)
1987	<b>Phil Lane Sr.</b> , Civil Engineering (Yankton Sioux)	2002	<b>Dr. Judith Kaur</b> , Medicine (Choctaw/Cherokee)
1988	<b>Tom Dawson</b> , Electrical Engineering (Cherokee)	2003	<b>Carole Gardipe</b> , Geology, (Penobscot)
1988	<b>Don Ridley</b> , Aerospace Engineering (Shoshone)	2004	<b>Jerry Elliott</b> , Physics, (Osage/Cherokee)
1989	<b>Dr. Lois Steele</b> , Medicine (Assiniboine)	2005	<b>George Thomas</b> , Engineering, (Cherokee)
1990	<b>Dr. George Blue Spruce</b> , Dentist (Pueblo)	2007	<b>Governor Joseph Garcia</b> (Ohkay Owingeh)
1992	<b>Fred Begay, Ph.D.</b> , Physics (Navajo)	2008	<b>Norbert S. Hill Jr.</b> (Oneida)
1993	<b>Dr. Taylor MacKenzie</b> , Medicine (Navajo)	2009	<b>Sandra Begay-Campbell</b> (Navajo)
1994	<b>Dwight Gournau</b> , Electrical Engineering & Physics (Chippewa)	2010	<b>Dr. Robert Whitman</b> (Navajo)
1995	<b>Cliff Poodry</b> , Ph.D., Biology (Seneca)	2011	<b>Everett Chavez</b> (Kewa Pueblo)
1996	<b>Fred Cooper</b> , Ph.D., Civil Engineering (Shoalwater Bay)	2012	<b>Dr. Henrietta Mann</b> (Cheyenne)
1997	<b>Jane Mt. Pleasant</b> , Ph.D., Agronomy & Soil Science (Tuscarora)	2013	<b>Bessie Newman Spicer</b> (Navajo)
		2014	<b>Dr. Jason Yunker</b> (Coquille)
		2015	<b>Dr. Bret Benally-Thompson</b> (White Earth Band of Ojibwe)



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The AISES Lifetime Membership program was named in memory of Sequoyah, a member of the Cherokee Nation who perfected the Cherokee alphabet and syllabary in 1821, resulting in the Cherokee Nation becoming literate in less than one year. In this spirit, AISES Sequoyah Fellows are recognized for their commitment to AISES' mission in STEM and to the American Indian community as a whole. They bring honor to AISES by committing to supporting AISES by engaging in lifelong leadership, mentorship, and other acts of service, including making an annual financial contribution, to support the students and professionals in the AISES family.

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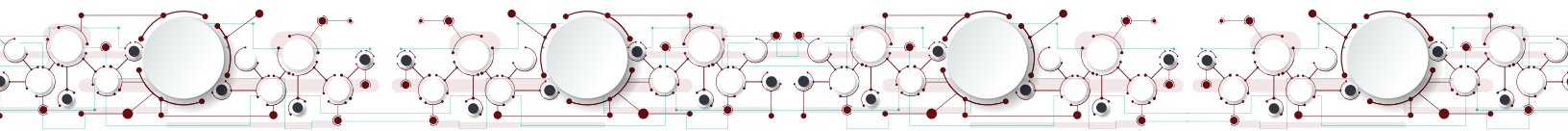
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