



# American Indian Science & Engineering Society



**2008**  
Annual Report





# Greetings from the AISES Board Chair and Chief Executive Officer



## Happy Birthday, American Indian Science & Engineering Society!

Beginning at the National Conference in Phoenix, AZ in 2007 and culminating at the 30<sup>th</sup> AISES National Conference in Anaheim, CA, AISES celebrated our 30<sup>th</sup> birthday. Through a series of events and activities throughout the year, we looked back at the vision of our founders, A.T. Anderson, Al Qöyawayma, Carol Gardipe, George Thomas, Jerry Elliot and Jim Shorty. We engaged our members, and renewed our commitment to supporting and mobilizing a strong family of American Indian and Alaska Native students and professionals. Some highlights include:

- Four special collector's editions of Winds of Change magazine, showcasing AISES members, their stories and successes, collector's cards, and posters.
- John B. Herrington and Dr. Karletta Chief served as our anniversary spokespeople, AISES members who are shining examples of amazing personal achievement and ongoing commitment to the community.
- The AISES website received a make-over, and now features our most precious asset – our members. (If you haven't done so already, we invite you to add your member profile.)
- A successful launch of our Full Circle and Circle of Support partnership programs, with charter members; Lockheed Martin, 3M, and IBM as Full Circle of Support Partners and Google, Inc., NASA, Northrop Grumman, Boeing, Bonneville Power Administration, Intel, General Dynamics, Johnson & Johnson, Raytheon, Chevron, Central Intelligence Agency, and Goldman Sachs as Circle of Support Partners.
- Recognition from the American Chemical Society and the City of Los Angeles for thirty years of achievement in supporting American Indian and Alaska Native STEM professionals.
- The first ever webcast of the 2008 NAISEF awards ceremony from Albuquerque, NM, with more than 350 family members and friends tuning in online to see their children being honored for their research accomplishments.
- The 30th anniversary Honors Banquet, featuring the Founder's video, a special 30-year flash video presentation, and a tribute to Mary Ross, the first American Indian woman engineer. Commemorative 30th Anniversary posters featuring the artwork of AISES founder, Al Qöyawayma.
- Launch of a marketing campaign reaching out to colleges and universities that serve significant populations of American Indian and Alaska Native students.
- Historic levels of tribal support for the AISES National Conference, with the San Manuel Band of Mission Indians as a tribal Turquoise sponsor, and 16.5% overall conference sponsorship coming from tribes.
- The honoring of the AISES membership, including Professionals of the Year (see page 16), and Former AISES Executive Director, Norbert Hill as the AISES Ely S. Parker Awardee – for his fifteen years of service to AISES and his continued leadership in the field of education.

With so many issues challenging our communities and the world, including renewable energy, health care reform, climate change and the economy - a skilled science, engineering and technology workforce is greatly needed. The AISES network – the largest collective representing this country's top talent stands ready to impact the future.

We are proud that AISES at 30 years - is internally strong, meeting the highest standards of non-profits, transparency and accountability, have and continue to be good stewards of your aspirations and resources. We want to thank you, the AISES family of founders, elders, parents, teachers, students, professionals, supporters and friends, for making this year special, and our position strong as we move forward. A special thank you to the board leadership and the staff of AISES for facilitating such an extraordinary year and celebration of accomplishment!

### Happy 30<sup>th</sup> Birthday AISES!



**Dr. Dorothy Pender**  
Chair, AISES Board of Directors

### Wae Wae Nin (thank you),



**Pamala M. Silas**  
Chief Executive Officer

**Anniversary Campaign**

Beginning at the 2007 National Conference in Phoenix, AISES began a yearlong celebration of AISES' 30<sup>th</sup> year Anniversary. The campaign worked to increase public awareness and visibility of AISES and its programs and activities. Additionally, the anniversary campaign highlighted the accomplishments and contributions of AISES and its members as well as the long history of American Indian and Alaska Natives to the world and STEM fields.

*Some highlights of the anniversary campaign include:*

**CELEBRATORY ANNIVERSARY LOGO**



**COLLEGE POSTER**



**A SERIES OF TRADING CARDS IN THE WINDS OF CHANGE MAGAZINE**



**POSTER PIN-UPS OF SPOKESPEOPLE JOHN B. HERRINGTON AND KARLETTA CHIEF, PH.D. DIGITAL 30-YEAR TIMELINE**







### Event and Program Sponsors

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 Yavapai-Prescott Indian Tribe  
 Melvin Yazzie

AISES celebrates historic levels of  
 support from tribes and tribal enterprises  
 in 2008.

### 2008 Sequoyah Leadership Giving Donors - Leadership Gifts of \$1,000 or more

Karen Nordquist  
 Agnes Suazo

### Individual Donors

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 Alpha Pi Omega Sorority - University of  
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 William Colston  
 Computer Literate, LLC  
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 Doris M. Cook  
 In Memory of Maria & Vincent Coppola  
 Desiree Cornelius  
 Amber Cornish  
 Christopher J. Coulson & Susan Grant  
 Jesse Courville  
 Cara Cowen Watts  
 Christopher Crazy Bull  
 Terry Cross  
 Warlance Cruz  
 Theron A. Daniels  
 Linda Dawson  
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 James Klein  
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 Patricia Lancaster  
 Tami LaPlante  
 Dean Lawrence  
 Edwin F. Lebryk  
 Joseph Lee  
 Judah Levine  
 Charles & Mary Liebman  
 Michael Liu  
 Stella Liu  
 John Lothrop  
 Elizabeth Lowery  
 Joseph Lucero  
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 Christopher Manydeeds  
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# AISES Pre-College Programs

The AISES K-12 Affiliate School program is designed to engage Native American and Alaska Native students early in the fields of mathematics, science, engineering, and technology. The K-12 Affiliate School Program is open to all K-12 schools serving Native American and Alaska Native students. In 2008, 173 K-12 schools and educational organizations participated in the AISES K-12 Affiliated School program, serving more than 50,000 native students.

## **Region 1: Alaska, Canada, Idaho, Montana, Oregon, Washington, Wyoming**

Barrow High School  
Box Elder High School  
Browning High School  
Cruikshank School  
Federal Way Public Schools  
Fort Washakee Charter High School  
Fort Yukon School  
Hardd Kaveolook School  
Hardin High School  
Kali School  
Meade River School  
Omak High School  
Rocky Boy High School  
St. Labre Catholic School  
Takotna Community School  
Tikigoq School  
Trapper School  
Tulalip Heritage High School

## **Region 2: California, Hawaii, Nevada**

Edison High School  
Franklin High School  
Home Street Middle School  
Orange County High School of the Arts-Native American Club  
Owyhee Combined School  
Sherman Indian School

## **Region 3: Arizona, Colorado, New Mexico, Utah**

Albuquerque Institute for Mathematics & Science  
Albuquerque Public Schools Indian Education Department  
Bernalillo High School  
Bernalillo Middle School  
Cochiti School  
Eisenhower Middle School  
Gila Crossing Community School  
Holbrook High School  
Hopi Jr/Sr High School  
Isleta Elementary School  
Kirtland Elementary  
Laguna-Acoma High School  
Lukachukai Community School  
McCormick Elementary  
Mescalero Apache School  
Native American Community Academy  
Navajo Mountain High School  
Navajo Preparatory  
Northwest High School  
Paonia High School  
Piedra Vista High School  
Red Valley/Cove High School  
Rio Rancho Mid High  
Rough Rock High School  
Sacaton Middle School  
Santa Clara Day School  
Santo Domingo Middle School  
Santo Domingo School  
Shiprock High School  
Skyline Technical High School  
St. Anthony Indian School  
St. Bonaventure School  
Susie Rayos Marmon Elementary  
Taos Day School

Thoreau High School  
Tse Bit ai Middle School  
Whitehorse High School  
Window Rock High School  
Window Rock Unified School District #8  
Wingate High School

## **Region 4: Arkansas, Kansas, Louisiana, Missouri, Oklahoma, Texas**

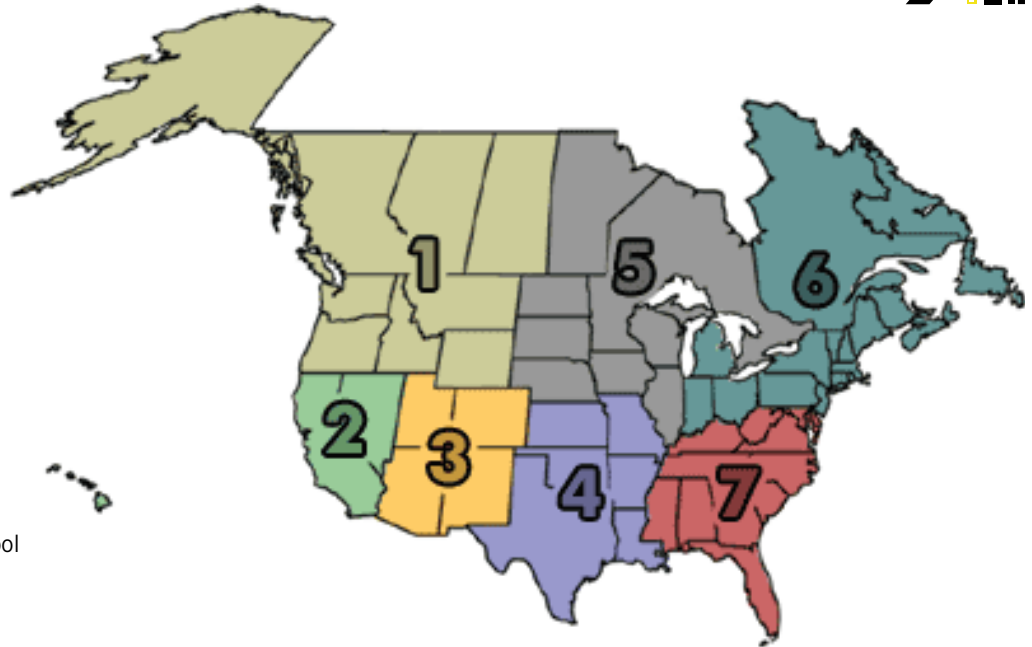
Anadarko Public Schools Indian Education  
Briggs Public School  
Catoosa Public Schools  
Cave Springs Public Schools  
Claremore High School  
Gore Public Schools  
Grove High School  
Jenks Public Schools  
Locust Grove High School  
Miami High School  
Norman Indian Education Program  
Oaks Mission Schools  
Owasso High School  
Sac & Fox Nation  
Sac & Fox Nation - Education Department  
Sand Springs - Charles Page High School  
Sequoyah High School  
Stilwell Middle School  
USD445 Indian Education Program  
Wagoner Public Schools  
Watonga High School  
Westville High School

## **Region 5: Canada, Iowa, Illinois, Upper Michigan, Minnesota, Nebraska, North Dakota, South Dakota, Wisconsin**

Albrook School  
Bayfield High School  
Central High School  
Circle of Life School  
Cloquet High School  
Cloquet Middle School  
Deer River School District 317  
Dept. of Insitute of Atmospheric Sciences at the South Dakota  
School of Mines and Technology  
Dunseith Day School  
Eveleth-Gilbert  
Fargo and West Fargo Public Schools  
Fond du Lac Ojibwe School  
Greenway Indian Education Programs  
Hannahville Indian School  
Holgate Middle School  
Indian Community School of Milwaukee  
Keweenaw Bay Indian Community  
Lac Courte Oreilles Ojibwe School  
Ma-Adoo-2A-Gidz Alternative Education Program  
Madison Metropolitan School District  
Mahnomen Public School  
Menominee Tribal School  
Mesabi East Schools  
Mountain Iron-Buhl School  
Na way ee Center School  
Naytahwaush Community Charter School  
New Town High School  
Nice For College  
Northland Learning Center



Ojibwe Indian School  
 Oneida Nation Elementary  
 Oneida Nation High School  
 Pine Point Public School  
 Pine Ridge High School  
 Simmons Middle School  
 Solen/Cannon Ball Public School  
 South High School  
 St. Ann's Catholic School  
 St. Bernard Mission School  
 St. Louis County Schools  
 Standing Rock Middle School  
 Tate Topa Tribal School  
 Tiospa Zina Tribal School  
 Turtle Mountain Community Middle School  
 Turtle Mountain Elementary School  
 Turtle Mountain High School  
 Twin Buttes Elementary School  
 Whiteshield School



**Region 6: Canada, Connecticut, Indiana, Massachusetts, Maine, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont**

Ahkwesasne Mohawk Science Fair Committee  
 Akwesasne Mohawk AISES Chapter  
 Neptune SR High School

**Region 7: Alabama, Delaware, District of Columbia, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia**

Ahfachkee School  
 Cumberland County Schools- Indian Education Dept.  
 Deep Branch Elementary  
 Early College High  
 Fairgrove Middle  
 Fairmont High  
 Fairmont Middle  
 L. Gilbert Carroll Middle  
 Littlefield Middle  
 Lumberton Junior High  
 Lumberton Senior High  
 Magnolia Elementary  
 Marlboro County High School  
 Orrum Middle  
 Oxendine Elementary  
 Parkton Elementary  
 Pembroke Elementary  
 Pembroke Middle  
 Piney Grove Elementary  
 Prospect Elementary  
 Purnell Swett High  
 Red Springs High  
 Red Springs Middle  
 Rex-Rennert Elementary  
 Rowland Middle  
 South Robeson High  
 Southside/Ashpole Elementary  
 St. Pauls Elementary  
 St. Pauls High  
 St. Pauls Middle  
 Townsend Middle  
 Union Chapel Elementary  
 Union Elementary





2008 NAISEF- Students participating at the 1st annual NAISEF EXPO. Photo by Dagwood Reeves

**National American Indian Science & Engineering Fair**

The National American Indian Science and Engineering Fair (NAISEF) is an AISES Pre-College educational initiative that supports the development of American Indian and Alaska Native students in mathematics, science and engineering. A total of 373 students, reflecting 310 projects, participated in the 2008 National American Indian Science & Engineering Fair (NAISEF), “MISSION: Success,” held March 27-29, 2008 in Albuquerque, New Mexico, at the Albuquerque Convention Center. The participants came from the following 13 states plus two Canadian provinces: Alaska, Arizona, Michigan, Minnesota, Montana, North Carolina, North Dakota, New Mexico, New York, Oklahoma, South Dakota, Washington, and Wisconsin; Ontario and Quebec.

**NAISEF Sponsors**

AISES received sponsorship and donations from the following organizations:

**Sage Sponsors (\$10,000):**

- 3M
- IBM
- Lockheed Martin

**Cedar Sponsors (\$5,000):**

- Intel Corporation

**Additional Sponsors:**

- AVS Science & Technology Society, NM Chapter
- Ethicon Endo-Surgery, Inc. a Johnson and Johnson Company
- Los Alamos National Laboratory

**In-Kind Contributor:**

- Raytheon MathMovesU

**“The kids we brought with us had a very empowering experience and are very excited about next year’s science fair.”**  
**– April Walker, parent**







2008 NAISEF- Grand Award judges interviewing NAISEF participant.  
Photo by Ki Tecumseh

## Intel International Science & Engineering Fair (ISEF)

The 2008 Intel ISEF was held May 11-16, 2008 in Atlanta, Georgia. Eight students selected as Grand Award Finalists at the National American Indian Science and Engineering Fair (NAISEF) represented AISES and competed with over 1,550 young scientists representing 51 countries, regions and territories from across the world.

### The NAISEF Grand Award Finalists who attended Intel ISEF were:

#### Courtney Jackson (Ojibwe)

Grade 9, Cloquet Senior High School, Cloquet, Minnesota  
Project: Mapping Venus: The Use of Magellan Radar Data to Determine the Overall Geologic History of a Circular Low on Venus, How the Area Varies in Space and Time as Well as if the Landform Formed in an Endogenetic or Exogenetic Fashion

#### Carter Londagin (Cherokee)

Grade 10, Grove High School, Grove, Oklahoma  
Project: Are Marine Biodegradable Thermoplastic Polyurethanes Safe? As Measured by Artemia Salina Toxicity & Lytechinus Variegatus Embryo Development

#### Sa'Shawna Lone (Ojibwe)

Grade 11, Fond du Lac Ojibwe School, Cloquet, Minnesota  
Project: A Comparison of DNA in the Family Oryza to Zizania

#### Monica Lovato (Santo Domingo Pueblo)

Grade 12, Bernalillo High School, Bernalillo, New Mexico  
Project: Sounds of Light, Phase II

#### Katie Nix (Cherokee)

Grade 11, Grove High School, Grove, Oklahoma  
Project: Visual Adaptation to Low Light Levels: A Study of the Factors that Affect the Rate of Adaption

#### Nicholas Rajen (Navajo)

Grade 9, Albuquerque Institute of Mathematics and Science, Albuquerque, New Mexico  
Project: Special Relativity: Length Contraction, Time Dilation, and Mass Increase for a Moving Body

#### Lindsay Stewart (Cherokee)

Grade 12, Grove High School, Grove, Oklahoma  
Project: Kudzu: A Cellulosic Source for Ethanol? Glucose Levels of Pueraria Lobata Plant Parts as Measured Through Enzyme Hydrolysis and DNS Glucose Assay

#### Benjamin Yawakie (Ojibwe & Zuni Pueblo)

Grade 12, Breck School, Minneapolis, Minnesota  
Project: The Effect of Temperature on Chlorophyll

### Two of our eight NAISEF Finalists were awarded in their categories:

#### Katie Nix

4<sup>th</sup> Place - \$500  
Category: Medicine & Health

#### Lindsay Stewart

4<sup>th</sup> Place - \$500  
Category: Energy and Transportation

### The following students who represented NAISEF at Intel ISEF received the following Government and Special Awards:

#### Courtney Jackson

U.S. Air Force Award - Second Award of \$1,500 and Medallion;  
and Society of Exploration Geophysicists - Award of Merit of \$500

#### Lindsay Stewart

Ashtavadhani Vidwan Ambati Sabbaraya Chetty (AVASC) Foundation  
- Second Award of \$500 U.S. Savings Bond

### AISES Special Award Winners at ISEF

AISES sponsored the AISES Special Award at the Intel International Science & Engineering Fair. This award is presented to the projects that best represent the relationship between science, mathematics, technology and engineering and American Indian/Alaska Native or Native Hawaiian culture. The recipients of the 2008 AISES Special Award were:

#### Rachel M. Lopez

1<sup>st</sup> Place - \$1,000.00  
Grade 10  
Rio Rancho High School, Rio Rancho, New Mexico  
Project Title: Ghosts Nets: Biodegradable or Not? Testing of Agavaceae Fibers, Part II

#### Sa'Shawna Lone

2<sup>nd</sup> Place - \$500  
Grade 11  
Fond Du Lac Ojibwe School, Cloquet, Minnesota  
Project Title: A Comparison of DNA in the Family Oryza to Zizania



2008 ISEF in Atlanta, GA- NAISEF finalists

# AISES Pre-College Programs & Profile



## Teaching Relevant Inquiry-Based Environmental Science (TRIBES II Project) Funded by: Minnesota State Department of Education

The TRIBES project seeks to improve student achievement in science by enhancing teaching strategies and content knowledge of teachers serving American Indian students. TRIBES provides extensive professional development, curriculum content, and mentoring support for teachers of American Indian students; it will help teachers advance their science and technology understanding; and will provide an ongoing support network through AISES and the Science Museum of Minnesota. TRIBES will integrate indigenous and scientific ways of knowing, through an inquiry-based study of ecosystems and related sciences, to support a relevant, culturally responsive, holistic approach to learning. 2008 marked AISES' fifth year of this six-year program which consists of an intensive 10-day summer institute and three academic year workshops. The project serves the Minnesota teachers with a focus on schools on the Red Lake, Leech Lake, and White Earth reservations; and Bemidji area schools. The host facility is the Bemidji State University American Indian Resource Center. Teachers receive 4 graduate credits, a stipend, and classroom supplies to conduct their projects.

## Broader Impact from Graduate Students Transferring Engineering Principles to K-12 Education (BIGSTEP) Funded by: National Science Foundation

The Johns Hopkins University (JHU) based BIGSTEP project is an NSF funded Graduate Fellows in K-12 Education project and works with AISES TRIBES project to fulfill the outreach requirements of the grant. The BIGSTEP fellows are Johns Hopkins Ph.D. students that engage with the TRIBES teachers to develop projects that enhance math and science teaching. Currently, the BIGSTEP fellows are working on the Inventors of the Future project with 50 Bemidji and Bug-O-Nay-Ge-Shig Middle School students and teachers. The students develop their ideas into inventions; build prototypes of the invention; demonstrate the invention; and give a Power Point presentation of their project at the final event. The best projects in each school received iPod nanos for each of the team members; and all received an Inventor of the Future T-Shirt and a participation certificate. Mentors also worked with the students. The Bemidji Middle School winners are shown below with Dwight Gourneau, Project Director.



(Pictured from left) Brandon Speck, Zach Cobenais, Josh Bywyer, and Dwight Gourneau.

### Courtney Jackson Cloquet, Minnesota Fond du lac

My experiences that I have had with AISES are all good ones. Last year was the first year I attended NAISEF and was introduced to the AISES community. I was amazed at how many Native American students were attending this event and was glad to see that I wasn't the only one who had an interest in the science field. But what really astonished me was the amount of support and confidence that AISES gave to all its students. It was really nice to see a group like AISES supporting and pushing young Native American students towards careers in science and engineering. This year I also was invited to the AISES conference in Anaheim California to present my project; since I was a Grand Awards winner last year. There I was introduced to several people who were in my field of study and were representing various colleges. I thought that it was an amazing experience because of all the opportunities that it had to offer; not only for me, but for other students as well. Thanks to AISES, I got to attend the international science fair (ISEF) again this year. There I won two special awards for my project: the Women in Geosciences Award- with a cash prize of \$150 and the American Geological Society-with a cash prize of \$500. From all the support that I have received from AISES, I hope to pursue a career in the Earth Sciences field. Besides doing science fair, I enjoy doing other hobbies such as soccer, horse-back riding, and reading.



2008 National Conference Opening Ceremony- Region 3 Student Rep, Kelly Saganey cheers on her region to victory!

**AISES Chapter Awards**

In 2008, AISES revamped its Stelvio J. Zanin Distinguished Chapter of the Year Program to recognize the diverse strengths and skills present within its college chapters. The new AISES Chapter Awards Program is modeled after the Professional of the Year Awards, with four categories and one overachieving award for overall excellence selected from among the applicants. The new categories chapters compete for are: Fundraising and Marketing, Recruitment and Retention, Outreach and Community Service, and Professional and Chapter Development. In our first year, there were winners in three of the categories. Each category award recipient received \$500 to support their chapter's efforts along with a plaque. The overall Chapter of the Year recipient received an additional \$1,000.

**2008 AISES Chapter Award Winners:**

**Recruitment/Retention Chapter Award**

Northern Arizona University AISES Chapter

**Outreach & Community Service Award**

The Oglala Lakota College AISES Chapter

**Professional & Chapter Development Award**

Stanford University AISES Chapter

**Stelvio J. Zanin Chapter of the Year Award**

Stanford University AISES Chapter



Oglala Lakota College AISES Chapter outreach to St. Ignatius Catholic Church. Courtesy of OLC AISES chapter

**Student Representatives**

AISES college chapters are divided into seven regions, with a Regional Student Representative for each region. Student Representatives communicate with both the National AISES Office, and the national and regional student body. Student Representatives can then evaluate common issues and concerns and make recommendations for ways to improve AISES' service to its members.

**2008 Student Representatives:**

**Region 1:**

Jennifer Johnston (Ojibwa): Whitworth College

**Region 2:**

Juan Zuniga: University of California-Los Angeles and  
Ember Jensen (Cherokee & Osage): California Polytechnic State University

**Region 3:**

Kelly Saganey (Navajo): Northern Arizona University

**Region 4:**

Thomas McKinnon (Peoria): Missouri University of Science & Technology

**Region 5:**

Jenna Parisien (Turtle Mt. Chippewa): University of North Dakota

**Region 6:**

Frank Bartley III (Odawa): University of Michigan and Andrew Wildbill (Cayuse): Michigan State University

**Region 7:**

Roger Locklear (Lumbee): North Carolina State University

**Senior National Student Representative:**

Twyla Baker-Demaray (Mandan-Hidatsa): University of North Dakota

**Junior National Student Representative:**

Amber Finley (Three Affiliated Tribes): University of San Francisco





**Northern Arizona  
AISES Chapter  
chopping wood for  
the elderly.**

Courtesy of NAU  
AISES chapter

AISES chartered college chapters are located at over 170 colleges and universities throughout North America, including Alaska and Canada. AISES' goal is to assist chapters in building and strengthening chapters to meet the AISES Mission and to encourage chapters to increase membership, build on current strengths and develop leadership among chapter members. College chapters allow students to participate in fundraising events, outreach and community service, educational activities, and provide student members with a support network of fellow students as well as a chapter advisor.

AISES College Chapters are divided into seven regions. Each year, regions elect Regional Student Representatives at the Spring Regional Conference. Two National Student Representative are elected by the AISES student members, serve a two-year term, and are non-voting members of the AISES Board of Directors.

**Region 1: Alaska, Canada, Idaho, Montana, Oregon, Washington, Wyoming**

- Blackfeet Community College
- Boise State University
- Carroll College
- Central Washington University
- Central Wyoming College
- Chief Dull Knife College
- Eastern Oregon University
- Everett Community College
- Evergreen State College
- Fort Belknap College
- Fort Peck Community College
- Heritage College
- Idaho State University
- Lewis-Clark State College
- Little Big Horn College
- Montana State University - Billings
- Montana State University - Bozeman
- Montana Tech of the University of Montana
- Northern Montana State University
- Northwest Indian College - Bellingham
- Oregon State University
- Portland State University
- Rocky Mountain College
- Salish Kootenai College
- Stone Child College

- University of Alaska - Anchorage
- University of Alaska - Fairbanks
- University of Alberta
- University of British Columbia
- University of Calgary
- University of Idaho
- University of Montana
- University of Oregon
- University of Washington
- University of Wyoming
- Washington State University
- Western Washington University

**Region 2: California, Hawaii, Nevada**

- California Polytechnic State Univ - Pomona
- California Polytechnic State Univ - San Luis Obispo
- California State University - Chico
- California State University - Long Beach
- California State University - Sacramento
- College of the Redwoods
- Humboldt State University
- Mendocino College
- Palomar College
- Sacramento City College
- San Francisco State University
- San Jose State University

- Santa Clara University
- Stanford University
- University of California - Berkeley
- University of California - Davis
- University of California - Irvine
- University of California - Los Angeles
- University of California - Riverside
- University of California - Santa Barbara
- University of Hawaii - Manoa (Honolulu)
- University of Nevada - Las Vegas

**Region 3: Arizona, Colorado, New Mexico, Utah**

- Arizona State University
- Brigham Young University
- Central New Mexico University
- Colorado College
- Colorado School of Mines
- Colorado State University
- DeVry Institute of Technology - Phoenix
- Dine College - Shiprock
- Dine College - Tsaile
- Eastern New Mexico University
- Fort Lewis College
- Metropolitan State College of Denver
- Navajo Technical College
- New Mexico Highlands University
- New Mexico Institute of Mining & Technology
- New Mexico State University



Northern Arizona University  
 Northern New Mexico Community College  
 Salt Lake Community College  
 San Juan College  
 Southwestern Indian Polytechnic Institute  
 United States Air Force Academy  
 University of Arizona  
 University of Colorado - Boulder  
 University of Colorado - Colorado Springs  
 University of Colorado at Denver  
 University of New Mexico - Albuquerque  
 University of New Mexico - Gallup  
 University of Northern Colorado  
 University of Utah  
 Utah State University  
 Weber State University

**Region 4: Arkansas, Kansas, Louisiana, Missouri, Oklahoma, Texas**

Haskell Indian Nations University  
 Kansas State University  
 Northeastern State University (Okla.)  
 Oklahoma State University  
 Oklahoma State University - Okmulgee  
 Texas A & M University  
 University of Kansas  
 University of Mississippi  
 University of Oklahoma - Norman  
 University of Oklahoma - Oklahoma City, HSC  
 University of Texas - Arlington  
 University of Tulsa  
 Wichita State University

**Region 5: Canada, Iowa, Illinois, Upper Michigan, Minnesota, Nebraska, North Dakota, South Dakota, Wisconsin**

Bemidji State University  
 Black Hills State University  
 Cankdeska Cikana Community College  
 College of the Menominee Nation  
 Concordia College  
 Fond du Lac Tribal and Community College  
 Fort Berthold Community College  
 Iowa State University  
 Lac Courte Oreilles Ojibwa Community College  
 Lakehead University  
 Leech Lake Tribal College  
 Michigan Technological University  
 North Dakota State University  
 Northern Michigan University  
 Oglala Lakota College  
 Sinte Gleska University  
 Sisseton-Wahpeton Community College  
 South Dakota School of Mines & Technology  
 South Dakota State University  
 Southern Illinois University - Carbondale  
 Southern Illinois University - Edwardsville  
 Turtle Mountain Community College  
 University of Illinois Urbana Champaign  
 University of Iowa  
 University of Minnesota - Duluth  
 University of Minnesota - Twin Cities  
 University of Minnesota-Morris  
 University of Nebraska - Omaha  
 University of North Dakota - Grand Forks  
 University of South Dakota

University of Wisconsin - Madison  
 University of Wisconsin - Milwaukee  
 University of Wisconsin - Stevens Point

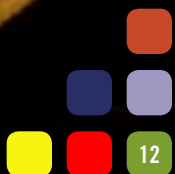
**Region 6: Canada, Connecticut, Indiana, Massachusetts, Maine, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont**

Alfred University  
 Brock University  
 Buffalo State College  
 Clarkson University  
 Clinton Community College  
 Concordia University  
 Cornell University  
 Dartmouth College  
 Harvard University  
 Indiana University/Purdue University-Indianapolis  
 Lansing Community College  
 Massachusetts Institute of Technology  
 Michigan State University  
 Ohio State University  
 Onondaga Community College  
 Princeton University  
 Purdue University  
 Rochester Institute of Technology  
 State University of New York - Buffalo

State University of New York - Potsdam  
 Syracuse University  
 University of Massachusetts - Amherst  
 University of Michigan - Ann Arbor  
 University of Rochester  
 Wayne State University  
 Wells College  
 Worcester Polytechnic Institute  
 Yale University

**Region 7: Alabama, Delaware, District of Columbia, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia**

Hampton University  
 North Carolina State University  
 University of Georgia - Athens  
 University of North Carolina - Chapel Hill  
 University of North Carolina - Pembroke  
 University of South Florida



# AISES Higher Education Programs

## Leadership Conference

The Leadership Conference aims to help AISES student members develop leadership skills and introduces them to a network of corporate mentors and professionals. The conference also prepares the students to become active, knowledgeable leaders for the Indian community and to serve as mentors for younger students. The AISES 2008 Leadership Conference themed MISSION: Excellence took place February 21-23, 2008 at the Marriott Hotel in Albuquerque, New Mexico.

**“This conference has given me a lot of ideas to take back to my AISES chapter. I now want to go for opportunities I wouldn’t have earlier.”**  
– Anonymous student participant

**AISES would like to extend its sincere thanks to the following organizations for their sponsorships.**

### Excellence Sponsors:

3M Corporation  
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Lockheed Martin

### Success Sponsor:

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### Other Sponsors (Donation of Prizes):

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Northrop Grumman



Photo by Ki Tecumseh

### 2008 Regional Conferences

Regional Conferences are an excellent opportunity for AISES College Chapters to improve communication regionally, form partnerships, and to network with presenters and other participants. AISES' student representatives are selected at the regional conferences. Host chapters for the following year are selected at each regional conference. The following served as regional conference host chapters in 2008:

Region 2: California Poly State University-San Luis Obispo  
Region 3: New Mexico Tech  
Region 4: University of Oklahoma  
Region 5: Oglala Lakota College  
Region 6: University of Michigan  
Region 7: University of North Carolina-Pembroke

AISES thanks 3M for their sponsorship of each Regional Conference and to all regional sponsors, donors, and friends that gave financial and volunteer support directly to our college chapters.



May 10, 2008- Rachele Petrovic (Iroquois Tribe, Seneca Nation), accepting her Professional Science Master's in Environmental Analysis and Decision Making from Rice University.

### AISES Scholarship Program

AISES scholarships are intended to defray some of the costs of tuition and other educational expenses, increasing access to higher education and improving college retention rates of our members. AISES administered four scholarship programs. Through all four scholarship programs, AISES provided financial assistance to 143 students totaling \$313,150 for the 2008-09 academic year.

### Burlington Northern Santa Fe Foundation

Funded by Burlington Northern Santa Fe Foundation Awarded: 20 students totaling \$50,000

### Henry Rodriguez Reclamation College Scholarship and Internship

Funded by U.S. Bureau of Reclamation  
Awarded: 2 students totaling \$10,000

### General Motors Engineering Scholarship

Funded by General Motors  
Awarded: 3 students totaling \$9,000

### AISES Google Scholarship

Funded by Google  
Awarded: 9 students totaling \$90,000

### A.T. Anderson Memorial Scholarship

Awarded: 109 students totaling \$154,150

### A.T. Anderson Memorial Scholarship Program Funders:

3M  
Alyeska Pipeline  
Bernard Family Foundation  
Peter & Judith Bunting  
Chahta Petroleum, Inc.  
Chevron  
Chrysler Foundation  
Catherine Collier  
Kathie & Robert Courtney  
CTC Foundation  
Federal Energy Regulatory Commission  
Nancy and Lawrence Gutstein  
Intel Foundation  
Johnson and Johnson  
Michael & Diana Katz  
Judith & Norman Levison  
Lockheed Martin Foundation  
National Renewable Energy Laboratory  
Northrop Grumman  
Denny and Merrily Parker  
Porter Scientific  
Raytheon  
Roger & Jodie Scheer  
Shakopee Mdewakanton Sioux Community  
Annice Jo Steen  
Verizon Foundation  
Melvin Yazzie

**“I have learned and grown a lot in the last year both personally and professionally and have organizations such as Chrysler and AISES to thank for their support of my academic and professional endeavors.”** – Rachele Petrovic, A.T. Anderson Memorial Scholar



## Summer Internship Program

The AISES Internship Program is a 10-week summer program that provides qualified AISES students with internship opportunities to explore careers with different partner agencies. The AISES Summer Internship Program is designed to provide students with applied work experience opportunities to gain relevant skills and knowledge, to promote graduate education, prepare for the transition to the workplace, to explore career options, and to develop professional networks.

### 2008 Summer Interns:

#### Arctic Slope Regional Corporation Federal Holding Company

**Corbin Benally** (Navajo)

Computer Science, University of Nevada

**Erik Bennett** (Navajo)

Computer Science, NM Institute of Mining & Technology

**Brent Kie** (Pueblo of Laguna)

Computer Science, Southwestern Indian Polytechnic Institute

#### Bonneville Power Administration & Nez Perce Tribe

**Joshua Erickson** (Nez Perce/Ute Mountain Ute)

Geography, Portland Community College

**Jennifer Johnston** (Ojibway)

Engineering Management, Whitworth University

**William Kindle** (Rosebud Sioux)

Electrical Engineering, South Dakota School of Mines and Technology

#### Centers for Disease Control and Prevention

**Nicole Coppage** (Wanpanog)

Molecular, Cellular & Development Biology, University of California-Santa Cruz

**Sandte Stanley** (Creek)

Psychology, Michigan State University

#### NASA-Glenn Research Center

**Harlan Greeley** (Navajo)

Electrical Engineering, Northern Arizona University

**Eutimia Valdez** (Apache)

Chemical Engineering, NM Institute of Mining & Technology

#### NASA-Goddard Space Flight Center

**Jeremy Danny** (Navajo)

Electrical Engineering, Northern Arizona University

**Krystal Mike** (Navajo)

Mechanical Engineering, Arizona State University

#### National Science Foundation

**Cimberly Nickell** (Kiowa)

Mathematics, University of Oklahoma

#### U.S. Department of Commerce

**Shanna Cook** (Sioux/Penobscot)

International Relations, Stanford University

**Alex Hoopai,**

Biomechanical Engineering, Stanford University

**Bettina Mitchell** (Navajo)

Law Advocate, Navajo Technical College

**“I’ve gained valuable lab experience and broadened my work experiences in a way that I hope will help me decide on a future career better than if I hadn’t had this opportunity.”**

**– Alex Hoopai**



Summer 2008- Alex Hoopai, DOC intern, in the field collecting shrimp. Photo by James Daugomah

### 2008 Broadening Participation in Computing (BPC) Summer Research Program

The goal of the program is to increase the number of American Indian students majoring in computing disciplines, working in a computing career, pursuing graduate education in the computing fields, and ultimately attaining a Ph.D. in a computing discipline. This project is funded by a grant from the National Science Foundation. Students spent 10 weeks at one of the following host institutions: University of Michigan, Ann Arbor, MI, the University of St. Thomas, St. Paul, MN, Princeton, and College of Menominee Nation in Wisconsin. As an example, go to the University of Michigan website [www.ojibwe.net](http://www.ojibwe.net) to view some of Christy Bieber’s work with web design and implementation.

#### University of Michigan

**Julie Timmer** (Sault Saint Marie Chippewa)

**Christy Bieber** (Sault Saint Marie Chippewa)

#### University of St. Thomas

**Jillian Beaufeaux** (Fond du Lac Chippewa), St. Thomas

#### Princeton University

**Matthew Sanders,** (Cherokee), Princeton University

**Adam Sanders,** (Cherokee), Princeton University

#### College of Menominee Nation

**Holly Furcho** (Oneida)

**Luiz Ortiz** (Oneida)



**Elizabeth Locklear Lumbee**

Greetings Fellow Natives! I’m Elizabeth Locklear, proud daughter of Robert and Lanette Locklear and a member of the Lumbee Tribe of North Carolina. I’m originally from Robeson County, now residing in Chapel Hill, NC receiving my second bachelor’s degree in Radiologic Science at UNC-Chapel Hill. The AISES organization has helped me understand the importance of students obtaining their education and even so continuing on to obtain a higher education. I have been a current AISES member since I began research in the 7<sup>th</sup> grade. Some research included studying the soil of Robeson County and later on, I studied diabetes. I participated in the National American Indian Science and Engineering Fair (NAISEF) each year from 1998 until 2004, earning four national first place awards. NAISEF gave me the opportunity to meet individuals from all over the world including naval and computer engineers. After participating in the science fairs I continued on with my duties in AISES by attending the National Conferences each year from 2003 until now. In 2006 I was a Student intern at the NASA Glenn Research Center in Cleveland,

Ohio researching ways to inhibit blood vessel growth in the diabetic eye, which eventually leads to blindness. I recently completed a term serving as Region Seven Representative for AISES. I served as the 2007-2008 Region Seven Representative. I have also been fortunate to be a recipient of the AISES A.T. Anderson Scholarship for the past two years. I would like to personally thank AISES for all the opportunities they have given me as a student. This year I will return to Portland, Oregon to support AISES at another national conference.



# AISES Professional Chapters



AISES professional chapters provide support for all members on a regional and local level. These chapters fundraise to provide student scholarships, share job opportunities, and also organize seminars and workshops to encourage leadership, communication and other skills for students and professionals.

## Region 1

Alaska AISES  
Fairbanks, AK

Columbia River AISES  
Richland, WA

Hay Gweed Western  
Washington AISES  
Bothell, WA

Lower Columbia/Willamette  
AISES  
Brush Prairie, WA

## Region 2

California AISES  
Livermore, CA

## Region 3

Arizona AISES  
Phoenix, AZ

Northern Arizona AISES  
Window Rock, AZ

Tucson AISES  
Tucson, AZ

New Mexico AISES  
Albuquerque, NM

## Region 4

Oklahoma AISES  
Stillwater, OK

## Region 6

Lake Erie AISES  
Cleveland, OH

Northeast Professional  
Chapter of Massachusetts  
Ashby, MA

## Region 7

D.C. AISES  
Washington, DC



The California AISES Chapter hosted a golf tournament, awards dinner and silent auction/raffle. The proceeds funded 4 scholarships for AISES students. Courtesy of Michael Liu



**“My favorite thing about AISES is how they fully support continual education for American Indians.”**

**Jhana Gorman**  
Sandia National Laboratories  
Navajo

Ya'at'eeh, my name is Jhana S. Gorman. I am of the Deer Water clan, born for the Many Goats clan and my maternal grandfather clan is Black Sheep. I am from Chinle, Arizona. I have my Associates in Liberal Arts from New Mexico Military Institute (NMMI) and my Bachelors in Mechanical Engineering from New Mexico State University. I just recently attained my Masters in Mechanical Engineering from University of Arizona. Whew, seems like I've been in school forever. Now I am on my next journey to Albuquerque, New Mexico to start my career at Sandia National Laboratories.

I've been involved in AISES since the beginning of high school while I was at Navajo Preparatory Academy in Farmington, New Mexico. I was involved in with a small science group and had lots of fun conducting community projects and fundraising to attend the national conference. I took a slight break from AISES as I went to college at NMMI. However, I became involved in AISES when I transferred to New Mexico State University. One of the major benefits of being involved in AISES was qualifying for their scholarships. This helped me out tremendously. On that note, I would like to say a “BIG THANK YOU” to AISES! While in college, any type of financial support is always helpful. Now, I am involved with AISES as a professional. I get to see the organization from the other side of the triangle. I volunteer with the reading/evaluating of scholarship applications. I love reading through all the applications, it amazes me how wonderful and motivated our younger generation is.

My note to the younger generation, who happen to read this:

If you have a dream, go for it! Anything is possible. I am going to be honest and say it is not going to be handed to you. You are going to have to work for your dream. My uncle told me once, “Jhana, if it was easy then everyone would be doing it!” Then my mom told me “Take one step at a time!” So as you step through your journey take my family advice by taking one step at a time. One of my favorite quotes is by Mary Kay Ash, “Aerodynamically, the bumble bee shouldn't be able to fly, but the bumble bee doesn't know it and goes on flying anyway”. If you think about it, a bumble bee is huge with tiny wings; so there may be many things weighing against it, but the bee does not let that hold it down. Instead, it goes and flies. Go do the same as the bumble bee and just fly.







**2008 Professional of the Year Award:  
Dr. Jason Cummings**

Dr. Cummings is an enrolled member of the Lumbee and Coharie tribes. He currently works as a semiconductor development engineer at IBM where he is responsible for developing and implementing novel semiconductor fabrication processes that are integral to the invention and innovation of advanced technology. He earned his Ph.D. in chemical engineering at Princeton University where his thesis research focused on understanding the interaction of antimicrobial peptides with self-assembled model membranes mimicking those of pathogenic cells.

This work is of fundamental importance to the ongoing development of antibiotics, particularly for HIV treatment and prevention. All the while, Jason has remained active within the Native community through membership in student and professional Native associations as well as volunteering for various Indian organizations.



**2008 Executive Excellence Award:  
Captain Jeffrey Trussler**

Captain Trussler is the Deputy Director Submarine Officer Distribution for the United States Navy. He plans and coordinates Navy Personnel Command's training and presentation to fleet units, leadership training pipelines, and deploying battle groups and amphibious ready groups in support of Chief of Naval Operations emphasis upon career development. In his assignments, CDR Trussler has completed 4 Western Pacific Deployments and 11 Strategic Deterrent Patrols. He received his B.S. in

Mechanical Engineering from Oklahoma State University and his M.A. in Managerial Economics from the University of Oklahoma. Captain Trussler is from the Cherokee Nation and married to the former Kirsten Rae Taylor.



**2008 Technical Excellence Award:  
Jacklin Adams**

Jacklin Adams is a member of the Wyandot tribe of Kansas. She is currently the Senior Technical Staff Member and Senior Engineer leading the Center of Excellence for Environmental Compliance within IBM's Integrated Supply Chain (ISC) World-wide Engineering organization. She received her B.S. in Plastics Engineering with a minor in Chemistry from the University of Massachusetts. As a member of the ISC, Jackie co-developed a process for identifying and developing recycled resins for the manufacture of business

machines. She also developed manufacturing and tool design concepts that enabled greater pre and post consumer recycled resin usage in the industry. Beyond this, Jacklin is active in mentoring and recruiting for IBM's Native American new hires.



**2008 Most Promising Engineer/  
Scientist Award: Nathaniel Todea**

Nathaniel Todea of the Navajo Nation is a State Hydraulic Engineer for the National Resources Conservation Service (NRCS). Nathaniel recognized a fundamental commonality between NRCS mission statements, Navajo ideology, and his personal beliefs about the importance of harmony between people and their natural environment. He not only is committed to excellence and high quality work as a hydraulic engineer but also as a recruiting cadre member for NRCS. He earned his M.S. in

Civil Engineering from the University of New Mexico and a B.A. in Anthropology from Fort Lewis College.

Tribal plenary at the 2008 National Conference (from left) Councilwoman Cara Cowan Watts (Cherokee), Lori Hamilton (Chickasaw), Amy Minniear (Luiseno Mission), Stacy Phelps (Sisseton-Wahpeton), Principal Chief Chad Smith (Cherokee).



**Norbert S. Hill, Jr.**  
**Oneida**  
**2008 Ely S. Parker Recipient**

The purpose of the Ely S. Parker award is to recognize those American Indian individuals who have made significant long-term contributions in the Sciences, Technology, Engineering and Mathematics (STEM) fields or related fields and who have served the American Indian Community in an exemplary manner. Through this recognition, the American Indian Science and Engineering Society (AISES) develops an academy of role models for future generations to emulate. The Ely S. Parker award is AISES' highest honor. The 2008 Ely S. Parker award recipient is Norbert S. Hill, Jr.

Norbert Hill is the Vice President of the College of the Menominee Nation. A member of the Oneida Tribe of Wisconsin, Mr. Hill has developed and administered education programs for American Indian and disadvantaged youths for more than 30 years. He was the executive director of AISES for fifteen years and advocated education as the route to economic power. Under his leadership, AISES evolved into a major resource for increasing the number of American Indian scientists and engineers. Recently, Hill served as the executive director of the American Indian Graduate Center (AIGC) in Albuquerque, NM for six years. He managed the largest American Indian scholarship program in the country—over \$10 million dollars. Mr. Hill is on the boards of trustees of Environmental Defense, the Higher Learning Commission of the North Central Association of Colleges and Schools, and the Smithsonian Institution's Museum of the American Indian.

"In the early years of AISES Norbert Hill was particularly effective in painting a picture of what we could be, and then making it happen. He is a visionary. And

he is a pathfinder." – Alfred H. Qöyawayma, Co-Founder and Founding Chairman, AISES, Ely S. Parker Recipient (1986)

"He served as a very visible and visionary leader in the STEM effort; representing us to the corporate, government, and private sectors that we needed to develop to support the needs of filling the pipeline with Native students." –Dwight A. Gourneau, Chairman Emeritus, AISES, Ely S. Parker Recipient (1994)

"With the Board of Directors, Norbert Hill led this major successful effort in the Indian world. AISES is one of six surviving national Indian organizations, all founded in the 1960's or early/mid 1970's. I believe Norbert fully deserves recognition for his exceptional achievement while with AISES." - Carol Metcalf Gardipe, Co-Founder, AISES, Ely S. Parker Recipient (2003)

## 2008 National Conference Sponsors

### Gemstone Sponsors:

#### Turquoise Sponsor

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**IBM**  
**Lockheed Martin Corporation**  
**San Manuel Band of Mission Indians**

#### Coral Sponsors

**Northrop Grumman Corporation**

#### Lapis Sponsors

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**US Navy**  
**USDA / Natural Resources Conservation Service**

#### Onyx Sponsors

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### Other Conference Sponsors

**3M** – Sequoyah Breakfast & Professional Teacher Development Training  
**All Nations/Louis Stokes Alliance Minority Participation** – Undergraduate Poster Sessions  
**The Boeing Company** – AISES Celebration- Halloween Party  
**Chevron** – Student research presentations  
**Fluor Corporation** – Student travel  
**General Dynamics Corporation** – AISES Celebration- Halloween Party  
**Google, Inc.** – Student travel  
**Intel** – E-lounge  
**Lawrence Livermore National Laboratory** – Graduate Poster Sessions  
**Mayo Clinic, Spirit of Eagles** – Student travel  
**Northrop Grumman Corporation** – Conference Bags  
**Pechanga Development Corporation**  
**Portage Environmental, Inc.** – Student research presentations  
**Procter & Gamble** – Graduate Poster Sessions  
**Salt River Pima** – Maricopa Indian Community  
**URS Corporation** – AISES Celebration- Halloween Party  
**US Environmental Protection Agency, Office of Research & Development** – E-lounge  
**US Environmental Protection Agency, American Indian/Alaska Native Initiatives** – Student Travel  
**USDA/ Agricultural Research Service** – Graduate Poster Sessions  
**USDA/ Natural Resources Conservation Service** – Volunteer T-shirts

## AISES 2008 30th Annual National Conference A Universe of Opportunities

In 2008, the AISES 30th Annual National Conference was held in Anaheim, California, October 30 - November 1, 2008. The National Conference was an exciting celebratory climax to the year-long celebration of AISES' 30 year anniversary. The 1625 attendees enjoyed fabulous weather, exceptional speakers and special AISES anniversary content. Anniversary elements included a digital timeline of AISES' 30-year history, and a special video presentation of four of AISES' Founders that reflected on the organization's past, present and future.

This year's Opening Ceremony featured a keynote address by Olympic Gold Medalist, Billy Mills. Mr. Mills emphasized the importance of valuing the challenges we face during our journey to success and achievement as these experiences make us better versions of ourselves, and strengthen our resolve to achieve our goals. Mr. Mills underscored the importance of traditional values that teach us to value diversity, to respect each other, to demonstrate bravery, and exercise humility.

John B. Herrington, retired US Navy CDR and former NASA astronaut, took a break from his ongoing bike trek across the country to speak at the banquet about this project. Attendees enjoyed a slide show of Johns' Rocketrek, a 4,000-mile bicycle ride from Cape Flattery, WA to Cape Canaveral, FL, designed to encourage student participation in Science, Technology, Engineering and Mathematics (STEM).

AISES members came together to affirm the importance and criticality of the AISES mission and the roles AISES members will play in shaping the next 30 years. These themes and concerns were reflected and discussed in Friday's plenary session "STEM Needs Across Indian Country," which included esteemed panelists, Principal Chief Chad Smith and Councilwoman Cara Cowan Watts of the Cherokee Nation; President of the Board of Directors of Pechanga Development Corporation Board, Amy Minniear; Director of Education Services for the Chickasaw Nation, Lori Hamilton; CEO of the Institute for American Indian Institute for Innovation, Stacy Phelps; and Retired USN Commander and NASA Astronaut John Herrington as moderator.

The conference theme was, "A Universe of Opportunities," and indeed highlighted the many programs, events and opportunities that help AISES students attain their degrees and find meaningful careers, and support professional members with ongoing training, development and networking. The conference also facilitated critical discussions around issues of sustainability, climate change and the challenges and opportunities facing tribal communities.



John Herrington, retired US Navy CDR and former NASA astronaut



Keynote Speaker, Billy Mills, Oglala Lakota



**"I want to express a heartfelt thank you for the opportunity to attend the AISES National Conference in Anaheim, CA. It was once again a great experience. The speakers were phenomenal. The colleges and corporations present were enthusiastic and ready to help in any way they could. The attendees' high school, college, and professional were elite. Thank you for opening the doors for me and my sisters. "**  
**-Crystal Tulley**

## Membership

Members are the fundamental element that allows AISES to progress through its many phases. From our K-12 affiliate schools to college chapters to professional chapters, AISES members continually demonstrate educational drive, enthusiasm and support, which keep AISES successful in molding future scientists, technicians, engineers and mathematicians.

All are welcome to join AISES! Native and non-native, all that is required is a commitment to the AISES mission. AISES members receive benefits such as an annual subscription to the *Winds of Change* magazine, eligibility for internships and scholarships, and support through local chapters.

### Are you a member of AISES?

#### New Sequoyah Fellows

AISES Sequoyah Fellowships are lifetime memberships. They are named after Sequoyah, the great Cherokee inventor who developed the Cherokee alphabet and syllabary. For their one-time membership payment of \$1,000, Sequoyah Fellows enjoy the benefits of AISES membership, while contributing to the science and engineering growth of American Indian professionals, students, teachers, K-12 schools and academic communities. AISES welcomes the new 2008 Sequoyah Fellows.

Todd Ambo  
Angela Barr  
Frank Bartley III  
Gary Bishop  
Gabriel Bohnee  
Telia Burgess  
Daniel Callahan, PhD  
John Callaway  
Kit Colbert  
Iala Kitanyea Cropper  
Leigh Daniel  
Jay Davey  
Debra Dunnington  
Thomas Elkins  
Daniel Faddis  
David Fuller  
Solo Greene  
Jeremy Hamilton  
Lorena Hegdal  
Todd Kelsey  
Kerry Langford  
William Lawrence  
Sue McHenry  
Loretta Metoxen  
James Oxendine  
Anita Poleahla  
Kathy Qöyawayma Espinosa  
Tosie Reyhner  
Curtis Rhodes, PhD  
Olivia Scott  
Nathaniel Todea  
Marlene Watson  
Odessa Williams



**“Being a Native American student in higher education can be alienating. I joined AISES because it allowed me to feel at home and connect with students who were in the same situation.”**

**– Joshua Smith, AISES College Chapter member**



In Celebration of  
 Mary Golda Ross  
 "Trail Blazer"  
 August 1908-April 2008

Mary pioneered the way for Native Americans and women in the engineering field. She represented the Cherokee Nation, not only as a lifetime AISES Sequoyah Fellow, but also as the first known Native American woman engineer. She was born August 9, 1908 in Oklahoma as the great-great-granddaughter of Cherokee Chief John Ross, who led the Cherokees during the infamous Trail of Tears. Mary, however, has made a brighter trail. She earned her Master's Degree in mathematics, was the first woman engineer at Lockheed (now known as Lockheed Martin), and had devoted much of her retiring days to motivating young women and Native Americans to the science and engineering fields. She received AISES' highest honor, the Ely S. Parker Award in 1985. Mary has been a pivotal influence to AISES and will be dearly missed.

**"Why Did This Happen For Me? How, without an engineering degree and no previous experience was I able to adapt and move through such an interesting career? The Answer, I think, is that I had a firm foundation in Mathematics and those qualities that came down to me from my Indian heritage. I had a great deal of curiosity, interest, willingness to study and to learn, to try out new ideas and most of all to work."** - Mary Ross, November 1992

**"It is extremely important for women engineers to have role models to see themselves in the technical workforce. We were privileged to have a Native women engineer among us like Mary Ross, who connected leadership and technical achievement. She was a kind spirit and very modest - attributes we should all try to attain. I will always remember her not only as a role model but as a personal mentor and coach."**

- Sandra Begay-Campbell, Civil and Structural Engineer



**Mathematician Mary Ross  
 and-Guesses MSD Missiles**





**Laurence Brown Navajo**  
Corporate Advisory Council Chair

**“It is an honor to Chair the CAC as we begin the next 30 years of helping AISES achieve its mission of increasing American Indians in science and engineering.”**

The Corporate Advisory Council (CAC) of AISES is a professional association of corporate representatives that actively work to help AISES meet its mission of increasing the number of American Indians and Alaskan Natives in science, engineering, and other related technology disciplines.

The CAC meets twice a year in conjunction with AISES national events in order to have CAC members meet, participate in events, and interact with students. Membership on the CAC is open to all corporations who have a desire to be a partner with AISES. Each member organization decides how and to what extent it can support AISES.

In 2008, the CAC sponsored the AISES Professional Awards program for the fifth year. Awards were presented for Executive Excellence, Technical Excellence, Most Promising Engineer or Scientist, and the AISES Professional of the Year. The CAC worked closely with the AISES staff and the host university, University of Washington, in soliciting nominations, organizing and managing the selection committee meetings, and requesting the necessary monetary contributions from CAC member corporations in order to cover AISES’ expenses and actual awards.

On an ongoing basis, CAC members and their organizations have demonstrated their support for students and AISES by providing scholarships, internships, and employment opportunities. Throughout the year, members have supported AISES student chapters in their local area.

Representatives from the CAC met throughout the year with the AISES staff and periodically with the Board of Directors to provide input to the AISES long range strategic plan. As in past years, the CAC continued to provide guidance to AISES on current and projected employment trends in science and engineering, along with the critical skills needed.

The Corporate Advisory Council is always actively recruiting new members to make sure the CAC has a diverse mixture of companies and viewpoints. No formal membership criteria exists and no annual membership dues are required. For any corporation interested in joining the CAC and helping AISES meet its mission of increasing the number of American Indians and Alaskan Natives in science, engineering, and other related technology disciplines, please contact the AISES staff.





MOU signing (top) Lori Windle, Cristy Davies, Shirley LaCourse, Dorothy Pender, Ph.D., Danny Garceau (bottom) Jason Edwards, Pamala Silas - J Morgan Edwards Photography

The Government Relations Council (GRC) of the American Indian Science and Engineering Society, established in 1984, is comprised of government employees throughout the United States. The GRC works to establish working relationships between AISES and government agencies. In order to increase the representation of American Indian and Alaska Native students in the science and engineering and related fields, GRC’s purpose is to identify government resources, develop strategies, and promote government careers.

**General Support Activities:**

Federal employees usually support the annual AISES Science Fair. Federal employees also help rank scholarship applications each year. Federal employees often participate and support the regional conferences. Many GRC members routinely attend the AISES National Conference and support the Career Fair. In addition, GRC members often support other activities that support the overall goals of AISES.

**New Leadership**

**“AISES’ GRC will continue to strive to partner with governmental agencies to increase American Indian scientists and engineers within the government sector. The GRC has embraced the AISES Full Circle of Support Model and are encouraging the use of the model by governmental agencies to help AISES continue its mission in the future.”**

**- James Daugomah, GRC Co-Chair**

**GRC Partners with SAIGE on National Recruitment Strategy:**

The Society of American Indian Government Employees (SAIGE) is a national non-profit organization that advocates for American Indian and Alaska Native federal employees. One of the primary missions of SAIGE is to increase Native American employment in the Federal government. The Government Relations Council (GRC) is committed to collaborate with SAIGE to develop a national federal career recruitment strategy for Americans Indians, particularly youth.

In 2008, AISES and SAIGE finalized their Memorandum of Understanding with a signing ceremony during the Career Fair at the AISES National Conference, in Anaheim, CA. The MOU was signed by AISES CEO Pamala Silas, SAIGE President Jason Edwards, GRC Co-Chair Amanda James, and SAIGE Co-Chair Patrick Broyles. The MOU includes strategies for the sharing of information about various career and professional development programs offered by each respective organization, including conferences and events, internships and employment opportunities.

■ ■ ■ **Completing the Circle - AISES Council of Elders:**



**Horace & Andrea Axtell**  
(Nez Perce)



**Franklin & Mary Kahn**  
(Navajo)



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



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



**Dr. Henrietta Mann**  
(Southern Cheyenne)

**“It’s up to ourselves to have a good life.” - Horace Axtell, AISES Elder**





## AISES Board of Directors:

Dr. Dorothy Pender (Inupiat Eskimo), Chair  
 Everett Chavez (Santo Domingo Pueblo), Vice-Chair  
 Dr. Mary Jo Ondrechen (Mohawk), Secretary  
 Kiutus Tecumseh (Winnebago), Treasurer  
 Dr. Iona Black (Cherokee)  
 Anthony Kahn (Navajo)  
 Dr. James May (Keetoowa Band)  
 Dean Seneca (Seneca)  
 Marlene Watson (Navajo)

### Student Representatives to the Board:

**Amber Finley** (Mandan-Hidatsa-Dakota)  
 Sr. National Student Representative

**Harlan Greeley** (Navajo)  
 Jr. National Student Representative

## AISES National Staff:

Pamala Silas (Menominee/Oneida),  
 Chief Executive Officer  
 Shirley LaCourse (Oglala Lakota/Yakama/Umatilla/  
 Oneida) Deputy Chief Executive Officer  
 Matt Bechtel, Finance Director  
 Lorena Blanco, Development Director  
 Cristy Davies, Events Director  
 April Armijo (Acoma Pueblo/Navajo), Information  
 Services Coordinator  
 Liz Encinias, Program Officer  
 Geri John (Navajo), Accounting Clerk  
 Brittany Kubacki, Program Assistant  
 Tina Pino (Laguna Pueblo), Program Officer  
 Carmen Tsabetsaye (Zuni/Zia), Administrative Assistant  
 Heather Wade, Events Coordinator  
 Dave Wdowik, Assistant Finance Officer

## AISES Staff and Board

Photo by J. Morgan Edwards Photography



## 2008 Financial Highlights

- Financial Reporting – AISES received an unqualified “clean” opinion on its 2007 Audited financial statements.
- Over the past 5 years, AISES has grown its asset base by 33% and its equity by 21%, while maintaining consistent liquidity.
- Over the past 5 years, AISES has steadily raised support levels, for a 29% total increase.
- Efficiency - Only \$0.19 of every dollar of revenue goes to overhead expenses.
- Effectiveness - \$0.81 of every dollar donated to AISES goes to programs and member services
- Assets grew 17% from 2007, indicating strong growth within the organization.

### Consolidated Statements of Financial Position

December 31, 2008

#### Assets

Current assets:	
Cash and cash equivalents	\$636,019
Certificates of deposit	99,925
Receivables:	
Conference, net	83,250
Contribution, trade and other	284,844
Grants	49,777
Prepaid expenses and deposits	88,800
Inventories	11,620

**Total current assets: 1,254,235**

Property and equipment	157,426
Cash and cash equivalents - Sequoyah endowment	585,000
Interest in net assets of AISES Foundation	19,708

**Total assets: \$2,016,369**

#### Liabilities and Net Assets

Current liabilities:	
Accounts payable	\$43,996
Accrued liabilities	32,883
Deferred revenue	352,680

**Total current liabilities: 429,559**

Minority interest in AISES Publishing	17,514
---------------------------------------	--------

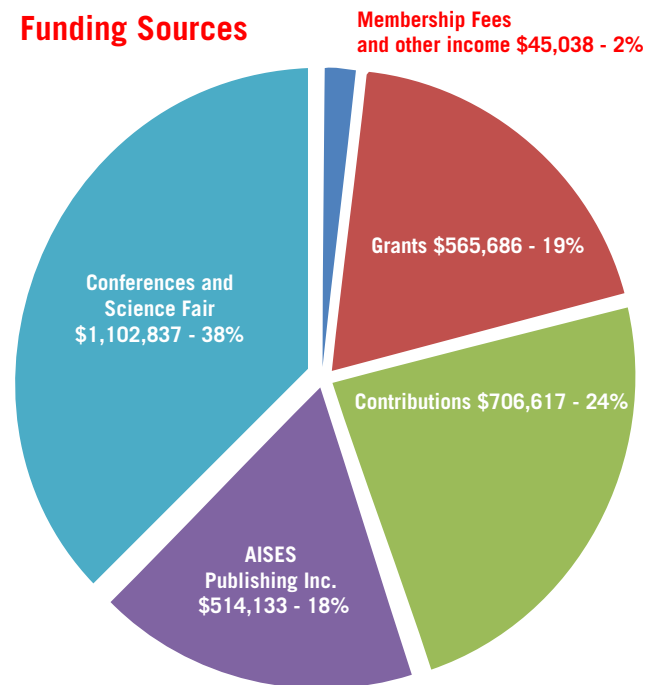
#### Net assets:

Unrestricted	536,608
Temporarily restricted	371,457
Permanently restricted	661,231

**Total net assets: 1,569,296**

**Total Liabilities and Net Assets \$2,016,369**

### Funding Sources





**Consolidated Statement of Activities  
Year Ended December 31, 2008**

**Revenues, support and gains**

Conference registration fees	\$1,051,877
Advertising income	505,547
Grants - federal	515,019
Contributions	689,122
Grants - state and other	50,667
In-kind	17,495
Membership fees	70,325
Science fair	50,960
Investment income	25,438
Subscription sales	12,906
Other, net	11,406
Change in interest in net assets of AISES Foundation	(62,026)

**Total revenues, support and gains 2,938,736**

**Expenses**

Program services	
Conference	730,422
Training and development	598,164
Publishing	479,052
Internships	121,872
Scholarships	243,400
Education and outreach	163,637
Other	55,115
	2,391,662

**Supporting services**

Management and general	444,760
Fund-raising	114,402
	559,162

**Total expenses 2,950,824**

Minority interest in AISES Publishing earnings 4,425

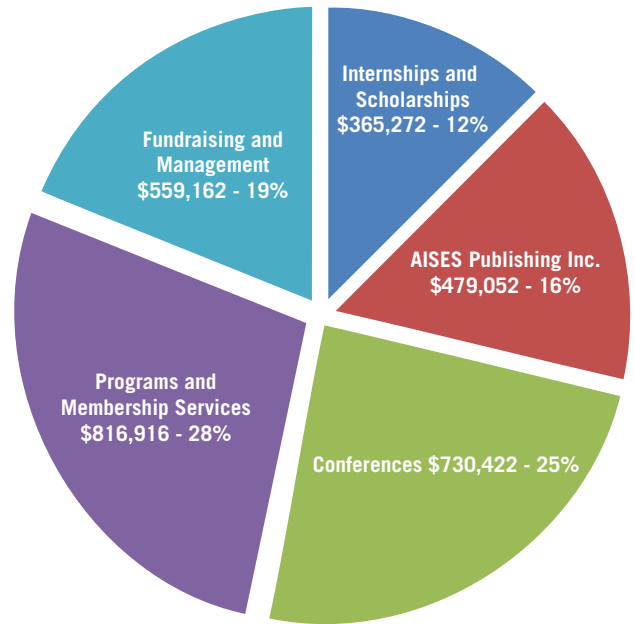
**Total expenses and minority interest 2,955,249**

**Change in net assets (16,513)**

**Net assets, beginning of year 1,585,809**

**Net assets, end of year \$1,569,296**

**Expenses**



*A copy of the audited financial statements are available upon request*



## Full Circle of Support Partners

We are proud to count on the support of many organizations who support AISES in many ways. Thanks to their dedication, AISES is able to provide high quality programs and services throughout American Indian and Alaska Native communities to support our students and professional pursuing degrees careers in the STEM fields.

The Full Circle of Support (FCS) was developed for organizational sponsors that have demonstrated a commitment to diversity and inclusion and established a long-term (three years or more) partnership and have generously committed to Full Circle of Support programming at the \$75,000+ level annually. These partners are invited into the FCS program, and understand the importance of supporting AISES across many program areas, such as:

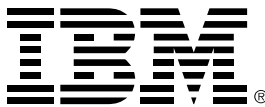
- Enticing and engaging American Indian and Alaska Native children at an early age to pursue education in the STEM fields.
- Supporting higher education initiatives to ensure the success of our students to pursue and attain degrees in the STEM fields.
- Promoting hiring and career development of our graduates and professional to enrich the global workforce.
- Completing the circle by giving back to the community to enhance opportunities for future generations.



## Full Circle of Support Partners

The members of the AISES Full Circle of Support are listed below. AISES celebrates these organizations for their commitment to supporting the education and career development of American Indians and Alaska Natives in the science, technology, engineering and math fields.

### Innovator



### Leader



### Circle of Support Partners

The Circle of Support Program assists and encourages partners to support more than one AISES program or event annually. This partnership also provides sponsorship packages designed to enhance year-round recognition and benefits for participating sponsors.

AISES will continue to seek outstanding organizations to become part of the Full Circle of Support and the Circle of Support

AISES would like to thank our 2008 Sponsors and appreciate their commitment to American Indian/Alaska Native professionals and students in the STEM fields.

### Visionary



### Benefactor



### Professional



### Advocate



### Mentor



### Teacher



For more information on becoming an AISES Full Circle/Circle of Support partner, please contact:

**Lorena Blanco**

**AISES Development Director**

Phone: (505) 765-1052 ext. 114

Cell: (505) 206-9277

E-mail: lblanco@aises.org



The AISES mission is realized thanks to the support of many individuals, corporations and other agencies. You can be part of making AISES happen for the next generation by giving today!

Through a variety of mechanisms, AISES accepts contributions that directly support programs and build internal capacity. Contributions are accepted in many forms, including donations to AISES.

Ways you can support AISES students, professionals and program:

**Employer Giving Campaigns**

Make a pledge or one-time tax-deductible gift through your employer's giving program or see if your employer will match your gift designating AISES through your local United Way.

**Matching Gifts**

Many employers offer a matching gift program. A matching gift leverages the donor's gift to a higher level. Check with your employer for details.

**Combined Federal Campaign (CFC)**

Federal employees may give through a Combined Federal Campaign. The AISES CFC Numbers is 10105.

**Native Ways Federation**

You can support AISES through your participation in the Native Ways Federation. THE NWF, formed in 2006, is comprised of seven of the country's leading national American Indian nonprofits. The member organizations of the Native Ways Federation share a commitment to bettering the lives of Native people, and pursuing that goal in accordance with only the highest principles of nonprofit integrity and honesty. Participation through workplace payroll deduction is simple. Visit [www.nativewaysfederation.org](http://www.nativewaysfederation.org) for more information.

**Cash**

The easiest gift to make is a cash donation. These gifts are deductible for income tax purposes and are subject to certain limitations:

- Give by credit or debit card on-line at [www.aises.org](http://www.aises.org)
- Make your donation with your credit or debit card or electronic check over the phone by calling the AISES Development Department at (505) 765-1052 ext. 114
- Fax your credit card gift to (505) 765-5608
- Mail your check, money order or credit card gift to: AISES Office of Development  
P.O. Box 9828  
Albuquerque, NM 87119

You can receive tax advantages by donating marketable securities, stocks and bonds. Please call the AISES Finance Director, Matt Bechtel 505-765-1052 ext. 116.

Remember AISES when preparing your taxes, estate planning and wills.

Outright bequests, as well as certain bequests in trust, are not subject to estate taxes. Bequests can be made in the following ways:

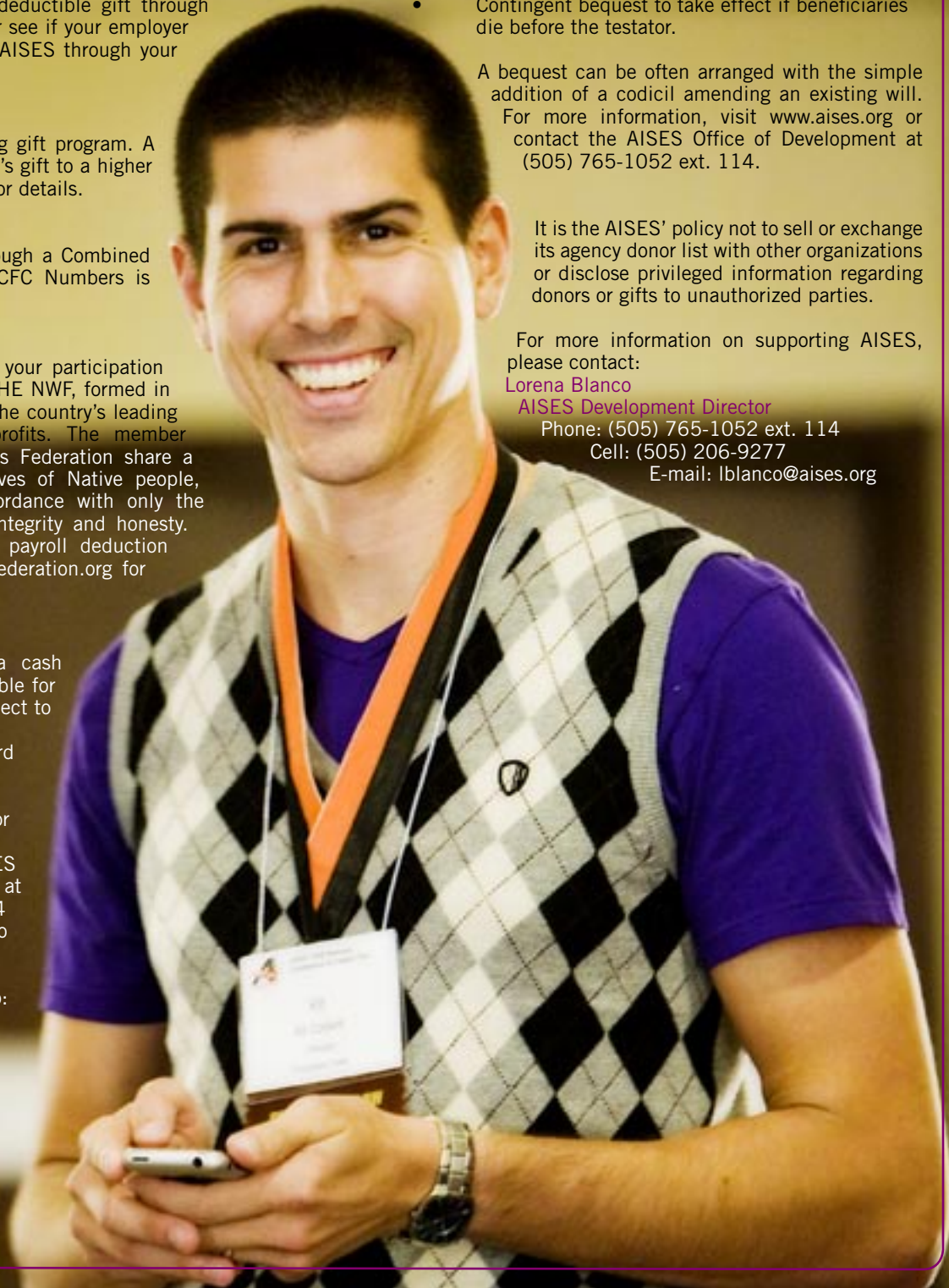
- Bequest of a dollar amount, particular securities or other property
- Residual bequest of all or a portion of an estate after payment of specific amounts to Other Beneficiaries
  - Contingent bequest to take effect if beneficiaries die before the testator.

A bequest can be often arranged with the simple addition of a codicil amending an existing will. For more information, visit [www.aises.org](http://www.aises.org) or contact the AISES Office of Development at (505) 765-1052 ext. 114.

It is the AISES' policy not to sell or exchange its agency donor list with other organizations or disclose privileged information regarding donors or gifts to unauthorized parties.

For more information on supporting AISES, please contact:

**Lorena Blanco**  
AISES Development Director  
Phone: (505) 765-1052 ext. 114  
Cell: (505) 206-9277  
E-mail: [lblanco@aises.org](mailto:lblanco@aises.org)





# American Indian Science & Engineering Society



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## AISES FOUNDERS

**“The sky is no longer the limit. AISES, as well as science, is in your hands if you let it happen.”**

**– Jerry Elliot, Osage/Cherokee**

**“You must be versatile when it’s necessary.”**

**– Carol Gardipe, Penobscot**

**“Don’t listen to the stories that other people tell about what an Indian can be or can’t be. That story is yours to write, nobody else’s. But if you don’t write it yourself someone else is going to write it for you.”**

**– George Thomas, Cherokee**

**“You have in you the innate abilities, the essence of what we need for our Native America. You have the qualities of persistence and endurance, use them.”**

**– Al Qöyawayma, Hopi**

# AISES

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