

AISES Winners

Join with us in congratulating all of the following Oral and Poster Presentation winners.

Scientific Oral Presentation Winners

First Place: Bret Harper, University of Colorado
Presentation Title: Using the TIEGCM to Estimate the Equatorial Vertical ExB Drift Velocity with Ground Magnetic Perturbation

Second Place: Benjamin Mar, Worcester Polytechnic Institute

Presentation Title: Photovoltaic Hybrid Operation & Maintenance Process for a Sustainable Program

Second Place: Trinidad Villalobos, Natale, N.R.

University of Idaho

Presentation Title: Chemical Analysis of the Constituents of Qaws-Qaws

Third Place: Nicolette Knudsen University of Minnesota - Morris

Presentation Title: Development of Waxy Specialty Wheat

Scientific Poster Presentation Winners

First Place: Ian Her Many Horses, University of Colorado
Presentation Title: Analysis of Latent Semantic Indexing with Sparse Matrices

Second Place: Franklin Dollar, University of California
Presentation Title: EUV Metrology

Second Place: Amy Crover, Salish Kootenai College

Presentation Title: Determination of the Antioxidant Activity of Mountain Tea

Third Place: Mark Couture, Salish Kootenai College

Presentation Title: Land Cover Classification of the Nyack Floodplain Using Remote Sensing

Third Place: Jessica Sutlerlict, Heritage College

Presentation Title: Shrub Steppe Statistical Analysis

Visit our website under student focused activities to download the students abstracts.

Upcoming Conferences

American Indian Higher Education Consortium (AIHEC)

Student Conference

Dates – March 30 – April 6, 2005

Location – Albuquerque, NM

www.iaia.edu/aihec2005

Ecological Society of America (ESA)

Conference Dates – August 7-12, 2005

Location - Montreal, Canada

www.esa.org/montreal

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

Conference Dates – September 29 - October 2, 2005

Location - Austin, TX

www.sacnas.org

American Indian Science and Engineering Society (AISES)

Conference Dates - November 3-5, 2005

Location - Charlotte, NC

www.aises.org

AISES Recognizes (continued from page 1)

outstanding leadership abilities with great potential for advancement and initiative in his/her field of expertise. ANLSAMP would like to congratulate Dr. Thomas and thank him for his help at AISES.

ANLSAMP Interview with Dr. Aaron Thomas

1: Growing up, when did you know you wanted to learn more about Chemical Engineering? Have you considered mentoring students in the Native American community aside from your role at the University of Idaho?

My father was a welding engineer, so I believe my engineering interest began with him. I explored chemical engineering specifically when I was about a senior in high school. I am always open to mentoring Native American students whether they are here, at another school, or on the reservations.

2: It is noted you are the only American Indian with a PhD in Chemical Engineering. What kinds of interests do you plan on pursuing in the near future? Where do you see yourself in 10 years?

Actually, there are about 4-5 other American Indians with a PhD in ChE, and I want to make sure they are also recognized. In the near future, I am planning on continuing my interests in NASA-related projects and Microelectromechanical Systems (MEMS). In ten years, I hope to be a tenured professor, and I have also considered looking at helping a college that does not have a chemical engineering department to begin one.

3: How did you like being a judge for the ANLSAMP student poster and oral competition at the Nat'l AISES Conference in AK? Did you learn anything new about current students (specifically Native American) and their interests? I enjoyed very much judging for the AISES National Conference because I look forward to talking with students and learning what they are doing and what interests them. I am also seeing more and more that Native students are researching a wide range of topics, which is wonderful. The more diverse the education and expertise of our people, the better for Indian Country.

ANLSAMP Supports AISES Activities at the Annual AISES Conference



The American Indian Science and Engineering Society (AISES) 26th annual student conference was held in Anchorage, Alaska in November 2004.



ANLSAMP continued its support of the organization by conducting the scientific poster and oral student showcase. Students from across the country were invited to present their research projects in front of a panel of judges

from the scientific community. ANLSAMP pays the conference registration fees for participating students from within the partnership. This year, 19 students presented their research in the poster showcase and six students participated in the oral presentations. There were a total of 20 colleges and universities represented by these students. Presenters were judged on a point system with the top three students being awarded prizes by ANLSAMP. We would like to congratulate all of the participants for their exceptional work and offer special recognition to the winners.



ANLSAMP Announces the following funded opportunities:

AISES CHAPTER SUPPORT

The All Nations Louis Stokes Alliance for Minority Participation (ANLSAMP) is offering \$1000 to provide support to ANLSAMP partner institutions for the creation or maintenance of an AISES Chapter at your school.

For eligibility criteria you may download the ANLSAMP-AISES \$1000 Funding information at www.aises.org under career services/non-aises opportunities/scholarships. Contact Alyssa Mahler at 406-275-4717 or email alyssa_mahler@skc.edu.

REQUEST FOR STUDENT RESEARCH \$2,500 per semester/quarter

Through this funding effort, ANLSAMP seeks to encourage students within the STEM disciplines to achieve their degrees through hands-on practical research. The goals of this project is to assist students in off-setting the cost of their education while offering them the opportunity to engage in research within their fields of study.

PROPOSAL DUE DATE:

Spring Semester applications will be closed January 30, 2005.

Spring Quarter applications will close March 1, 2005. Applications for Summer will be due April 25, 2005. Applicants are encouraged to submit proposals as soon as possible, funding is limited.

Join us at AIHEC in Albuquerque for the Science Bowl and the Poster and Oral competition.

ANLSAMP Partner Institutions



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Website

<http://www.skc.edu> (programs link)
<http://www.anlsamp.org>
<http://www.skc-rsi.org>

Listserv

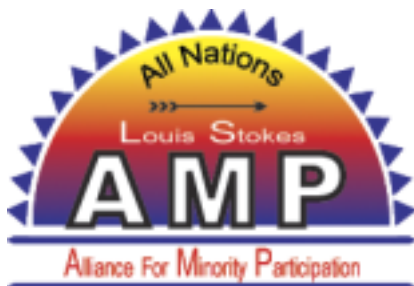
<http://listserv.skc.edu/cgi-bin/lyris.pl?site=amplistserv>

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The All Nations Circular is a newsletter developed for the All Nations Louis Stokes Alliance for Minority Participation program participants and others interested in keeping informed of ANLSAMP activities.

In this issue ~

- AISES Recognizes Dr. Aaron Thomas**
- ANLSAMP Featured Project**
- AISES Competition Winners**
- Upcoming Conferences**
- ANLSAMP Interview with Dr. Thomas**
- ANLSAMP Supports AISES Activities**
- ANLSAMP Funded Opportunities**



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AISES Recognizes 'MOST PROMISING ENGINEER OR SCIENTIST'

Each year the All Nations Louis Stokes Alliance for Minority Participation (ANLSAMP)



hosts the poster and oral showcase during the annual American Indian Science & Engineering Society (AISES) conference. At the 2004 AISES

conference held in Anchorage, Alaska, ANLSAMP was honored to have Dr. Aaron Thomas participate as both a poster and oral competition judge.

Dr. Aaron Thomas (Navajo) currently serves as an Assistant Professor of Chemical Engineering at the University of Idaho. He received his BS in Chemical Engineering in 1996 from Stanford University and his PhD in Chemical Engineering in 2001 from the University of Florida.

Dr. Thomas is noted as being only one of a handful of American Indians with a PhD in engineering. He is a member of an advisory group, serves as the advisor of the University of Idaho's AISES Chapter and is the Co-Advisor for the American Student Association. Dr. Thomas holds true to his belief that in order to make positive changes one must serve as the catalyst for change.

At this year's 2004 Annual AISES Conference in Anchorage, AK, Dr. Thomas was recognized as the 'Most Promising Engineer or Scientist.' This recognition is given to a professional engineer or scientist with less than five years experience since his/her last degree. To be eligible for this award the candidate must demonstrate (see—AISES recognition on page 3).

ANLSAMP Featured Project

One of the projects that ANLSAMP has supported through its subcontract process is the "Bridges to Success" program at Oglala Lakota College (OLC) in South Dakota. This project focuses on easing the transfer process from the Science, Engineering, and Math degree program at OLC to the four-year engineering degree program at South Dakota School of Mines and Technology (SDSM&T). Both of these schools are partner institutions of ANLSAMP.

Seven OLC students were chosen as student interns by principal investigator Mike Fredenberg. These interns were OLC students who plan on transferring to SDSM&T upon completion of their associate degree. ANLSAMP provided stipends of over \$3000 for each student to participate in summer research projects at SDSM&T, where they contributed to high-tech research projects ranging from laser deposition to nano-materials testing. Former OLC students who are now enrolled at SDSM&T provided assistance to the interns. Academic and career development seminars were also organized by Fredenberg and Carter Kerk at SDSM&T to familiarize the interns with the institutional setting of the four-year institution.

Two of the interns from the 2003-2004 Bridges program are now enrolled in STEM disciplines at SDSM&T, with other interns working toward that goal. It is by design that these transfer students will continue to receive assistance from the contacts they have made through the program, as well as being contacts and mentors for future students transferring from OLC to SDSM&T.