

All Nations Louis Stokes Alliance for Minority Participation

NEWSLETTER

SPRING 2011

SPECIAL POINTS OF INTEREST:

- AIHEC Conference
- AMP Sponsored Events
- Competition Winners
- Upcoming STEM Conferences and Opportunities

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2011 AIHEC Student Conference

Bismarck, North Dakota



(Above) Audra Stonefish, Sitting Bull College - Fort Yates student, accepts ANLSAMP's 1st place award for Scientific Poster Presentation at the AIHEC Conference. Photo courtesy of Art Bigrane.

The All Nations Louis Stokes Alliance for Minority Participation (ANLSAMP) program sponsored competitions at the American Indian Higher Education Consortium (AIHEC) Student Conference. Twenty-nine Scientific Poster Research and 16 Scientific Oral Research presenters registered, 16 of which were AMP Scholars. ANLSAMP sponsored the competitions allowing Tribal College students a chance to showcase their research and knowledge and expand their professional development abilities.

Scientific Poster Research Presentations

Scientific Poster Research Presentation Winners

1st Place - Audra Stonefish, Sitting Bull College - Fort Yates, North Dakota

Title: *Ecological and Vegetative indicators of Tuber Biomass in Pedimelum esculentum on the Standing Rock Reservation*

2nd Place - Lindsey Deswood, Dine College - Shiprock, New Mexico

Title: *Region 9 Water Quality of Rural Unregulated Water Sources Shock Chlorination*

3rd Place - Brandon One Feather, Oglala Lakota College - Kyle, South Dakota

Title: *Cadmium (Cd+2) Effects on Zebrafish Neurovascular Development*

*“A person who never
made a mistake,
never tried anything
new”
~Albert Einstein*



(Above) Lindsey Deswood, Dine College - Shiprock student, accepts 2nd place award for Scientific Poster Research presentation at AIHEC. Photo courtesy of Art Bigcrane.

*“Look deep into
nature, and then you
will understand
everything better.”*
~Albert Einstein



(Above) Amy Stiffarm - Salish Kootenai College student, accepts 1st place award for Scientific Oral Research presentation at the AIHEC Conference. Photo courtesy of Art Bigcrane.

Scientific Oral Research Presentations

Scientific Oral Research Presentation Winners

1st Place - Amy Stiffarm, Salish Kootenai College - Pablo, Montana

Title: *Prevalence and Distribution of Methicillin-resistant Staphylococcus aureus (MRSA) on Three Seattle-Metro Beaches*

2nd Place - Audra Stonefish, Sitting Bull College - Fort Yates, North Dakota

Title: *Ecological and Vegetative indicators of Tuber Biomass in *Pediomelum esculentum* on the Standing Rock Reservation*

3rd Place - Rebecca Bingham, Oglala Lakota College - Kyle, South Dakota

Title: *Home Range of Ornate Box Turtle (*Terrapene ornate*) in South Dakota*



(L to R) Rebekah Olson - Coach, Amber Iron Shield and son Axton, Chad Austin, Helen Reed - United Tribes Technical College (UTTC) Science Bowl Team accepts 1st Place award and traveling trophy at AIHEC. Photo courtesy of Art Bigcrane.

ANLSAMP Science Bowl Competition

In addition to Scientific Poster and Oral competitions at AIHEC, ANLSAMP conducts the annual Undergraduate Science Bowl Competition. New questions for the Science Bowl are purchased each year and randomly selected before the competition. Students prepare for the Science Bowl Competition by studying information in the categories of mathematics, zoology, earth science, botany, terminology, and anatomy. The Science Bowl Competition gives students the opportunity to demonstrate their knowledge of the STEM fields and represent their institution. This competition also allows students to network with professionals and learn about upcoming research and funding opportunities.

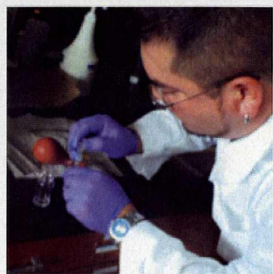
Eighteen teams registered for the Science Bowl Competitions, several of which were composed of AMP Scholars. Salish Kootenai College and Fort Berthold Community College teams were all AMP Scholars. The Blackfeet Community College Science Bowl Team turned over the traveling trophy and back to back titles of Science Bowl Champions to United Tribes Technical College. The prizes included cash, jackets and plaques. All winners in this year's Science Bowl Competition were from Tribal Colleges in North Dakota.

Science Bowl Winners

1st Place - United Tribes Technical College - Bismarck, North Dakota

2nd Place - Turtle Mountain Community College - Belcourt, North Dakota

3rd Place - Fort Berthold Community College - New Town, North Dakota



(Above) Medina testing samples in the CMU Laboratory. Photo courtesy of Medina.



(Above) CMU Student and All Nations AMP Scholar Phillip Medina. Photo courtesy of Medina.



(Above) Medina presenting scientific research. Photo courtesy of Medina.

Meet an AMP Scholar

Phillip A. Medina, Giigidoonibishnini

Nottawaseppi Huron Band of Potawatomi

ANLSAMP Scholar, AT Anderson Scholar, NASA MUST Scholar

A.S. Degree, Liberal Arts Saginaw Chippewa Tribal College

2007 AIHEC Student of the Year, President's List, Dean's List

Phillip Medina became interested in Science, Technology, Engineering and Mathematics (STEM) from a young age. He read an algebra book and was intrigued with math and science from that day forward. Medina participated in Math Olympics as a child and placed third in Saginaw, Michigan. He was the only minority student of this competition to place. Culture plays a significant role in the STEM fields as Medina has come to learn. As a child he recalls dancing at pow-wows with his grandmother. As Medina progressed through educational institutions, he became aware of opportunities like ANLSAMP, which created pathways for him to successfully accomplish his goals and achieve his educational dreams. The ANLSAMP program enhanced his self confidence and created an environment for Medina to research Nanotechnology, a summer project for which he was funded through ANLSAMP. Medina is in his third year at Central Michigan University (CMU) with one year remaining until graduation. He is currently researching the synthesis of Hafnium films and will soon present research on Organic Photovoltaic Materials and would like to further his education with plans to achieve a PhD in Advanced Materials. In addition to his degree plan, he would like to strengthen his background in chemistry. Medina would like to conduct research without having significant negative impacts on the environment and hopes to help create a traditional way of conducting scientific methods in research for the upcoming generations. When asked what he would tell upcoming AMP Scholars Medina stated, "Everything I do must and will be done in a good way, and with forethought of future generations."

Meet the Liaison

Colleen M. Green

Director, Native American Programs

ANLSAMP Liaison - Central Michigan University

B.S. Education, M.A. Educational Leadership, CMU

Tribal Affiliation, Little River Band of Ottawa Indians



(Above) CMU Liaison, Colleen Green Photo Courtesy of Green.

Colleen Green, Director of Native American Programs at Central Michigan University, describes the All Nations LSAMP Program in the statement, "The ANLSAMP program encourages students to continue their respective STEM degrees and the funding has allowed Central Michigan University (CMU) AMP Scholars to attend and present at various STEM conferences which provides key elements in their professional career and success as undergraduate students." She works with several students in the ANLSAMP program, many express the intent to return home and work within their tribal communities. Green believes that culture continues to play a large role in STEM disciplines as many areas are focused on preservation which she believes is related to Native American belief. Several approaches preservation, conservation and restoration use innovative technology to rescind historic problems. She reflects on the Native American culture as utilizing similar technologies to restore tribal culture, language and STEM related teachings. Green states, "Anishinaabemowin Language is taught online and email is utilized as a form of communication between faculty and students. Green's most useful recruitment tools are the list serve and the interest of Native American students within the delegated groups on campus.

Stem Opportunities - NSF

The National Science Foundation (NSF) and Department of Energy (DoE) are collaborating to promote the development of human resources in Science, Technology, Engineering and Mathematics (STEM),

Science Undergraduate Laboratory Internships (SULI) Target undergraduate students who have not had an opportunity to work in advanced scientific research environment, especially students belonging to groups underrepresented in fields of STEM. The SULI program incorporates both an individually mentored research component and a set of enrichment activities, which include lectures, classroom activities, career guidance and planning, and field trips. Additional information is available at: <http://www.scied.science.doe.gov/scied/erulf/about.html>

Faculty and Student Teams (FaST) Provides opportunities for college professors and students to participate in a 10 week highly interactive and stimulating immersion experience in a research environment and DoE laboratory. This program encourages a sustainable professional relationship between the faculty and laboratory investigators. Workshops and training minimize the "culture shock" of working in a national laboratory setting. Additional information is available at: <http://www.scied.science.doe.gov/scied/fast/about.html>

Pre-Service Teacher (PST) Internships target students who are preparing to become teachers of STEM at elementary and secondary schools. In addition to the research component found in the SULI program, the students are guided by a resident Master Teacher to learn how to transfer their newfound scientific research expertise to the classroom. This culminates in each student writing an educational module based on his or her research, which incorporates science standards and benchmarks. Additional information is available at: <http://www.scied.science.doe.gov/scied/PST/about.htm>

Upcoming STEM Conferences and Workshops

College Horizons Workshop Colorado State University June 12-17 and University of Rochester June 26-July 1, 2011.

Visit: <http://collegehorizons.org/>

SEEDS Field Trip Florida Everglades May 22-26, 2011 Contact Melissa Armstrong by Email: Melissa@esa.org

SEEDS Jornada LTER Field Trip Las Cruces, NM Deadline May 9, 2011 Visit: www.esa.org/seeds

ESA Annual Meeting Austin, TX, August 7-13, 2011 Visit: <http://www.esa.org/austin/>

Eco-Informatics Summer Institute (EISI) Visit: <http://eco-informatics.engr.oregonstate.edu/>

First Americans Land-grant College Organization and Network (FALCON) Consortium Denver, CO October 22-25, 2011.

Contact John Phillips at (573) 234-2064 or Email: johnphillips@mchsi.com

Grants Management Workshop Golden Nugget Hotel & Casino Las Vegas, NV \$125.00 per person, \$75.00 if from Tribal Colleges

Visit: <http://www.crdnet.org/>

NASA Pre-Service Teacher (PST) This opportunity is for Pre-Service Teachers to earn a \$500 stipend for two weeks at NASA AMES Research Center in Mountain View, CA. Deadline May 6, 2011 Contact: Sharon Ramirez by Phone: (559) 278-0432, Fax: (559) 278-0142, or email sramirez@csufresno.edu

STEMtech 2011 October 2-5, 2011 JW Marriott, Indianapolis, IN. Discounted rate "cut-off date" for the host hotel is Friday, September 2nd. Contact Ed Leach by Email: leach@league.org Phone: (480) 705-8200 x 233 for additional information regarding the conference.

Student Opportunities

Indian Land Tenure Foundation (ILTF) Visit: <http://iltf.org>

NASA 2011 Summer Internship Research Experience in Geospatial Technology and Climate Change for Tribal College Undergraduate Students and Faculty Visit: <http://intern.nasa.gov>

NASA National Community College Aerospace Scholars (NCAS) NASA's Johnson Space Center, the Minority University Research and Education Program and the Exploration Systems Mission Directorate are pleased to announce the upcoming year of National Community College Aerospace Scholars, a program specifically for community college students across the nation interested in STEM fields. Online Application Deadline June 2, 2011. Email: jsc-ncas@mail.nasa.gov include name, school name, school address and how many brochures you would like. Visit: <https://aerospacescholars.jsc.nasa.gov/NCAS/>

Contact Deborah Hutchings by Phone: (281) 483-8623

Organization for Tropical Studies - Native American Pacific Islander Research Experience (OTS-NAPIRE) Program was created to introduce Native Americans and Pacific Islander undergraduate students to the biodiversity of the tropics. Summer program will be held in Costa Rica from June 6 - August 1. Phone: (919) 684-5774, Email: ots@duke.edu Visit: <http://www.ots.ac.cr/>

Quality Education for Minorities (QEM) Network Internship Program Science policy-focused student internships and Science Education Internships. Visit: <http://qemnetwork.qem.org/internship.htm>

UDALL Native American Congressional Internship Ten-week summer internship in Washington, D.C. is for Native American and Alaska Native students who wish to learn more about the federal government and issues affecting Indian Country.

Visit: <http://www.udall.gov>

UDALL Scholarship This \$5,000 scholarship is awarded to 80 undergraduate sophomores and juniors pursuing careers related to Tribal Public Policy, Native Health Care, or the Environment. Interested students should contact the Udall Faculty representative for their institution. Visit: <http://www.udall.gov>

US Department of Energy Tribal Energy Program provides renewable energy education and training opportunities for Native Americans. Contact Sandra Begay-Campbell at (505) 844-5418 or Visit: <http://energy.gov>

US Department of Energy (DOE) Office of Energy Efficiency and Renewable Energy (EERE) is accepting applications for two new research fellowships. Application deadline June 30th. Visit: http://www.eere.energy.gov/education/postdoctoral_fellowships/

US Fish and Wildlife Service (USFWS) & Student Conservation Association Tribal Youth Intern Program for students enrolled in a Tribal Colleges or other two-year or four-year colleges Email: admissions@thesca.org

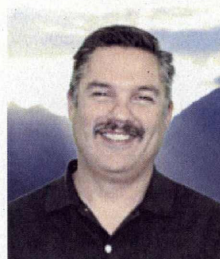
ANLSAMP Partner Institutions

Blackfeet Community College
 Central Michigan University
 Chief Dull Knife College
 College of Menominee Nation
 Comanche Nation College
 Dine College
 Fond du Lac Tribal College
 Fort Belknap College
 Fort Berthold Community College
 Fort Peck Community College
 Haskell Indian Nations University
 Heritage University
 Keweenaw Bay Ojibwa Community College
 Lac Courte Oreilles Ojibwa Community College
 Little Big Horn College
 Little Priest Tribal College
 Montana State University-Bozeman

Montana State University-Northern
 Navajo Technical College
 North Dakota State University
 Northwest Indian College
 Oglala Lakota College
 Rocky Mountain College
 Saginaw Chippewa Tribal College
 Salish Kootenai College
 Sisseton Wahpeton College
 Sitting Bull College
 South Dakota School of Mines & Technology
 Southwestern Indian Polytechnic Institute
 Stone Child College
 United Tribes Technical College
 University of Idaho-Moscow
 University of Montana-Missoula
 Western Washington University



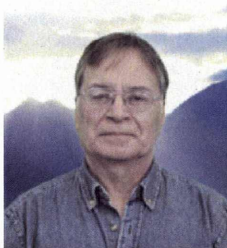
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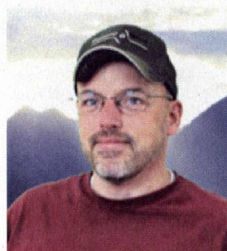
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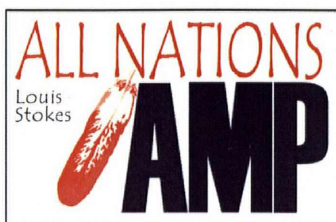
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Program Overview

The All Nations LSAMP program provides a stipend and assists with travel opportunities for eligible AMP Scholars. These benefits are limited to students enrolled in qualified STEM degree programs at our partner institutions. The ideal AMP Scholar must be enrolled in a STEM discipline. Opportunities listed are contingent upon approval for funding by the National Science Foundation (NSF).

The All Nations Louis Stokes Alliance for Minority Participation (ANLSAMP) program is funded by the National Science Foundation, with the goal of increasing the number of Native American students successfully completing degrees in Science, Technology, Engineering and Mathematics (STEM). This goal is accomplished through direct participant support and collaborations with partner institutions. ANLSAMP is designed to serve a geographically diverse alliance of 10 mainstream colleges and universities and 24 tribal colleges located within 13 states.

The All Nations AMP Newsletter is a publication designed to keep our partner institutions and others informed of ANLSAMP activities, previous project results and other relevant STEM activities. Send ideas, student success stories, research project findings or announcements for future newsletters to: Steve_Dupuis@skc.edu Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect on the views of the National Science Foundation (NSF). This material is based upon work supported by NSF under Grant No. HRD-0603199.

