

## AIHEC 2005 Winners

Join us in congratulating the following Oral - Poster Presentation and Science Bowl Team winners.

### Scientific Oral Presentation Winners

**First Place:** Zanita Fast Horse, Oglala  
Presentation: Winter Kill and Bio Mass of Painted Turtles  
**Second Place:** Sarah Wolfe, Sinte Gleska  
Presentation: Traditions Through Technology  
**Third Place:** Dawn White, Fort Berthold  
Presentation: Lung Cancer Among Native Population

### Scientific Poster Presentation Winners

**First Place:** Shannon Wetzel, Salish Kootenai College  
Presentation: Mercury Bioconcentrates of Fish from Oligotrophic Lakes in Montana  
**Second Place:** Kqyn Kuka, Salish Kootenai College  
Presentation: Differentiating Between Calf Elk Killed by Black Bear/Cougar  
**Third Place:** Amy Croover, Salish Kootenai College  
Presentation: Determination of the Antioxidant Activity of Mountain Tea  
**Third Place:** Cammille Green, Sisseton Wapeton/Oglala  
Presentation: Antioxidant Activity in Native Mint Teas Traditionally

### Science Bowl Winners

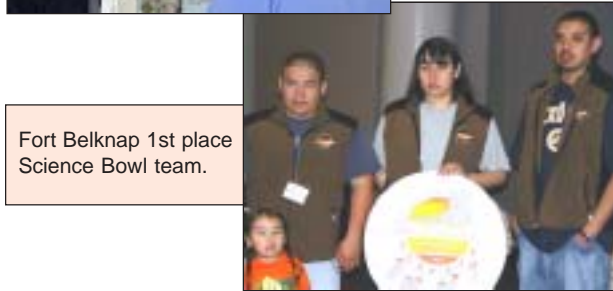
**First Place:** Fort Belknap  
Team Members: Randall Werk, Alicia Werk, and John Kinsey  
**Second Place:** United Tribes Team 1  
Team Members: Linette Crows Heart, Marla Striped Face-Collings, and Helen Reed  
**Third Place:** Blackfeet Community College  
Team Members: William Polk, Clifford Whitegrass and Timothy McKay

### continued ~ Summer Ecology Experince

The Valles introduces students to the coniferous forests of the western US, but also affords them an opportunity to discuss unique collaborative land management strategies being tested on the Valles. Students will be able to compare New Mexico's Jemez Mountain forests with the deciduous forests of northern Wisconsin managed by the Menominee Nation. As students travel from New Mexico, to Kansas, to Wisconsin, their understanding of the components and drivers of these different ecosystems will slowly build, along with their appreciation for the range of policies and practices needed for effective natural resource management.



Dr. Fred Norwood (SIPI) judging a poster by Camille Green (SWC/OLC)



Fort Belknap 1st place Science Bowl team.

## Engineering at the TCUs

On March 15 and 16, 2005, the National Academy of Engineering (NAE) conducted a workshop that was sponsored by the Working Group on Engineering Studies at the Tribal Colleges and Universities. The purpose of the workshop was to provide advice on initiating, developing, implementing, and sustaining engineering programs over the long term at the twelve TCUs that are currently members of the Working Group. A final report, scheduled for publication in the summer of 2005, will be publicly available for any academic institution that may wish to make use of it.

The committee was confronted by a number of formidable questions on which the Working Group sought advice, including ways by which Native American cultural values can be incorporated into modern engineering curricula, determining effective ways to attract and retain Native American students to engineering studies, motivating students to seek advanced degrees and pursue engineering careers, and developing financial strategies that will enable the partner colleges to sustain engineering programs for the long term.

The Working Group is grateful to the National Security Agency's Office of Diversity Management. This office provided the grant that enabled the workshop to take place. Those interested in receiving a copy of the final report should contact Lee Snapp at (281) 483-1003, or e-mail [lee.snapp-1@nasa.gov](mailto:lee.snapp-1@nasa.gov).

## ANLSAMP and NASA JSC Collaborations Continues

ANLSAMP is facilitating the donation of NASA-Johnson Space Center (JSC) surplus educational/research equipment under the provisions of the Stevenson-Wylder Innovation Technology Act of 1980 and Presidential Executive Order 12999. Under these provisions, federal agencies may donate surplus items directly to educational institutions specifically for educational purposes (not for administrative purposes). NASA-JSC gives Tribal Colleges and Universities (TCU's) precedence in receiving NASA-JSC surplus equipment. NASA-JSC updates most of their computer equipment every three years, so they have very good used computers to choose from. This program was initiated in 2004 by Jerry Elliot, an engineer at NASA-JSC and good friend to ANLSAMP and TCU's.

Last year NASA donated from eight Federal Supply Groups (FSGs) which consisted mainly of computers, office equipment, valves, electronic, and photographic equipment. This year NASA-JSC has opened up the FSGs from which they may donate items, this equates to a larger selection of items available. TCU's are encouraged to request anything they need that NASA-JSC may have in surplus inventory. Individual colleges are responsible for shipping and handling costs of the donated items from the JSC Warehouse in Houston, TX.



Vincent Kelly started work with ANLSAMP in May 2005. He has a B.S. in Applied Science and Engineering from Montana Tech of The University of Montana. Vincent is a Kootenai Tribal descendant from the Confederated Salish and Kootenai Tribes reservation located in Montana.

In 2004 the College of Menominee Nation and Blackfeet Community College received a total of 49 Dell Opti-Plex Pentium II and III desktop computers, as well as a few Dell Laptops. These systems came with monitors, keyboards, ball mice, and other peripherals. Shipping was funded by Honeywell Corporation through the assistance of AISES in coordination with individual Tribal Colleges. The coordinator of this program for ANLSAMP is Vincent Kelly. Contact him with any other questions.

Vincent Kelly  
Salish Kootenai College  
P.O. Box 70  
Pablo, MT 59855  
1-(406) 275-4756  
[vince\\_kelly@skc.edu](mailto:vince_kelly@skc.edu)

For those with access to the AIHEC STEM Resource Center on the Web, click the link to the NASA Johnson Space Center Surplus Donation Project on the home page.

### ANLSAMP Partner Institutions



Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation (NSF). This material is based upon work supported by NSF under Grant No.HRD-0000305.

### Contact Information

PI : Joseph McDonald  
Department Head : Zetra Wheeler  
Editor: Jule Kenmille  
Phone (406) 275-4800

### Website

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

### Listserv

<http://thor.skc.edu/mailman/listmanager>

July 2005

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 ~**

**Student Researcher**

**Inter-Tribal College Summer Ecology Experience**

**AIHEC Competition Winners**

**Engineering at TCUs**

**ANLSAMP and NASA JSC Collaborations Continues**

**Upcoming Conferences**

**Upcoming Conferences**

**Ecological Society of America (ESA)**  
 Conference Dates – August 7 - 12, 2005  
 Location - Montreal, CA  
[www.esa.org/meetings/](http://www.esa.org/meetings/)

**Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)**  
 Conference Dates – September 29 - October 2, 2005  
 Location - Denver, CO  
[www.sacnas.org](http://www.sacnas.org)

**American Indian Science and Engineering Society (AISES)**  
 Conference Dates - November 3-5, 2005  
 Location - Charlotte, NC  
[www.aises.org](http://www.aises.org)

**ALL NATIONS**  
 Louis Stokes  
**AMP**  
 All Nations Louis Stokes AMP  
 Salish Kootenai College  
 P.O. Box 70  
 52000 Highway 93  
 Pablo, MT 59855

**Student Researcher**

ANLSAMP helps to fund student research projects at partner institutions. Faculty researchers receive funding through a sub-contract process that allows them to hire students to work on current projects. Students benefit from exposure to faculty mentors and gain research experience. Ultimately the school, the academic community, and tribal communities benefit from what is learned through these projects. Although many students present their findings at



research conferences throughout the year, ANLSAMP likes to feature student researchers wherever possible. One such student researcher is Chris McLaughlin. Chris graduated in 2005 with two associate of science degrees from Fort

Berthold Community College (FBCC). He is Hidatsa from the Mandan, Hidatsa and Arikara Nations of Fort Berthold. The following is an excerpt from an ANLSAMP interview with Chris.

**Q:** What is your major? **A:** At FBCC it was Environmental Science and now back at Minot State University it is Education with a major in Biology.

**Q:** What role if any has mentorship played in your education? **A:** Mentorship is important, we do need someone to show us different ideas, techniques, and avenues. My instructors at FBCC did this well.

**Q:** What has been your greatest success in college? **A:** Learning about and doing some quality research on our Juneberry project to help benefit our tribes. Also receiving the ANLSAMP research grant to assist me in this endeavor throughout the semester and graduating from FBCC with two Associate of Science degrees.

(for the complete interview visit our website at <http://www.anamp.org> (student focused activities).

**Inter-Tribal College Summer Ecology Experience - Dr. Katherine Mitchell**

Nine tribal college students from Southwestern Indian Polytechnic Institute, Haskell Indian Nations University and the College of the Menominee Nation will spend two weeks this summer studying Ecology by the educational method that scientists have long used to understand the natural world – observation and data collection in the field! The field ecology experience will traverse the three ecosystems in which the participating colleges are located: the desert ecosystem of the American Southwest, the prairie ecosystem of the central Great Plains, and the northern deciduous forest ecosystem of the Midwest. Three Tribal College faculty have built the curriculum across their particular areas of expertise, and will travel with the students. Dr. Doug Eifler, Dr. Bill VanLopik, and Dr. Katherine Mitchell will be conducting the course. Field experiences have been developed to meet the following objectives:

- 1) Introduce the key ecological characteristics of each ecosystem;
  - 2) Illustrate important concepts in ecology through field exercises;
  - 3) Teach field techniques and data collection skills. Introduce quantitative measures of ecosystem properties; and
  - 4) Learn about tribal resource and environmental management practices.
- Students will arrive in New Mexico on August 16<sup>th</sup> and head to the Sevilleta, one of NSF's Long Term Ecological Research biological field stations. Located at the crossroads of several major arid ecosystems, the Sevilleta has large areas of ungrazed desert grassland. Students will be able to compare these dry grasslands with the wetter mid-grass and tall-grass prairies of another NSF research site, the Konza Prairie LTER in Kansas. The second stop in New Mexico will be the Valles Caldera Preserve in the Ponderosa pine forested Jemez Mountains of northern New Mexico.

(Continued on page 2)