

NDSU INBRE MONTHLY UPDATE

Year 2/ October 2015



OCTOBER HIGHLIGHTS

TRIBAL AIR QUALITY FIRST SAMPLES

TRAINING MODULES PROGRESS

SURP 2015 PRESENTATIONS

STUDENT SPOTLIGHT

LAUNCH OF SOCIAL MEDIA SITES

UPCOMING EVENTS

OCTOBER 23RD:
INBRE RESEARCH SYMPOSIUM,
GRAND FORKS, ND

NOVEMBER 7TH-9TH:
FIRST-AMERICANS LAND GRANT
CONSORTIUM (FALCON)
DENVER, CO

NHSC STUDENTS COLLECT FIRST SAMPLES

The six NHSC (Nueta-Hidatsa-Sahnish College) students working on the Tribal Air Quality study took their first round of samples the week of October 6, 2015. After this round of sampling was complete, they sent the samples to NDSU for analysis to determine the particulate composition. These filters were positioned near gravel roads to measure the amount of dust in the surrounding environment. The students replace the filters every twenty hours for seven days. This process began the first round of many samples to come!

TRAINING MODULES PROGRESS

The INBRE team has continued working with the tribal colleges to construct training modules tailored to the TCU instructor's desire. The first round of modules will be presented in PowerPoint format while video elements will be incorporated in later modules. The first round of modules are to be used at the TCU instructor's discretion and some of the modules in the first round will be launched this semester.

A pre- and post- assessment will also be given to both TCU faculty and students to understand how the modules increased student knowledge and interest in research. This feedback will be used to improve and develop modules on the desired topics of research TCU instructors would like to include in their courses in the second round.

The INBRE team is currently looking to make connections with other tribal college staff who may be interested in using the training modules available currently or modules that could be developed. An example, is one that has been identified by Sitting Bull College Faculty, Mafany Mongoh, is an Introduction to Geology module in which he plans to use the information in the module to make a practical application of rock formations near Sitting Bull College.

Please contact the INBRE Project Manager Pearl Walker-Swaney, pearl.walker@ndsu.edu, for more information or if someone you know at a TCU would be interested in implementing the modules in their college courses.

INBRE TEAM TO PRESENT SURP 2015 FINDINGS

On October 23rd, Vanessa Tibbitts, Pearl Walker-Swaney, and Dereck Stonefish will travel to Grand Forks to present the results of the 2015 Summer Undergraduate Research Program (SURP) at the Annual INBRE Undergraduate Research Symposium. The presentation will feature background information on the program, program highlights, weaknesses, and the current plan for improving the program for SURP 2016.

In addition, the INBRE team is excited to announce their acceptance of both an oral presentation and poster presentation at the First American's Land Grant Consortium (FALCON) Conference in Denver. Vanessa, Pearl, Dereck, and Allison will

be travelling to the conference to present the results of SURP 2015. The theme of this year's FALCON conference is "Building Native Nations through 1994 Land Grant Education, Extension and Research". The planning committee believes SURP's accomplishments and focus fit well with this theme and hope to showcase the advancements of NDSU's INBRE program. Stay tuned for a recap of both of these presentations to be featured in the upcoming newsletter!

STUDENT SPOTLIGHT: MEMPHIS BELGARDE

Memphis Belgarde is a member of the Turtle Mountain Band of Chippewa Indians. She is in her first year of school at Turtle Mountain Community College.

Memphis was a scholar of the NDSU INBRE Summer Undergraduate Research Program 2015 and has since demonstrated a strong interest in research. She is currently working as a student research assistant with Dr. Lyle Best on a study titled, "Genetics and Pre-eclampsia". Memphis hopes to continue her education and become a pediatrician. She states, "I want to do something more challenging and rewarding with my life. More doctors are needed around the world and I would love to give back to my community."

Alongside her academic achievements, she has a passion for her culture and art. In her freetime, Memphis loves to craft. She makes beaded earrings and has even finished a fully beaded wallet. We look forward to seeing what Memphis will accomplish in the years to come. Go Memphis!



(Photo courtesy of Memphis Belgarde)

STUDENT OPPORTUNITIES

The Barry Goldwater Scholarship and Excellence in Education Program

- Candidate must be nominated by a faculty representative
- Be a full-time matriculated sophomore or junior pursuing a degree at an accredited institution of higher education during the 2015-2016 academic year, and intend to pursue research careers in mathematics, the natural sciences, or engineering
- Deadline: January 22, 2016
- More information at: <https://goldwater.scholarsapply.org/>

CDC's Detective Camp

- Available to High School students
- Deadline: April 1, 2016
- More information at: <http://www.cdc.gov/museum/camp/detective/index.htm>

EPP/MSI Undergraduate Scholarship Program

- Provides scholarships for two years of undergraduate study to rising junior undergraduate students majoring in Science, Technology, Engineering and Mathematics
- Participants conduct research at a NOAA facility during two paid summer internships
- Deadline: January 26, 2016
- More information at: http://www.epp.noaa.gov/ssp_undergrad_page.html

Echoing Green Fellowships

- The Global Fellowship is for smart leaders who are deeply connected to the needs and potential solutions that may work best for their communities.
- The Climate Fellowship is specifically targeted for next-generation social entrepreneurs committed to working on innovations in mitigation and adaptation to climate change.
- Deadline: November 17, 2015
- More information at: <http://www.echoinggreen.org/fellowship>

INBRE FACEBOOK AND TWITTER

NDSU INBRE is pleased to announce the launch of its Facebook and Twitter pages!

Follow NDSU INBRE on Twitter with the address @ndsuinbre. NDSU INBRE plans to interact with students, tribal colleges, and other organizations that work to advance research at tribal institutions. Please “follow” us for student opportunities, program announcements, upcoming events, and other exciting NDSU INBRE news!

INBRE’s Facebook page may be found at this address: <https://www.facebook.com/groups/ndsuinbre/>. The INBRE team will update this page with pictures of current programs and feature students who are involved with INBRE activities. The Facebook page will also list upcoming events, opportunities, and information relevant to NDSU INBRE. Please join the NDSU INBRE Facebook group to stay updated!

NDSU NORTH DAKOTA STATE UNIVERSITY

THE INFORMATION INCLUDED IN THIS MONTH’S ISSUE IS TO PROVIDE UPDATES ON NDSU INBRE ACTIVITIES. IF YOU WOULD LIKE TO SUBMIT AN OPPORTUNITY, STORY FOR STUDENT SPOTLIGHT, OR HAVE SUGGESTIONS ON WHAT TO INCLUDE IN THE NEXT MONTHLY UPDATE, PLEASE CONTACT US!

WE VALUE YOUR INPUT!

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Hollings Scholarship Program

- Provides successful undergraduate applicants with awards that include academic assistance (up to a maximum of \$9,500 per year) for full-time study during the 9-month academic year; a 10-week, full-time internship position (\$700/week) during the summer at a NOAA facility; and academic assistance (up to a maximum of \$9,500) for full-time study during a second 9-month academic year.
- Deadline: January 29, 2016
- More information at: <http://www.oesd.noaa.gov/scholarships/hollings.html>

Senior Commissioned Officer Student Training and Extern Program

- Available to full-time students about to begin their final year of academic study or professional training. Those selected for the program will become Commissioned officers in the U.S. Public Health Service (USPHS) and receive full pay and benefits of an active duty officer for up to 12 months just for finishing their education and training.
- Deadline: December 18, 2015
- More information at: <http://www.usphs.gov/student/srcostep.aspx>

PPIA Fellowship Program

- Helps students achieve a Master’s or joint degree, typically in public policy, public administration, international affairs or a related field
- Deadline: November 1, 2015
- More information at: <http://www.ppiaprogram.org/ppia/what-we-do/junior-summer-institutes/>

NDSU INBRE FACULTY ACHIEVEMENTS

Dr. Donald Warne

- Selected as a Member of the NDSU Unmanned Aircraft Systems Advisory Panel
- Selected to serve a 1-year term on the NDSU Research Council

Dr. Bernhardt Saini-Eidukat

- 3-year term – NDSU Research Council

CONGRATS TO DON AND BERNIE!