

NDSU INBRE MONTHLY UPDATE

Year 2/ September 2015



SEPTEMBER HIGHLIGHTS

INBRE Information on MPH Website

Air Quality Sampling to Begin

Training Module Updates

SURP 2016 Updates

Student Spotlight- Lee Voigt

UPCOMING ACTIVITY

Launching Social Media

Launching First Round of Training Modules

ND INBRE Research Symposium-October 23rd, 2015
Alerus Center, Grand Forks

INBRE INFORMATION NOW ON MPH WEBSITE

Information for the NDSU INBRE program can now be found on the NDSU MPH website at <https://www.ndsu.edu/publichealth/inbre/>. The webpage aims to familiarize stakeholders and interested parties on information regarding the mission, vision, team members, and projects. Updates can be found in the monthly newsletter as well as the webpage. The NDSU INBRE staff are still working to create a separate webpage for the INBRE program and hope to have this completed soon!

AIR QUALITY STUDY SAMPLING TO BEGIN IN OCTOBER

In August 2015, students from Nueta-Hidatsa-Sahnish College (NHSC) were trained on particulate matter sampling (e.g. PM_{2.5}, PM₁₀) for the Tribal Air Quality Pilot Project. Lee, a student in the Environmental Science Program at NHSC, will be working alongside Dr. Kerry Hartman, Chair of the NHSC Science Department, NDSU INBRE researchers Dr. Saini-Eidukat, Dr. Rahman, and NDSU undergraduate student Sean Ternes.

Two students, James Medeiros and Lee Voigt, have been working with faculty to begin sampling preparation this month. Currently, the students have started the pre-conditioning process which involves preparing the filters for use with air sampling. The conditioning process will be completed this month. The sampling was delayed this month due to the ordering and conditioning of filters that precedes collecting samples. The students will then take the filters to six different sites in Fort Berthold to start collecting samples in October.

TRAINING MODULE IMPLEMENTATION

A pre and post assessment of the modules have been developed and will be given to students and instructors at the TCUs. These will help to evaluate the modules used by the TCU professors in their classrooms and how the modules have impacted research knowledge. This evaluation will help the NDSU INBRE team determine the immediate impact of the training modules and will help to make modifications for future module development. The evaluation will be done in person through site visits to each of the TCUs. An alternative for students that are not available during these site visits will be to have the evaluations available for TCU students and staff in an online format, using a web-based program such as Qualtrics. The launching of the first round of modules will commence in October. The development of other modules will include input from TCU professors on the research topics they've identified as a benefit to their students, further development of existing modules, and investigating where modules can be used to meet the needs of research knowledge in TCU classrooms.

SURP 2016 UPDATES

The SURP planning team met this month to revisit a drafted schedule for the SURP 2016 program. This version of the program would include a more structured approach to research training and exposure, Indigenous Research Methodologies, professional development, and graduate school 101. The program would still include lab tours, research seminars and presentations, a research proposal, and presentation to the group upon conclusion of the program. Alongside these plans for the program, members of the planning team have made connections that would strengthen the program for 2016.

The Center for Protease Research, a COBRE funded center, hosted an Open House event in which planning team members attended. This created a connection to key contacts in the Center for Protease Research that are willing to provide technical and educational trainings for undergraduate students in the program. Making the connection to the managers of the Core Biology Facility and Core Chemistry Facility will be a vital piece in strengthening the program for 2016. Another connection made this month are the opportunities through the McNair Scholars program. For students in SURP, learning about opportunities available at NDSU will give them more support before matriculating to NDSU. Program dates for SURP 2016 are TBD as planning and engaging key stakeholders will be the focus in the upcoming months.

STUDENT SPOTLIGHT – LEE VOIGHT

Lee Voigt (*MHA Nation*) is one of the TCU students currently involved with the Tribal Air Quality study in Fort Berthold. Lee is an Environmental Science major at Neuta-Hidatsa-Sahnish College.

Lee along with the NHSC students and Dr. Hartman will collect air samples of PM_{2.5} and PM₁₀ at various selected sites in Fort Berthold. The PM samplers can run for up to 20 hours before the sampler filters need to be changed. Lee and NHSC students are going to set up the PM samplers at the selected sites, change out the filters, record wind speed, direction, and take note of weather patterns.

Lee is enthused to be a part of this project and apply his interest for the environment to research. He is near the end of his undergraduate degree in Environmental Science at NHSC and has future plans to continue pursuing his interest for the environment. He has a

STUDENT OPPORTUNITIES

The Department of Energy Scholars Program

- Must be 16 to apply
- Receive weekly stipend
- Targets students from a variety of backgrounds
- Deadline is December 15, 2015
- More information found at: <http://orise.orau.gov/doescholars/>

Intramural NIAID Research Opportunities (INRO) Program

- Learn research training from the National Institute of Allergy and Infectious Diseases'
- Paid expenses for travel and hotel accommodations, will be reimbursed for food
- Deadline is October 15, 2015
- Apply at: http://www.niaid.nih.gov/labsandresources/labs/training/inro/Pages/programDescription.aspx?utm_source=CC&utm_medium=email&utm_term=uni&utm_content=Sept22&utm_campaign=INRO2016

Mobil App Competition

- Prizes include all-expense paid trip to the National AISES Conference 2015
- Deadline is October 19, 2015
- Apply at: <http://www.aises.org/content/aises-mobile-app-competition-sponsored-intel>

North Star AISES Alliance & Professional Chapter Travel Scholarship

- \$700 scholarship for travel, limit 2 scholarships per college
- Apply ASAP
- Apply at: <https://docs.google.com/forms/d/16fGOv9maWw-x3WgeVpua7QdWt-vkLAoYcxucWYgIEmc/viewform?c=O&w=1>

passion for understanding environmental impacts on health in the community, such as gas flaring and hydraulic fracturing impacts on individual and community health. Though the research on these topics in relation to North Dakota are miniscule, he foresees the Air Quality Project as a guide for the research team and the community towards a better understanding of the environmental impacts over time. Aside from research and environmental science, Lee is a father and Strength and Conditioning Coach for athletic teams at NHC. Keep Lee on your radar as a rising leader and researcher!

INTERESTED IN AN MPH PROGRAM?

The NDSU INBRE staff would like to welcome our readers to ask questions about the Master of Public Health program at NDSU. As we keep you up to date with the INBRE happenings at NDSU, we would also invite anyone interested in the MPH program to contact the INBRE team for more information.

The NDSU MPH program has four different specialty tracks:

- Health Promotion
- Public Health in Clinical Systems
- Management of Infectious Diseases
- American Indian Public Health

Additionally, Stefanie Meyer, the MPH academic coordinator, will be happy to answer any questions you may have! You may reach stephanie at stefanie.meyer@ndsu.edu. The website for the program can also be found at the following address: <https://www.ndsu.edu/publichealth/>.

Nursing Workforce Diversity (NWD) Program

- Grant opportunity
- Deadline is November 16, 2015
- More information found at: <http://www.grants.gov/web/grants/view-opportunity.html?oppId=279044>

Science Ambassador Scholarship

- Apply at: <http://www.scienceambassadorscholarship.org/>

U.S. Forest Service Native American Research Assistantships Program

- 3 to 5 month appointment (2016)
- \$5,000 living stipend
- Deadline is October 26, 2015
- For more information contact: Msimmons@wildlife.org

UPCOMING EVENTS

- Oct. 12th-14th:
Pathways Into Health 8th National Conference
Seattle, WA
- Oct. 14th-17th:
NIEA Annual Convention
Portland, OR
- Oct. 22nd-24th:
American Indigenous Research Association
Conference
Salish-Kootenai College
- Oct. 23rd:
Annual INBRE Undergraduate Research
Symposium
Grand Forks, ND – Alerus Center
Link:
<http://ndinbre.org/ndinbreannualmeeting.htm>
- Oct. 23rd:
Annual American Indian Health Research
Conference
Grand Forks, ND – Alerus Center
- Oct. 29th-31st:
SACNAS Conference 2015
Washington, D.C.
- November 7th-9th:
First-Americans Land Grant Consortium
(FALCON)
Denver, CO

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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