

**Sent:** Monday, November 13, 2017 2:47 PM  
**To:** NDSU-EMPLOYEE-OFFICIAL@LISTSERV.NODAK.EDU  
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### Welcome to the Research and Creative Activity Update!

To share information quickly rather than through multiple emails, we will be providing weekly updates for researchers, scholars and staff to keep up-to-date on grant program changes, deadlines, notices and training, with links to expand the information you may be interested in. Thank you for your contributions to research and creative activity at NDSU.

These weekly email updates are archived on the [RCA Website](#).

### FUNDING OPPORTUNITIES

- [Limited Submission Program: NIH Research Education: Initiative for Maximizing Student Development \(IMSD\) \(R25\)](#)
- [Center for Computationally Assisted Science and Technology \(CCAST\) – Request for Proposals](#)

### NOTICES

- [Changes to Grant Email Alerts from Grants.gov](#)
- [NDSU EXPLORE Award Winners Announced](#)

### EVENTS

- [NSF Fall 2017 Virtual Grants Conference](#)
- [Forums on Research and Creative Activity](#)
- [Proposal and Award Management Session #8](#)
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### Limited Submission Program: NIH Research Education: Initiative for Maximizing Student Development (IMSD) (R25)

[Limited submission grant programs](#) are those that indicate a limit on the number of proposals that may be submitted by an institution for a particular deadline. A selection process becomes necessary if more applicants express interest in applying than NDSU is allowed to submit to the grant program.

[NIH Research Education: Initiative for Maximizing Student Development](#): **Notify RCA by 11/27/2017, 5:00 p.m.**

The NIH Research Education Program (R25) supports research education activities in the mission areas of the National Institutes of Health (NIH). The over-arching goal of this NIGMS R25 program is to support educational activities that enhance the diversity of the biomedical workforce. To accomplish the stated over-arching goal, this program will support creative educational activities with a primary focus on research experiences and ***courses for skills development***. *Agency application deadline: January 26, 2018.*



### Center for Computationally Assisted Science and Technology (CCAST) – Request for Proposals

Research proposals for energy related work that makes good use of NDSU's upgraded computational facilities are being requested, with funding coming from a Department of Energy grant. It is anticipated that three to five awards of up to \$50,000 each will be made. The funding available is approximately \$200,000.

The deadline is noon on Monday, December 4, 2017. Proposal requirements and contact information for any questions are detailed in the [Request for Proposals](#).



### Changes to Grant Email Alerts from Grants.gov

The free-to-use Grants.gov system houses information on over 1,000 grant programs and vets grant applications for federal grant-making agencies. With an upcoming software upgrade, Grants.gov has [redesigned its Opportunity Subscription Management feature](#), giving users more control over email notifications about funding opportunities. This will impact users who receive Grants.gov email notifications generated from saved search criteria. **This data will not be carried over to the new subscription management system.** The enhancement, when it is deployed on November 20, will deliver new customization options to everyone, including expanded criteria for saved searches and the ability to view and manage existing subscriptions. If you have been receiving grant email alerts from Grants.gov, check this out.



### 2017 NDSU EXPLORE Award Winners Announced

The 2017 NDSU EXPLORE Showcase of Undergraduate Research and Creative Activity was held on November 1 in the Memorial Union. This marked the fourth year of the undergraduate showcase, where students from across campus come together to present their original projects in oral and poster presentation sessions.



The award winners include:

#### Morning Oral Presentations

##### First Place

Sierra Walker | Chemistry and Biochemistry  
“AIF: A Universal Regulator on Cell Redox Signaling”  
*Advised by John C. Wilkinson*

##### Second Place

Mitch Musel and Noah Thompson | Architecture and Landscape Architecture  
“Designing Pervasive Energy Games to Impact Behavior”  
*Advised by Malini Srivastava and Michael Christenson*

##### Third Place

Noor Abdelhamid and Benjamin Dalton | Architecture and Landscape Architecture  
“Energy Analysis through Visualization”  
*Advised by Michael Christenson and Malini Srivastava*

#### Morning Poster Presentations

##### First Place

Alexandra Howatt and Isabel Krum | Sociology and Anthropology

"Healthy Women are Beautiful Women: Health and Beauty Practices at the Crystal Palace"

*Advised by Kristen Fellows*

### **Second Place**

Lauren McIntosh | Health, Nutrition, and Exercise Science

"Effects of L-arginine and Exercise on Heart Rate Variability"

*Advised by Kyle Hackney*

### **Third Place (Tie)**

Janell Burkart and Tammy Joe | Health, Nutrition, and Exercise Science

"Biomechanical Analysis of Hip Angles during a Back Squat with and without Kinesio® Tape"

*Advised by Katie Lyman*

Alexandra Sherrard | Health, Nutrition, and Exercise Science

"Physical Activity Reduces Subcutaneous Adipose Tissue in Older Adults"

*Advised by Sherri Stastny*

### **Honorable Mention**

Michala Palmersheim | Biological Sciences

"Sub Lethal Effects of Neonicotinoids on the Alfalfa Leafcutter Bee (*Megachile rotundata*)"

*Advised by Julia Bowsher*

Braden Weight | Chemistry and Biochemistry

"Mixing of Covalent and Noncovalent Functionalization of Single-Walled Carbon Nanotubes"

*Advised by Svetlana Kilina*

### **Afternoon Oral Presentations**

#### **First Place**

Nathan Johnson | Electrical and Computer Engineering

"Manipulation of Biological Matter Using Electrodeless Dielectrophoresis"

*Advised by Dharmakeerthi Nawarathna*

#### **Second Place**

Thomas Blommel | Physics

"Lattice Gas with Monte Carlo Collision Operator Recovers Lattice Boltzmann Method"

*Advised by Alexander Wagner*

### **Afternoon Poster Presentations**

#### **First Place**

Erin Richards | Chemistry and Biochemistry

"Mec1- Independent Phosphorylation of Rpa2 N-terminus in the DNA Damage Response"

*Advised by Stuart Haring*

#### **Second Place (Tie)**

Ryan Bares and Jesstin Krech | Mechanical Engineering

"Advanced Optical Diagnostics for Airflow Studies at NDSU"

*Advised by Jordi Estevadeordal*

Alexis Hoopman | Biological Sciences

"Toxicity Assessment of Glyphosate on Honey Bee (*Apis mellifera*) Spermatozoa"

*Advised by Julia Bowsher*

#### **Third Place**

Ryan Callahan | Microbiological Sciences

"Characterization of LIPI-3 Positive *Listeria monocytogenes* in the Upper Midwest"

*Advised by Teresa Bergholz*

### **Honorable Mention**

Kathryn Bartholomay | Chemistry and Biochemistry

“Effects of Sex on the Metabolism of Flunixin in Beef Cattle”

*Advised by Nancy Shappell, USDA*

First place awardees will receive travel funding to present their research at a national conference.

For more information about NDSU EXPLORE, [visit the NDSU EXPLORE webpage](#), or [find event pictures and other information on Facebook](#).



### **NSF Fall 2017 Virtual Grants Conference**

The National Science Foundation will live stream the plenary sessions of the Fall 2017 NSF Grants Conference November 13-14, 2017. Agenda topics include Proposal Preparation, the Merit Review Process, Award Management, NSF Policy Update, and the NSF CAREER Program. To view the complete schedule and to register to attend the conference virtually, visit the [conference website](#).



### **Forums on Research and Creative Activity**

Please join Vice President for Research and Creative Activity, Dr. Kelly Rusch, throughout the semester for a conversation on research and scholarly activities. While there is no agenda for the forums, Dr. Rusch would like to engage in dialogue and hear your thoughts on growing the research, creative activity and scholarly enterprise on campus as we work to meet the Strategic Plan. These forums are scheduled for the following times:

- Nov. 15, 2017 | 11:00 a.m. – 12:00 p.m. | Barry Hall Eide Bailly Conference Room
- Dec. 7, 2017 | 1:00 p.m. – 2:00 p.m. | Minard Hall 302



### **Proposal and Award Management Session #8**

The next session in the Proposal and Award Management series will be held on **Thursday, November 16 from 11:00 – 11:45 a.m. in the Quentin Burdick Building (QBB), room 422**. The topic area for this meeting is Cost Sharing, Effort Reporting, Recharge Centers, and Service Centers.

These sessions are being offered monthly by Sponsored Programs Administration (SPA) and Grant & Contract Accounting (GCA). These sessions will provide information and training on topics that are relevant to various aspects of proposal submission and award management. Anyone that participates in any way or has an interest in proposal or budget development, routing and submission of proposals, processing or approving expenditures on awards (allowable costs, payroll, equipment, materials, etc.), overall award management, award compliance, locating funding opportunities or electronic research administration is encouraged to attend. These sessions are open to all faculty, researchers, and staff. Materials from the sessions are available on the [Sponsored Programs Training](#) website.

The QBB room is enabled with videoconferencing (IVN), so if you need to participate via IVN, please contact Faye Klein in SPA (231-8045 or [faye.klein@ndsu.edu](mailto:faye.klein@ndsu.edu).) IVN participants will need to reserve their site and let Faye know so that SPA can set up for each requesting site. SPA will need the room name and the IP address no later than 10:00 a.m. the day prior to the session. Participants who cannot attend in person or via IVN may be able to connect in two other ways:

1. directly from their laptop or desktop computer using a specific software application, or
2. via an audio connection that can be added to the IVN event.

Participants via personal computer or audio-only will want to contact Faye as soon as possible to ensure adequate time for connections, configuration, and testing.

Note: Although Sessions are scheduled to be completed within 45 minutes, SPA and GCA representatives will be available for at least 15 minutes after each Session in order to answer any additional questions that participants may have.



### **Gear up for Grants: Grant Writing Workshops**

Lucy Deckard, a consultant with [Academic Research Funding Strategies, LLC](#), will present a series of grant writing workshops in November:

#### **Gear up for Grants: Pursuing Funding for Large Team and Center Grants**

*Monday, November 20, 2017 | 8:30 a.m. – 12:30 p.m. | Memorial Union, Badlands Room*

This workshop is interactive and geared toward mid-career and senior faculty who are ready or considering applying for large team or center grants within the next few years.

Workshop spots are limited. [Register for this workshop >>](#)

#### **Gear up for Grants: How to Write Successful Grants for Instrumentation**

*Tuesday, November 21, 2017 | 8:00 a.m. – 10:00 a.m. | Memorial Union, Room of Nations*

This session discusses grants that fund instrumentation and equipment and how to develop a successful proposal for these types of grants.

[Register for this workshop >>](#)

#### **Gear up for Grants: Pursuing Funding in the Humanities and Social Sciences**

*Tuesday, November 21, 2017 | 10:30 a.m. – 12:30 p.m. | Memorial Union, Room of Nations*

This session discusses the types of funding available to support research in the humanities and humanities-related social sciences and how to be competitive when applying for these opportunities.

[Register for this workshop >>](#)



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