

North Dakota Space Grant Consortium
13th Annual Affiliates Meeting
NDSU

April 13-14, 2018

Business Meeting Notes

The full presentation can be found here:

[PowerPoint](#)
[PDF](#)

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We request affiliates to complete this short survey to improve next year's performance: <https://goo.gl/aoKfC3>

Affiliate Institutions

University of North Dakota
Bismarck State College
Cankdeska Cikana Community College
Dakota College at Bottineau
Dickinson State University
Gateway to Science Center
Lake Region State College
Mayville State College
Minot State University
North Dakota Heritage Center & State Museum
North Dakota State College of Science
North Dakota State University
Nueta Hidatsa Sahnish College
Sitting Bull College
Turtle Mountain Community College
United Tribes Technical College
Valley City State University
Williston State College

Quick Overview of Awards in FY17

- **108 NIFS awarded** (56% female, 30% underrepresented minorities)
 - 6 Summer NASA Internships
 - 14 Student Research Fellowships
 - 87 Scholarships awarded (55% female, 34% underrepresented minorities)
 - 4 American Indian Scholarships
 - 1 Pearl I. Young Scholarship (UND)
 - 4 Summer Faculty Fellowships awarded
- **Higher Education**
 - 6 Travel Grants
 - 13 college teams supported for NASA Competitions
 - 6 STEM Ambassadors employed
 - 9 Graduate Research Assistantships
- **Pre-College**
 - 3 FIRST Robotics Teams supported
 - 6 Near-Space Balloon Competition teams supported
- **Education**
 - 2074 individuals in K-12 outreach events
 - 2258 individuals reached with informal education
 - 90 in-service teachers reached
 - 150 pre-service teachers reached
 - 40 students attended space camp

Budget and Funding Updates

Business Meeting

- Budget Updates
 - FY 17: base award \$300,000
 - Augmentation award \$270,000
 - Total \$570,000
- Office of Education → **Office of STEM Engagement**
- Period of Performance ends April 22
- Waiting for official grant renewal
- Cramer, Heitkamp, and Hoeven all supportive of the program

Funding Update

- ▶ **Three year grant:** April 22, 2015 – April 21, 2018:
 - ▶ FY15: \$430,000
 - ▶ FY16: \$300,000 + \$270,000 augmentation
 - ▶ FY17: \$300,000 + \$270,000 augmentation
- ▶ **State Match:**
 - ▶ FY15: \$200,000
 - ▶ FY16: \$200,000
 - ▶ FY17: \$200,000
- ▶ **Blanket Extension Grant (expected prior to April 22nd)**
 - ▶ Expected POP: April 22, 2018 – April 21, 2019
 - ▶ Submitted proposal for one year extension in October 2017
- ▶ **Upcoming Five Year Proposal Solicitation**
 - ▶ Anticipated due date: Fall 2018?
 - ▶ Incorporate input from Flipped Session



Student Fellowships

Business Meeting

- Student Fellowships

# of Applicants	FY17	FY16
Summer	11 UND-10, NDSU-1	20 UND-10, NDSU-9, VCSU-1
Fall	16 UND-12, NDSU-3, VCSU-1	10 UND-5, NDSU-3, DSU-1, BSC-1
Spring	6 NDSU-4, UND-2	7 UND-3, NDSU-3, UTTC-1

- Encourage students to apply for research fellowships
- New guidelines on website
- Increasingly competitive
- *Application deadline has been extended*

- Deadlines:
 - Summer – TBA
 - Fall – August 15
 - Spring – December 5

Business Meeting

- **Fellowship Bridge Program**

- Any student from a 2-year or Tribal College who is transferring to a 4-year school
- Encourage all to apply
- First successful transfer in summer of 2017
 - Appropriate faculty mentor was crucial
 - Encourage living/visiting on campus
 - Communication is key, structured outlines
 - Enjoyed the program

Bridge Program Discussion

- When solicitations are posted (hoping for early May), we will have a shorter review period to give students the maximum amount of time to prepare.
- Ideas: create a position for a **graduate student mentor**
- Students could work in a student team to conduct research, instead of individual work that may be intimidating.
- Helpful to work with faculty mentors who know how to work with **undergraduates**, or are willing to learn (like younger faculty). Graduate student-oriented professors may not be the best selection.
- Students can also transition from undergrad into grad school, at the **same institution**.

Competition Teams and NASA Internships

Business Meeting

- NASA Competition & HS Teams
 - New application deadline for everyone, **November 6**
 - *Last year - 13 applicants (2 new!)*
 - Highly encourage college teams from outside UND and NDSU
- NASA Internships
 - Encourage students from affiliate institutions to apply
 - \$6500 UG, \$8000 graduate students
 - **2018 ND Summer applicants: 30 total**
 - 2017 ND Summer applicants: 34 total
 - 2016 ND Summer applicants: 25 total



Competition Teams Discussion

- Remember the newly established **fall deadline** (Nov 6)
- UND faculty (like rocketry) are willing to help new start ups

NASA Internships Discussion

- NASA wants to work with students that have a flexible schedule, such as family responsibilities (proposed a ~4 week stay at the center, instead of ~10 weeks.)
- NDSGC is willing to fund these students
- Need to advertise opportunities like graphic design internships at NASA. We don't advertise a lot of non-STEM programs. NDSGC is willing to fund these students.
- Single parents have issues with finding day care for short periods of time near internship locations. We will look into flexible, temporary daycare. We will contact NASA to see if they can add temporary child care information into their information packets. NDSGC will explore this.
- Internships should also accommodate all individuals who may have a disability.

Scholarships

Scholarships

- ▶ Excel Spreadsheet
 - ▶ Worked great for those who used the spreadsheet, thanks!
 - ▶ Will expedite scholarship disbursements in FY18
- ▶ Does your institution need anything changed on our application advertisement? We can edit the website, too!
 - ▶ (Some institutions add essay requirements)

Student Name	ID Number	Male/Female	Email Address	Major	Minors	Ethnicity	Date of Birth

Scholarship Discussion

- Add primary and secondary email addresses to increase longitudinal tracking

Travel Grants

Business Meeting

- ▶ **Student Travel Grants**
 - ▶ Travel to conferences to present research or attend hands-on workshops
 - ▶ \$500 awards
 - ▶ Rolling applications to change to each semester
 - ▶ Previous years' applicants from UND and NDSU
 - ▶ Encourage students at affiliate institutions to apply!



STEM Ambassadors



STEM Ambassadors

- Students funded to visit and conduct outreach
 - K-12 schools, library events, museums, public outreach events
- **STEM Education majors encouraged!**
- Encourage students to apply – we can visit classrooms
- Normally, applications due May 31st. Paused advertising until budget is finalized.



2015-2018

STEM Ambassadors Discussion

- We need to assess the overall impact and effectiveness of the STEM Ambassadors program. We could present teachers with a short survey to capture the short-term impact. More extensive analysis would need IRB action.
- We could train faculty mentors at the affiliate institutions to be able to monitor/oversee their local STEM Ambassadors.

Educator Opportunities



Business Meeting

- **Educator Opportunities**
 - Internal
 - Pre-service and In-service STEM Education
 - Commonly 1-3 hours long
 - Upcoming in-service teacher workshop at UTTC in **July 2018**
 - Can offer Professional Development credits
 - Space Camp for students
 - External
 - Space Camp for Educators
 - Marshall Space Flight Center, Houston Space Center, Kennedy Space Center



Educator Opportunities Discussion

- This summer, we will hold an in-service workshop on July 20-21st at United Tribes Technical College
- Institutions near a border can involve educators from outside ND. We just can't reimburse their travel or hotel room(s). We will still provide food. We can work with other space grants to see if they are willing to reimburse this student. For example, MT Space Grant may partner with Williston educators.

Group Discussion

Following Up

- We will email out the [survey](#) that will establish contacts, dates for travel, etc.
- We can visit your school and give a presentation to interested students. (Last fall, Caitlin and Marissa gave a 30-min talk about all Space Grant opportunities at NDSU, which *doubled* the number of NDSU applicants in the spring/summer).
- Space on the Prairie – in the past, this was separate from the business meeting
 - What was it?
 - 2004/2005 was one of the last conferences at UND
 - Students led poster presentations
 - This was more of a pre-event to the business meeting or active presentations
 - Perhaps we could tie in the workshop aspect to future meetings
- Group consensus on future meetings
 - At meetings like this, we're talking to individuals already aware of Space Grant opportunities. In the future, we could invite students from host-institutions who are eligible to participate.
 - Everyone enjoys like seeing student projects
 - A short business meeting isn't as good; some individuals already have to stay overnight because of the length of their drive. It will already be a two-day event for them, so we might as well take advantage with presentations.
 - This is a good opportunity for students to present; they can pass on the word of other activities to other students
 - Affiliates could bring students with them as well, to shadow.
- Poster Session
 - Students could mail us their presentations even if they can't make it
- 2019 Meeting and Dates
 - [Minot State University](#) (John Webster) has volunteered to host the 14th annual meeting
 - Discussion on when to host (finals week, students' schedules)
 - April is okay, not too late because of projects
 - April 21, 2019 is Easter weekend
 - **Early April is best.**
 - Marissa will send out a poll in the fall of 2018.
- Next Grant
 - We will reach out when we need to include support letters and programmatic ideas for the next proposal
 - We can hold a web call to brainstorm and hear from everyone