Welcome to the North Dakota Space Grant 14th Annual Affiliates Meeting

March 22-23, 2019



Jim Casler Director

Caitlin Nolby Deputy Director

Marissa Saad Coordinator

Host: John Webster Minot State University Minot, ND Good Morning!

Saturday, March 23, 2019

Agenda – Saturday, March 23, 2019

- ▶ Today, we're going to:
 - Enjoy some breakfast
 - Hear from Marlin about future SG Goals
 - Listen to three student presentations
 - Phew, take a break, and quick take a group photo!
 - Last but not least, hear about four more experiences
 - Are you hungry? Lunchtime!
 - Business Meeting (for all!) Good things are happening!
 - Reimbursements!



Student Presentations

Business Meeting

Business Meeting

- Review action items and recap from last year's business meeting
- Budget Updates
- > NIFS
- Visits to Affiliate Institutions
- Educator Workshops
- Reimbursement Information

Discussion from last year:

- Bridge program
 - New: invite students who are transferring from one degree program to another (AS to BS, BS to MS, etc.). This can be at the same institution.
- NASA Internships
 - Advertise to non-STEM students, such as graphic designers, communications, etc.
- Student Involvement
 - Career fairs and presentations to student groups across ND (affiliate representation at fairs)
- Communication
 - Student feedback: make opportunities easier to find on websites
 - Update: new NDSGC website this summer
- Meetings
 - Keep it at two days; if it was a one day meeting, many people have to travel far, making it a two-day trip anyways
 - ► Invite prospective students to affiliate meetings
 - 2018: early April works best (room availability is a big issue)

National Updates

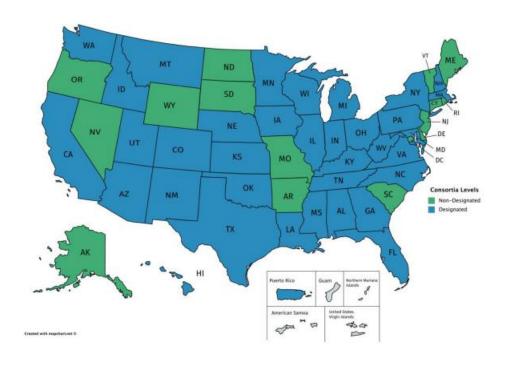
Updates from the National Meeting

- Office of Education -> Office of STEM Engagement
- Congress awarded Space Grant \$44 million for FY19 (\$4 million increase from FY18)
- FY18 Period of Performance for NDSGC ends: 4/22/19
- NDSGC Period of Performance for FY19: 4/23/19 4/22/20
- Waiting for official grant renewal as of 3/21
- Visited DC: Cramer and Hoeven are very supportive; we introduced SG to Armstrong
- NASA's National Update PDF online here
- Four-year solicitation
 - ▶ To be released: Late Summer/Early Fall 2019
 - Proposals due: Late Fall 2019 (Will ask for letters of support)
 - Increased focus on NASA Mission Directorates: 1) Aeronautics, 2) Human Exploration & Operations,
 3) Science, 4) Space Technology

How we are awarded funding:

FY18 FUNDING STRUCTURE

Status	Number of Awards	Award Value	Award Total	
Designated	35	\$760,000	\$26,600,000	
Non- Designated	17	\$570,000	\$9,690,000	
		Grand Total	\$36,290,000	



NOTE: Funding does not include U.S. VI and Guam as separate Consortia; they are serviced by South Carolina and Hawaii Space Grants respectively

Designation Status

HISTORY OF SPACE GRANT CONSORTIA DESIGNATIONS

- The first Space Grants represented 21 states, became known as Designated once Congress directed Space Grant expand into more states by offering Program Grant and Capability Enhancement (i.e., Non-designated) -> <u>Designated status is not in the law or regulations</u>
- Congress requested that NASA expand the number of designated states through competitive means in 1999 (25 designated), 2002 (28 designated), and 2004 (35 designated). This competition allowed states to increase to the higher funding level.
- Designation status among the 52 Consortia has not changed since 2004

NASA is working out options

RECOMMENDED FUNDING MODEL - COMPETITIVE OPPORTUNITIES

- Consortia eligible for equal amounts of base funding Dissolution of Designated vs. Non-Designated
- Competitive opportunities from partner driven Mission Directorates will be available via a separate solicitation
 - Mission Directorates will provide a minimum of 1:1 matching funding
 - HEOMD (2020), STMD (2020), SMD (2021) and ARMD (TBD)

Space Grant FY2020 Competitive Funding (Guam and U.S. VI Supplemental) Funding Levels				
Budget Guideline	\$44,000,000			
Base Awards (52 @ \$675,000)	\$35,400,000			
Competitive Awards Mission Directorate match				
(total avail ~\$6.4M) \$3,200,000				
Non-Awards	\$5,400,000			
Total	\$44,000,000			

Space Grant FY2020 Competitive Funding (Guam and U.S. VI Supplemental) Funding Levels				
Budget Guideline \$44,000,000				
Base Awards (52 @ \$625,000) \$32,800,000				
Competitive Awards Mission Directorate match				
(total avail ~ \$11.6M) \$5,800,000				
Non-Awards \$5,400,000				
Total 44,000,000				

NOTE: Includes Guam and U.S. VI as \$150,000 supplements respectively



State Funding Update

► Three year grant + One-year Extension: April 23, 2015 – April 22, 2018:

FY15: \$430,000

FY16: \$300,000 + \$270,000 augmentation

FY17: \$300,000 + \$270,000 augmentation

FY18: \$300,000 + \$270,000 augmentation

State Match:

FY15: \$200,000

FY16: \$200,000

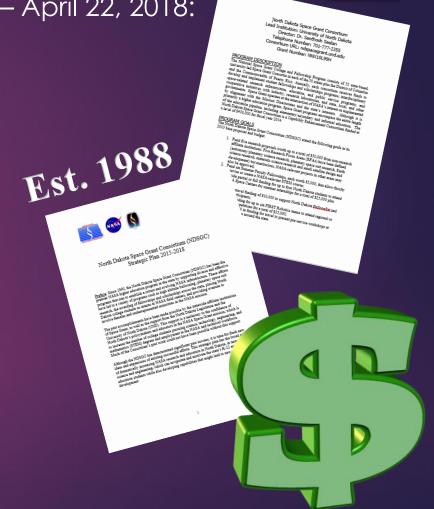
FY17: \$184,224

FY18: \$184,224

Additional One-Year Extension Proposed

► POP: April 22, 2019 – April 21, 2020

Submitted proposal for one year extension in November of 2018



NIFS

Student Fellowship Applications:

# of Applicants	FY18	FY17	FY16
Summer	5* UND-3, NDSU-1, BSC-1	11 UND-10, NDSU-1	20 UND-10, NDSU-9, VCSU-1
Fall	11 UND-6, NDSU-3, TMCC-1, VCSU-1	16 UND-12, NDSU-3, VCSU-1	10 UND-5, NDSU-3, DSU-1, BSC-1
Spring	6 UND-2, NDSU-4	6 NDSU-4, UND-2	7 UND-3, NDSU-3, UTTC-1

- Encourage students to apply for research fellowships
- •Guidelines are on website
- Increasingly competitive
- *small window of advertisement waiting for funding

- •Deadlines:
 - •Summer April 15
 - •Fall August 6
 - Spring December 2

Bridge Program

- Any student transitioning from one degree to an advanced one (AS to BS, BS to PhD, etc.)
- Encourage all to apply
- First successful transfer in summer of 2017
- Will look at different weeks of the summer (closer to school)

NDSGC Funding

- NASA Competition Teams
 - Application deadline for everyone, November 6
 - Highly encourage college teams from outside UND and NDSU
 - Additional FIRST Robotics team this year
- NASA Internships
 - Encourage students from affiliate institutions to apply
 - \$7300 undergraduates, \$9000 graduate students
 - 2019 ND Summer applicants: 30 total
 - 2018 ND Summer applicants: 30 total
 - 2017 ND Summer applicants: 34 total
 - 2016 ND Summer applicants: 25 total



Scholarships

- Spreadsheet is working great!
- Does your institution need anything changed on our application advertisement? We can edit the application criteria
 - (Some institutions add essay requirements)
- Encountered many instances of maximum funding ceilings

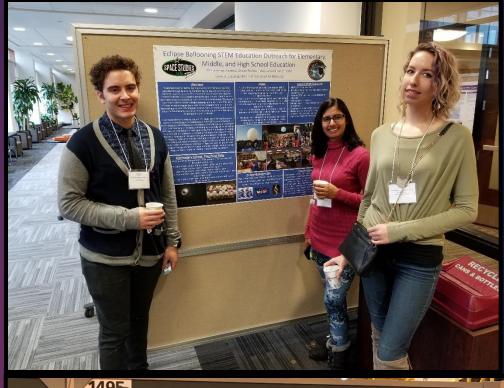
Student Name	ID Number	Male/Female	Email Address	Major	Minors	Ethnicity	Date of Birth	
								\blacksquare

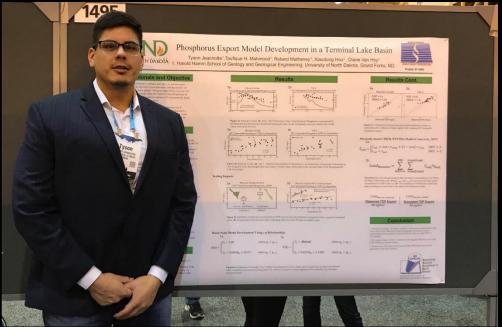
Scholarship Opportunity

- North Dakota Archaeological Association
 - Cynthia Kordecki Research Scholarship for Spring 2019
 - Any age and level of experience may apply
 - ► K-12, higher education, educators, lifelong students
- Must be relevant to the NDAA objectives to promote scientific investigation, preservation, and publication of archaeological research in the Northern Plains (ND)
- Due May 3, 2019
 - Notified by May 20th
- http://www.ndarchaeology.org
- Contact Erik Holland for details

Student Travel Grants

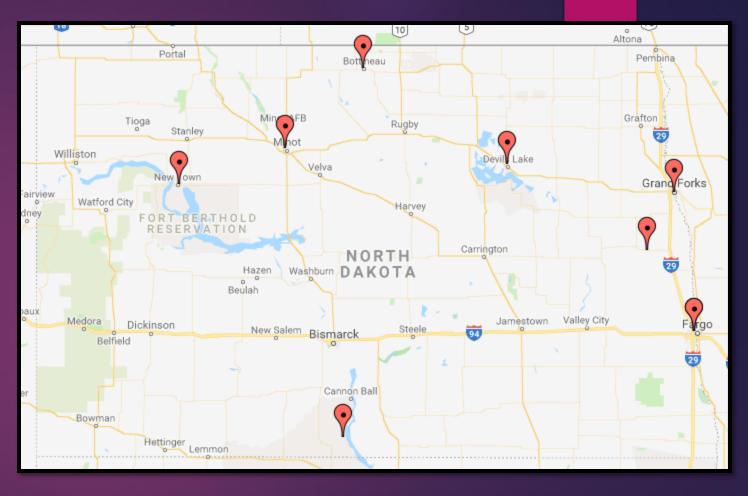
- Travel to conferences to present research or attend hands-on workshops
- ▶ \$500 awards
- Rolling applications to change to each semester
- Previous years' applicants from UND and NDSU
- Encourage students at affiliate institutions to apply!





STEM Ambassadors

- Students are funded to conduct engaging outreach
 - K-12 schools, library events, museums, public outreach events
 - One Ambassador worked full time at Gateway to Science Center – ½ stipend from NDSGC, ½ GSC
- STEM Education majors encouraged!
 - We're visiting more education classes
 - We can visit your school!
- Apps due May 31st



LRSC, UND, MaSU, MiSU, SBC, NDSU

2015-2019

Educator Opportunities

Internal

- Pre-service and in-service STEM Education
 - Sessions commonly 1-3 hours long
- Upcoming in-service teacher workshop at UND in Summer 2019
- Offer Professional Development credits for teachers
- Host "Space Camp" for students

External

- Space Camp & Conferences for Educators
 - Marshall Space Flight Center, Space Center Houston, Kennedy Space Center







Apollo 11 Anniversary

- 50th Anniversary on July 20th!
- SMD & O-STEM (pdf):
 - Northwest Earth and Space Sciences Pipeline's <u>ANGLeS</u> Apollo challenge (drone and rover challenge)
 - ▶ 3 ND H.S. teams traveling to Rapid City, SD for Regional Competition
- Marshall Space Flight Center (pdf):
 - Nationwide rocket launch endeavor (attempting to make a world record)
 - ► Any size: stomp rockets, model rockets, etc.
 - Focusing on Saturn V's launch time: 9:32 am (Local)

Anyone hosting a special celebration?



Flipped Session

- Refresher: Ideas from this morning:
 - Virtual Reality
 - ▶ UND Atmospherium
 - Challenger Center with Gateway to Science Center
 - Lunar Rocks
 - Great Lunar Expedition for Everyone (GLEE)
- Group Discussion and Brainstorming
 - Can build off presented ideas or propose your own!
 - ► Goal of session: NDSGC programmatic improvements
 - Countdown Clock



Reimbursement Assistance

Skip	this	part
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NON-EMPLOYEE/STUDENT TRAVEL EXPENSE WORKSHEET - NDSGC

Form must be competed and attached to Voucher, and forwarded to Accounting Services, Stop# 8356

Please refer to the Accounting Services web site for Non-Employee Travel Policies and Procedures.

Individual is: ND ST Exclu (Ac	TATE EMPLOYEE udes UND Employees account 623200)	NON-EMPLOYEE (Includes non-UND student: (Account 623200)	15)	STUDENT – UND only (undergraduate, graduate, & Medical School residents) (Account 521105)
NAME				SOCIAL SECURITY NUMBER r all US Citizens)
VISA TYPE (Required fo	or Non-Resident Aliens) Co	opy of Visa and I-94 MUST	l be	attached.
PERMANENT <u>HOME</u> A	ADDRESS:	CITY		STATE ZIP
Date of Departure	Time of Departure	Date of Retur	m	Time of Return
Destination (City, State, C	Country)			
Purpose of Trip Vehicle Driven: Per EXPENSES TO BE RE	rsonal State Fleet	I N∕A	_	
				pts are <u>not</u> required for meals, unless claiming ursement for paying for another's meal(s).
Breakfast:	Rate 7.00 x	# of Meals	= [Total
Lunch: [10.50 x	:	= [
Dinner:	17.50 x	:=	= [
		Meal Total		
MILEAGE (GSA rate)): Receipts are <u>not</u> requir	ed for mileage. NOTE: ND)SG	C caps mileage reimbursement at \$250/trip.
NDSGC rate: .4/mi	Total Miles	Rate .4 =	= [Mileage Total
LODGING: (Do not in	include lodging expense if d	lirect billed to UND)		Lodging Total
	clude ticket expense if directionic l			Airline Total
	Please list each expense and sequired except for taxi		[Misc. Total
		ΓΟ BE REIMBURSED tegories above and should eq		amount on Voucher)
PI/Department Approval:	Dr. Jim Casler	Date	Fu	unding: 30247-2245 UND0020212
	All expenses claimed have r			nd /or travel expenses or combination thereof gh direct payments to the hotel or with a state
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8/6/2010 University of North Dakota

Past Affiliate Meeting Locations

- (prior) 2012: UND
- 2013: Dakota College at Bottineau
- 2014: Heritage Center
- 2015: Lake Region State College
- 2016: Dickinson State University
- 2017: Bismarck State College
- 2018: North Dakota State University
- 2019: Minot State University

Thank you all for coming!

Special thanks to John Webster and MSU for hosting the meeting!

We would like to reuse your lanyards.

Thanks!