Welcome to the Annual Colorado Space Grant Consortium Affiliate Meeting

Space Foundation
Colorado Springs, Colorado
September 12 – 13, 2014
Colorado Space Grant Updates
44. $111,111 \times 111,111 = ?$

a) 12,345,678,987,654,321
b) 999,999,999
c) 911,911,911,911
d) 314,295,444,231
44. $111,111 \times 111,111 = ?$

a) 12,345,654,321
b) 999,999,999
c) 911,911,911,911
d) 314,295,444,231
COSGC Funding:

- NASA Leadership
- Our New Award
- Our Numbers
- Our Plan
- Our Logo
- Western Region Space Grant Meeting
- Our Funding
- Discussion
Our NASA Leadership
Office of the Administrator

Associate Administrator for Education

Liaisons
- Astronaut Office
- Communication Planning
- Diversity and Equal Opportunity
- External Relations
- Human Capital Management
- Legislative and Intergovernmental Affairs
- Public Affairs

Missions Directorate
- Education Leads
  - Aeronautics
  - Exploration Systems
  - Science
  - Space Operations

Integration Division
- Deputy Associate Administrator for Integration
  - Education Specialist
  - Outcome Managers:
    - Higher Education
    - Minority University Research and Education Program
    - Space Grant and Experimental Program to Stimulate Competitive Research
    - Elementary, Secondary and Education
    - Informal Education
  - Program Support Assistant

Planning, Policy and Evaluation Development Division
- Deputy Associate Administrator for Planning, Policy and Evaluation
- Budget Manager
- Management and Policy Analyst
- Budget Analysts
- Program Support Assistant

Program Evaluation Manager

Strategic Portfolio Accountability Manager
NASA Leadership:

Many new leaders want to change the way things are done whether needed or not

One change has been the SG funding model
NASA Leadership:

For many years, NASA used the following model:

“BASE” + “AUGMENTATION”

**BASE** grant covers the amount in the President’s budget each year ~$575K

**AUGMENTATION** grant covers the additional amount of funds provided by Congress

COSGC philosophy is to fund all affiliates in full with the **BASE** grant
NASA Leadership:

Last Augmentation (now called Supplements) was in 2011

Congress has continued to provide NASA additional funds for SG but NASA changed the funding model

Without language from Congress in actual passed Budget, NASA is free to award funds to SG how they see fit

Current model is

“BASE” + “Proposal Competition”
NASA Leadership:

Proposal Competition will not benefit all SG programs like Augmentations (Supplements)

COURSE (Colorado Undergraduate Retention in Science and Engineering) is one example

CCCE (Colorado Community College Extension) program is another

COSGC has done very well in these Proposal Competitions but has focused our program growth in specific and somewhat limiting directions
**NASA Leadership:**

That being said, they are very nice people and seem to support the National Space Grant Program.
Our New Award
Our New Award:

Colorado Community College Extension was awarded in August 2014.

Great news for COSGC and allows some growth for next two years in the community college area of our program.

Bernadette will talking more about this shortly.
Our Numbers
**Our Numbers:**

Great discussion about our numbers last meeting and will discuss again this meeting

Improvements made since last year

Report submitted to NASA showed a change in the trending of numbers and received a lot positive feedback from our NASA leadership

<table>
<thead>
<tr>
<th>Year</th>
<th>Scholarships to female students</th>
<th>Scholarships to ethnic minority students</th>
<th>Non-awardee female students</th>
<th>Non-awardee ethnic minority students</th>
<th>Total female student engagement</th>
<th>Total ethnic minority engagement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>29%</td>
<td>12%</td>
<td>22%</td>
<td>14%</td>
<td>24%</td>
<td>13%</td>
</tr>
<tr>
<td>2013</td>
<td>37%</td>
<td>21%</td>
<td>28%</td>
<td>29%</td>
<td>31%</td>
<td>27%</td>
</tr>
</tbody>
</table>
Background image taken at 100,000 feet by a student BalloonSat
Our Logo:

1974
Our Logo:

First Logo...

Colorado Space Grant Consortium
A NASA Program for Teaching, Public Service, Student Research

March 21, 1990

Mr. Christopher Koehler
Brackett 204
Boulder, CO 80310

Dear Mr. Koehler,

We have now completed the interview process for the student opportunities at the Colorado Space Grant Consortium. We were extremely pleased with the experience and credentials of the applicants and are confident that we will be able to involve all of you in Space Grant Activities -- either as salaried student researchers or for independent research credit.

We have already offered a few students positions effective immediately and want to offer you a paid position in the fall of 1990, with the exact starting date dependent on the project needs and your availability. Please contact Jack Faber as soon as possible to let him know of your availability. He will be your supervisor and will be coordinating your assignments.

We hope to hear from you soon and are looking forward to working with you on our Space Grant projects.

Sincerely yours,

Elaine Hansen
Director
Our Logo:

First Logo…
Our Logo:

It Evolved…
Our Logo:

It Evolved...
Time for another update
Our Logo:

COLORADO SPACE GRANT CONSORTIUM
Our Logo:
Our Plan
Our Plan:

Is done…

Copies for you
Western Region
Space Grant Meeting
**WRSG Meeting:**

**October 9-11, 2014**

- All invited
- Opportunities to present programs

- Please let me know if you are interested in attending

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**2014 Western Regional Space Grant Meeting**

Boulder, Colorado  October 9-11, 2014

- Estimated Registration Fee: $400
- Hotel Rate: $159/night

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**Preliminary Agenda:**

- Thursday morning/afternoon – Optional Excursions
- Thursday evening – Welcome Dinner & Beverages
- Friday – Meeting All Day; Dinner on your own.
- Saturday morning – Meeting
- Saturday afternoon – Optional Excursion

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**Optional Excursions:**

- Short Morning Hike and Lunch at Chautauqua Park
- Hands-On Arduino Workshop on the CU Campus & Tour of the CU Colorado Space Grant Facility

(Saturday, October 11)

- Tour of Lockheed Martin – Space Operations Simulation Center

[limited to 30]
Our Funding
COSGC Funding:

A word of warning…
COSGC Funding:

May 19, 2015...
COSGC Funding:

May 14, 2014…
- Our 5-year grant expires
- 25th year of existence
COSGC Funding:

Previous 5-year grant expirations have been...
COSGC Funding:

1989 – 1996: September 1, 1989  (0.0 months)
1996 – 2001: September 1, 1996  (0.0 months)
2000 – 2005: February 1, 2001  (5.0 months)
2005 – 2010: March 15, 2005  (1.5 months)
2010 – 2015: May 19, 2010  (2.1 months)

The point = each 5-year grant in the last 3 cycles has resulted in a delay from the end of the previous 5 year grant and the start of the next 5 year grant

These unfunded months have been absorbed by magic
COSGC Funding:

So what does this mean for 2015 – 2020?
Have you ever read?
Think of this book as I try to explain our situation
COSGC Funding:

Or...

IF YOU WANT A NEW 5 YEAR GRANT

Laura Joffe Numeroff

ILLUSTRATED BY

Felicia Bond
COSGC Funding:

- In order to have a new 5 year grant in place by May 2015, a proposal needs to be submitted ~6 months before

- Currently, November 2014
**COSGC Funding:**

- In order to write a proposal, we need an RFP from NASA at least 60 days before proposal due date or ~September 2014

- As of today, NASA has not yet released an RFP
COSGC Funding:

- In order for NASA to release an RFP, a 5-year evaluation of the National SG Program must first be completed.
Currently, NASA plans to start evaluation in October 2014
**COSGC Funding:**

Current estimate on completion of evaluation is July 2016
COSGC Funding:

Current estimated release date for the RFP for our next 5 year award is September 2016

Following the process above that means…
- Proposal submitted November 2016
- Awards May 2017
- or July 2017 based on previous delays
COSGC Funding:

So...

1989 – 1996: September 1, 1989 (0.00 months)
1996 – 2001: September 1, 1996 (0.00 months)
2000 – 2005: February 1, 2001 (5.00 months)
2005 – 2010: March 15, 2005 (1.50 months)
2010 – 2015: May 19, 2010 (2.01 months)
2017 – 2022: May 19, 2017 (24.0 months)
COSGC Funding:

Is there any hope?
COSGC Funding:

NASA Education is working on a bridge grant
**COSGC Funding:**

Bridge grant would be 1 – 3 years in length

RFP is expected as early as this month
**COSGC Funding:**

**BUT**...Program budgets will be based on current NASA budget of SG which is currently **$24M**

**AND**...NASA has mentioned a **20% tax** on SG funds

Our current base award for the COSGC program is **$575K** is based on a **$28.1M** national budget
**COSGC Funding:**

**Best Case Scenario** ($24M with 0% tax)
COSGC Funding = $500K or 12.5% cut

**Worst Case Scenario** ($24M with 20% tax)*
COSGC Funding = $400K or 30% cut

*There are many other worse case scenarios but this is the most likely worse case scenario*
Anyone feeling like this?
COSGC Funding:

FY 2008 – $730K
FY 2009 – $785K
FY 2010 – $845K
FY 2011 – $790K
FY 2012 – $575K*
FY 2013 – $575K*
FY 2014 – $575K*

* Reductions absorbed by lead institution and elimination of statewide growth programs to maintain affiliate budget levels
COSGC Funding:

- There are no additional programs to cut and lead institution is already as lean as it can be

Therefore…

- Depending on which scenario (12.5% or 30%), funding at lead institution and affiliates will be cut across the board in May 2015*

* This assumes no other changes to COSGC funding model and a bridge grant has been made by NASA
Other options would include:
1. Changing affiliate award model to fixed number of awards and fixed total funding level
2. Eliminating affiliates
3. Eliminating staff at lead institution
4. Reclaim unused affiliate funding and redistribute
5. Finding state and local government funding/sponsorship (CCHE)
6. Finding new faculty and industry partnerships
7. Finding funding from philanthropic organizations
8. Finding the next big idea(s)
“What about Congress? What do they think about this? I thought they were supporting the SG program?”
COSGC Funding:

- Support is still there

- Now on both Senate and House

- Congress needs to turn support into two actions
  1. Pass a budget (No more CRs)
  2. Have SG at higher amount than $24M
  2. Include specific language on how $ is to be distributed by NASA to SG

- Also working a plan to raise NASA budget for SG through OMB for FY 2016 to something > $24M

National Space Grant Update: 2007
Changing the DC Plan…

- Do the visits in Colorado not DC
Ideas/Thoughts?