Changing the Face of Colorado Space Grant

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Western Region Space Grant Meeting
October 10, 2014
Boulder, Colorado
**CO Space Grant:**

Consists of 21 Affiliates

11 Four year, 9 Community College, 1 Foundation
CO Space Grant:

- On June 21, 2012, we received a letter...

- Requested a response to...

“The number of underrepresented and female participants has fallen below the NASA target in 2011 and in prior years. What are the plans to improve underrepresented and female participation?”
CO Space Grant:

- Response provided on June 29, 2012

- Said we would...

1. Talk to affiliates
2. CC Transfer Program
3. Workshops with Societies
4. Pre-Collegiate
CO Space Grant:

- Telecon with NASA HQ on our response on January 16, 2013

- Said we would...

1. Talk to affiliates

2. CC Transfer Program

3. Workshops with Societies

4. Pre-Collegiate
CO Space Grant:

- Official Improvement Plan submitted 2 weeks later on January 30, 2013

- Said we would...
  1. Change our numbers
  2. Affiliate reporting
  3. CC transfer program
  4. Collaborate with Societies
  5. Pre-Collegiate
  6. Pre-Collegiate recruiting
CO Space Grant:

- Plan accepted on May 2, 2013 by NASA HQ

- Additional Requirements:

1. Report in 11 months with significant positive increases

2. Achievement of full plan including our numbers by end of year 5 (May 2015)
CO Space Grant:

**Colorado Numbers:**
- NASA  
  40% Women  
  20% Underreps

**Enrollment (STEM)**
- CU Boulder  
  22% Women  
  10% Underreps

**2012 Data**
- Statewide  
  22% Women  
  12% Underreps
- CU Boulder  
  23% Women  
  10% Underreps

We had some work to do…
**CO Space Grant:**

**Colorado Numbers:**
- NASA 40% Women 20% Underreps

**Enrollment (STEM)**
- CU Boulder 22% Women 10% Underreps

**2013 Data**
- Statewide 38% Women 22% Underreps
- CU Boulder 38% Women 22% Underreps

How we did it and how we hope to maintain it…
CO Space Grant:

- Detailed discussions with affiliates in person and over the phone
CO Space Grant:

- Continuation of our Community College Transfer Program (COURSE)
CO Space Grant:

- Pre-Collegiate Program
CO Space Grant:

- Changed the Connection with Societies
**CO Space Grant:**

Specifically on the CU Boulder campus, we…

- Gave overview of SG with current students

- Provided 4 hands-on, 90 minute workshops for their members in fall 2013 semester

- Offered hands-on engagement at Space Grant in Spring 2014 with stipends

- Met with these engaged students for 15 minutes every 2 weeks
CO Space Grant:

Presentation on SG:
CO Space Grant:

Soldering 101:
CO Space Grant:

Intro to Arduino:
CO Space Grant:

Intro to Arduino:
CO Space Grant:

Advanced Arduino:
CO Space Grant:

Satellite Tool Kit:
CO Space Grant:

Spring Project Formation:
CO Space Grant:

Launch and Final Report:
CO Space Grant:

Further Engagement Summer 2014:
CO Space Grant:

Further Engagement Summer 2014:
**CO Space Grant:**

2014 - Repeat with Enhancements

- SWE, SHPE/MAES and now **NSBE**

- Fifth workshop added (Robotics)

- Plan to offer 1 to 3 projects in spring based on demand
**CO Space Grant:**

- This model is being duplicated at other affiliates around the CO Consortium

- Making meaningful connections with student societies is a great way to recruit, engage and retain women and underrepresented students