Colorado Space Grant Consortium
Members Meeting Sept. 2014

University of Northern Colorado

Summary of Activities and Accomplishments
2013-2014

Dr. Matt Semak, Dr. Cynthia Galovich, Dr. Bob Walch (Affiliate Director - since 1990 - I think)

UNC Undergraduate Students:
Amber, Donovan, Graham, Anthony, JJ
(David, Serge, Steve, high school students not here today)
DemoSat (2014)

UNC team + HS students in the Frontiers of Science Institute (Summer 2014)

(Amber & David were mentors)
- Cosmic ray experiment with Geiger Tube
- Simple camera payload for FSI high school students
(Short video)
Robotics Challenge – April 2014
(Very short video)
Modeling Human Balance (collaboration with Sports & Exercise Science)

Zach Hafen: presentation at Space Symposium – April 2014

\[
\frac{dX(t)}{dt} = -\left(\mu - X(t)\right) + \sigma \alpha(t)
\]

\[
X(t + \Delta t) = X(t)e^{-\gamma \Delta t} + \mu(1 - e^{-\gamma \Delta t}) + \sigma \sqrt{\frac{1 - e^{-2\gamma \Delta t}}{2\gamma}} N(0,1)
\]
- Other Robotics
  - EEG Sensor
  - Swarm Behavior Investigation
  - Rapid Part Fabrication with 3D Printing
  - Quadcopter
  - General Sensor Development
  - BOE Bot - Introduction for New Students
  - Robotics Club
1) Goals for our Space Grant Program during the upcoming year:

- Continue Robotics
- DEMOSAT experiment in summer
- Continue student recruitment, including HS students
- Continue work on COURSE project
2) No. of Students Involved in COSGC program

- Male Students: 12
- Female Students: 2
- Under-represented Students: 1
- [5 HS Students]

3) NASA, Industry, and/or Faculty Partnerships

- CreatorSpace
- SparkFun
- UNC School of Sports and Exercise Science
4) COURSE Project

- UNC has selected the Department of Physics and Astronomy as a unit to target for increased enrollment.

- University Relations will develop a marketing plan and provide its expertise and support in the development of marketing materials, including a COURSE brochure to be distributed at AIMS CC.
Recent COSGC Grads

- Zach Hafen - Grad student at Northwestern
- Diego Alcala – Grad student at Mines
- Steve Champion
- David Garrett
- Tim O’ Neill
Questions?