

# WYOMING

NASA Space Grant Consortium

## Agenda

Space Grant Board of Director's Meeting  
October 9th, 2009 — Casper Planetarium  
Casper, WY

- 9:30 Welcome, Introductions, Contact Information Update
- 9:45 NASA/Space Grant Updates
- 10:00 Update on Items from Last Meeting
- 10:45 Scholarships/Internships/Fellowships/Grants
- Community College STEM Scholarships
  - Community College Transfer Scholarships
  - Internships—NASA Centers and Firehole Technologies, Inc.
  - Undergraduate and Graduate Research Fellowships
  - Faculty Research Initiation Grants
  - Faculty Education Enhancement Grants
- 11:15 Break
- 11:30 New Items
- 12:00 Briefly Touch on the FY 2010 Budget
- 12:15 Odds and Ends
- 12:30 Lunch
- 1:15 Tour of Wickman Facility
- 2:15 Wrap-Up

## **Meeting Minutes**

Space Grant Board of Director's Meeting  
October 9, 2009 --- Casper Planetarium, Casper WY

### **Welcome, Introductions, and Contact Information Update**

#### **Attended:**

**Burt Davis**  
**Carla Hester-Croff**  
**Paul Johnson**  
**Rich Laidlaw**  
**Paul Marquard**  
**Shawna McBride**  
**Mary Schwem**  
**Lorna Stickel**  
**Michele Turner**  
**John Wickman**  
**Michele Wistisen**  
**Andrew Young**

Introduction of new members: Michele Turner, Emily Stewart, Thomas Johannesmeyer who is replacing Ami Erickson with NWCCD – Sheridan College.

#### **NASA/Space Grant Updates**

NASA's new reporting system-

We will have a new reporting system. In the past we have done our reporting in CMIS, which is no longer operational. The new system is OEPM and NASA hopes to begin phasing it in sometime this fall.

FY08 Report-

The FY08 report we completed was a truncated version of the original CMIS reports. They used Survey Monkey to gather the majority of the information, as well as data tables.

*\*The affiliates would like to receive copies of the reports, along with the Awardee list.*

*\*We should also list the awards in our newsletter.*

Summer Audit-

Our audit this summer revealed that all community colleges need to collect the same information (use the same application) and must have a question regarding US citizenship on the application. Copies of all of the applications must be sent to the Laramie office for our records. We are updating the website and will include an Affiliate page with links to everything. We will also be sending posters and will email the application form to the community colleges. We need to know the amounts for the scholarships so that we can include on the posters. Is the wording "up to \$1000.00" correct? Is anyone having problems with our awards interfering with other awards such as the Hathaway

scholarship? Central's awards are run through the Financial Aid office so scholarships affect the students Financial Aid package. Would it be easier for us to send the student a check? Paul wondered if that would influence governmental reporting as NASA gets recognition on an individual basis. Also, would the student then have to do a 1099? We could also work and customize the distribution depending on the individual college needs.

*\*We will poll past awardees to give us a better understanding of any issues they may have encountered.*

Western & National Meetings-

The National Meeting in Portland, Oregon is quickly approaching. Is anyone interested in attending these meetings? We could possibly fund one or two people/year to attend if interested.

*\*We will send updates regarding meetings to all affiliates.*

ESMD and Current Competitions-

We have posters for the Lunabotics Competition to distribute. There is also a Moon Work Competition and Art Competition. We will forward information regarding these. Our ESMD funding is going to change. In the past we have used that funding for the Rocket Class, Senior Design and internships with a Laramie company. ESMD will now be a competitive award and not everyone will receive that funding.

Diane DeTroye "90-day highlights"-

Diane DeTroye will be asking us for "90-day highlights" so if you have exciting and interesting highlights, please send them to us.

Pathevo-

Pathevo is a career planning software program specialized for Engineering and science majors. They can access tools and information about different programs and Financial Aid, etc from a variety of University's around the country. You receive 500 subscriptions and can delegate where they go. There are four Space Grants currently using the program – Virginia, Massachusetts, Maryland and one other. Does career services have similar programs? Who would implement and at what level? Would the faculty use it? Is there a trial subscription to test since it's fairly high priced? Currently at Western the graduating students are required to do an assessment, they use TaskStream.com. It's an online program that takes them from their first year to their graduation and builds a portfolio to assess what they have learned. If you are interested in Pathevo, please let us know.

Incorporating design projects/competitions into classes-

Design projects/competitions are hard to do outside of class time because people are so busy. They would like to start incorporating these into classes. Examples would be the Balloon Satellite program, a Rocketry class.

- \*We will look into any NASA resources available for programming with Robotics.*
- \*The community colleges would like more information; Paul Marquard would like more information on the Balloon Satellite program – maybe we could make this a consortium effort with a series of classes starting at the Community College level.*
- \*We will send updates.*

## **Updates from Last Meeting**

Fall 2009 Senior Design Competition-

We are currently running a fall Senior Design competition on campus.

SMTC Proposal-

We funded Trent Mankowski at \$20,000 for the SMTC proposal submitted during the spring board meeting. To determine how to sign up for classes students will need to contact Tim Slater directly.

*\*We will ask for a report to see the results of the funding. This is something that we might want to fund perpetually.*

Engaging Minority Serving Institutions and HBCU's-

We have tried contacting and developing a relationship with the tribal college here in Wyoming, however we have not been successful. UW is currently talking with Winston Salem State University (HBCU). Any ideas would be welcomed. Thoughts so far include an undergraduate summer exchange program to increase diversity; also a transfer scholarship to come to Wyoming, either community college or the university. We must work with a recognized institution. Other ideas include women, Latino (Hispanic) and/or tribal colleges. Maybe we should step out of the norm. We are working with the minority organizations on campus as well, funding a speaker series through their office as well as assisting with seminars throughout the semester.

*\*We will send an update to everyone along with information about the seminars and speaker series.*

Museum Outreach-

Funding was made available for Missile Rack cards for the F.E. Warren Air Force Base and ICBM & Heritage Museum. The cards have been developed and should be available in October.

Casper Planetarium After School Program-

Three Title I schools are involved. Pre-service teachers are focusing on “science as inquiry” and what does it look like. What do we want the pre-service teachers to learn? What skill sets are we looking for them to develop? Our goal is to create good science teachers. They need to take the science classes, they need the content and the background. Michele would like to do an assessment to show the value and hopefully receive continued funding for the program. Ideas for assessment included: how are the students doing in successive science classes, are they participating in the science fair (primary) and the quality of their submission (secondary), also talking with the parents.

#### Education Resource Center-

We are working with the new Director to promote and make the resource center more accessible to everyone in the State. Items will be catalogued into the UW Library system and will be available for interlibrary loan. We will be updating this portion of our website as well.

#### Community College STEM Scholarships-

Money has been allocated to each college. The amounts were based on full-time FTE's on the Community College Commission website from Fall 2008. Everyone is agreeable to using those figures.

### **Scholarships/Internships/Fellowships/Grants**

#### CC STEM-

Not awarded yet. Are posters enough advertisement for the scholarships, do you need anything else from us? The posters are good.

*\*We will post on the website as well.*

#### CCTS-

We received twenty-eight applications and made five awards of \$5,000 each. We had an increase of 13 applications and made the same number of awards.

#### Internships-

NASA Centers – We received six applications to JPL in California and three students accepted and were funded. One student went to Glenn Research Center in Ohio. One student went to Goddard Space Flight Center in Maryland. All students received a \$6,500 award. There were the same number of applications and one additional award.

Firehole Technologies – We funded four students who spent the summer with Firehole Technologies in Laramie. There was one additional award this year.

#### Fellowships-

Undergraduates – We received sixteen applications. Eleven students were funded through Space Grant and two students were funded through EPSCoR. The awards ranged from \$2,000 to \$5,000. There was an increase of seven applications and an increase of two awards. The Undergraduate Fall Senior Design Fellowships have not been awarded yet.

Graduates – We received twenty-two applications and funded six Ph.D. students. The awards were \$20,000. There was an increase of five applications and an increase of two awards.

#### Faculty Research Grants-

We received nine applications. Five were funded by Space Grant and two were funded by EPSCoR. Six awards were given to UW faculty and one award was given to Western

Wyoming Community College faculty. The awards ranged from \$9,000 to \$20,000. There were seven fewer applications and one additional award.

#### Faculty Education Grants-

We received eleven applications. One was fully funded and three were partially funded. One award was given to Eastern Wyoming College faculty and three awards were given to UW faculty. The awards ranged from \$5,000 to \$10,000. There were five more applications and one additional award.

#### Criteria for making decisions:

What do we consider with the transfer scholarships? GPA, recommendation letters, essay, how are they academically, are they on the right path, the seriousness of their application, letter and what their goals are. Must be NASA related in a broad context. NASA's mission includes hard-core science, engineering and chemistry, it's the pipeline for getting scientists and engineers. They must make the connection to NASA. What about the earth science NASA goals, do we consider those? Should we get the word out to education majors? John suggested a scoring system with distinct categories. The rubric is public notice and could be included on the website, that way everyone knows exactly what they are being scored on. Let's review the review process, making sure we touch on what the added value is, what is our return on investment? If they are a past recipient, what happened with that money. What was the impact of their research?

*\*We will start the review process via email and start developing the criteria and the scoring.*

*\*We will post the rubric on the website.*

What about writing successful grants? There needs to be more communication so the community colleges understand some of the nuances of the applications and what we are looking for. Also, is there funding available to send faculty to grant writing seminars or online seminars? We do have funding and resources available for grant writing. We could sponsor a whole day workshop and look into having someone mentor the grant writers.

*\*We will dedicate a page on the website for successful grant writing; we will include a successful grant application along with a fact sheet for writers and reviewers to access.*

#### **New Items**

##### Northwest Wyoming College-

We are trying to get them involved and become a new member. John Campbell stated they do not need any more scholarship money. Any ideas?

*\*We will talk to Bruce Watne or Astrid Northrup.*

#### NASA Aeronautics Scholars Program-

We can collaborate and help with the teacher side of the program. Are the teachers getting credit for this? Is this a UW program? This is not a UW program it is a NASA program.

#### Space Shuttle Artifacts-

If any museums/schools/libraries are interested please let us know. We have funding available to pay the shipping costs.

#### Website-

Is there anything the community colleges would like us to add while we are re-vamping the website? We are also thinking about a Facebook fan page, which can be utilized to track our awardees, along with a possible Twitter account.

### **FY2010 Budget**

#### FY2010-

This is year 5 of our grant. We are allowed a 1-year no cost extension for unspent funds. For FY2010 we will need to submit a 5-year budget plan with a 1-year detailed budget, due sometime during the winter of 2010. We should be receiving proposal instructions soon. There's a possibility we may need to restructure our programs.

### **Odds and Ends**

#### Spring Board Meeting-

We'll look for a Friday before the end of the semester

*\*We will send possible meeting dates out before the Holiday break.*

#### Reimbursements-

Please turn in your receipts, mileage will be calculated using MapQuest

#### Newsletter Items-

Pictures from Craig Thompson's research

After School Program Update