ESMD Space Grant/KSC Update

Berta Alfonso, KSC University Affairs Officer  
Berta.A.Alfonso@nasa.gov  321-867-9083

Lesley Garner, ESMD Faculty Fellows Project Manager  
Lesley.C.Garner@nasa.gov  321-867-3623

Theresa Schroeder, ESMD Space Grant Project Manager  
Theresa.M.Schroeder@nasa.gov  321-867-0590
ESMD Space Grant Update

Internships [Deadline: Spring (Nov 15)/ Summer (Feb 16)]
- Online application for Center Opportunities:
  OR
  http://education.ksc.nasa.gov/esmdspacegrant/
- Username and Password will be issued to you by VSGC
- Collaborate with Industry for positions

Senior Design Projects
- Select from our list or submit your own for approval
- Responses received thus far (confirm with handout)
  - 84% response rate
- Make-up of Projects
  - 7% Ground Operations; 54% Lunar & Planetary Surface Systems; 10% Propulsion, 29% Spacecraft

Competitions
- Responses received thus far (confirm with handout)
  - 52% response rate
Introducing ESMD Faculty Fellowship: Summer 2007

- **Purpose:** To gather senior design project ideas and internship opportunities relative to Exploration in support of the ESMD Space Grant Program.

- **Benefits**
  - NASA Center: Benefits by getting help in collecting Senior Design and Internship opportunities from technical organizations.
  - Space Grants: Benefits by obtaining closer ties to NASA technical needs and opportunities.
  - Faculty: Benefits from direct experience and knowledge of NASA needs.
  - Students: Benefit from faculty and Space Grant knowledge of NASA opportunities and needs to align them better with workforce needs.
  - Overall: Creates a more synergistic approach to gathering NASA needs and how best to leverage Space Grant opportunities. Also nurtures the creation of a community of practice.
ESMD Space Grant Update

ESMD Faculty Fellowships Highlights:

- Fund 5 faculty as a cohort group (goal: to select one per SG region)
- Each Faculty paired with 2 NASA Centers (5 weeks at each Center)
  - LaRC & GSFC
  - GRC & MSFC
  - SSC & JSC
  - DFRC & JPL
  - ARC & KSC
- Each SG can nominate up to 3 candidates
- Stipend of $14K plus allocation for travel
- All Faculty will meet at KSC during last week of program to exchange information
- Each faculty will be required to present cohort findings at a regional conference
**PBMA-KMS Mission Statement**

Provide quick and easy access to critical Safety & Mission Data to support program managers and S&MA professionals across all NASA programs and projects. Enable mission success knowledge management through:

- Key knowledge access (the right information, in the right place, at the right time)
- Knowledge capture (both explicit (documented) and tacit (corporate/tribal))
- Knowledge sharing & reuse
- Work groups and collaboration

**Safety Message for the Month**

**Title:** Mishap at an Explosives Research and Development Laboratory

**Synopsis:** At 10:45 pm on February 14, 2005, a explosion and fire occurred in the research and development laboratory building M-590 at the ATK Thiokol Promontory campus.

[+ View this presentation in a new window]  
[+ View previous presentations in a new window]
Hello Space Grants! This will be our online virtual community. You guys will be the first guinea pigs!
ESMD Space Grant Program

Databases

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Members | Invite | Chat

PBMA-KMS | PBMA SecureMeeting | ATC

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Folders

All Folders

Edit Tool | New Folder

Most Recent

Space Grant Quarterly Report - 2 data entries

General

October 24, 2006
**Space Grant Quarterly Report**

**Summary**

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### Discussion Forums

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ESMD-Space-Grant Community Members

Click on a **column header** to sort by that column

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KSC Updates

Examples of KSC Crosscutting Technology Need/Technical Problem

Hazardous Leak Detection & Isolation
Contamination Control
Integrated System Health Management Technologies
Corrosion Control
Task/Process Modeling & Simulation
Wire/Cable Inspection and Repair
Advanced Work Instruction/Work Control/Planning & Scheduling Systems
Propellant Loading/Servicing/Storage
Resource, Personnel, and/or Foreign Object Debris (FOD) Identification and Tracking.
Digital Communications Technology Upgrades
Localized Weather Forecasting and Measurement
Self-Contained Atmosphere Protective Ensemble (SCAPE) Suit Upgrades
Nondestructive Evaluation/Non-Intrusive Inspection Technologies
Seamless Command & Control Coordination
Thermal Protection System (TPS) Process Enhancement/Automation
Minimally Intrusive Repair & Self-Healing Systems
Improved Gaseous Nitrogen (GN2) Pipeline Gas Filtration
Defect/Damage Location, Tracking, and Evaluation
Spacecraft Transportation and Handling Systems
KSC considering additional internship program:

Would universities be able to handle an internship that was administered similarly to a Co-op program?

(One semester in school; one semester working with NASA)

Will this cause any logistical issues with regard to:
- Sequence in classes?
- University class credit?
- Other?