Regional Space Grant Meetings
October 2009

National Space Grant Foundation
http://www.spacegrant.org/

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Mark Fischer
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NSGF Personnel

• Mark Fischer – Executive Director and Services Manager

• Shirley Campbell (OR) – Administrative Assistant

• Eric Day (DC) – Web Developer and Designer

• Talia Jurgens (TX) – Fiscal Specialist

• Sreela Mallick (FL) – Contract Development and Negotiations

• Joylynn Watkins (NM) – Student & Faculty Stipends Support
Space Grant Interface

• Internal
  – Regional Programs
    • Great Midwestern Regional Remote Sensing Program
    • Regional Proposals
  – Economies of Scale
  – State Specific – VASTS
  – Between Grants and HQ

• NASA
  – Ames, HQ/Goddard, JSC, and KSC
  – ESMD/KSC
  – NASA International Year of Astronomy

• External Organizations
  – AESP – Penn State/NASA
  – Owens Software
  – Softronics
Opportunities

• **Pathevo™**
  - Education/Career Exploration Software
  - Most STEM Fields
    - Engineering & Engineering Technology
    - Computers, IT & Communications
    - Health & Medical Sciences
    - Physical, Biological & Life Sciences
  - Space Grant Funding Required
  - Built in Matching Funds (1.5-9 to 1)
  - Implemented in IA, MD, TX, WV
Virginia Aerospace Science and Technology Scholars

- Interactive On-Line NASA-based Curriculum
- Modeled After Texas Aerospace Scholars at NASA/JSC
- Broad Range of Science, Engineering, Technology, and Math Concepts
- High School Juniors
- Community College Credit Available (2 hours)
- Master Teacher 1:25 Recommended Ratio
- Virginia Provided Master Teacher Training
Emerging Opportunities
VASTS Export

• Curriculum Components
  • Reference Materials
  • Essays
  • Quizzes
  • Assessments
  • Forums
  • Interactive Material
  • Design Activities
  • Case Studies
  • Math Problems

• Approximate Costs
  – ~$15,000 for 100 students
    • 4 Master Teachers @ $1650 each
    • Travel for 2 days to Master Teacher Training: @ $850
    • IT Component (Application/On-Line Course): $5000
  – Not inclusive of Local Staff Time

• Contact Mary Sandy for More Information
  msandy@odu.edu

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Emerging Opportunities
One-Stop-Shop

• Provide Single Point of Entry for NASA Internships & Fellowships
• Facilitate National Branding
• Promote Efficiencies
• Components
  – Broker Facilitator Corps
  – Funding Sources
  – Business Management
  – IT
• Timeline
  – Solicitation Released: Sept 2009
  – Selections Made: Nov 2009
  – Call for Opportunities: July 2010
  – Applications Open: Sept 2010
  – First Students Placed: Jan 2010
Activities

• CMIS Working Group

• International Electric Propulsion Conference (MI)
  – Meeting Registration, Payment Processing, Web Site, and Other Various Items
  – Contact: Bonnie Bryant (MI)

• NASA International Year of Astronomy (NASA HQ-SMD)
  – 55 Ambassadors (50 Space Grants)
  – One Student Ambassador Per State Funded by NASA SMD
  – 5 States Selected and Funded Additional Ambassadors

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Activities

• ESMD/Space Grant Projects (KSC)
  – ESMD Education
  – Stipend and Travel Administration
  – Projects
    • Student Paper Competitions (Multiple)
    • Faculty Senior Design Training
    • Lunabotics Mining Competition

• Systems Engineering (TX JSC)
  – Systems Engineering Curriculum Development and Implementation
  – Workshop, Curriculum Development,
  – Website Development (http://spacese.spacegrant.org/)
  – Contact: Wally Fowler (TX)

• Space Grant 20th Year Evaluation Support Services
• AESP Implementation Mini-Grant
  – K-12 Educator Professional Development Courses
  – Seed Funding
  – Up to $30,000
Activities – Support Services

• Support Services
  – Provide Economies of Scale to Space Grant Network
  – Various Projects With 31 States
  – Contact: Mark Fischer or Peter Sukanek (MS)

• Meeting/Workshop Registration
  (National Meetings, Regional Meetings, IEPC, RockOn, StudentSat 6, SHOT II, Illinois Aerospace Institute Camp)

• Website Design/Redesign
  (DE, ID, MD, NE, ND, PA, TN, VA, Council, IEPC, Space Systems Eng, VASTS)

• Website Hosting
  (Coordinators, Council, IA, ID, IEPC, MD, NE, ND, PA, TN, VASTS)
Support Services

• Application System
  (12 States, 2 Other Programs: AL, IA, ID, IN, NC, NIYA, NM, NV, PA, SC, TX, VA, VASTS, WV)

• Students & Faculty Stipends Support
  (AL, DC, MO)

• Longitudinal Tracking System
  (24 States: AR, FL, ID, KY, MD, MI, MN, MS, NC, ND, NH, NV, OK, OR, PA, SC, SD, TN, TX, VT, WA, WI, WV)

• Proposal Submission and Review System
  (9 States, 1 Other Program: AESP, FL, ID, IN, NC, NM, PA, SC, TX, WV)
To support and enhance the Space Grant Consortia in every state

To carry out education, research, and public outreach activities related to space, aeronautics, aviation, and Earth system science
Questions?