



Office of Education



National Council of Space Grant Directors' Meeting

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Why the National Emphasis on Diversity?



- *National economy needs skilled high-tech workforce*
- *National security needs*
- *National standard of living*
- *The American Competitiveness Initiative; The Quiet Crisis; The Gathering Storm*
- *Demographics - Women, underrepresented minorities and persons with disabilities*
- *Leverage a talented pool of students at MSIs*

“The Cost of Not Addressing Diversity Is Too Great”



Why the Space Grant Emphasis on Diversity?



Goal:

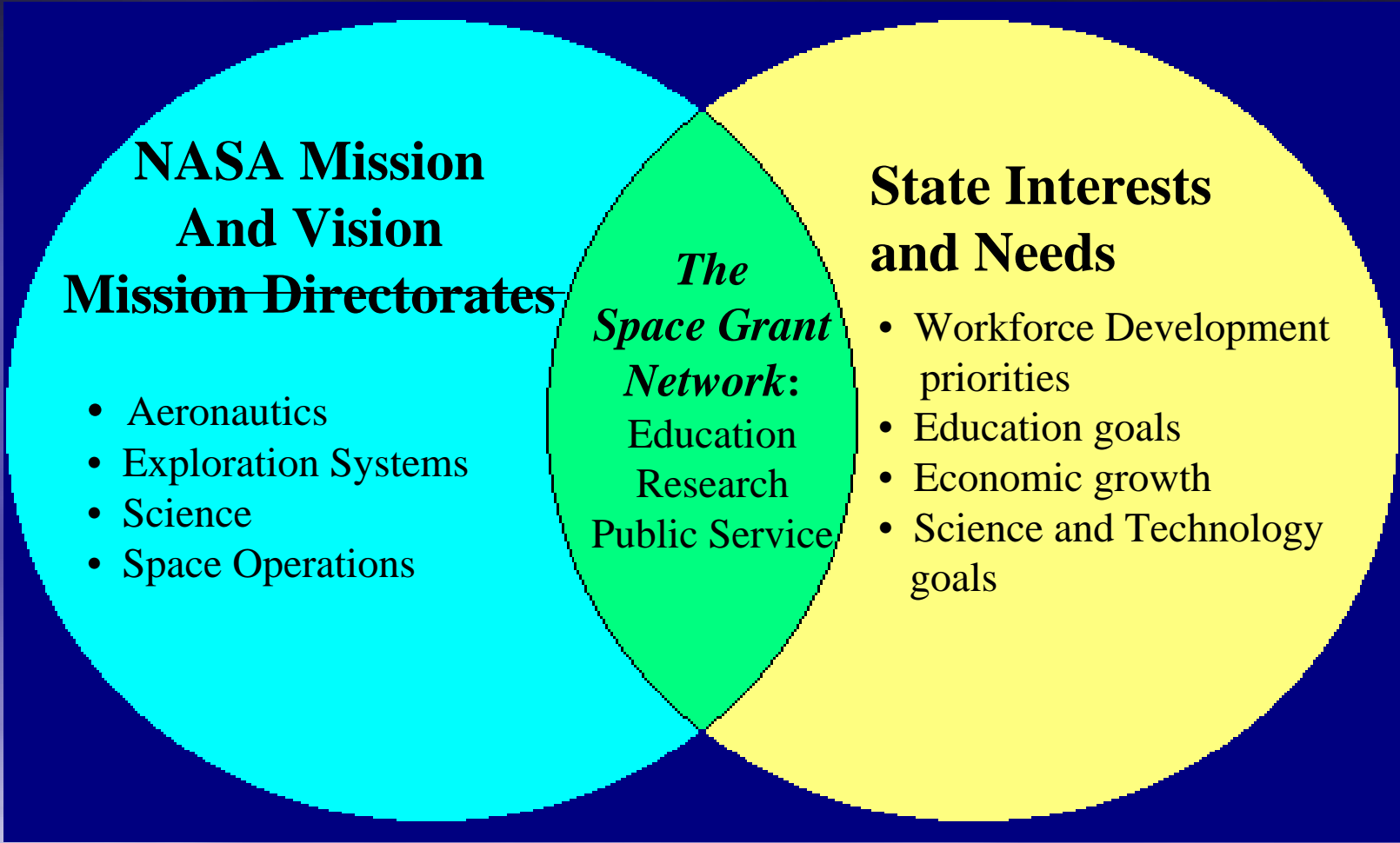
Contribute to the **nation's science enterprise** by funding education, research, and public service projects through a national network of university-based Space Grant consortia.

Objectives:

1. Establish and maintain a national network of universities.
2. Encourage cooperative programs among universities, aerospace industry, and Federal, state, and local governments.
3. Encourage interdisciplinary education, research, and public service programs related to aerospace.
4. **Recruit and train U.S. citizens**, especially women, underrepresented minorities, and persons with disabilities.
5. **Promote a strong science, mathematics, and technology education base** from elementary through secondary levels.
6. **Three NASA Education Priorities:**
7. **Workforce Development, Strengthening the Pipeline and Public Benefit**



The Space Grant Approach





Fellowship Award Demographics

1989 - 1992

19% Underrepresented Minority
39% Women

1993 - 1997

21% Underrepresented Minority
43% Women

1998 - 2002

20% Underrepresented Minority
42% Women

2003 - 2007

21% Underrepresented Minority
43% Women



Partnerships Comprising the National Network

- **Current Affiliated Organizations**

- 850+ Affiliated Organizations
 - 550+ Colleges and Universities
(42 HBCU, 24 HSI, 25 Tribal Colleges, 7 OMU)
 - 80+ Industry Affiliates
 - 40+ Government Affiliates
 - 180+ Non-profit & Other Educational Organizations

- **Potential Affiliated Organizations**

- 56 HBCUs, 175 HSIs, 9 TCUs, and ____ OMUs
 - Hispanic Association of Colleges and Universities
 - United Negro College Fund Special Programs, Inc.
 - American Indian Higher Education Consortium (AIHEC)
 - National Action Council for Minorities in Engineering (NACME)
 - Society for Hispanic Professional Engineers (SHPE)
 - American Indian Science and Engineering Society
 - National Society of Black Engineers (NSBE)
 - Society for the Advancement of Chicanos and Native Americans in Science



Outreach to MSIs

- **Meaningful Partnerships**

- Center for Remote Sensing in Ice Sheets (CRESIS) - NSF
- Center value \$25.7M
- Core components - Research, Education and Knowledge Transfer
- Partner Institutions: Univ. of KS, Elizabeth City State Univ., Haskell Indian Nations Univ., Ohio St. Univ., Penn St. Univ., and the Univ. of ME
- Has a goal of training 20% of its graduate students from underrepresented groups
- To strengthen the STEM pipeline for graduate students Center funds are being used to support undergraduates at both ECSU and Haskell
- New courses, student exchanges, and internships

Networking and Relationships

- The PI and the ECSU Co-PI met at a conference in Australia and agreed to work on a project
- Summer of 2005 ECSU and the Univ. of New Hampshire signed a formal MOU at the GSFC to share resources (students and faculty) and submit joint proposals
- Relationship with ECSU Co-PI has enabled Univ. of New Hampshire faculty to become involved in the Center
- Medgar Evers College of NY through its Balloon Launch program has forged relationships with the Space Grants in NY, Vermont, and Nebraska



Outreach to MSIs

- Outreach Aids
 - Virtual Diversity Center - sciencediversitycenter.org
 - Funded by NSF
 - Lists all MSIs
 - List and Description of the federal grants and contracts by institution, topic, or researcher
 - Contact Information on all researchers
 - Information is updated daily
 - James Harrington's MU-SPIN Network - 301-286-4063
james@muspin.gsfc.nasa.gov
 - Carl Person - carl.s.person@nasa.gov - 202-358-2378



What Happens Next?

- I want to get up to speed on Space Grant and EPSCoR
- The ECC-chartered Team will be named and begin to develop a set of recommendations re: Space Grant and EPSCoR
- Work with the Executive Committee on the Issue of Diversity