



New Jersey Space Grant FY 2010 Activities

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NJSGC Summary of Activities

- Expansion of Consortium (from 5 to 9 to 13 members)
- Expansion of Programs 7(2008), 16(2009), 21(2010), 24(2011)
- Establishment of New Contacts via Personal Visits
- Warmly Received Visits to Local Congressional Offices
- Improvement on Diversity Record due to Targeted Alliances
 - 25% Underrepresented Minorities (28% NJ Target Goal)
 - 36% Females (45% NJ Target Goal)
 - Better Distribution of our Funding Statewide



Expansion of Consortium and New Contacts

- 13 Affiliates: 11 Academic, 1 Government, 1 Planetarium
- The four most recent academic affiliates are (The College of N.J., Seton Hall, N.J. City University, & Rowan University)
- One affiliate departed – Plainsboro Public Library
- Awards made to community colleges (Essex County College, Middlesex County College)
- Contact visits made to community colleges (Hudson, Morris, Raritan Valley, & Union) – Phone contact made with other Community Colleges
- More active in National Space Grant
- Contacts established with:
 - Federal Aviation Administration
 - Sea Grant



Expansion of Outcome One Programs in FY 2010-2011

- Reallocation of funds from Administrative Expenses to Higher Education Bridge programs
- Bridge Programs: High School to College, College to Graduate School and Inter-Collegiate Programs
- Course Development at Undergraduate Level
- Summer Courses for Freshman, Equal Opportunity Fund (EOF) Sponsored Courses, and College Level STEM courses
- Princeton Suborbital Flight – Design best payload



Expansion of Outcome One Programs in FY 2010

- RiSE Program – Research in Science and Engineering – Summer Internship Program for Minorities
- NJIT & Ramapo College Bridge Program
- Travel support to students for conferences and paper presentations
- Research Cluster Programs tailored to affiliate needs (as long as they meet NASA guidelines)
- Over 100 direct funded undergraduate and graduate students



Expansion of Outcome Two Programs in FY 2010-2011

- Rock On in 2010 – Rock SAT in 2011 (6)
- Partners in Science Program at Liberty Science Center (10)
- GIST – Girls involved in Science and Technology at Georgian Court University (6)
- NASTAR – Astronaut Teacher Training (15)
- Hanover Township Teacher Training at Johnson Center (5)
- Rutgers Pre-Service Science Teacher Training (12)



Expansion of Outcome Three Programs in FY 2010-2011

- Edelman Planetarium at Rowan University
- Raritan Valley Community College Planetarium
- Museums (in progress)



Conferences Held and Participated in During 2011

- Academic Year Fellowship Poster Session – April 2011
 - 40 college students from 12 different academic institutions presented their research
- New York City Research Initiative – July 2011
 - Six NJSGC sponsored students presented their research at a poster session
- Summer Fellowship Conf. & Poster Session–August 2011
 - 18 undergraduates from 6 different academic institutions presented their research with a talk and a poster session
- Astronaut Camarda Program for HS Students–September 2011
 - Six teams of six high school students presented a robotics project via NASA sponsored video conference



New Initiatives in FY2010-2011

- FY 2011 base proposal successfully submitted; working on augmentation proposal
- Competed in the 2010 Consortium Development Competition. **We were one of seven winners**
- FY 2010 budget was \$845,000
- FY 2011 budget is \$615,000



Unrewarded Initiatives in FY2010-2011

- Global Climate Change – Collaboration of New Jersey City University (lead) , Rutgers University, and Stevens Institute of Technology
- Summer of Innovation – Attempted collaboration between interested parties within the state



Anecdotal Success Story

- Outcome 1 – Educate & Employ – Ms. Regina Pynn
 - ESMD Program - 2008 & 2009
 - Co-Op Program on NASA project - 2009 & 2010
 - Academic Year Fellowship - 2010
- Outcome 2 – Engage & Educate
 - NYCRI Program – Summer of 2008, 2009, 2010 – Mr. Michael Creech
 - Rock On and Rock SAT Program – Mr. Mike Giglia, Mr. Ethan Hayon, Mr. Bob Hopkins, Ms. Jenny Jean, Mr. Mark Siembab, and Mr. Sean Watts



NJSGC FY 2011 Funding and Budget

	FY 2011	Augmentation	Totals	Percentages
Fellowships	110,000	46,000	156,000	25.3%
Research	42,000	13,500	55,500	9.0%
Higher Ed (Outcome 1)	50,000	66,000	116,000	18.7%
Higher Ed (Outcome 2)	43,000	9,000	52,000	8.4%
Pre-College	23,500	1,500	25,000	4.0%
Informal Education	4,000	-----	4,000	0.5%
Operating	95,387	20,196	115,583	18.6%
Overhead (26.5%)	62,113	34,156	96,269	15.5%
Total	430,000	185,000	615,000	



Administrative Actions

- NJSGC Staff:
 - Director (Haim Baruh)
 - Program Director (Joseph S. Miles)
 - Program Coordinator (Aiesha Long)
 - Web Master (Leora Wenger)
- More proactive and engaging with affiliate representatives
- Personal visits to affiliates and partners achieves success
- The NJSGC team has been persistently on the road, making site visits



NJSGC Diversity Initiatives

- NJSGC went from 12% to 25% for direct funded minority students in two years (our target is 29%).
- Excellent collaboration with NJ City University (a majority Hispanic academic institution)
- Support of minority graduate student development and bridge programs
- Successful in attracting minority students to graduate fellowships
- Unfortunately, NJSGC's record with female students dropped from the previous years to 36% (target is 45%) in spite of our best efforts.
- Some female applicants rejected our fellowship offers and accepted other opportunities; others attended summer classes.



Areas Needing Improvement

- Additional sources of funding to support the Consortium expansion
- Getting affiliates more enthusiastic and to encourage affiliate representatives to publicize programs
- Efforts to establish an advisory board
- Diversity record with female students
- Writing proposals to N.J. industry and government



Summary and Overall Outlook for the Future

- Continuous work on encouraging alliances and affiliations
- Numerous program improvements and expansion of programs
- Several new contacts
- Improvement in geographic diversity
- Major increase in funded students
- Efforts to collaborate with government agencies