

Massachusetts Space Grant Consortium Report

NE Regional Space Grant Meeting

Portsmouth, NH

June 3, 2011

Massachusetts Space Grant Consortium Management

- Director - Jeff Hoffman
- Co-Director - Raji Patel
- Program Administrator - Helen Halaris

Member Colleges & Universities

1. Boston University – Supriya Chakrabarti
2. *Bridgewater State College* – Martina Arndt
3. College of the Holy Cross - Matthew Koss
4. Five College Astronomy Dept – George Greenstein
5. Framingham State College - Mary Liscombe
6. Harvard University- Josh Grindlay
7. Holyoke Community College – Joseph Stahl
8. MIT - Jeff Hoffman
9. Mount Holyoke College - Darby Dyer
10. Northeastern University – Randal August
11. Olin College of Engineering - Steve Holt
12. Roxbury Community College – Kyrsis Rodriguez
13. Tufts University – Danilo Marchesini, Chris Rogers
14. University of Massachusetts, Amherst - Robert Hyers
15. *University of Massachusetts, Dartmouth* - R. Fisher
16. Wellesley College - Dick French
17. Williams College - Jay Pasachoff
18. Worcester Polytechnic Institute - Nikos Gatsonis
19. *Worcester State University* – S. Swainathan. Frank

Institutional and Outreach Members

- McAuliffe Center - Mary Liscombe
- Museum of Science – Paul Fontaine
- Clay Center Observatory – Ron Dantowitz

Perkins School for the Blind –
Cooperative activities for the past three
years, but not yet formally an affiliate
member.

MASGC Budget

- 1997 - \$380K
- 2000 - \$475K
- 2005 - \$550K
- 2007 - \$590K
- 2008 - \$730K
- 2009 - \$785K

Continued Growth Will Not
Continue!

Massachusetts Space
Grant
Accomplishments

2009-2011

77 student research fellowships from 17
MASGC academic affiliates.

Placed 12 students at NASA Centers



NASA Academies

- Four (GSFC, ARC, MSFC, GRC). Suffer from issues regarding leadership particularly at Goddard.
- Robotics and Propulsion also called academies.
- Combined application process no longer available.
- NASA Academies adhere to diversity policies which restrict the number of students from a given state. MA suffers from this policy. We have worked with NASA to change the implementation and will continue to press them on this issue.

7 Fall 2010/Spring 2011 Fellowships

- UMASS 2
- UMASS/DARTMOUTH 1
- MT HOLYOKE 1
- MIT 1
- WORCESTER STATE 2

77 SUMMER FELLOWSHIPS AT:

COLLEGE OF THE HOLY CROSS	2
WELLESLEY COLLEGE	1
FIVE COLLEGE ASTRONOMY DEPARTMENT	8
TUFTS UNIVERSITY	1
OLIN COLLEGE	11
UMASS/AMHERST	7
WPI (2 AT NASA CENTERS)	4
HCC	2
MT HOLYOKE	4
NORTHEASTERN	2
BOSTON UNIVERSITY	4
MIT (8 AT NASA CENTERS)	15
UMASS/DARTMOUTH	3
WILLIAMS (1 AT NASA CENTER)	4
ROXBURY COMMUNITY COLLEGE	1
WORCESTER STATE	5
HARVARD UNIVERSITY (1 AT NASA CENTER)	3

WE HOPE TO CONTINUE FUNDING ~ 80
FELLOWSHIPS ANNUALLY

Depending on:

Amount of funds available

Timing of release of funds by NASA

Higher Education Programs

Reduced Gravity Flights

JOIE – Engineering design program at KSC



Other Opportunities available to Consortium Members

- Support of speakers for public outreach.
- Support of curriculum development or other course activities.
- Conference travel for students to present papers.
- Participation in Balloon and Rocketry Workshops

Pre-College and Outreach Programs

- Science Club for Girls
- STS-135 SSEP Project
- MA State Science Fair
- K-12 Teacher Development
- Annual Public Lecture
- MA STEM Summit
- MoS Hayden Planetarium Teacher Training

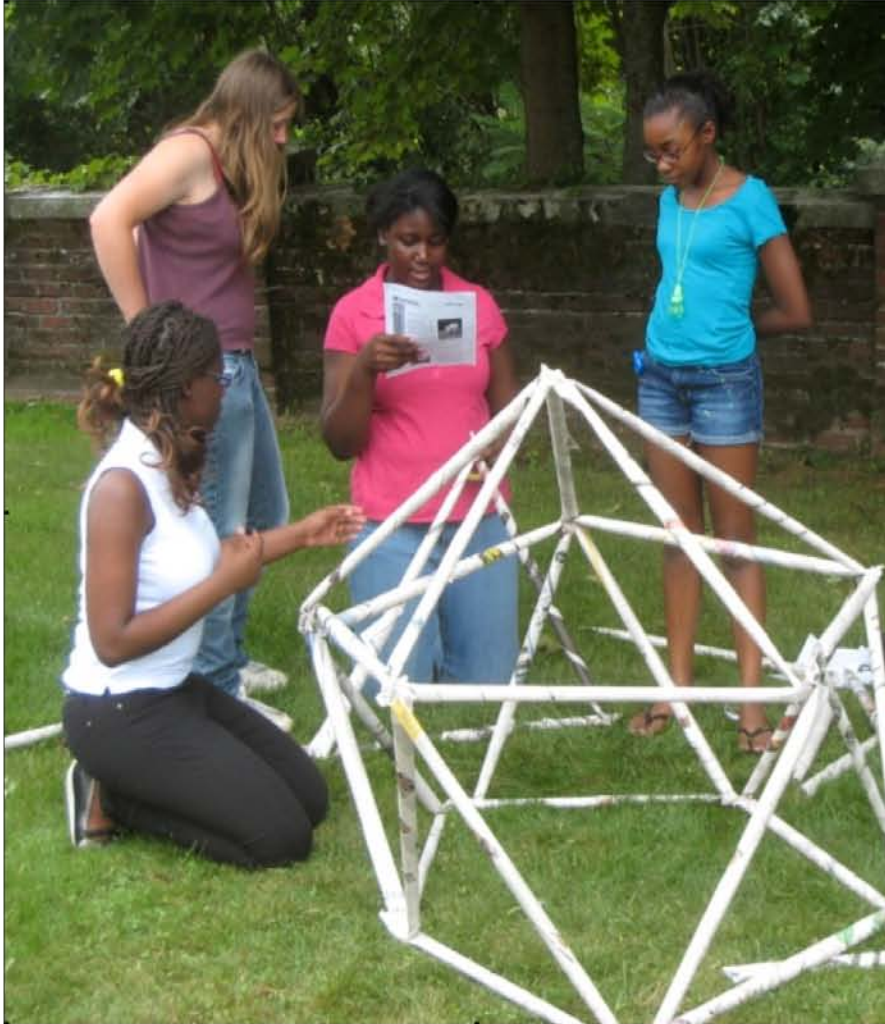
MA Summer of Innovation included summer projects in space habitats, robotics and rocketry held at:

- Da Vinci Divas - UMass Medical School
- Living in Space - Tufts Univ. / Challenger Ctr.
- You Go Girl - Edgerton Center
- STEM in Aerospace - Worcester Polytech
- Talented Latinos - UMass Boston
- Zero Robotics - MIT / MA Afterschool Partnership

MA SOI PRELIMINARY TALLY

	TARGET	ACTUAL
TEACHERS	116	127
STUDENTS	830	842

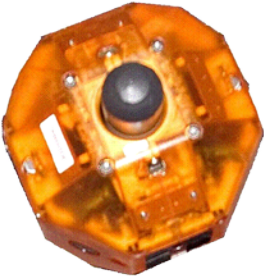
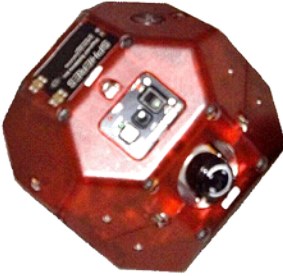
Moon Habitat





NASA Summer of Innovation
2010

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R  B  TICS



SPHERES CHALLENGE 2010