

Educational Outreach at the Magnet Lab

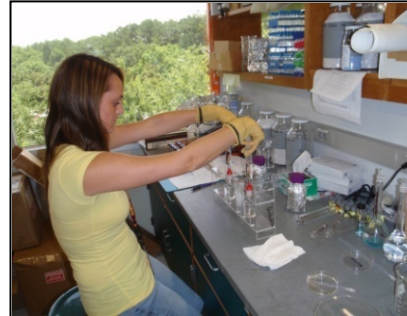
2009 NHMFL Science Education & Outreach Highlight for NSF DMR-Award 0654118

Center for Integrating Research & Learning

MagLab educational outreach included classroom visits, in-school workshops, summer institutes, community outreach, partnerships with FSU academic departments, and partnerships with 30-40 informal education organizations.

- 1999-2009, REU hosted 204 students with 74 MagLab scientist mentors at 3 sites; 91 undergraduate institutions; 38 majors
- 1999-2009*, RET hosted 161 elementary, middle and high school teachers with 35 MagLab scientist mentors
- 2008-2009 academic outreach = ~5,000; community outreach = ~1,500; MagLab tours = ~1,200; 9 very diverse counties
- Professional development provided to 100+ teachers

* In addition to in-kind support from the NHMFL, research and the program are funded by NSF, DRK-12, #ESI-0553769.



REU students Jessica Sasser, Florida State U., and Kayla Crosbie, U. of Colorado, conduct research



Spectrum outreach engages children and parents

SciGirls test MagLab pond water quality



Research and Diversity

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Blessing Ogbemudia,
REU from The Ohio
State U. prepares
samples

High school women
learn about
renewable energy



SciGirls* completed its 4th summer of encouraging middle and high school girls to pursue STEM careers. A parent said of the Magnet Lab: *“What I saw largely as an adult academic facility I now see as an organization dedicated to passion in science regardless of age.”*

*In addition to in-kind support from the NHMFL and WFSU, this program is funded by donations from local engineering firms.

Research on Outreach Effectiveness

“Research experiences for teachers: influences related to expectancy and value of changes to practice in the American classroom,” Professional Development in Education, June 2009.

- Effects of an all-girls science camp on girls’ decision making
- Effects of participating in an REU program
- Why scientists mentor?
- Educational context and science fairs



Pre-service teachers work with Title I class on basic science concepts