

MAGIC Pilot Proposal

The MAGIC Team

April 2008

<http://www.getmagic.org>



Benefits of Mentoring (for girls)

- Girls are sensitive to (and looking for) role models who are outside the realm of family and teachers.
 - They want to learn (and do so really well) from successful role models.
- Middle and high school age is an impressionable age.
 - These girls can be influenced significantly.
 - Mentors represent real life examples, and have the power to shape their careers and interests.

Benefits of Mentoring (for girls)

- Data shows that mentoring is an effective way to inspire girls to pursue STEM (science, technology, engineering and math)
 - This is especially true if the mentoring organization can offer a diverse selection of mentors to match different mentees.
- The MAGIC team is a group of successful, technical individuals with
 - Cultural diversity
 - Age-based diversity (members in their twenties to fifties)
 - Country-based diversity

What is MAGIC?

More Active Girls In Computing

- Started in 2007 by a small group of women with successful, technical careers in a variety of technology areas, with an intent to increase the interest of girls in STEM (Science, Technology, Engineering, Math).
- Formally kicked off at the Grace Hopper Celebration of Women in Computing Conference in October 2007.

MAGIC

Vision: To be a world class resource for guiding and assisting young women seriously considering studying one or more STEM (science, technology, engineering, mathematics) areas.

Mission: Focus on providing middle and high school girls, seriously considering studying a STEM area, with a knowledge of tools and resources available to help them start down the STEM path successfully. This will be done during the specified mentorship period.

Why MAGIC?

- 2006 US workforce - occupations held by women*
 - 51% of professional occupations
 - 26% of professional IT related occupations
 - 13% of corporate officer positions at Fortune 500 technology companies

* Data taken from NCWIT (<http://www.ncwit.org>)

More on Why MAGIC?

- 2006 Advanced Placement (AP) tests - participation by girls*
 - 56% of AP overall
 - 48% of AP Calculus
 - 15% of AP Computer Science

* Data taken from NCWIT (<http://www.ncwit.org>)

More on Why MAGIC?

- 2005 Intel Science and Engineering Fair – girl finalists*
 - 54% in Biochemistry
 - 24% in Mathematics
 - 12% in Computer Science

* Data taken from NCWIT (<http://www.ncwit.org>)

More on Why MAGIC?

- Undergraduate computer science degree recipients*
 - 37% in 1985
 - 14% in 2006
- 70% decline in the number of incoming UG women choosing to major in CS between 2000 and 2006!

* Data taken from NCWIT (<http://www.ncwit.org>)

More on Why MAGIC?

- MAGIC is unique in that it offers
 - 1-1 mentoring, to
 - middle and high school girls interested in
 - STEM (science, technology, engineering, math) areas, on a
 - nationwide basis.
- MAGIC mentors are women with successful technical careers, from a broad range of technology areas.

The Core Team

- Fauzia Saeed, Sun Microsystems
- Ira Pramanick, Google
- Katy Dickinson, Sun Microsystems
- Kristin Y. Rozier, NASA
- Meenakshi Kaul-Basu, Sun Microsystems

The Advisors

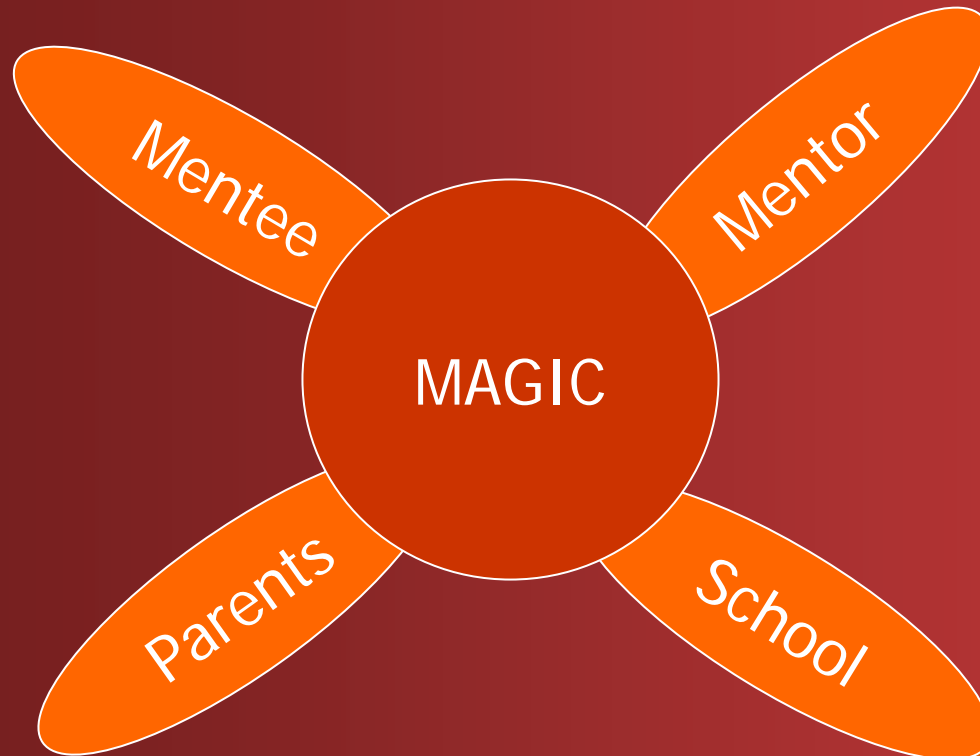
- Benjamin Lunzer, Vice President, JP Morgan Chase
- Dorilyn Martz Ames, Attorney, Board of Veterans Appeal

The Mentors

- The MAGIC core team members
- Others
 - Robin Wilensky, Sun Microsystems
 - Margot Miller, Sun Microsystems
 - Will add others, as they start going through the mentor qualification process

Each mentor has gone through a finger-print based FBI check and has been qualified by NCMEC to be a mentor for children.

The MAGIC Partnership



Where is MAGIC today?

- Team (core, mentors, advisors) set up
- Infrastructure setup completed
 - Mentor/mentee registration process
 - Mentor qualification process
 - Mentor training guide
 - Website (<http://getmagic.org>)
- Currently working on
 - NPO application process
 - Pilot preparation

MAGIC Pilot

- MAGIC will provide ten, highly successful technical women mentors.
- MAGIC will offer 10-20 middle/high school girls, who have serious interest in STEM areas, the opportunity to participate in the pilot program (and to influence the design process of this program).

Pilot Steps - I

- Introduce MAGIC to school, students, and parents.
- Select mentees.
- Pair up mentors and mentees.
- MAGIC will provide a MAGIC core team member as the MAGIC pilot contact for the school.
- Expected pilot duration: 9 months

Pilot Steps - II

- Mentor-mentee will meet every week.
- Mentors will meet with each other several times a month to discuss pilot progress.
- MAGIC pilot contact will meet with teachers and parents once a month to discuss pilot progress.
- At the end of the pilot, MAGIC will present a report to school, mentees, & parents.

Basic Pilot Guidelines

- Mentors

- Will go through MAGIC mentor training

- Mentees

- Will be provided a short mentee handbook at the beginning of the pilot

Initial Mentor-Mentee Conversation Topics

- STEM classes taken by mentee
- Level of programming done by mentee
- Mentee's favorite subjects and favorite extra-curricular activities
- Mentor's career and education
- Mentee's role models

Questions?

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<http://www.getmagic.org>

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Contact Info

- comments@getmagic.org
- <http://www.getmagic.org>
- *Ira Pramanick*
 - irapramanick@yahoo.com
 - 408-460-0333