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CENTER FOR TRANSPORTATION INFRASTRUCTURE AND SAFETY

Women in Science & Engineering and Minority Engineering Scholarships: Year 4

by

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at Missouri University of Science and Technology**

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16. Abstract <p>Support will make scholarships available to minority and women students interested in engineering and science and will increase significantly the number of minority and female students that Missouri S&T can recruit to its science and engineering programs. Recipients of scholarships will also be exposed to career opportunities in transportation.</p> <p>Women in Science and Engineering (WISE) scholarships are awarded to support female Missouri S&T students studying science and engineering. Missouri S&T's WISE program provides a campus focal point for increasing the number of women in science, engineering, math, and technology fields through outreach, recruitment, and retention efforts from middle school age through undergraduate levels. WISE provides support programs such as mentoring, advising, professional/technical workshops, and social activities, with the goal of providing a rich academic and social experience for young women at Missouri S&T.</p> <p>Minority Engineering and Science Program (MEP) scholarships provide critical financial support for under-represented students majoring in engineering and science programs at Missouri S&T. MEP scholarship students receive professional and academic support through the close-knit MEP network of friends, mentors, and Missouri S&T staff. MEP has a rich 30 year tradition of sponsoring events, activities and organizations that ensure its students are prepared for personal and professional success.</p>			
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Women In Science & Engineering
FINAL REPORT FOR 2009 - 2010 ACTIVITIES
July 2009 – June 2010

Society of Women Engineers (SWE) National Conference:

***October 2009 (National); 6 students; 1 staff**

Missouri S&T Society of Women Engineers (SWE) students participated in the National and Regional conferences which are the major events for SWE and one National is one of the largest technical and career conferences for female engineers in the country. Each year, the conference attracts nearly 5,000 engineering professionals, students and corporate representatives. The conference is an opportunity for engineering companies and corporations to recruit top talent from SWE membership. It also provides educational, technical and career opportunities for professional and student engineers.



Girls “Lock-In” Conference’s (11-12th grade girls)

***October 2-3, 2009 (30 participants)**

***February 12-13, 2010 (23 participants)**

The conferences gave the students the opportunity to camp out in a residence hall, learn more about studying math, science, and engineering at Missouri S&T, meet other perspective and current students, learn tips for financial aid and admission, and participate in team projects. The conference was designed by students who are members of the Missouri S&T Society of Women Engineers (SWE) and the Women in Engineering and Science Program. This event has a 62% success rate in enrolling attendees.



Girl meets Missouri S&T (12th grade girls)

***April 9-10, 2010 (13 participants)**

This 2-day program is a student recruitment event for female high school seniors and transfer students who have been admitted to Missouri S&T but who have not yet made their enrollment deposit and commitment to attend Missouri S&T. Designed to invite, encourage, promote and support female students to enroll as undergraduate students at Missouri S&T. The recruitment event will allow students to see first hand what life as a female engineering or science student entails and to gain insight into the opportunities available for a successful undergraduate career at Missouri S&T. Visiting campus is the best way for students to get a complete picture of Missouri S&T and its programs. Parents will be invited to attend the event with the student. Students will stay overnight in the residential halls and are matched with current female students who will serve as a peer while on campus. This event has a 65% success rate of enrolling attendees.



“Expanding Your Horizons... in Math and Science”

November 4, 2009 (over 500 participants)

This national program was established by the Math and Science Network in 1976. Missouri S&T implemented the annual EYH conference in 2000 and today has served over 3000 students. Missouri S&T hosted its 7th conference for over 500 young women. This conference is designed to nurture girls' interests in science and math courses and to encourage them to consider science and math based career options such as engineering, computer science, and biometrics. EYH is an invitation for 7th & 8th grade girls to visit the Missouri S&T campus and attend a keynote presentation by a successful women engineer or scientist, participate in hands-on math/science activities, and interact with female students, faculty and practicing engineers and scientists who serve as positive role models.



“Girls go green” – 11-12th Grade Girls

***July 27 – August 1, 2009 (30 participants)**

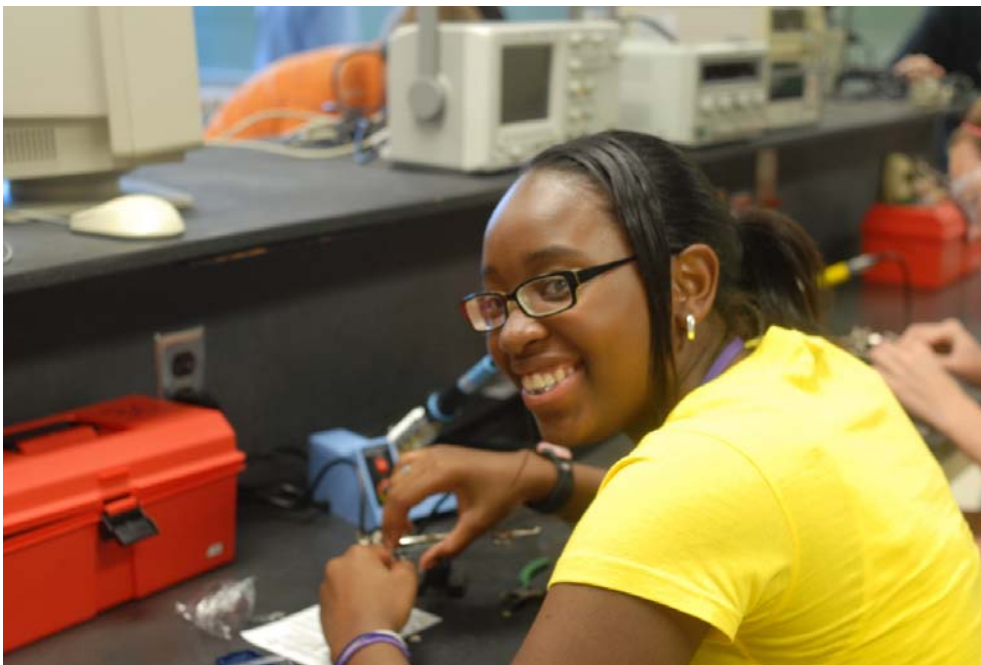
This live-in week long camp will give students the opportunity to explore career options that help society while protecting the environment. Students will live in a residential hall, meet current students and professors, participate in team projects and field trips, and gain a better understanding of the science and engineering behind a green environment.



Summer Solutions Camp (9-10th grade girls camp)

***June 21 – 25, 2010 (14 participants registered so far) (28 attended last year)**

Summer Solutions Camp is designed to peak the interest of freshman and sophomore high school girls in engineering and science. The one-week program is designed to enable female students to obtain a clear picture of engineering and science as a profession. Several hands on projects are planned to help the students learn more about career options and the demand faced in the fields of engineering, math, and science.



“It’s a Girl Thing” – 7th & 8th Grade Girls

***June 14 – 18, 2010 (20 participants registered so far) (23 attended last year)**

The program is designed to enable young female students who will be in the 7th & 8th grades during the 2009-10 school term, to help them obtain a clearer picture of engineering and scientific/technological professions. Students will get an opportunity to explore engineering, math, and science through “hands-on” experience. The sessions include laboratory experience, team engineering projects, and time to interact formally and informally with role models and peers. Students become acquainted with various fields of engineering and science and with the demand faced in these fields by practicing engineers and scientists. Another goal is to acquaint students with the type of effort required for college study.

