Minority Engineering and Science Program

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## Abstract
The Minority Engineering and Science Program (MEP) at the University of Missouri-Rolla (UMR) has come together with the UMR University Transportation Center to make the following minority education programs a resounding success.

- National Society of Black Engineers (NSBE) National Conference
- Society of Hispanic Professional Engineers National Conference
- MEP Summer Enrichment Program for Pre-college Freshmen
- MEP/NSBE Pre-College Initiative
- MEP/SHPE Kansas City High School Recruitment Program

## Key Words
Minority, engineering, science, technology, mathematics, education, black, Hispanic, pre-college, high school recruitment
Minority Engineering and Science Program

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The Minority Engineering and Science Program (MEP) at the University of Missouri-Rolla (UMR) has come together with the UMR University Transportation Center to make the following minority education programs a resounding success.

National Society of Black Engineers (NSBE) National Conference
March 29–April 2, 2006

This year, 18 college students, 9 high school students, 3 staff, and 2 high school teacher chaperones attended the NSBE national convention in Pittsburg, Pennsylvania, for pre-college, undergraduate, and graduate minority students. MEP provided information at both the career and graduate fairs. Over 10,000 people attended the conference.

Society of Hispanic Professional Engineers National Conference
January 4–8, 2006

This technical/professional conference focused on Hispanic students majoring in a technical field. We were able to sponsor four students to this conference held in Orlando, Florida. MEP provided information at both the career and graduate fairs. Over 5,000 people attended the conference.
Hit the Ground Running (HGR) provides an excellent opportunity for students to get the scoop on coursework expectations, campus life, and community involvement at UMR. This summer, 47 students were able to participate in HGR.

HGR has been determined to be an extremely beneficial summer learning experience. Students have the opportunity to get a head start on learning “stuff” from a new perspective. They also have the opportunity to define and implement constructive strategies for their success at UMR prior to the beginning of the fall semester.

Students participate in writing, chemistry, and mathematics classroom lectures taught by a team of UMR’s outstanding educators. Because of their experiences in teaching excellence, the lecturers for these courses will place students on a level of academic understanding that is beyond previous experiences. Students will be introduced to writing, chemistry, and math principles and their applications to current-day issues. They will discover how they may participate immediately in technical discovery through discussions on research and problem solving. Each course emphasizes strategies for achieving course learning objectives.
The NSBE is the largest student-run, non-profit organization in the country. Its objective is to promote the recruitment, retention, and successful graduation of African-Americans in engineering- and science-related fields.

NSBE serves as a vehicle to promote unity through programs that encourage academic excellence, perennial growth, and professional development. One of the objectives of the UMR-NSBE chapter is to encourage high school students to pursue careers in engineering and to consider UMR as a choice for their college home. In the past, UMR-NSBE members have visited high schools and junior colleges from Kansas City, Missouri, to St. Louis, Missouri, to discuss the advantages of a career in engineering.

Thursday, February 23, through Sunday, February 26, 2006, the UMR-NSBE chapter hosted its annual Pre-College Initiative (PCI) weekend. This year we hosted 63 students. As such, priority was given towards high school juniors and seniors. UMR-NSBE planned a series of workshops and activities for students to participate in during the PCI weekend. The students participated in a civil engineering design project, as well as attended an admissions seminar. The students also toured the campus and spent a portion of the day interacting with UMR administrators and students. Lodging and transportation was provided for all participating students.
MEP/SHPE Kansas City High School Recruitment Program

UMR’s “Si Se Puede” Hispanic Recruitment Program is designed to help Hispanic students achieve their goals and be successful. This program helps students explore career options and gives them an inside look as to what the college experience is really like. The “Si Se Puede” program also gives access to and information about UMR and MEP scholarships designed to help increase the number of undergraduate minority students enrolled in one of the engineering, science, or technology programs that UMR offers.

High School Recruitment Programs for 2006

- **November 9–11, 2006—“Si Se Puede”**
  13 students attending

- **June 8–9, 2006—League of United Latin American Citizens (LULAC)**
  12 Students attending