



*Recruitment, Retention, and Graduation of
Hispanic students in STEM majors*

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Society of Hispanic Professional Engineers, Inc.

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Overview

- About SHPE AHETEMS
- Recruitment and Retention in STEM Fields
 - Pre-College
 - Undergraduate
 - Graduate
- Contact Information



Target Audience

- Pre-College

- In FY2005, reached over 3,000 high school students throughout the United States

- Undergraduate & Graduate Students

- Network of over 180 SHPE student chapters at 2-yr and 4-yr accredited colleges/universities in U.S. and Puerto Rico
- Membership = over 5,000



Pre-College Awareness Program

- Edu-Comic Book
- Summer Camps
- Ay Mija/o, why do you want to be an Engineer?
- SHPE Jr. High School Chapters
- Guaranteed 4.0
- Regional Science Bowl
- SHPE/HENAAC/IBM Summer Camps
- Pre-College Symposia



Edu-Comic Book

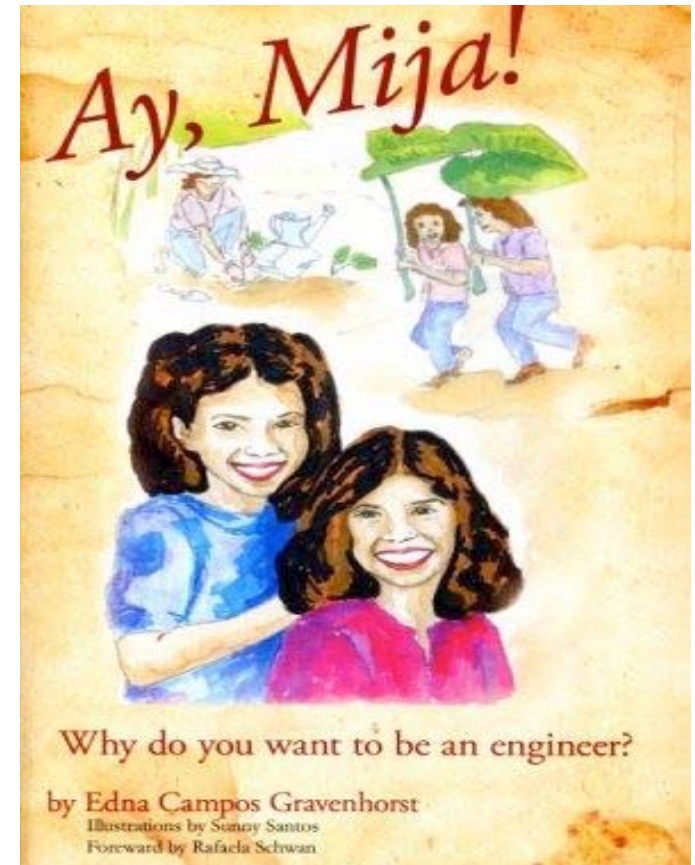
- SHPE/Loskitos Partnership Program
- Concept originated by Rafaela Schwan
- Provide information and content in the form of a story that will encourage students to become excited about engineering
- Target Audience:
 - **Middle school students**
- Content is bilingual
 - Serve as an ESL and Spanish enrichment tool
- Published bi-monthly (6 issues/year)
- Order form and process to purchase copies available from AHETEMS





¡Ay Mija! Book Project

- Book about 12 Latina engineers
 - Features Diana Gomez
 - Features Foreword by Rafaela
- Chicana author and historian Edna Campos Gravenhorst
- Proceeds from book sales fund AHETEMS Scholarship Endowment
- First in a 12-book series on STEM education





Recruitment and Retention

- Pre-College Academic enrichment programs to encourage students to
 - Join SHPE Jr. High School Program
 - Encourage to
 - Complete high school;
 - Attend a 4-year university;
 - Pursue a degree in STEM; and
 - Pursue a STEM career
- Undergraduate
 - Join SHPE Student chapters
 - Internship Programs
 - Scholarship Program
 - Provide Tutoring and Mentoring



Undergraduate & Graduate Program

● Supportive programs

■ Academic Recognition Programs

- Tours
- Awards

■ Scholarships

■ Internships

■ Tutoring and Study Workshops

■ Mentoring Programs



NTCC Pre-Conference GRE Prep & Exam Institute

- Inaugural event for NTCC 2007
- For juniors and seniors intending to apply to graduate school by January 2008
- Practice GRE exam and workshops on test-taking strategies hosted by Kaplan Educational



NTCC Pre-Conference Graduate Institute

- One-day of focused-seminars on graduate student issues, and faculty and research careers
 - curriculum vitae, faculty search, getting published, dissertation process, writing effective proposals, post-doctoral opportunities





GEM Future Faculty and Professionals Symposium

- In partnership with GEM, SHPE provides fellowship to its doctoral students to attend the annual conference.
- Intent: Connect students with resources and opportunities for a tenure-track faculty career in academia.



SHPE/GEM Graduate Award

- Competitive, peer-reviewed award given to a full-time graduate student based on academics, teaching, research and service
- MS and Ph.D. Candidate Category
- Award presented at SHPE conference
- 2006-07 Application Now Available
 - **Deadline: September 30, 2006**



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