



Presentation to:

*White House Initiative on Education Excellence
for Hispanic Americans*

El Paso, Texas April 23, 2007



HENAAC Program Pipeline



← K-12 & Adult School



College



Grad School



Professional Career →

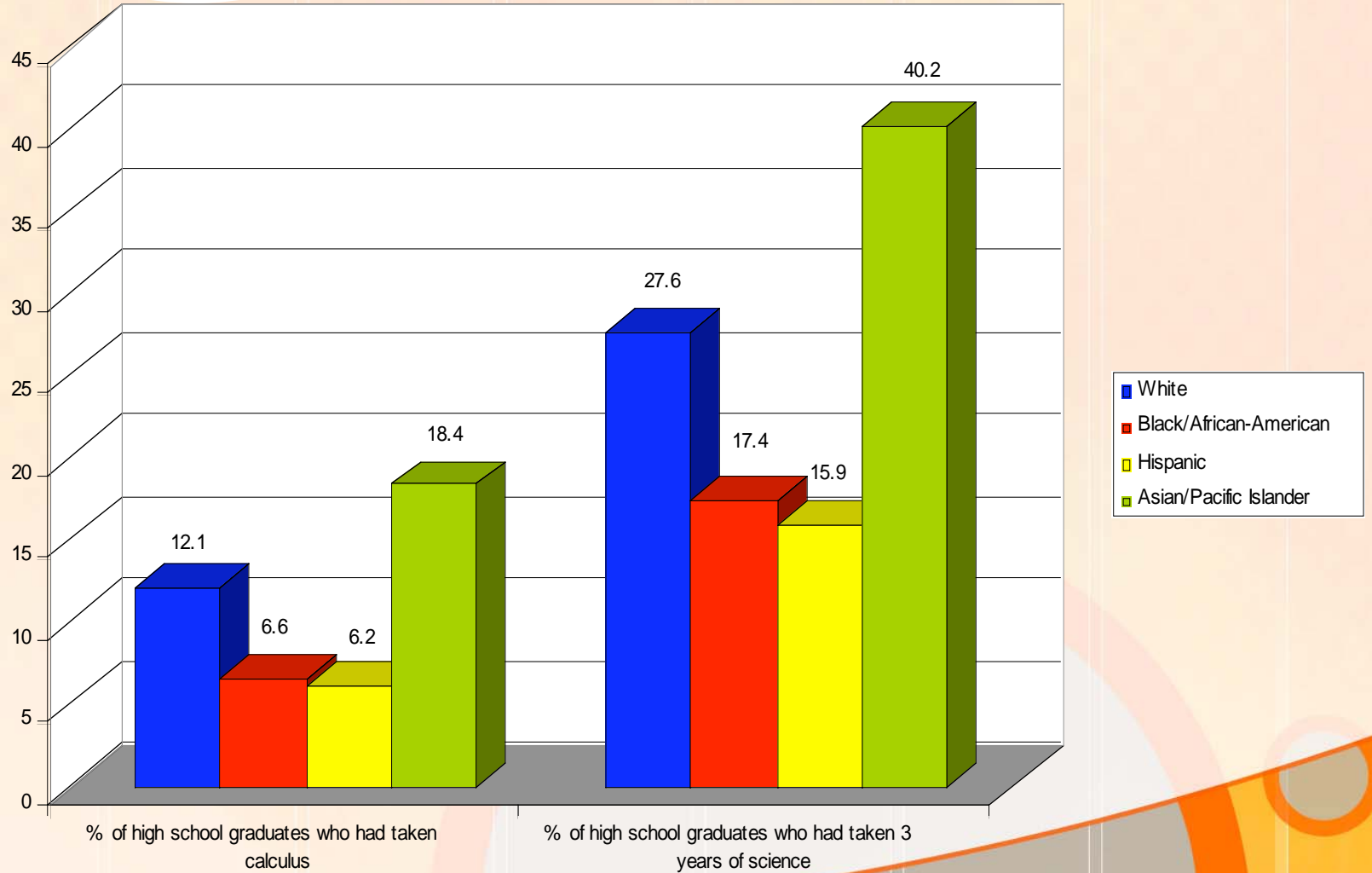




HENAAAC is the **interface**
between Technical
Careers and the Hispanic
Community



Level of Preparedness in Math and Science in High School, By Race and Ethnicity (2001)



“The Under-Tapped Minority Pool”

Approximately 690,000 minority students graduated from high school in 2002.

Only 28,300 (4%) were considered “engineering eligible” based on courses taken and grades.

Of these, 16,800 (59%) enrolled as freshmen in engineering schools out of 107,000 total engineering admissions.

Source: NACME Symposium 2005- DATA BOOK - CPST, data derived from NCES and EWC, 2002

The Program & Mission

The Viva Technology

- U S Technical Labor Shortage
- Inadequate University Hispanic Enrollment in Engineering & Science
- Inadequate Hispanic Completion of Calculus by the 12th grade
- Inadequate Hispanic Completion of Algebra by the 8th grade
- In the inner cities - Students, Parents/Child Care Providers & Teachers need Math help.
- The need for more math & Science teachers



Awareness

Motivation

Preparation
(School & College)

Adaptation





Awareness

- 1. *Making sure students, teachers & parents know what engineers & scientists do***
- 2. *Have our students meet and interact with engineering and science role models***
- 3. *Provide steps on how to prepare to go to college and enroll in a STEM degree program***



Motivation

- 1. Hands on activities provide a context to why studying math and science is important.**
- 2. Engineering, Science and Technology careers can be very lucrative.**
- 3. Individuals from our communities have done well in engineering and science.**



Adaptation

- 1. Each school has different economic and ethnic demographics***
- 2. Understand the issues the Principal is facing on each campus***
- 3. Focus on the parent educational background and language base***

Over 5 Years of Creating Public/ Private/ Non-profit Partnerships with 35,000 families, students and teachers



Raytheon



HACIA



Roosevelt High School Complex

- *Elementary Schools*

1. *Breed*
2. *Bridge*
3. *Dena*
4. *Euclid*
5. *Evergreen*
6. *First*
7. *Lorena*
8. *Malabar*
9. *Second*
10. *Sheridan*
11. *Soto*
12. *Sunrise*
13. *Utah*

- *Middle School Schools*

1. *Hollenbeck*
2. *Stevenson*
3. *Belvedere*

- *High School*

1. *Roosevelt*





Proposed Viva Technology Pilot Program

Per Semester

- *Paid School Site Coordinator*
- *2 Viva Assemblies*
- *8 Student Sessions*
- *1 Parent Orientation*
- *1 Teacher Orientation*





Proposed Viva Technology Pilot Program

Viva Team Per Session

- 2 Viva Staff
- Paid School Site Coordinator
- 2 -5 Hispanic Engineers
- 2 – 5 College Students





Proposed Viva Technology Pilot Program

Per Semester



1 Paid School Site Coordinator

A stipend will be assigned to a school for a site coordinator to serve as the school liaison to Viva Technology. This individual will assist with selecting dates, promotion, recruitment, and data collection for all Viva Activities that take place on his/her school campus.

2 Viva Assemblies

A Technology themed assembly geared toward specific grade levels. Up to 600 students per assembly.



Proposed Viva Technology Pilot Program

Per Semester



8 Student Sessions

8 students sessions that are 1 hour and 30 minutes each are designed for Afterschool or Before-school programming. Each session provides hands-on STEM activities designed around specific college majors and careers. At the end of the 8 sessions a ceremony and certificate of completion are provided to students who participated in at least 50% of the sessions. Special recognition is also given for perfect attendance. Each Session is designed for up to 100 students.





Proposed Viva Technology Pilot Program

Per Semester

1 Parent Orientation

Provide a bilingual orientation to parents that is 1 hour and 30 minutes in length. Parents will learn about the many career advantages future college graduates with STEM degrees will enjoy. They receive current information from the Department of Education, surrounding Universities, and HENAAC on everything from planning summer enrichment activities, to the PSAT & SAT, to latest salaries and trends. Invitations can be sent to specific grade levels and/or the entire school.



1 Teacher Orientation

Up to 20 teachers will have the opportunity each semester to participate in a 2 hour orientation on the STEM Crisis. They will receive visual materials on STEM Careers and majors for their class-room and will learn about the many additional activities and websites that can be incorporated into the classroom regardless of the subject matter taught.



Proposed Viva Technology Pilot Program

*Questions & Answers?
Thank you for your time.*

