

El Paso, Texas April 23, 2007







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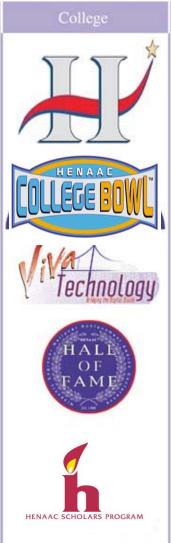
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- 2000 introduced VIVA Technology for K- 12 Students
 An interactive program that involves the student, parent & teacher involving the engineer, and the technical college students in the awareness & motivation of technical careers.
- 2007 Introduce & integrate the "Value Chain" into the Viva Technology program

HENAAC Program Pipeline





















What does

Viva Technology

bring to the school?





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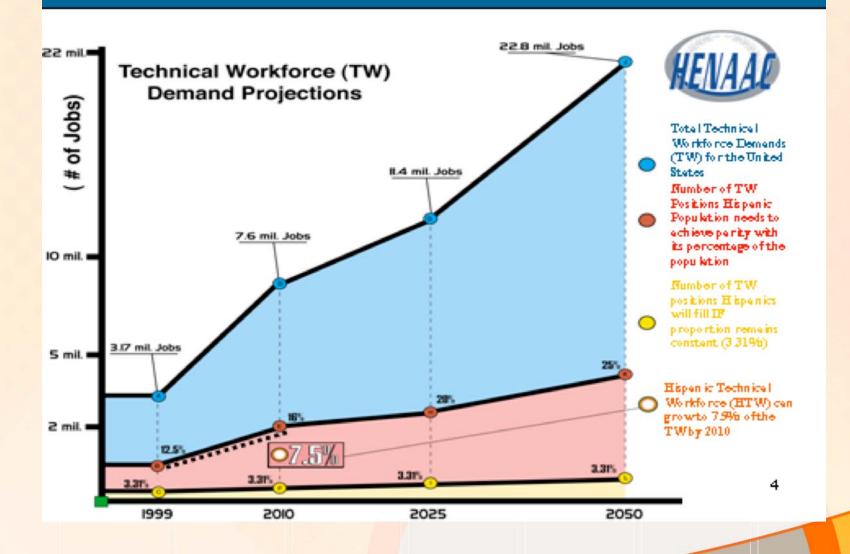
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- We will Involve the Corporations and Governments that hire a technical work force directly in the Viva Technology program
- We will help manage and sustain a "Value Chain" 4th –
 12th grade and into college.



HENAAC is the interface between Technical Careers and the Hispanic Community

"Technical Workforce Projection"



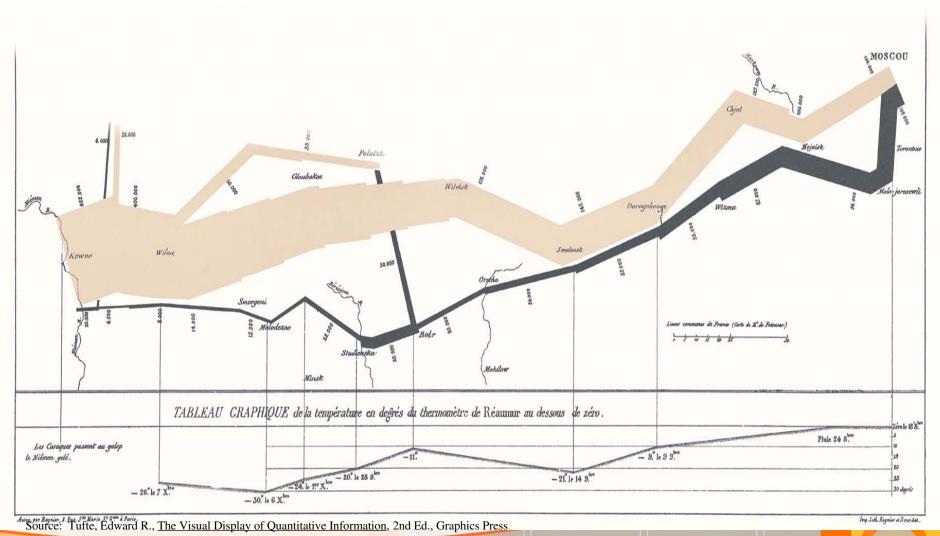


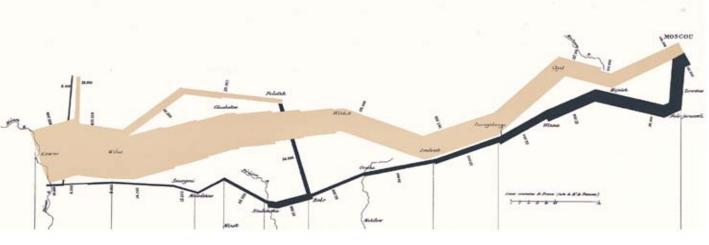
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Napoleon's March to Moscow, 1812



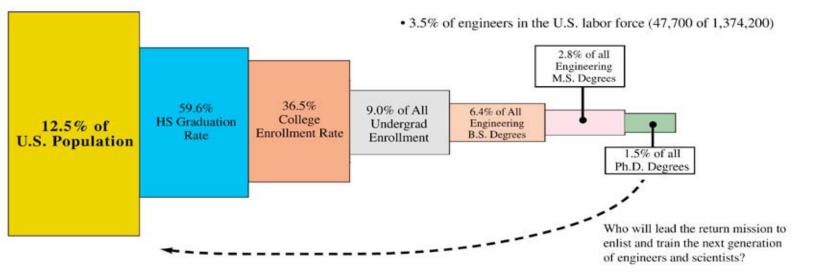


Napoleon's 1812 Invasion of Russia

- 422,000 Men left poland to Russia
- · 100,000 Men arrived in Russia
- · 10,000 Men returned to Poland
- 1813 Fall of Napoleonic Empire

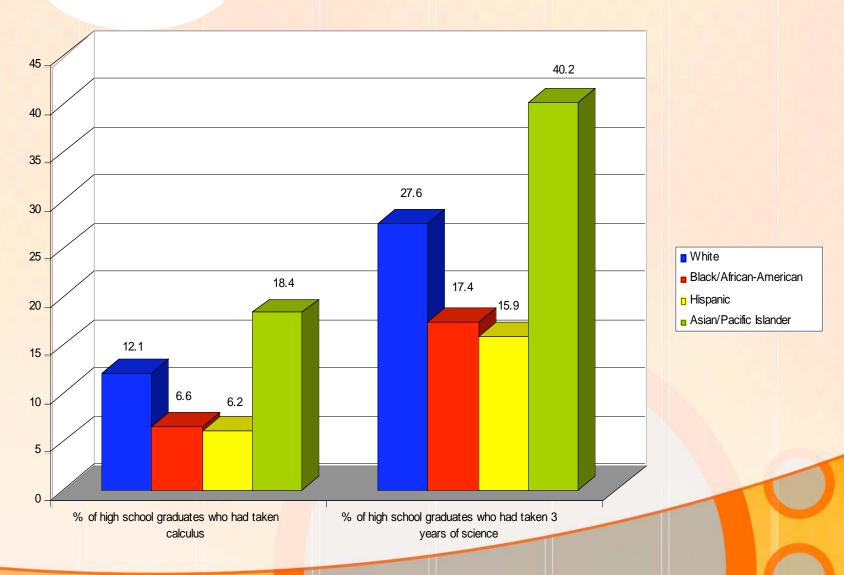
Hispanic Attrition

- 12.5% of total U.S. population (35.3 million of 281.4 million)
- 59.6% high school graduation rate among Hispanics 18- to 24-years of age
- 36.5% college enrollment rate among Hispanic high school graduates 18- to 24-years of age
- 9.0% of total college undergraduate enrollment (1,107,800 of 12,298,300)
- 6.7% of total undergraduate engineering enrollment (24.264 of 362,149)
- 6.4% of all engineering B.S. degrees awarded in the U.S. (4,101 of 63,635)
- 2.8% of all engineering M.S. degrees awarded in the U.S. (851 of 30,453)
- 1.5% of all engineering Ph.D. degrees awarded in the U.S. (82 of 5,336)





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



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"Top 10 U S Universities Colleges of Engineering" Largest Enrollment



10.	U Mich. Ann Arbor	7757	315	4.0
9.	U. T. Austin	5031	709	14.1
8.	Cal Poly SLO	5426	434*	8.0
7.	U. Illinois Urban.	5434	209	3.8
6.	Virginia Poly Inst.	5466	120	2.2
5.	N C State Ral.	5599	161	2.8
4.	Penn State	5986	140	2.3
3.	Texas A&M	6096	722	11.8
2.	Purdue U	6358	138	2.1
1.	Georgia Inst. Tech	7757	315	4.0

"Top 10 U S Universities Colleges of Engineering" - Hispanic Enrollment

10. U Central Florida	4040	581	14.3
9. U.T. Pan Am	743	604	84.0
8. U.T.S.A.	1409	626	44.2
7. CCNY	2338	640	27.3
6. U.T. Austin	5031	709	14.1
5. U. Florida	4741	711	15.0
4. Texas A & M	6096	722	11.8
3. Cal Poly Pomona	3735	990	26.5
2. Florida Int. U	2118	1131	53.3
1. UTEP	2116	1483	70.0

"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

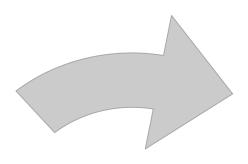


The Program & Mission What do we Know?



- 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

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Preparation

(School & College)

Adaptation

"An Experience in Engineering and Science"

- Viva Program evolves around
 - ► The Student
 - ► The Teacher
 - ► The Parent









The Program & Mission



The Story

"Jessica's Story"