

Center for Minority Achievement in Science and Technology

Organizational Overview



Presented to

Workforce and Education Committee
Northern Virginia Technology Council

September 18, 2009

Cause for Concern

- A strong consensus is emerging among scientific, business, and education leaders that America's ability to innovate and compete in the global marketplace is directly tied to the ability of our public schools to adequately prepare all students in science, technology, engineering, and math.
- As highly educated workers retire and this country experiences wide-ranging changes in demographic patterns, the existing U.S. labor force, based on historical trends, will be replaced by mounting numbers of Latinos and African Americans who are far less likely to earn college degrees.
- To maintain U.S. dominance in technological innovation, we must act swiftly and decisively to ensure that we are encouraging and preparing young students, particularly minorities, to enter the engineering and technology workforce.



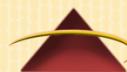
Magnitude of the Problem

- In 1995, US 12th graders performed below the international average for 21 countries on a test of general knowledge in mathematics and science.¹
- Non-Hispanic white males still account for more than half (57,4%) of engineering undergraduates even though this group represented just 29% of all undergraduate students.²
- Under-represented minorities earned 12.9% of the nations 66,133 bachelor's degrees in engineering awarded in 2005.²
- Women represent just 9.5% of the nearly 1.5 million bachelor's-degreed engineers employed in the United States.²
- In more than half the states (29), the four-year graduation rate for public high schools is below 75 percent.³

¹ Rising Above the Gathering Storm (National Academy of Sciences) 2007

² Confronting the New American Dilemma: A Data-Based Look at Diversity (CPST) 2008

³ Adding It Up: State Challenges for Increasing College Access and Success (Making Opportunity Affordable) 2007



Increased Calls for Action

“Addressing these issues will take commitment, leadership, and partnership on the part of government, private, and non-profit sectors.”

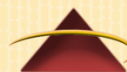
Bill Gates Testimony before the Committee on Science and Technology. U.S. House of Representatives. March 2008

“The Board [National Science Board] recommends that Congress pass and the President sign into law an act chartering a new, independent, and non-Federal [Council] . . . to coordinate and facilitate STEM education initiatives across the Nation . . . “

National Action Plan for Addressing the Critical Needs of the U.S. Science, Technology, Engineering, and Mathematics Education System. National Science Board, October 2007.

“More than 200 federal education programs exist to promote STEM careers, but evaluation and coordination are lacking”

Testimony of Cornelia M. Ashby, Director, Education, Workforce, and Income Security Issues before the Committee on Education and the Workforce, House of Representatives. U.S. Government Accountability Office. May 2006.



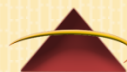
Center for Minority Achievement in Science and Technology

Vision

To distinguish minorities and women as invaluable resources necessary to develop as well as sustain a diverse and globally competitive 21st century workforce in the Washington Metropolitan Area.

Mission

Working with all regional stakeholders, we will create innovative solutions, implement proven strategies, and expand opportunities critical to attracting, retaining and advancing minorities and women in the areas of science, technology, engineering and mathematics.



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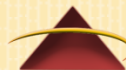
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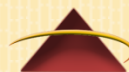
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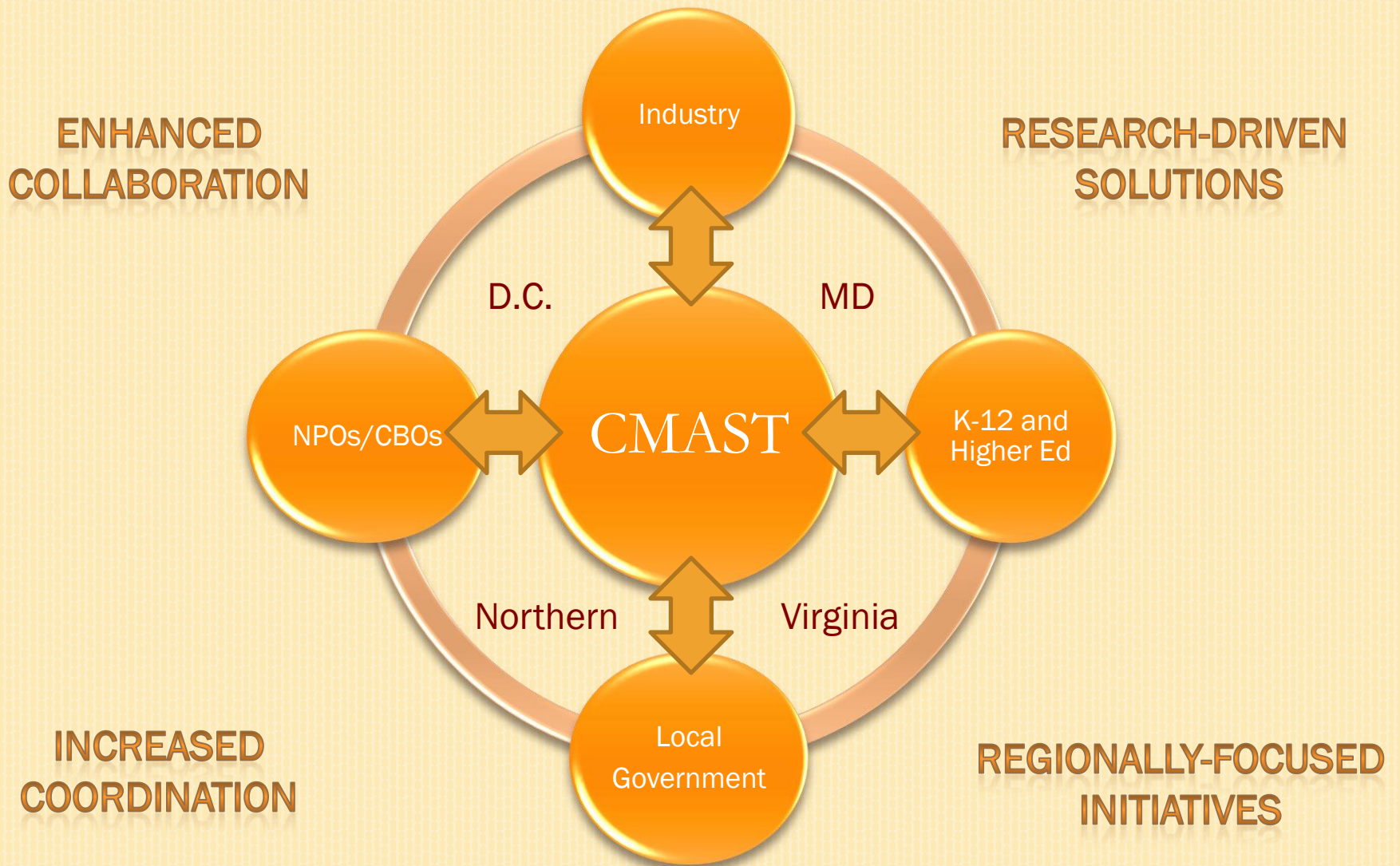


Our Approach to Solving the Problem

- Identifying and assisting in expanding educational opportunities that will significantly increase minority enrollment, retention, and graduation rates leading to increased employment, placement, and career advancement for minorities in the STEM workforce.
- Promoting collaboration between education, business, government, and community organizations to create an organized network of resources, mentors, and funding crucial to creating and maintaining effective STEM education and outreach initiatives.
- Developing targeted media and print campaigns that create awareness of opportunities in science and technology.
- Serving as a clearinghouse for STEM programs, information, and resources dedicated to building a stronger, more diverse U.S. workforce in science, technology, engineering, and mathematics.

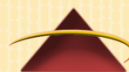


Our Model



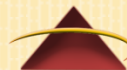
Programs and Services

- ❖ Collaborative Stakeholder Activities
- ❖ STEM-Focused Parent and Community Workshops
- ❖ Building K-12 and Corporate Partnerships
- ❖ Public Awareness and Media Campaigns
- ❖ Web Portal for STEM Resources and Information
- ❖ Consulting Services (e.g., Research, Program Development)
- ❖ Panelists and Guest Speakers
- ❖ Regional STEM Awards and Gala
- ❖ STEM Education Advocacy
- ❖ Regional STEM Roundtable



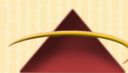
Upcoming Events and Activities

- ❖ BRAC and STEM Education Roundtable (October 1)
EduSerc Annual Career and Professional Development Conference
- ❖ Regional Science and Technology Expo (November 2009)
Constitution Center, Washington, DC
- ❖ Phase 3 Launch of USAGraduate.com (January 2010)
- ❖ Official CMAST Launch Party (February 2010)
Omni Hotel, Washington, DC
- ❖ 2nd Annual Regional STEM Roundtable (March 2010)
In Partnership with US FIRST DC Region, Washington Convention Center



Programs and Initiatives Under Development

- ❖ Program Development & Sponsorship Partner with USAGraduate.com
- ❖ STEM Summit (Tech Council of Maryland)
- ❖ Development of a DC STEM Coalition
- ❖ Teacher Professional Development Program (Teach for America)
- ❖ STEM Exhibition (Martin Luther King Library, Washington, DC)
- ❖ Research Partnership with Reasoning Mind
- ❖ Inaugural Science Festival in Washington, DC (Fall 2010)



“If you can solve the education problem, you don’t have to do anything else. If you don’t solve it, nothing else is going to matter all that much.”

- ALAN GREENSPAN, FORMER FEDERAL RESERVE CHAIRMAN
