

BALTIMORE COUNTY PUBLIC SCHOOLS

DATE: October 11, 2011

TO: **BOARD OF EDUCATION**

FROM: Dr. Joe A. Hairston, Superintendent

SUBJECT: **REPORT ON THE MARYLAND BUSINESS ROUND TABLE
(MBRT) PARTNERSHIP**

ORIGINATOR: Joe A. Hairston Superintendent

**RESOURCE
PERSON(S):** June Streckfus, Executive Director, MBRT

INFORMATION

That the Board of Education receives an update on partnership between MBRT and Baltimore County Public Schools (BCPS).

Attachment I – PowerPoint Presentation

Maryland Business Roundtable for Education



Baltimore County Board of Education



October 11, 2011



Our history in Baltimore County



1999



2007

2011



1999

Today



80 speakers



394 speakers

Our history in Baltimore County

1999 ↓ 2007 2011
2004

Maryland Scholars Speakers Bureau

Give a day...
change a mind.

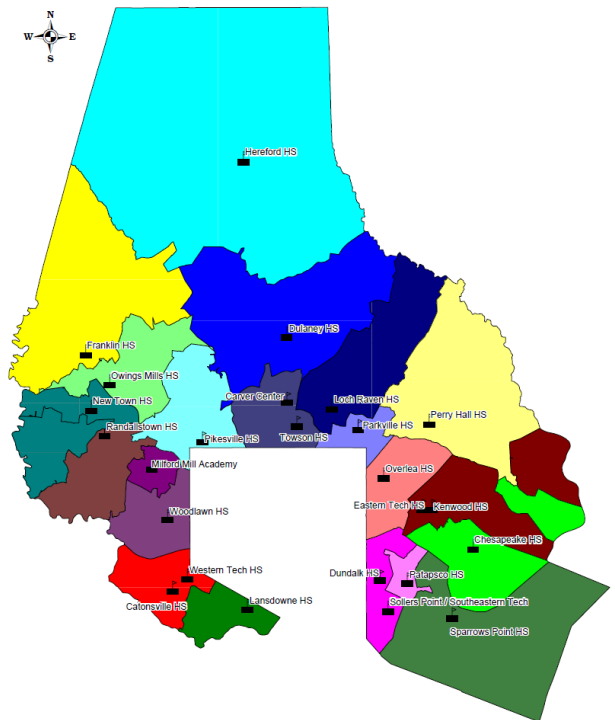


Achievement Counts **SpeakersBureau** 2011-2012 TRAINING MANUAL

www.mbrt.org/speak



100% of BCPS high schools



Maryland Scholars

STEM-focused Course of Study



4 Credits of English

3 Credits of Math

(Algebra I, Geometry, Algebra II)

3 Credits of Lab Science

(Biology, Chemistry, Physics preferred)

3 Credits of Social Studies

(U.S. History, World History, Government)

2 credits of same Foreign Language

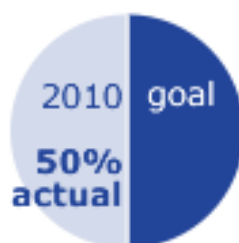
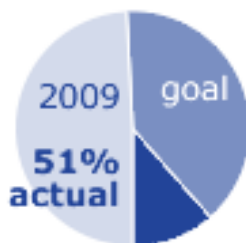
Students must attain
a 2.5 GPA to qualify.

Yellow = exceeds MD graduation requirements

Maryland Scholars Impact



**7,500 more college/career
ready graduates
in 2009 and 2010.**



Actionable data



Are these 250 juniors on track for Maryland Scholars?

18 Currently qualify as Maryland Scholars

73

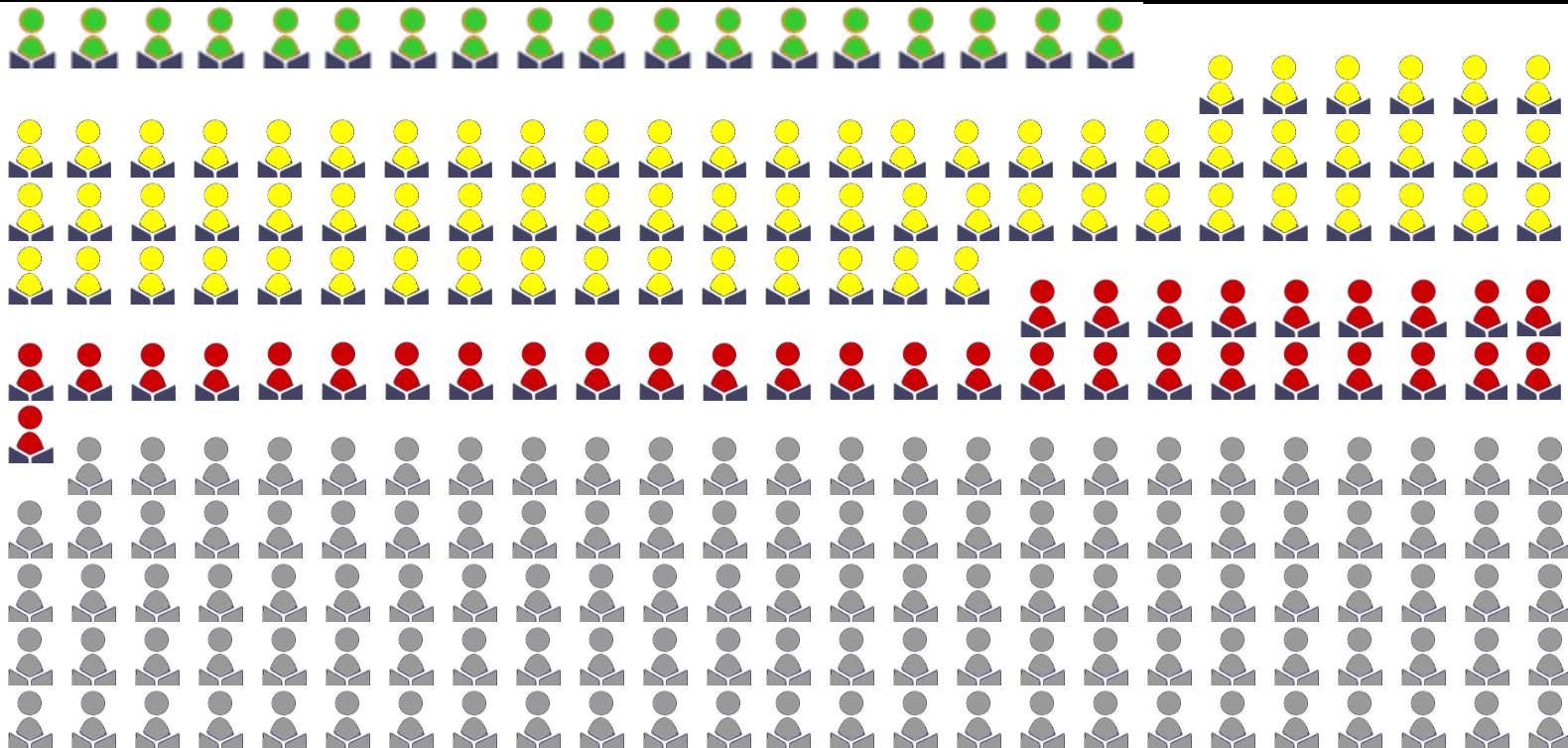
Need 1 lab or
small bump
in GPA

35

Need
2 or more
courses

124

Cannot
qualify



Online campaign in Baltimore County

1999

2007

2011

Student outreach
Baltimore County

What do **YOU** want to be?



Go ahead

Try on a future. See what fits.
BeWhatIWantToBe.com
A web resource for Maryland middle and high school students

What's inside for teens:
What careers are out there for you?
What do you want out of life?
How can you prepare now?

Why visit:
Find tips on jobs, money, and life.
Set goals, take action, and earn points.
Win prizes ... ranging from iPods, to internship & scholarship connections, to cash.

Sign Up Today
for your **FREE** personal account at
www.BeWhatIWantToBe.com/baltimorecounty

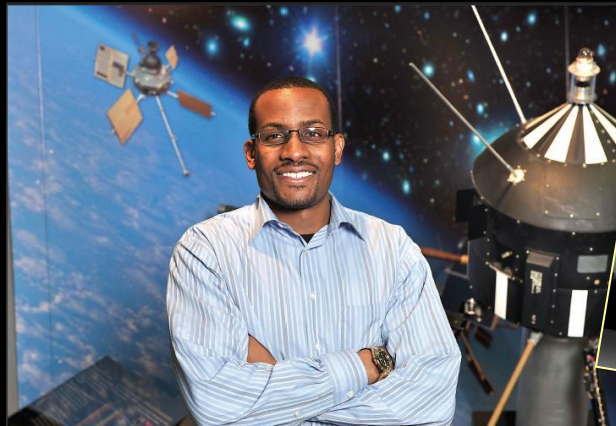
A project of the Maryland Business Roundtable for Education
www.MBRE.org

BeWhatIWantToBe.com

2,330 BCPS students

Setting career and college goals online

The Magazine: 8,650 copies delivered to BCPS students



Nathaniel ENGINEER, NORTHROP GRUMMAN

How did you get to where you are today?

I think it's important for young people in particular to learn to value others and themselves without comparison. This understanding did not hit home with me until after high school, but I'm blessed to have it now.

When I was in high school, I was not particularly studious. I earned average grades and had an average interest in education. Then I walked into a conceptual physics class. After taking that course as a junior, I developed a desire to learn more about physical principles; however, I was one course short of having enough math credits to take the next level physics course (AP Physics) as a senior. I was given a choice of either taking another science as a senior or taking a pre-calculus course over the summer in order to take the AP Physics course with calculus concurrently. I chose the latter. ... Funny as I think about it

now, at the time the decision to take pre-calculus in the summer seemed more like, "do you want a whole summer break to relax or do you want to spend a good chunk of it in a hot school toilet over math problems all day?" Who knew so much hung in the balance?



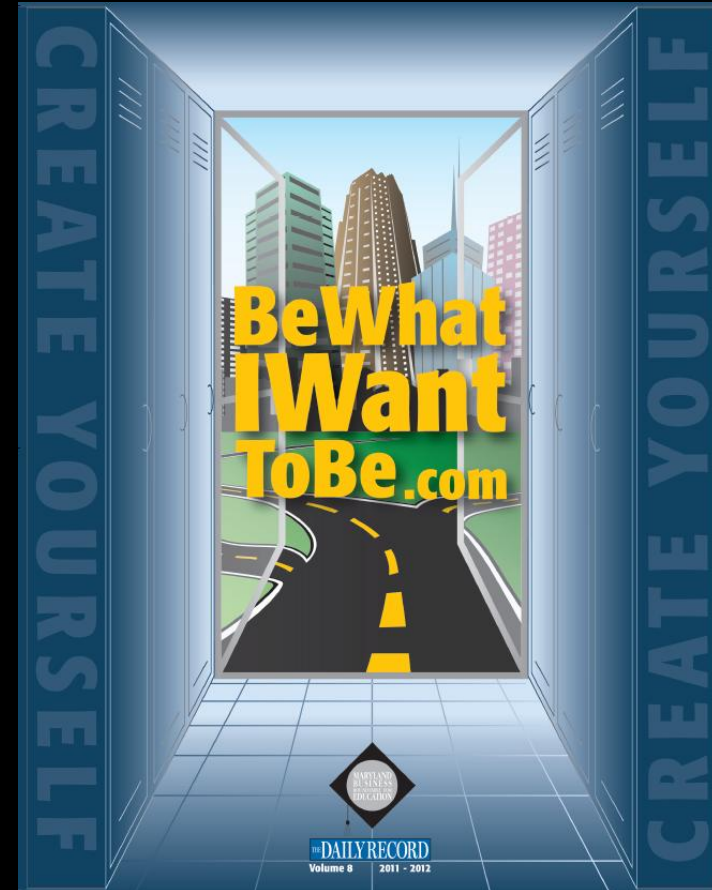
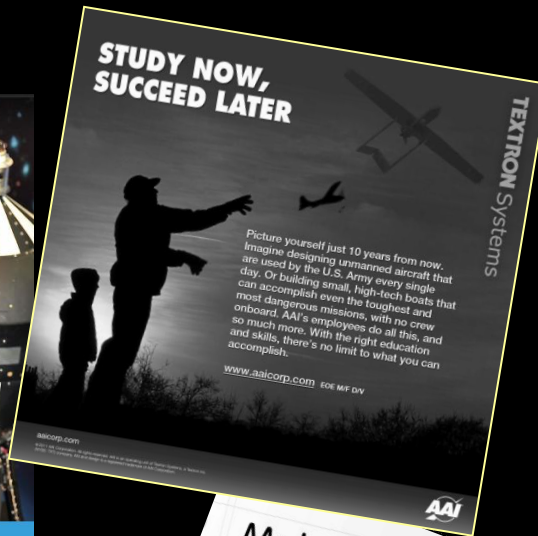
My Choices & Key Decisions

I suspect there are a few times in life when one has an opportunity to make a life-defining decision, but this was one for me. That decision started me on a series of decisions that took me from an average student to being accepted into Drexel University's College of Engineering. I then moved on to the master's in electrical engineering at Penn State and, then, taking my advisor's advice, gave the Ph.D. entry exam a shot and next graduated with my Ph.D. in electrical engineering. I now work for one of the leading global security companies, Northrop Grumman.

The Shipley School
Bryn Mawr, PA
High School Diploma

Drexel University
Philadelphia, PA
Bachelor of Engineering

1341 BeWhatIWantToBe.com



THE DAILY RECORD

Our history in Baltimore County

1999

2007

2011

2010

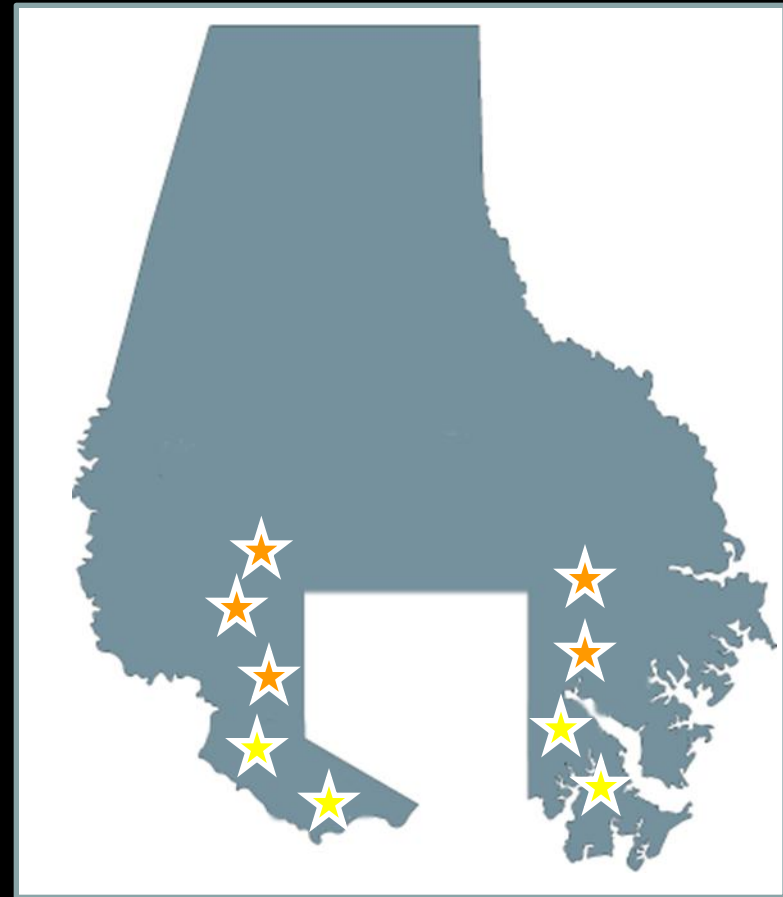
College Access

Middle school outreach



2010

2011



History of STEMnet: MBRT Role

2009

2010

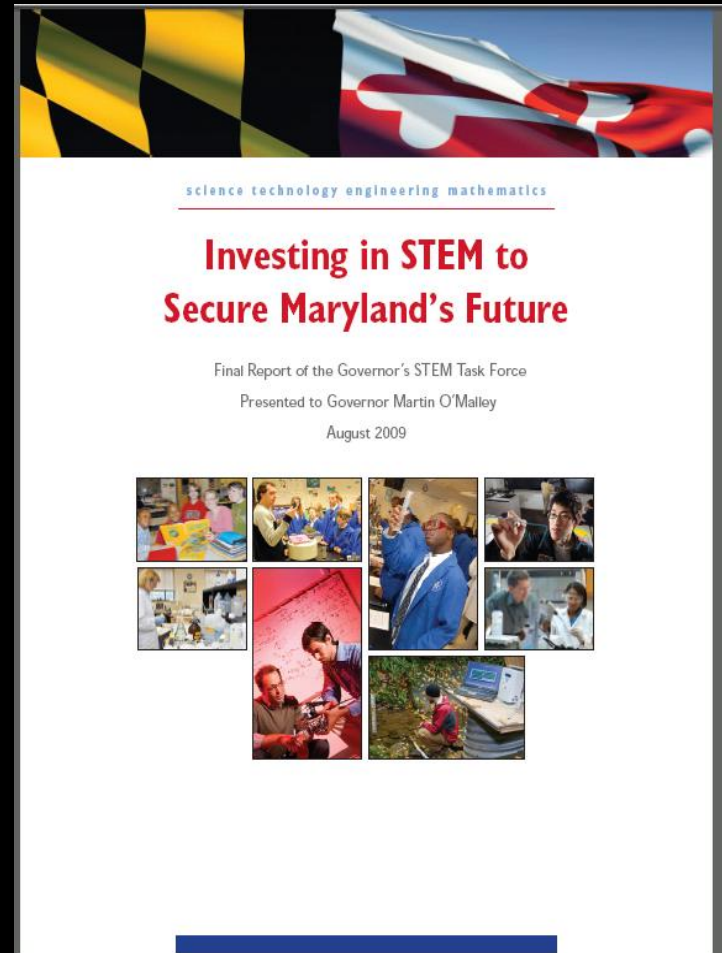
2011

August
2009

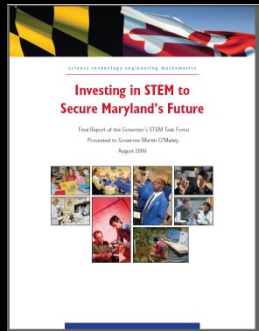


The Governor's
P-20 Leadership
Council of
Maryland

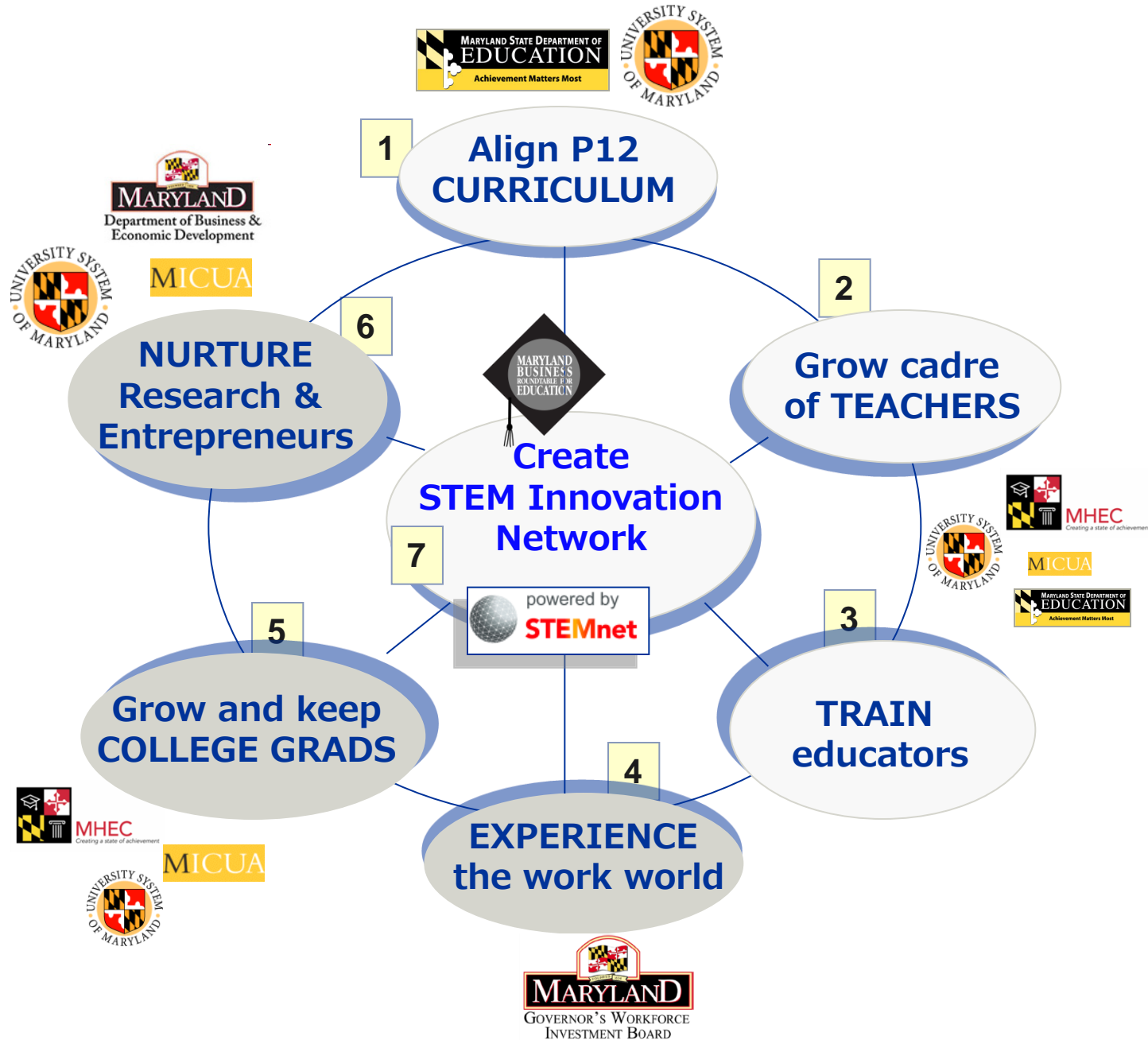
**STEM
Task Force**



Governor
charges
leaders
for all
7 areas



MBRT
charged to
lead STEMnet



STUDENT HUB

**Practice a
STEM career**



powered by
STEMnet

PARENT HUB



History of STEMnet: Teacher Hub

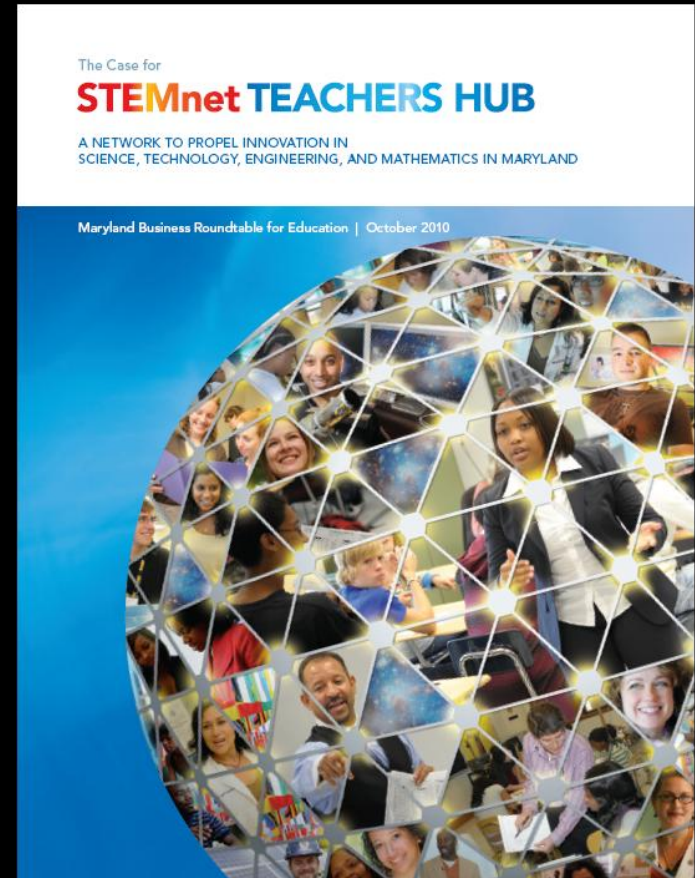
2009

2010

2011

The first hub
of **STEMnet**
for teachers

MBRT conducts
market research
with educators



Teachers speak out 54 BCPS educators in MBRT survey



TEACHERS HUB

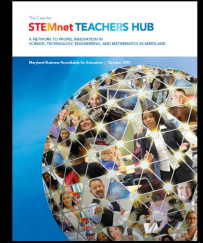


BIOLOGY SPECIALISTS IN THE CLASSROOM



powered by
STEMnet

Biology content areas of specific support

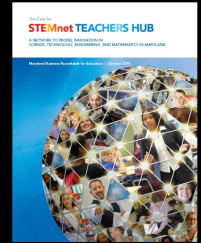


1. Molecules
2. Cells
3. Genetics
4. Evolution
5. Organism interdependence
6. Biological investigation



Scientific Practices

areas of specific support



1. Hypotheses
2. Investigation
3. Data
4. Evidence



How it works for the **SPECIALIST**

1

Create your
account

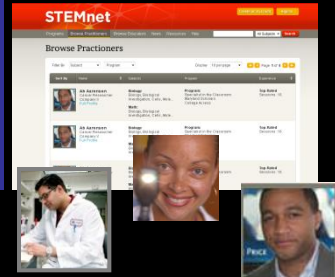


2

Select and complete
training

3

EDUCATORS browse Specialists
& invite them to sessions



4

Accept the invitation

Plan the session with the educator
Complete the session
Give feedback



How EDUCATORS find SPECIALISTS

STEMnet

Create an AccountSign In

ProgramsBrowse PractitionersBrowse EducatorsNewsResourcesHelp



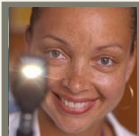
All SubjectsSearch

Browse Practitioners

1 See everybody

Filter By Subject Program Display 10 per page

2 Sort how you like

Sort By	Name	Subjects	Program	Experience
	 Ab Aaronson Cancer Researcher Company X Full Profile	Biology: Biology, Biological Investigation, Cells, Mole... Math: Biology, Biological Investigation, Cells, Mole...	Program: Specialist in the Classroom Maryland Scholars College Access	Top-Rated Sessions: 10.
	 Ab Aaronson Cancer Researcher Company X Full Profile	Biology: Biology, Biological Investigation, Cells, Mole... Math: Biology, Biological Investigation, Cells, Mole...	Program: Specialist in the Classroom Maryland Scholars	Top-Rated Sessions: 10.
	 Ab Aaronson Cancer Researcher Company X Full Profile	Biology: Biology, Biological Investigation, Cells, Mole... Math: Biology, Biological	Program: Specialist in the Classroom Maryland Scholars College Access	Top-Rated Sessions: 10.

3 Get details + invite if you like

Educator

Menu +

Dashboard

Create/Manage Users

Create a Session

Session Details

Session Details - Mathematics in the Workforce
With a Long TitleSubject: **Mathematics**Status: **Accepted** ●

Notes:

Aenean elementum, est vitae aliquet
egget pretium nunc erat eget metus. Donec
viverra mattis vestibulum. Nam
euismod felis lectus, ac mattis aenean
elementum.

School Information:

Bowie High School

Aenean elementum, est vitae aliquet
mattis, orci magna rhoncus quam, eget
pretium nunc erat eget metus. Donec
viverra mattis vestibulum. Nam
euismod felis lectus, ac mattis aenean
elementum.

938 York Road
Baltimore, MD 21204
United States

See map: [Google Maps](#)
Fax: 4107699114
[Website](#)

[Back](#) | [Cancel Session](#) | [Edit Session](#) | [Submit Survey](#)
Want to
change it?Details
of the session

Details

Preferred Date: **Sept. 22 9:00 am**

Alternate Dates: Sept. 23 8:00 am

Sept. 30 1:00 pm

Reschedule

Practitioner:

Paige
Wong

Educator(s):

Justin
FranklinJohn
Smith

Release

Who is
coming?

Session History

Date	Past Status	Current Status	Initiated by	Comments
Tue, 05/31/11 6:49pm	● P	● A	Bill Smith	Phasellus quis nibh ut justo fringilla interdum quis at l
Tue, 05/31/11 6:49pm	● P	● C	Bill Smith	Phasellus quis nibh ut justo
Tue, 05/31/11 6:49pm	● P	● R	Bill Smith	Phasellus quis nibh ut justo
Tue, 05/31/11 6:49pm	● P	● P	Bill Smith	Phasellus quis nibh ut justo

Messages back-n-forth
with specialists

Fall 2011

Biology

Proof-of-concept



BIOLOGY SPECIALISTS IN THE CLASSROOM



Catonsville HS
Woodlawn HS
Eastern Technical HS

Thank you.

Maryland Business Roundtable for Education

STEM Innovation

mbrt.org/stem

Biology Specialists

mbrt.org/bio

Maryland Scholars

mbrt.org/scholars

College Access

mbrt.org/collegeaccess

For parents

mbrt.org/parents

For students

BeWhatIwantToBe.com