



National Alliance for Partnerships in Equity STEM Equity Pipeline *Pipeline Press, August 2012*

Important Message!

To standardize communications, starting next month the *Pipeline Press* will be sent from NAPE@napequity.org. To ensure continued delivery of the *Pipeline Press*, please ensure that your email client recognizes NAPE@napequity.org as a Safe Sender.

Please continue to contact Greg Nagy at nagy.8@osu.edu

with all technical-related concerns and comments.

Resources

[Change the Equation](#) is soliciting applications by STEM learning programs that serve PK-12 students and teachers, in or out of school, for inclusion in the STEMworks database, which was developed to help business leaders and other funders identify and support programs that boost STEM interest and learning. First deadline is September 15, 2012.

The [Iowa Governor's STEM Initiative](#) has posted cool science experiments, fun math games, articles, and pictures on Pinterest.

Claudia Morrell, NAPE COO, wrote a short article, [Micromessaging: The](#)

PIPELINE NEWS

Dear STEM Leaders,

On August 6-9, 2012, in Dallas, Texas, the NAPE Education Foundation conducted its first training to prepare facilitators with the content knowledge, professional skills, and personal confidence to deliver the *Micromessaging to Reach and Teach Every Student* program while maintaining the program's high quality and fidelity.

As part of the *EE STEM Academy*, on August 13-17, 40 Baltimore County Public School secondary teachers and Community College of Baltimore County faculty from STEM disciplines met to both teach and learn about identifying and addressing the cultural barriers that students and educators bring into the classroom from both external influences and internal beliefs. These beliefs or implicit biases are often developed through *micromessages* in our culture that can be either negative or positive. The educators will continue to meet for the academic year culminating in a capstone research project to measure the impact of their self-selected interventions.

Ben Williams, our facilitator in Ohio, shared an article about [Leslie Nielsen](#), a licensed electrical engineer, who will teach the first-ever engineering class for all eighth-graders at Mansfield Middle School. The initiative is part of Project Lead the Way's Gateway to Technology, a national curriculum designed to stimulate students' interest in STEM. In the article, Ms. Nielsen discusses the importance of interesting girls and minorities in engineering and of sharing with students how they can move into other related technology fields, such as precision machine tooling and computer-aided drafting. Ms. Nielsen has received a mini grant from NASA to promote interest in STEM fields with students and parents during evening programs.

For access, equity, and diversity,

Mimi

NEWS FROM WASHINGTON

Women and Minorities in STEM Booster Act of 2012 (S. 3475)

On Aug. 1, Sen. Mary Landrieu (D-LA) introduced the Women and Minorities in STEM Booster Act of 2012 (S. 3475). The act would authorize \$10 million in Fiscal Years 2013, 2014, and 2015 for National Science Foundation (NSF) grants to nonprofit organizations and university departments that carry out "activities designed to increase the participation of women and underrepresented minorities in the fields of science, technology, engineering, and mathematics [STEM]." Such activities include online workshops, mentoring and outreach programs, and internships for undergraduate and graduate STEM students.

PUBLICATIONS

Summer Camps Try to Solve Silicon Valley's Gender Gap

Missing Link in Education Equity, which was distributed by Joan Runnheim Olson.

STEMinist aggregates and features stories about women in STEM.

CS Unplugged: An Engaging Way to Introduce Computing demystifies computing through hands-on activities.

Calendar

NGCP Extended Webinar Session- Increasing Program Impact: Best Practices in Collaboration
September 19, 2012, 11:00 AM-12:30 PM Pacific

Triangle Coalition for Science and Technology Education Conference, Arlington, VA, October 1-2, 2012

International Network of Women Engineers and Scientists Regional Conference, October 12-13, 2012, New Delhi, India

The 2012 STEMtech Conference, Kansas City, MO, October 28-31, 2012

Quick Links

National Alliance for Partnerships in Equity

STEM Equity Pipeline Project

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Erin Kim, CNN

Most school-aged girls spend July and August catching some Z's and sun. But for some girls, summer is all about learning HTML and developing mobile apps. A growing handful of summer camps are popping up around the country with the mission of teaching young women core skills in technology--a field dominated by men. [Read More](#)

What's in a Name? *L. Reasoner Jones, E. Vandenburg and P.E. Smith, Fairfax Times*

You are a technology teacher, and want to have a summer camp on materials engineering, introducing children to the wonders of manufacturing and packaging. So, you name the camp "Material Girl," after Madonna's famous song. Boys, are you interested? The authors ask after reading an [article](#) about a middle school summer camp named "Rocket Man." Girls, are you interested? You think to yourself, the name of a camp cannot matter. Nothing can be further from the truth. [Read More](#)

Aspiring Latina Astronaut Is Working to Improve Space Cuisine *Kristina Puga, NBC Latino*

One of Dr. Yajaira Sierra-Sastre's first vivid memories was when she was in kindergarten and her dad picked her up to look at the stars. Since then, it has been her dream to become an astronaut. At 35, the small-town girl raised in Arroyo, Puerto Rico, has completed a PhD in nanomaterials chemistry at Cornell University, and she is just a few months away from her goal of working with NASA. [Read More](#)

In Google's Inner Circle, a Falling Number of Women *Claire Cain Miller, New York Times*

At Google, data is king. Now the company is using data to figure out if it can anoint a few queens. The company hopes its famous algorithms can solve one of the most vexing problems facing Silicon Valley: how to recruit and retain more women. [Read More](#)

Women Bridge Computer-Science Gap *Kristyn Schiavone, Tribune Media Services*

Although computer science is one of the fields poised for exponential job growth over the next several years, there's a glaring lack of women entering the field. Since 1984, the number of computer science degrees awarded to women has steadily declined. Accordingly, top jobs in the field are male-dominated. It's clear women aren't pursuing technology careers, but why? [Read More](#)

A Different Kind of Diversity: The Changing Face of Engineering Education

David Goldberg, Huffington Post

This article about diversity in engineering has a specific focus on race and gender. [Read More](#)

Maykah Builds Girls' Interest in Science *Ellen Lee, San Francisco Chronicle*

Three female students from Stanford University have teamed up to form Maykah, a startup aiming to create toys that encourage young girls to study STEM. Their first toy is Roominate, a dollhouse for girls to build, from decorating it with wallpaper to installing the circuits that power the lights, fans and door buzzer. [Read More](#)

Industry, Educators Build In-roads to STEM Success *Vince Bertram, US News & World Report*

Many communities recognize the value of STEM education for regional economic development and are forging meaningful partnerships between schools and nonprofits as well as business and industry leaders. The time for action is now, and work in California and Kentucky exemplifies real, scalable solutions. [Read More](#)

Readers' Corner

Sexual Harassment and Bullying: A Guide to Keeping Kids Safe and Holding

Schools Accountable by Dr. Susan L. Strauss (reviewed by NAPE COO, Claudia Morrell)

This a thoughtful, carefully constructed, easy to read, and thoroughly researched book that helps the reader step through the laws, the research, the verbiage, and the practices in a sensitive and clear manner. The book connects the various components in a clear and meaningful way and provides studies to support arguments, anecdotes to illustrate points, and research about a culture that continues to allow bullying and sexual harassment--two sides of the same coin. Of particular use are Chapters 11 and 12, which provide actionable points for discussion leading to system change. The book not only presents the problems that pervade our schools, but also looks at what we can do to change them.