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## News from Baltimore

Honeywell Hometown Solutions deploys community initiatives in Baltimore that focus on the company's pillars of service: Science & Math Education, Housing & Shelter, Family Safety & Security, and Habitat & Conservation. With the collaboration of community groups and partner organizations, we teach middle school students that science can be fun through FMA Live!, our partnership with NASA, and Honeywell SciGirls at the Maryland Science Center. Honeywell Educators @ Space Academy gives teachers in Baltimore the opportunity to apply for scholarships to spend one week at the U.S. Space and Rocket Center in Huntsville, Alabama. We also partner with Living Classrooms to enhance student achievement in science and math while providing environmental awareness and with Rebuilding Together Baltimore to give families warmer and drier homes in the Turner Station community.

### Forty Years after the First Lunar Landing Baltimore Middle School Girls Embark on Their Own Mission - An Exciting Summer Science Camp

*Maryland Science Center and Honeywell Partnered for the Third Year to Offer Honeywell SciGirls at MSC; an Innovative Summer Camp Designed to Promote Science and Build Relationships*



2007 SciGirl, Eden Bartlett (center), helps 2009 SciGirls construct an earthquake-proof house.

Forty years after the first lunar landing, more than 60 Baltimore-area middle school girls embarked on an exploration of a lifetime.

Their journey began at Honeywell SciGirls Camp at the Maryland Science Center (MSC), where the young women explored flight, engineering, the human body and nature by launching rockets,

### Honeywell Educators @ Space Academy



In June, 33 Maryland middle school teachers joined 288 teachers from around the world at Honeywell Educators @ Space Academy, a learning adventure of a lifetime at the U.S. Space and Rocket Center in Huntsville, Alabama. Teachers took part in real-life astronaut training exercises, including a high-performance jet simulation, scenario-based space missions, land and water survival training, and a state-of-the-art flight dynamics program. All lessons correlate to National Science and Math Standards and are ready to use in the classroom.

### Honeywell's Adventures in Environmental Leadership



Last Spring, Honeywell Hometown Solutions and the Living Classrooms Foundation

designing earthquake-proof houses, analyzing blood and exploring the Chesapeake Bay's watershed.

For the third consecutive year, the Maryland Science Center and Honeywell partnered to host this exciting science summer camp that offered the students an unprecedented opportunity to see how science and engineering really work. Nearly 200 Baltimore-area girls are now SciGirls.

"The SciGirls program is having an impact," said Maryland Science Center President and CEO Van Reiner. "We are encouraging girls to embrace their interest in science and helping them to envision their future as explorers, scientists, doctors, researchers, and women who can change the world."

"When I was a SciGirl, the camp exceeded my expectations," said Eden Bartlett, 2007 SciGirl and 2009 volunteer. "I wanted to help the girls have the same excitement about science that I experienced."



Students learned about design and flight by building and launching rockets, some even decorated with polka dots.



SciGirl Ezy Chikwere gets ready to launch her rocket.

"I think SciGirls is really fun and at the same time we are learning a lot," added SciGirl Ezy Chikwere. "I really liked making the rockets because we designed them and got to experiment with them."

"Honeywell SciGirls Camp at MSC challenges young women so they creatively use their minds and imaginations to discover the next frontier," said Tom Buckmaster, President of Honeywell Hometown Solutions. "We're proud to partner with the Maryland Science Center to bring this terrific program to Baltimore."

The students, who have been recommended by their school guidance counselors and community leaders, had the opportunity to meet some of the country's top women scientists and engineers, including Shubha Barriga, a Honeywell aerospace engineer and project manager for NASA's Lunar Reconnaissance Orbiter.



Shubha Barriga, a Honeywell aerospace engineer, speaks to SciGirls about her role as project manager for NASA's Lunar Reconnaissance Orbiter.

"I want to inspire the SciGirls to pursue careers in science and engineering," said Shubha Barriga, a Honeywell aerospace engineer. "Women can play important roles and have interesting careers!"

To remain a world leader in the knowledge-based economy, the United States must produce a steady flow of engineers, mathematicians and scientists. Yet, according to the National Center for Education Statistics, about one-fifth of 4th graders and one-third of 8th graders lack the competence to perform even basic mathematic computations. Declining interest in math and science is most acute among middle school girls who often choose other disciplines as they enter high school, experts say.

SciGirls helps to address these trends by stimulating young women's intellectual curiosity and providing them with real world problem-based learning. The program created by - and taught by - Baltimore area women in science professions, was engaging, hands-on, challenging and, of course, fun! Honeywell underwrote costs for 37 camp participants from 23 Baltimore City and county schools.





SciGirls Instructor, Amy Wood, teaches the girls about thermal protection systems through an exercise she learned while attending Honeywell Educators @ Space Academy in Huntsville, AL.



SciGirls was designed to stimulate young women's intellectual curiosity and provide them with real world problem-based learning.



Girls worked together to design their own thermal heat shields.

Honeywell SciGirls Camp at MSC ran from July 20 - 24 and July 27 - 31, with full-day sessions from 9:00 a.m. - 4:00 p.m. Now that the camp is complete, the girls will meet once a month at the Science Center to continue their learning. Last year's SciGirls will participate in SciGirls II, an advanced version of the camp, which takes place during five individual sessions throughout the year. This year's class will complete the program in June 2010 and be eligible for SciGirls II next year.

Honeywell SciGirls Camp at MSC participants took on creative and challenging science experiments in the fields of:

- **Space science** - students learned about engineering, design and flight by building and launching rockets. They also designed their own rocket "protection system," or thermal heat shield, and created electric game-circuit mazes.
- **Earth science** - watershed exploration, surface temperature measurements and designing green roofs for homes and buildings taught camp participants about the Chesapeake Bay watershed and the impact of humans on our environment. The students interacted with Bay animals and plants to gain an understanding of invasive species and environmental stewardship through hands-on exposure.
- **Biological science** - a series of experiments at MSC's wetlab focused on health, nutrition, and disease, while providing students with an understanding of the role science plays in their lives. Students analyzed blood and conducted experiments gauging the migration of electrically charged particles in a solution.

The program was designed to outline career paths for each of the scientific fields.



5-4-3-2-1...BLAST OFF! Baltimore-area middle school girls count down as they launch rockets built at the camp.



Students learned how to design and construct earthquake-proof houses.



Watershed exploration, surface temperature measurements and designing green roofs for homes and buildings taught camp participants about the Chesapeake Bay watershed and the impact of humans on our environment.



The program created by - and taught by - Baltimore area women in science professions, was engaging, hands-on, challenging and, of course, fun!

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