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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 programs like FMA Live!, our partnership with NASA. Honeywell Educators @ Space Academy gives teachers in Baltimore the opportunity to apply for scholarships to spend one week at the U.S. Space & 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.

MASS x ACCELERATION = FUN!

Pine Grove Middle School Students Get a Creative Lesson in Sir Isaac Newton's Laws of Motion with FMA Live!



Not too many people take a cream pie in the face and describe the experience as fun, but sixth grade math teacher Karen Barthlow knew it would help her students learn a memorable lesson about Sir Isaac Newton's Laws of Motion. The pie is part of Honeywell and NASA's award-winning science concert, *FMA Live!*, which played to approximately 900 Pine Grove Middle School students in Baltimore County last month.

"This concert is a great way to make math and science come alive in the classroom," said Barthlow. "It's so fun to be able to participate."

Rebuilding Together Baltimore:



Rebuilding Together Baltimore partnered with Honeywell to spruce up a nonprofit facility that provides transitional housing for women and their children. INNterim Housing Corporation was founded in 1994 with the mission of creating a supportive and structured residential environment in which homeless mothers can acquire the skills and resources needed to rebuild their lives and become economically independent. Honeywell volunteers were joined by volunteers from all over Baltimore, including groups from Morgan State University, the College of Notre Dame, Johns Hopkins University, AmeriCorps National Civilian Community Corps (NCCC), and staff and residents of INNterim! Volunteers completed repairs that positively impacted the health and well-being of the residents of this facility. Repairs included: painting, landscaping, debris removal, interior cosmetic repairs, electrical repairs, plumbing and bathroom repairs,



Pine Grove sixth grade math teacher Karen Barthlow helps to demonstrate Sir Isaac Newton's Laws of Motion by getting a giant cream pie in the face.

Created in partnership with NASA, *FMA Live!* is a multimedia science education program named for Newton's Second Law of Motion (force = mass x acceleration). *FMA Live!* uses original hip-hop songs, music videos and interactive science demonstrations to teach middle school students Newton's Three Laws of Motion and the Universal Law of Gravity. Since 2004, the concert has traveled 89,000 miles, reaching more than 281,300 students at 807 middle schools in all 48 contiguous U.S. states and Canada.



The *FMA Live!* performers ask a Pine Grove student to kick a huge soccer ball to demonstrate that force is determined by mass x acceleration.

"Learning Math and Science can be exciting, fully interactive, and fun," said Tom Buckmaster, president of Honeywell Hometown Solutions. "The *FMA Live!* road-show teaches Newton's Laws of Motion in a fun and relevant way for today's students. Honeywell is reaching into communities around the U.S. to inspire young people to explore stimulating careers in science, technology, engineering, and math."

Pine Grove Middle School principal Sandra Reid thanks Honeywell and NASA for presenting science and math as fun and interactive through *FMA*

and much more.

Honeywell Educators @ Space Academy Accepting Applications:



Maryland middle school teachers can now apply to Honeywell Hometown Solutions for the 2012 *Honeywell Educators @ Space Academy* at the U.S. Space & Rocket Center in Huntsville, Alabama. Honeywell provides scholarships to middle school teachers from around the world to gain real-life astronaut training through new and innovative teaching skills. To apply online, [click here](#).

Honeywell's Adventures in Environmental Leadership:



Honeywell Hometown Solutions and the Living Classrooms Foundation partnered for a fourth year to offer students from Dundalk Elementary and Logan Elementary schools the opportunity to participate in *Adventures in Environmental Leadership*. The program, offered in the spring, is designed to help Dundalk-area students become environmental stewards in their communities. To date nearly 1,300 students have participated in the program. This summer, students from the Union Baptist Youth Camp in Turner Station also had the unique opportunity to



Live!, a traveling hip-hop science concert.

participate in an Adventures in Environmental Leadership "Shipboard Experience" aboard the historic *Mildred Belle*. Residents learned about the Chesapeake Bay; its history, industry and commerce; the people who live on its shores; and the living creatures that inhabit the body of water. They also discovered how people - whether they live one mile or 100 miles from the bay - are a vital link to the Chesapeake Bay.

"Science and technology are the keys to winning the future and moving America's economy forward into the 21st century," added U.S. Senator Ben Cardin. "Programs like *FMA Live!* are getting young people excited about science and math, and inspiring them to become our future scientists, engineers, and innovators. Our students' passion for these subject areas is exactly what will propel our economy in the future."

"A full education in the STEM fields is absolutely critical for Maryland's children to succeed in the 21st Century economy, and innovative programs like *FMA Live!* are creative ways to encourage young students to explore science, technology, engineering, and math," added Lt. Governor Anthony G. Brown. "Thank you to Honeywell and all of our private sector partners who are working to support the future success of our students."



Two Pine Grove sixth graders, Cara (left) and Kathy, get instruction from the *FMA Live!* crew before driving go-carts across the stage to illustrate action and reaction.



A Pine Grove Middle School teacher demonstrates Sir Isaac Newton's second

Pine Grove principal Sandra Reid thanked Honeywell, NASA and the *FMA Live!* crew for encouraging students to pursue careers in science, technology, engineering, and math through the *FMA Live!* performance.

law of motion.

"We are beyond excited that we were afforded this opportunity to demonstrate science in motion!" said Reid. "The show sustains student interest and applies to what they are learning in their classrooms."

Sarah Raulerson, a seventh grade science teacher at Pine Grove, initiated the request to include the school on the 20-city national fall tour for the award-winning science education program. Since the program's inception, *FMA Live!* has come to Maryland 11 times, reaching more than 11,000 students.



John Collins of Honeywell Building Solutions joins Pine Grove teacher Sarah Raulerson and principal Sandra Reid with two students who attended the innovative science education program at the middle school.

"When I saw the show, I was amazed," Raulerson said. "It ties so well with our curriculum and I often use the show's website as a resource in my classroom. I am really excited *FMA Live!* could come to our school!"

FMA Live! is a cornerstone of Honeywell's commitment to deliver innovative educational programs and help ensure there is a steady and competitive pipeline of young people interested in science and technical careers. According to www.whitehouse.gov, the United States ranks in the bottom third and bottom fifth among industrialized nations in science and math, respectively.

The cheers and laughter of Pine Grove students during the high-energy performance showed that *FMA Live!* was successful in highlighting the fun side of science and math. As Riley, a Pine Grove sixth grader, said, "I have one word for the show - awesome!"

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Honeywell
1000 Wills Street, Baltimore, MD 21231

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