#### **NEW EXHIBIT**

#### **Translating Encounters:** Travel and Transformation in **Early Seventeenth Century**

Peabody Museum, 11 Divinity Avenue Cambridge, through December 30, 2010,



9 a.m.-5 p.m. daily Wonder, confusion, and curiosity were just a few of the responses

by Africans. Native Americans, and Europeans in the age of exploration, as each struggled to comprehend the other. Call 617-495-2916, or visit www.peabody.harvard.edu for more information.

#### **JULY 17**

#### **Collecting Modernism**

#### Arthur M. Sackler Museum, 485 Broadway, Cambridge, 11 a.m.-Noon

Over the years, the Harvard Art Museum has received several important donations of late 19th and early 20th century European art. This talk will consider the complex interactions among stylistic developments, taste, historical events, and the art market in the creation of collections. Gallery talks are informal and include discussion. Free with the price of admission. Open to the public. Limited to 25 participants; please arrive early. Call 617-496-8576, or email susannah hutchison@harvard.edu for more information.

#### PERMANENT EXHIBIT

#### **EVOLUTION**

Harvard Museum of Natural History, 26 Oxford Street, Cambridge, 9 a.m.-5 p.m. daily

**EVOLUTION** invites visitors to examine the fossil. anatomical and genetic evidence

that all life is connected through a shared evolutionary history. View animals and plants that sparked Charles Darwin's theory, dramatic displays of diversity within species, and computer simulations that demonstrate how natural selection acts. Free with museum admission. Call 617-495-3045, or visit www.hmnh. harvard.edu for more information.

#### **THROUGH AUGUST**

#### Summer Sports Camps

Each summer, Harvard University hosts a range of summer sports camps for children, teens and adults. Sports are great exercise and great fun. Sports camps can help you become a better, more focused athlete as you become more skilled at your favorite sport. Please note these camps are privately owned and operated by individual coaches and their associates, and that Harvard's facilities are simply rented by these coaches as a location for their camps. Follow the link below to get more information about eligibility, schedules and registration: www. gocrimson.com/information/camps/ index.



**Calendar of Events (continued)** 

# **SUMMER LEARNING. SUMMER FUN**

Harvard University's teaching mission doesn't go on summer vacation. Each year dozens of communitybased programs at Harvard draw thousands of people of all ages for summer learning and fun.

This year, for instance, high schoolers will tap Harvard labs to learn more about cutting-edge science as paid interns, while others will get a taste of working in the "real world" in Harvard offices (and getting real dollars) through Harvard's participation in summer youth employment programs. Community centers and parks in Boston's neighborhoods and in Cambridge will be platforms for Harvard summer learning, with hundreds of local children taking part in summer camps in July and August organized by the Summer Urban Program (SUP) at Harvard's Phillips Brooks House Association (PBHA), an undergraduate group devoted to public service.

June marks the beginning of the **Cambridge** Harvard Summer Academy's free summer school program at the Cambridge Rindge and Latin High School. For nine years, the program has tapped veteran teachers and Harvard School of Education graduate students training to become teachers to help Cambridge teens get a leg up on learning for six weeks in the summer. More talented Boston and Cambridge teens will take part in an intensive academic enrichment program called the Crimson Summer Academy. Plus, Harvard Yard is a magnet for summer fun, drawing nearly a thousand seniors to Harvard's annual senior picnic.

www.community.harvard.edu



### THE ARTS BLOSSOM AT HARVARD YEAR ROUND

Each year during the first weekend in May, the arts spring forth and blossom at Harvard during Arts First.

This year was no exception. Every corner of Harvard's campus was alive with a rich array of Harvard arts from April 29 to May 2. There were more than 40 venues and hundreds of student performers and performances. From theater to music, to dance, to the visual arts, the performances were inspiring, thought-provoking, eclectic, and in some cases outlandish.

Harvard senior Maxine Schlein talks to children after a production of "The Ualv Ducklina" for children at the Sunken Garden as part of the Arts First Festival.

But the arts abound at Harvard year round. While Arts First puts a spotlight on the rich diversity of Harvard arts in spring, there are thousands of ways for the community to enjoy the arts and culture at Harvard year round. In any given year there are more than 700 student performances, and most are open to the public. There are also special art exhibitions, museum collections, arts lectures, performances at the American Repertory Theater (A.R.T.), and programs with local children. For more information on Harvard arts happenings, visit the Harvard arts portal at http://arts.harvard.edu/.



The chorus of "ewwws" and "gross" weren't the reactions usually heard coming from a college classroom. But these were the comments emanating from Harvard's Maxwell Dworkin room G115, as 22 fourth and fifth graders from the Elihu Greenwood School in Boston's Hyde Park neighborhood tugged at the stringy, slimy mess in their cups.

The young scientists had just produced strings of alginate, a food thickener that is an extract of seaweed, by adding an alginate solution to water containing calcium. The experiment yielded long squishy strings that showed how polymers can be crosslinked together to form gels and other interesting and useful materials.

"This is awesome," said Taejah Baker, holding up her blue strings. "I'm going to take this home and scare my brother." Her lab partner, Kiara Vazquez, had another idea. "I'm going to scare my mom," she said.

The experiment, guided by Kathryn Hollar, director of educational and outreach programs at the Harvard School of Engineering and Applied Sciences (SEAS), was one of dozens of science experiences that gave 200 Boston children a chance to roll up their sleeves and "do" science on five Boston-area university campuses during Step UP's Science Across the City program on May 3. Harvard, Boston College, Boston University, Northeastern and Tufts are working with the Boston Public Schools and the city of Boston year-round to help boost student achievement at 10 schools linked to the Step UP program.

Step UP is a collaboration among local universities and Boston schools that promotes student achievement. Harvard is a founding member of Step UP and has been offering after-school program support, learning materials, and professional development at the schools for the past three years.

For the Greenwood students and the 25 more from the Agassiz Elementary School in Jamaica Plain, the Harvard activity was more than a crash course



#### SPRING/SUMMER 2010 • WWW.COMMUNITY.HARVARD.EDU



he arts blossom at Harvard year round



iddle schoolers talk college at Harvard



.ooking for something to do? ome to Harvard

# **BOSTON KIDS "DO" SCIENCE**



Students at Boston's Elihu Greenwood School and Agassiz Elementary School explored polymers, long molecules that are in the foods we eat, our sneakers, and even our bodies, during Step UP's Science Across the City. Kiara Vazquez made blue strings during an experiment.

in polymers. It was a first foray into the world of chemistry.

Later in the day the budding scientists explored geology at Harvard's Museum of Natural History, where they pursued clues in fossils, limestone, granite, even mammoth hairs, to uncover the geological history of New England's landscape over 600 million years.

"These children were able to be scientists for a day — guessing, experimenting, drawing conclusions in a setting they don't have in their schools," said Emily Barr, program coordinator for the Harvard Achievement Support Initiative that supports after-school learning in Step UP schools. "It's

#### **JUNE 12**

#### **Family Program Globetrotters!**

Peabody Museum, 11 Divinity Avenue, Cambridge, choice of two 60-minute sessions: 10 a.m. & 2 p.m.



Young anthropologists are invited to travel the world! Compare clothes, toys, and tools used in Africa, Asia, South America, Europe,

Australia, and North America. Make a toy out of recyclable materials to take home. For children ages 5-8 with adult. Free with museum admission. Advance reaistration required, and space is limited. Call 617-495-2916 or visit www.peabody.harvard. edu for more information.



**NEW MULTIMEDIA EXHIBIT** 

**History of Horns & Antlers** 

Harvard Museum of Natural History,

**Headgear: The Natural** 

26 Oxford Street, Cambridge,

9 a.m.-5 p.m. daily

Call 617-495-3045 or visit www.hmnh. harvard.edu for more information.

#### **JUNE 15**

#### **Two Farmers Markets Each** Week at Harvard

Tuesdays, 12:30-6 p.m. at the corner of Oxford/Kirkland Streets, Cambridge: Fridays, 3-7 p.m. at the Allston Farmers' Market at the corner of N. Harvard Street and Western Avenue. Allston

When you buy at one of these farmers' markets you get the freshest possible product, usually picked just that morning. You can meet the folks who arow your food and have a healthier diet. Here is your chance to support the local economy and help maintain Massachusetts' rural character. E-mail farmersmarket@harvard.edu for more information.

#### **JUNE 17**

#### Walk with Natives

#### Arnold Arboretum, 125 Arborway, Boston, 1-2:30 p.m.

Imagine travelling back in time 100, 200, even 2,000 years! What did this landscape look like? Would the same kinds of trees growing in the Arboretum now have grown here then? Take a walk back in time to explore trees and their uses. This tour expands on the Walk with Natives self-guided tour, available in Silva and in the Visitor Center. Free and open to the public. No registration required. Call 617- 524-1718, or visit www.arboretum.harvard.edu for more information.

#### Summer Nights at the Museum

Harvard Museum of Natural History, 26 Oxford Street, Cambridge, 9 a.m.-5 p.m. daily, extended to 8 p.m. on 3rd **Thursdays of summer!** 

Explore the new Headgear exhibition; take friends to see the Glass Flowers. Enjoy special gallery talks. Check website for details. Free with museum admission. Call 617-495-3045, or visit www.hmnh.harvard.edu for more information.

Calendar of Events Check out Harvard's online calendar of events at news.harvard.edu/gazette/section/calendar/gazette-calendar/

#### Continued from page 1

a small example of what we're doing through Step UP, providing resources and expertise to local schools to support teaching and learning."

After the polymer experiment, Hollar asked the Greenwood group who wanted to be a scientist. More than half of the participants shot their hands up. "OK, if you want to be a scientist, you've got to study hard now! Now, how many of you want to go to college," she asked. The whole class raised their hands.



# **LEARNING ABOUT SCIENCE, TOGETHER Q** and **A** with Kathryn Hollar

Kathryn Hollar, pictured here, is a chemical engineer by training and grew up in a family that encouraged her interest in science. She calls her educational outreach program at the Harvard School of Engineering and Applied Sciences "science for K to gray." Here Hollar talks about science and how parents and their children can learn it together.

#### Q: Why is science so important?

A. Science has revolutionized our lives. It's changed how we communicate with each other. It can make you safer (cell phones!). And scientists and engineers are responsible for that. There are so many ways science and engineering touch our lives each day, from national security to human health, sanitation, even warmth and protection of your bodies.

#### Q. Why is science critical for school-age children? What are we trying to teach our kids through science?

A. School-age children have an innate curiosity and a natural desire to invent. Our job is to nurture that interest, to keep our children curious and inventing. Children will need tools like math to figure out if something's going to work or not. Math is incredibly useful in helping us predict how systems work, and is an essential tool for science and engineering. Children also need an understanding of physics, chemistry, and biology.

#### Q. What can a parent do to support learning?

A. Make sure your children are doing their homework. Talk to their teachers and school administrators. Find opportunities for your child outside of school. Let a child know it's OK to try

something that is foreign to them. And, last but not least, let them know it's OK to fail, as long as you pick yourself back up. Failing is as important as success. It teaches us how to persevere. And it's not just a skill essential to science and engineering. It's important that our children take on challenges outside their comfort zone.

#### Q. How can parents encourage interest or advancement in the sciences at home?

A. Try to help your child. If you feel you can't, get them the support they need - whether through additional tutoring at school or mentoring. Encourage curiosity. When you wash dishes, look at the bubbles. The best scientists are the ones



who are very good observers. Teaching a child to be curious about the smallest things is very good. Encourage your child to ask questions. Validate that they have asked a good question. And if you don't know the answer, try to help them find answers to their questions. Work on the problem together.

# **SCIENCE**

around issues.

Internet together.



## JUNE 17/JULY 15/AUG 19



#### **NEW EXHIBIT**

#### Spying on the Past: **Declassified Satellite Images** and Archaeology

Peabody Museum, 11 Divinity Avenue, Cambridge, through January 2, 2011, 9 a.m.-5 p.m. daily

Using U.S. government spy satellite and visually arresting aerial images, Harvard student archaeologists explore sites in Northern Mesopotamia and South America to reveal complex early cities, extensive trackways, intricate irrigation canals, and traces of nomadic journeys. Admission to the Peabody Museum is free to MA residents on Sundays from 9am-Noon. Call 617-495-2916, or visit www.peabody. harvard.edu for more information.

#### **JUNE 21**

#### 2010 Annual Harvard/Paul F. **Glenn Symposium on Aging**

The Joseph B. Martin Conference Center, **New Research Building** 



Harvard Medical School, 77 Avenue Louis Pasteur, Boston, 9 a.m.-5 p.m.

Speakers include Gary Ruvkun, Elaine Fuchs, Li-Huei Tsai,

Gerald Schulman, Wade Harper, Raul Mostoslavsky, Pinchas Cohen and Alexander Meissner. Participants must pre register online at www.hms.harvard.edu/ agingresearch.

#### **JUNE 25**

#### **Free Guided Tour**

#### Arnold Arboretum, Hunnewell Visitor Center, 125 Arborway, Boston, 6 p.m.

The Arnold Arboretum is a dynamic landscape throughout the year! Come for a tour and experience the Arboretum in a new light. Explore the collections on a free quided tour led by our knowledgeable docents. Tours are 60-90 minutes long, geared toward the general adult visitor, and include Arboretum history and topics of seasonal interest. Free and open to the public. No registration required. Call 617-524-1718 or visit www.arboretum. harvard.edu for more information.

# **SUPPORT KIDS' INTEREST IN**

1. Enroll them in science activities.

2. Take them to museums.

3. Talk to your children, and engage them.

4. Ask children questions to encourage their thinking

5. Engage them in the process of inquiry; go to the library, or search the

#### E-connect

Sign up for our new e-newsletter. Get in the loop with the latest happenings at Harvard! Free events, games, exhibits, and so much more. Visit our website at www.community.edu and click on E-Connect, or email us.

# **TALKING COLLEGE** WITH MIDDLE **SCHOOLERS ISN'T TOO EARLY**

When you look at your middle schooler, it's hard to imagine a future college student, but educators say it's not too early to be thinking college when kids are in their tweens.

"Middle school is a crucial time to start preparing yourself for any opportunity you want to take advantage of in the future," said Kathryn Hollar, director of educational and outreach programs at the Harvard School of Engineering and Applied Sciences (SEAS), who works with middle schoolers through Harvard's Project TEACH.

This is why Harvard created Project TEACH.

Thousands of Cambridge youngsters have been introduced to the idea of college through this community outreach program for more than 20 years.

Run by Harvard's Office of Community Affairs in partnership with SEAS and other Harvard departments, TEACH gives tweens a sense of what its like to be at college. Seventh graders visit the Harvard campus for a day and talk to Harvard undergraduates about college. Discussions range from selecting a college and understanding admissions processes, to the many opportunities students have, with more than 3,200 colleges



Meaza Solomon at the Cambridgeport School was one of many seventh graders who visited Harvard through Project TEACH.

and universities in the United States. One of the day's most important messages is that despite the rising cost of college, financial aid programs can help ensure that cost is not a barrier for gaining a college education. The seventh graders also tour Harvard Yard, eat lunch in a college dining hall and visit the Science Center where they meet the first "supercomputer" and learn more about the wonders of science.



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