

SPRING 2014 WORKSHOP FOR K - 5TH GRADE TEACHERS

# Technology in Paul Revere's Time: *Teaching Simple Machines through Social Studies*

Presented by the Paul Revere House, the Old North Church, Boston National Historical Park, and the USS Constitution Museum.



**Fee:** \$75. Includes course readings, morning snacks and materials to make your own prints.

**To Register** send a \$75 check payable to the Paul Revere House at: 19 North Square, Boston, MA 02113 by Feb. 28, 2014. Include your name, grade, home & school addresses & phone numbers, & email address.

Earn **12 PDPs** by attending the course and writing one lesson plan, or **One Graduate Credit** (equal to 22.5 PDPs) from Framingham State by paying an additional fee of \$75 and completing a more extensive project.

**SATURDAY, MARCH 8, 9:00 – 4:15**

## *Paul Revere House*

**Simple Machines at Home:** Tour the Paul Revere House on a scavenger hunt for evidence of simple machines in a typical 17th/18th c. home. Imagine ways that a family like the Reveres' used simple machines every day to make their lives easier. And reach further back to imagine construction of a house like the Paul Revere House in a time before modern machinery. Come together to discuss findings and brainstorm further.

**Midnight Ride, Industrial Dawn:** Learn how Paul Revere exemplifies the transition from a traditional artisan to an industrial manufacturer from a real expert: Olin College Professor Rob Martello, whose biography of Revere focuses on the famous patriot's long technical and entrepreneurial career, emphasizing all of his metalworking endeavors.

**Working Paul Revere into Lesson Plans:** Examine ways by which Paul Revere might enter your social studies, math, or science curriculums through his careers rather than his revolutionary heroics. Professor Martello & Emily Holmes will lead a group brainstorming session before breaking into smaller teams to workshop ideas specific to your classrooms.

## *Old North Church*

**Behind the Scenes Tour of Old North Church:** See the place where young Paul Revere and friends served as bell ringers and British Major Pitcairn's remains rested for a time, as well as Robert Newman's escape route, the bust that the Marquis de LaFayette considered the best likeness of George Washington he had ever seen, and more. Learn how simple machines are integral in the art of change bell ringing.

## *Boston National Historical Park: Charlestown Navy Yard*

**Twisted Strands: Simple Machines and Rope Making:** Rope-making is one of those essential pieces of Boston's economy that evolved with technology. In this session participants will try their hand at producing rope with a variety of techniques while learning surprising details about the importance of rope walks in Boston's history.

**SATURDAY, APRIL 5, 9:00 – 4:15**

## *Paul Revere House*

**Woodblock Printing Demonstration:** Participants will learn about the science and principles behind the printing press and Paul Revere's use of presses in the 18th c. from expert printer R.P. Hale. Everyone will make their own print to take home.

## *USS Constitution Museum and USS Constitution*

**Simple & Complex Machines on Shipboard:** At the *USS Constitution* Museum, teachers will have an opportunity to see simple machines "in action" on the world's oldest commissioned warship afloat. After an introduction to the six simple machines using hands-on manipulatives, they break into groups and scour the galleries of the Museum for evidence of these machines at work onboard *USS Constitution*. A screw raises and lowers the carronade gun, a pulley hauls a goat on board, and a wheel and axle steer the ship into the wind. Once back from the scavenger hunt, they work in teams on invention challenges. Each team is responsible for designing and building a prototype of a complex machine to help nineteenth century sailors with their work. Their time is capped off with a guided tour of *USS Constitution* led by a sailor stationed on the United States of America's Ship of State.

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*Paul Revere House*

## APPLICATION

Saturday, March 8, and Saturday, April 5, 2014

Name: \_\_\_\_\_

School: \_\_\_\_\_

Home Address: \_\_\_\_\_

Grade (preference for K - 5th) : \_\_\_\_\_

School Address: \_\_\_\_\_

Home Phone: \_\_\_\_\_

\_\_\_\_\_

Home Email: \_\_\_\_\_

School Phone: \_\_\_\_\_

Please send this form along with a check for \$75 payable to the Paul Revere House to:  
Education Department, Paul Revere House, 19 North Square, Boston, MA 02113.

The **\$75** fee includes refreshments both mornings, materials used in hands-on activities, and readings. Registrations should be received before February 28, 2014.

### Course Requirements:

**READINGS:** Participants will be mailed a packet of materials including copies of articles from the Revere House Gazette to read in advance of sessions on March 8th & April 5th.

**PROJECTS:** To earn 12 PDPs, teachers must write one lesson plan related to the content of the course. If you opt to take the course for one graduate credit from Framingham State University (equal to 22.5 PDPs), you will need to write five lesson plans or extensive reflections about each session. Projects are due on April 30, 2014.

### Fee for Graduate Credit:

If you take the course for credit from Framingham State, you will complete a registration form and pay an additional fee of \$75 on the first day of the course. Please do not send this fee to the Revere House now!

### For Further Information:

Contact Emily Holmes, Education Director at the Paul Revere House: 617-523-2338, or [emily@paulreverehouse.org](mailto:emily@paulreverehouse.org)  
Visit the presenting organizations online at their websites: [www.paulreverehouse.org](http://www.paulreverehouse.org), [www.oldnorth.com](http://www.oldnorth.com), [www.nps.gov/bost/](http://www.nps.gov/bost/), [www.usconstitutionmuseum.org](http://www.usconstitutionmuseum.org)

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