

SPRING 2024

Hagley

MAGAZINE

 Smithsonian
Affiliate

Celebrating our Achievements!



FEB 29 & MAY 9 • SPRING AUTHOR TALKS

MARCH 9 • SCIENCE SATURDAYS RETURN

APRIL 27 • HAGLEY 5K AND 1K FUN RUN



Dear Friends,

One of my greatest pleasures is walking along the Brandywine in every season, taking note of the subtle changes each cycle of the seasons brings. We've seen many birds of prey along the river this winter, including many red-tailed hawks whose call sounds a little like our steam engine whistle! I welcome you to visit Hagley to walk along the river with your binoculars on the lookout for these magnificent birds of prey. Please check our website for winter hours.

While on your visit, please enjoy the powder yard and the many mechanical exhibits on display, where our industrial past comes to life. We've been working for several years to improve and conserve these important relics that illustrate how innovative the duPont family and their employees were at this important historical site. On Saturday, May 25, we'll hold an event at Hagley to showcase the culmination of several projects in the powder yard.

Spring also brings a variety of Hagley programs for you to enjoy. One of my favorite events is the 5K & 1K fun run on Saturday, April 27. Many have already signed up for this annual event whose proceeds go to support our field trip program. Last

year I did the walk and though I was close to the back of the pack, I enjoyed seeing all the smiles. Though it's still chilly outside I promise warmer weather is on the way. If you're a parent, you know it's not too early to think about Summer Camp. We have several engaging camps for ages 7 to 12 in July and August. Register today so your child can enjoy a week along the Brandywine.

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Spring brings a variety of Hagley programs for you to enjoy.
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The library has been busy this winter with new collections and grant writing. We are honored to have received books from the personal library of Éleuthère Irénée du Pont (1771-1834). These incredibly important scientific books provide insight into du Pont's interests and vocation. We were also pleased to receive a grant from the National Film Preservation Foundation to preserve two films from our Cinecraft collection, both of which give cultural insight into the 1970s.

I hope that your 2024 is going well. I appreciate the generosity so many of our members have shown Hagley through your donations. You keep our gears turning and inspire us to inspire others. Enjoy this issue of the Hagley Magazine. Please keep the calendar handy to remind you of the many opportunities to attend a lecture, event, or hands-on activity. I hope to see you soon!

Hagley Board of Trustees

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Hagley Magazine welcomes your feedback. Contact Hagley at askhagley@hagley.org.

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Hagley's 2023 Gingerbread House Contest

HAGLEY THANKS ALL THE PARTICIPANTS
IN HAGLEY'S SIXTH ANNUAL
GINGERBREAD HOUSE CONTEST,
CELEBRATING "TREASURES
AND TRADITIONS."



ADULT/FAMILY WINNER:
THE MELCHIORE FAMILY



YOUTH WINNER:
SUSAN & AMY FROST

COMMUNITY PARTNER WINNER:
WAGGIES BY MAGGIES AND FRIENDS



SANTA SIGNED THE CAST
OF A YOUNG SANTA DAY VISITOR



Hagley Improvements

HAGLEY THANKS THE 1817 SOCIETY, THE WELFARE FOUNDATION, AND THE CRESTLEA FOUNDATION FOR THEIR GENEROUS SUPPORT

THE HISTORIC DUPONT POWDER YARDS at Hagley are unlike any other museum experience. Nowhere else can museumgoers see working relics of America's early industrial past come to life, revealing the innovative evolution of technology and enterprise, in the same way—and set among breathtaking natural beauty. The pandemic, tornadoes in 2020, flooding in 2021, and restoration since the flood posed unprecedented challenges for the care and keeping of the powder yard.

Hagley's iconic Birkenhead waterwheel restoration was slated for completion in September 2021. As a last step in the project, wooden sheds were to be installed to protect machinery from the elements. But this work was paused when flooding from Hurricane Ida washed away the massive beams—each weighing hundreds of pounds—that were days away from installation. The work was completed in summer 2023.

When the DuPont powder yards were in operation, the 16-ton cast iron wheels at Eagle Roll Mill crushed together the three key ingredients of black powder. In the twentieth and twenty-first centuries, the mill demonstrated for museumgoers the ingenuity of nineteenth-century water power and DuPont's commitment to "safety first." But damage and deposited debris from the 2021 flood put this exhibit out of order. In 2022, with support from the Welfare Foundation, the entire mile-long mill race was dredged of silt and debris, pulling nearly 400 dump trucks' worth of material from the race. This was the first step in restoring the smooth flow of water from the Brandywine to the historic machinery. The next year, Hagley staff disassembled equipment weighing many tons, diagnosed issues, and painstakingly repaired and replaced damaged parts. After hundreds of hours of challenging and frustrating work, in summer 2023, Eagle Roll Mill was back in operation as a central part of the Hagley experience.



KERRY HARRISON

VISITORS AT THE NEARLY COMPLETED BIRKENHEAD MILL RESTORATION

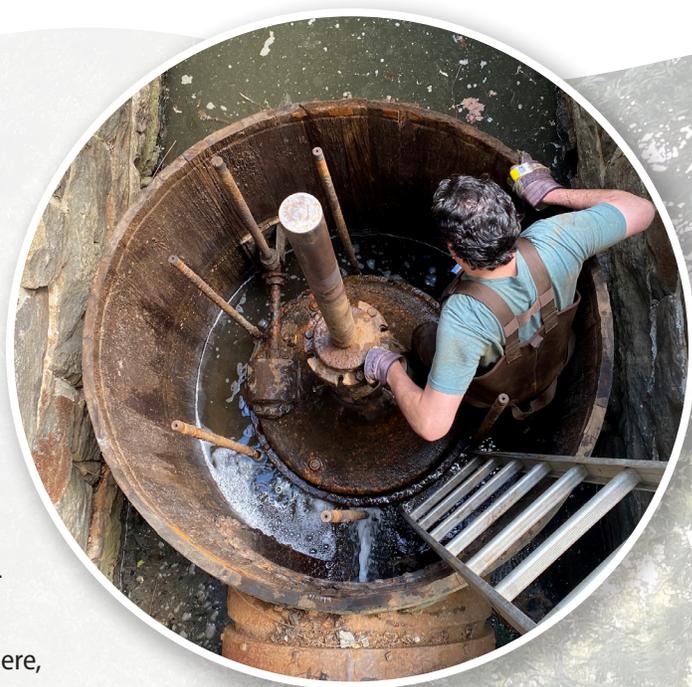
The Steam Engine exhibit also needed repair. It demonstrates how DuPont generated power for its machinery when drought, freezing temperatures, or other challenges limited water supply for waterwheels and turbines. The steam engine is powered by a locomotive-style boiler that needed restoration. The massive boiler was carefully removed from the building and transported to Strasburg Railroad for diagnosis and repair before returning to Hagley. The exhibit will be back in operating condition for spring 2024.

In late 2023, Hagley also restored the Machine Shop. Here, where parts for the mills were repaired in the nineteenth and early twentieth centuries, restoration work turned back the hands of time. With support from the Crestlea Foundation, decades' worth of soot and grime were removed from the walls before they were painted. The white walls make the space brighter, which makes the space safer for operating water-powdered equipment in the days before electric lights. The nineteenth century machines in the space also underwent cleaning and conservation. Lighting upgrades made the space even brighter for museum visitors to appreciate the craftsmanship and technical prowess behind nineteenth-century industry.

Throughout 2022 and 2023, extensive masonry work was undertaken throughout the powder yard. The 2021 flooding damaged pointing between the heavy Brandywine blue gneiss stones that comprise the walls of the powder yards' historic structures. Sections of the mill race walls were undermined by the flood waters. To address these threats, masons worked their way from the Birkenhead water wheel to the Visitor Center, repairing and stabilizing dozens of buildings, walls, and other stone structures in the mile-long stretch of flood plain.

All this stewardship is about investing time, expertise, and resources now to ensure that Hagley inspires people to be innovative in their own lives, for generations to come.

We invite you to join us in celebrating Hagley's improvements—and to see them for yourself—on Saturday, May 25. Enjoy machine shop, roll mill, and steam engine demonstrations in the powder yard, along with cannon firings and other special guest experiences. Visit hagley.org for details.



MECHANICAL EXHIBITS SUPERVISOR CHRIS CORBIN WORKING ON THE EAGLE ROLL MILL

February 2024

Sun	Mon	Tue	Wed	Thur	Fri	Sat
4	5	6	7	1	2	3
11	12	13	14	8	9	10
18	19	20	21	15	16	17
25	26	27	28	22	23	24
				29		

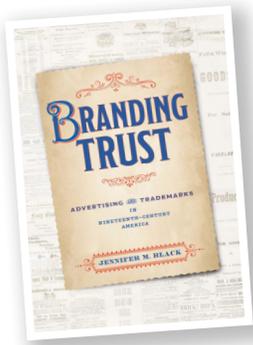
NATION OF INVENTORS OPEN, ALL OTHER AREAS CLOSED

NATION OF INVENTORS AND ALL OTHER GUEST AREAS OPEN

HAGLEY CLOSED TO GENERAL ADMISSION

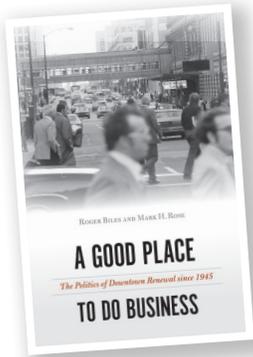
REMINDER: HAGLEY'S WINTER HOURS ARE IN EFFECT THROUGH FEBRUARY 2024

Author Talks: Branding & Downtown Renewal



**JENNIFER
BLACK**

THURSDAY, FEBRUARY 29 • 7PM
HAGLEY SODA HOUSE



**ROGER BILES &
MARK ROSE**

THURSDAY, MAY 9 • 7PM
HAGLEY SODA HOUSE

WANT TO KNOW ABOUT the origins of the brands and trademarks that now fill our marketplaces and media? In her author talk on Thursday, February 29, Jennifer Black will tell all, drawing from her new book, *Branding Trust: Advertising and Trademarks in Nineteenth Century America*. She will explain that in the early nineteenth century, the American commercial marketplace was a chaotic, unregulated environment in which knock-offs and outright frauds thrived. Business evolved to meet these challenges. As early as the 1830s, printers, advertising agents, and manufacturers collaborated to devise new ways to advertise goods. At the same time, manufacturers took legal steps to safeguard their intellectual property, protecting their brands against counterfeit and fraud. By the end of the nineteenth century, these advertising and legal strategies came together to form the primary components of modern branding. Trademarks became the symbols that embodied these ideas—in print, in the law, and to the public. *Branding Trust* thus identifies and explains the visual rhetoric of trust and legitimacy that has come to reign over American capitalism.

Jennifer Black is associate professor of history at Misericordia University. She will be available to sign copies of her book.

A Good Place to Do Business: The Politics of Downtown Renewal since 1945 will be the topic of the Thursday, May 9 author talk by historians Roger Biles and Mark

Rose, rescheduled from last spring. Their book chronicles efforts to reinvigorate the downtowns of major American cities in order to reverse the process of urban decline. Commencing with Pittsburgh's efforts, they explore how these urban "makeovers" promised to increase tourism and generate shopping districts by building sports stadiums, convention centers, downtown parks, and more. As city officials and business elites determined to reorganize their downtowns, a deeply racialized politics sacrificed neighborhoods and the livelihoods of those pushed out. Yet, as *A Good Place to Do Business* demonstrates, more often than not costly efforts to bring about the hoped-for improvements failed to revitalize those cities, or even their downtowns. It is a telling story, one with relevance for those living and working in Northern Delaware.

Mark Rose is professor of history at Florida Atlantic University and Roger Biles is professor emeritus of history at Illinois State University. They have published more than a dozen books. *A Good Place to Do Business* will be available for sale and signing by the authors.

Author talks take place in Hagley's Soda House Auditorium, starting at 7 p.m. Seating is limited and advance (free) registration is required. Registration and more information about the speakers are available at hagley.org/author. Please email any questions to Carol Lockman, clockman@hagley.org.

Hagley's 5K & 1K Fun Run

IF YOU ARE GOING TO GET UP EARLY on a Saturday morning, it might as well be for a good cause. Please join Hagley for the sixth annual Hagley 5K/1K on April 27, 2024. Proceeds from the event go to Hagley's field trip program for area schools, which enables underserved students to visit Hagley. The Hagley 5K/1K has raised more than \$12,000 over the past five years and supported admission costs for more than 1,600 students. For every \$8 raised, one more student has an opportunity to enjoy one of Hagley's engaging school programs.

Check in for the 5K/1K begins at 7:30 a.m. with the 5K starting off with a cannon blast at 8:30 a.m. The course is entirely onsite and takes participants through the upper property, along the Brandywine, and ends in front of the beautiful du Pont residence. Whether you want to race to the finish or take a leisurely stroll through the property, all are welcome to join. The 1K is a shorter loop on the upper property that will start at 9:15 a.m. Awards will be given to overall winners and age category winners following the conclusion of both runs.

The 2024 5K/1K will feature the "Red Hot Crew." We invite all participants to dress in their best and craziest red attire. Let's "paint" Hagley red on race day!

To register, visit runsignup.com and look up Hagley 5K/1K Along the Brandywine. Are you looking for ways to build teamwork among employees or gather friends and neighbors together? Get your friends and colleagues to form community or corporate teams. Teams can be set up online by following the race link.



HAGLEY 5K / 1K FUN RUN

SATURDAY, APRIL 27, 2024

CHECK-IN 7:30AM, 5K 8:30AM, 1K FUN RUN 9:15AM

\$25 THROUGH MARCH 24, \$30 AFTER MARCH 24

\$15 FOR 1K FUN RUN

REGISTER AT [RUNSIGNUP.COM](https://runsignup.com)

USE HAGLEY'S BUCK ROAD ENTRANCE

Summer Camps!



KERRY HARRISON



HAGLEY SUMMER CAMP KICKS OFF another fun-filled season. This year, two weeks of camp provide families with both science and history offerings for campers ages 7-12. The July 15-19 camp week features Life Long Ago Camp for ages 7-9 and STEAM Maker Camp for ages 10-12. The August 5-9 camp week features STEAM Discovery Camp for ages 7-9 and Learning the Trades Camp for ages 10-12. Camp registration is at hagley.org/camp.

Life Long Ago Camp immerses campers in life in a 19th-century black powder factory and workers' village. Each day campers explore different activities common during the 1800s, such as gardening, cooking, making toys, dancing, and much more. Campers also participate in tasks specific to a powder factory like firing off charges of powder, making barrels, and constructing water wheels. The camp week culminates in a carnival when campers can share what they have learned with their families.

Before there were maker spaces, early makers were plying their trades. **Learning the Trades Camp** offers campers a chance to explore the many different skills and jobs of the 19th century. Campers will become powdermen, stone masons, coopers, farmers, teachers, printers, and more. A fun "jobs fair" at the end of the week will mark the end of the campers' apprenticeship as they share their new skills with their families.

During **STEAM Discovery Camp**, campers investigate scientific and engineering concepts and complete hands-on challenges. Each camp day will focus on a different topic in science and include subjects in life science, physical science, technology, and engineering. Finally, there will be a Science Expo at the end of the week where campers can show off their projects and favorite demonstrations for their families.

STEAM Maker Camp provides campers with the opportunity to tinker with different technology and equipment. From 3D printers to hand drills, to sewing machines, to more, campers will be taught how to bring their creative ideas to life as a patent model. The week will end with a Patent Model Presentation where campers can demonstrate their inventions for their families.

Camps are staffed by adult camp instructors and teenage camp counselors. Teens, age 15-18, who are interested in volunteering can sign up to be counselors at hagley.org/volunteer.

HAGLEY SUMMER CAMPS

JULY 15-19

LIFE LONG AGO CAMP (AGES 7-9)

STEAM MAKER CAMP (AGES 10-12)

AUGUST 5-9

STEAM DISCOVERY CAMP (AGES 7-9)

LEARNING THE TRADES CAMP (AGES 10-12)

INFO & REGISTRATION AT HAGLEY.ORG/CAMP

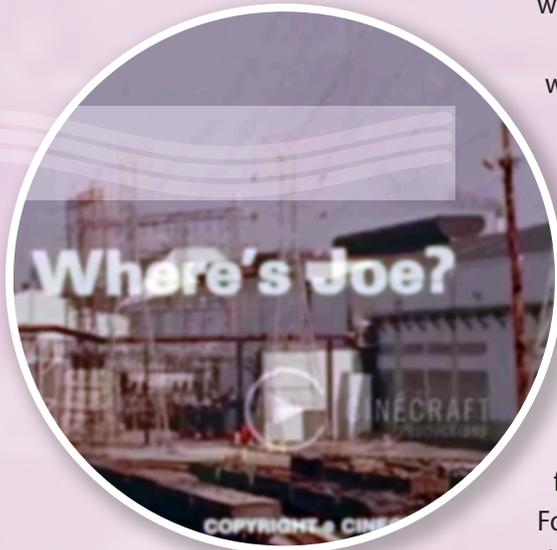
Spring Colors Coming Soon!

SPRING'S COLORFUL BEAUTY will arrive at Hagley soon, exemplified by the beautiful blazing pink azaleas that bloom by the Machine Shop every May. It's the perfect time to share Hagley's beauty with friends and family!

The gift of a Hagley Membership not only supports our mission to inspire all people to be innovative in their own lives, it also gives your lucky recipient access to Hagley's stunning property along the Brandywine and fantastic events such as Fireworks, Summer Nights, the Craft Fair, Car Show, and much more.

Visit hagley.org/join today!

Hagley Receives Film Preservation Grant



HAGLEY RECEIVED A GRANT from the National Film Preservation Foundation (NFPF) to preserve two films from the Cinecraft collection.

The NFPF awarded Hagley a \$15,000 grant to preserve *Freewheelin'* and *Where's Joe*. *Freewheelin'* has been a staff favorite since we uncovered it from the Cinecraft collection in 2021. The film, sponsored by B.F. Goodrich Tires, is about the 1976 National Truck-In in Bowling Green, Kentucky, organized by the National Street Van Association. This event attracted thousands of van owners and included music, vendors, and competitive events. Brock Yates, a best-selling author on automotive topics, wrote the script with the production handled by Cinecraft.

Where's Joe, produced in 1972 by Cinecraft, warned American steelworkers about foreign competition. The film was sponsored by the leadership of the United Steelworkers Union and a collection of U.S. steel companies, including U.S. Steel, the most prominent American steel company at the time. The film is an important document in the broader story of the decline of American industry and the effects of globalization on U.S. manufacturing.

We are excited to view restored copies of both films and grateful to the National Film Preservation Foundation for supporting our efforts to conserve and share a part of America's film heritage.

You can learn more about the NFPF at www.filmpreservation.org.

Science Books Donation

HAGLEY'S LIBRARY IS THRILLED to have received a gift of the personal library of science books collected by Éleuthère Irénée du Pont de Nemours (1771-1834), the founder of the DuPont Company. The library was generously donated by the daughters of Irénée du Pont, Jr., (1920-2023). The library was in the family's keeping at its Granogue estate. Some volumes accompanied the du Pont family during its emigration from France to the United States in late 1799. With nearly every volume published in French, the language of science during the late eighteenth century, the collection of seventy volumes describes several fields of science, better known as natural philosophy during the Age of Enlightenment.

Du Pont studied with Antoine-Laurent de Lavoisier (1743-1794), a French nobleman and scientist central to the revolution in chemistry, whose work made science more quantitative, and who is noted for discovering the role of oxygen in combustion. He is credited with teaching the young du Pont how to manufacture black powder. Du Pont excelled in his studies and developed a lifelong interest in science.

His science library was likely collected over years as his business and personal interests developed. Not surprisingly, the subject of chemistry takes up more than a fifth of the collection (sixteen of seventy volumes). Yet, du Pont's broad interests and practical bent are also indicated, from more academic topics like geometry (six volumes), cosmology (five volumes), astronomy (five volumes), and mathematics (seven volumes) to areas more readily applied to his business undertakings, like physics and mechanics (twelve volumes), hydrodynamics (three volumes), economics (eight volumes), and mining and mineralogy (eleven volumes). Ship construction and textile dyeing are also represented. Their authors include many influential scientists and mathematicians of the day: Joseph-Louis Lagrange, Willem Jacob 's Gravesande, Jean-Baptiste Pierre Antoine Lamarck, Pierre Simon Marquis de Laplace, Leonhard Euler, and others.

Most of these volumes include du Pont's personal bookplate, and many contain his margin notes, through which readers can see du Pont engage with the scientific minds and ideas of his day. The E. I. du Pont de Nemours science library is being conserved and cataloged, and will soon be available for research.



DETAIL FROM IRÉNÉE DU PONT'S
PERSONAL BOOKPLATE

Thank You!



KERRY HARRISON

THANKS TO OUR CORPORATE PARTNERS!
 It is with their support that Hagley is able to offer events such as the Hagley 5K Along the Brandywine, Summer Nights at Hagley, Fireworks at Hagley, Hagley Car Show, Science Saturdays, and more. Visit hagley.org for the current events schedule.

PIONEERS



INNOVATORS



PRESENTERS



TRAILBLAZERS



EXPLORERS



DISCOVERERS

- | | |
|------------------------------|--|
| Advanced Networking Alderman | Highmark Blue Cross Blue Shield Delaware |
| Automotive Machine | Lyons Companies |
| Buccini/Pollin Group | Mid Atlantic Industrial Belting, Inc. |
| Cover & Rossiter, P.A. | Service Unlimited, Inc. |
| | Sheridan Auto Group |

GROUNDBREAKERS

- | | |
|---------------------------------|--------------------------------------|
| A-1 Sanitation Service, Inc. | MinuteMan Press |
| Allied Properties | United Healthcare |
| Artisans' Bank | Weymouth, Swayze & Corroon Insurance |
| BCM Wealth Management | Wilmington Brew Works |
| Edward J Henry & Sons Auto Body | Woodside Farm Creamery |

Jump Start Your Spring!

Get your gardening season ready with seed bags, starter kits, and a pocket pruning tool. This fine selection of products from Potting Shed Creations will get your garden growing whether inside or outside. Seed items make a wonder springtime gift for garden enthusiasts!

Always wanted your own fresh apples? Apple Tree-To-Be has everything you need to start a little orchard in your own backyard. The bag kit includes the tree seed, a seed pot growing medium, metal saucer, a tag, and a jute bag. When mature, you'll have crisp juicy apples ready for picking.

Start your own Farmer's Market Kit—inside you'll find a classic collection of organic culinary vegetables to grow in containers or garden space, including rouge d'hiver lettuce, French breakfast radish, chantenay carrot, marmande tomato, bunching onion, mammoth melting snow pea, edible flower nasturtium, and haricot vert maxibel bean. These items are chosen specifically for their ease in growing as well as their culinary versatility and ornamental value. Includes: eight varieties of organic seed, recycled US steel case, garden stakes, pencil, and directions.

Looking for a carefree garden without much work? Choose from our selection of scatter gardens. Wildflower Garden offers a magnificent mix of fifteen of nature's most beautiful wildflowers. The blooming flowers will make a wonderful addition to any floral arrangement.

Enjoy the magic of home gardening this Spring, and Members, don't forget you get a 10% discount on all your purchases. Stop by the Hagley Museum Store and get growing!



VISIT HAGLEY.ORG FIRST!

BEFORE YOUR VISIT, BE SURE TO CHECK THE HAGLEY WEBSITE FOR THE LATEST UPDATES.

UNLESS OTHERWISE NOTED, ACTIVITIES LISTED ARE INCLUDED WITH ADMISSION, FREE FOR HAGLEY MEMBERS, AND FREE FOR CHILDREN FIVE AND UNDER.

Science Saturdays – hagley.org/scisat for schedule and topics

Experiment and innovate with Hagley's series of science activities. Visitors use their creativity to make scientific discoveries. Use Hagley's main entrance.

FEBRUARY 29 – THURSDAY – 7 P.M.

Author Talk: Jennifer Black

Want to know about the origins of the brands and trademarks that now fill our marketplaces and media? In her author talk, Jennifer Black will tell all, drawing from her new book, *Branding Trust: Advertising and Trademarks in Nineteenth Century America*. Held in the Soda House Auditorium. Registration is free and required, visit hagley.org/author

MARCH 9 – SATURDAY – 11 A.M. TO 3 P.M.

Science Saturday: Let it Grow

PRESENTED BY YOUNG CONAWAY STARGATT & TAYLOR, LLP

In collaboration with Longwood Gardens' Community Read, visitors will dive into the science of how gardens can effect our health.

MARCH 23 – SATURDAY – 11 A.M. TO 3 P.M.

Science Saturday: Kitchen Chemistry

PRESENTED BY YOUNG CONAWAY STARGATT & TAYLOR, LLP

Spend a tasty afternoon learning about the chemical properties of the items you may have in your kitchen. Make tie-dye milk art to bring home!

APRIL 13 – SATURDAY – 11 A.M. TO 3 P.M.

Science Saturday: Talking Trees

PRESENTED BY YOUNG CONAWAY STARGATT & TAYLOR, LLP

Did you know trees can recognize their kin? In collaboration with Delaware Forest Service, visitors will learn about the amazing ways that trees work together. Create a mini forest from cardboard.

APRIL 27 – SATURDAY – 11 A.M. TO 3 P.M.

Science Saturday: Earthquakes

PRESENTED BY YOUNG CONAWAY STARGATT & TAYLOR, LLP

Find out what causes earthquakes and how seismologists detect and measure them. Create your own seismograph!

APRIL 28, MAY 26 – SUNDAYS – 1, 2, & 3 P.M.

Cannon Firings

Have a blast during your visit to Hagley with cannon firings that demonstrate how black powder was made and used. Demonstrations take place in Hagley's Powder Yard.

APRIL 27 – SATURDAY – 7:30 A.M.

Hagley's 5K Along the Brandywine

Join us for the annual 5K run/walk along the beautiful Brandywine River through Hagley Museum's 235 acres. The run will also include a 1K family run/walk and parents may accompany. Proceeds from the run will support Hagley's field trip program for area schools. **New in 2024...** join the "Red Hot Crew!" All participants are invited to dress in your best, craziest red outfits or costumes! Corporate and community teams are encouraged. Visit hagley.org/5k for details.

MAY 9 – THURSDAY – 7 P.M.

Author Talk: Roger Biles & Mark Rose

A Good Place to Do Business: The Politics of Downtown Renewal since 1945 will be the topic, rescheduled from last spring. Their book chronicles efforts to reinvigorate the downtowns of major American cities in order to reverse the process of urban decline. Held in the Soda House Auditorium. Registration is free and required, visit hagley.org/author

MAY 11 – SATURDAY – 11 A.M. TO 3 P.M.

Science Saturday: Turn Up The Heat

PRESENTED BY YOUNG CONAWAY STARGATT & TAYLOR, LLP

Discover how thermal energy is transferred and use these concepts to free treasure trapped in ice.

MAY 25 – SATURDAY – 11 A.M. TO 3 P.M.

Science Saturday: Living Code

PRESENTED BY YOUNG CONAWAY STARGATT & TAYLOR, LLP

Learn how living things get their unique traits and discover what strawberry DNA looks like without a microscope!

MAY 25 – SATURDAY

Summer Kick-off Celebration at Hagley

Join us in celebrating the unofficial start of summer and the improvements in Hagley's Powder Yard. Enjoy machine shop, roll mill, and steam engine demonstrations, along with cannon firings and other special guest experiences. Visit hagley.org for details.



BECCA MATHIAS

SAVE THE DATES!

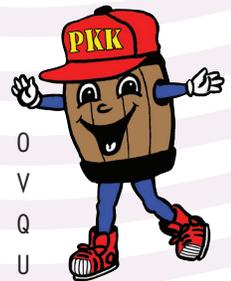
HAGLEY'S FIREWORKS WILL BE HELD JUNE 14 AND 21, 2024!





SPOT THE DIFFERENCES! Can you find eight differences between the two pictures above?

THE EPROUVETTE SHOWN ABOVE is used to test gunpowder and is a very loud part of Hagley's gunpowder demonstration. Find the words associated with gunpowder below.



WORD LIST

- AMMUNITION**
- BLAST**
- CANNONBALL**
- CARBON**
- CHARCOAL**
- EXPLOSION**
- FIREWORKS**
- FUSE**
- MATCH**
- MILL**
- MUSKET**
- RIFLE**
- ROCKET**
- SHELL**
- SMOKE**
- SPARK**
- SULPHUR**

C T E B Z J J C C N T D W K J U A O C Q M C B P O
 H D E S D I O R R B L A S T D M G T O K U A X M V
 A G L M V P H E P L P E H G M C I T Z S Q T T U Q
 R D F R O U L T A P X Z P U Z N N B T S H E L L U
 C D I T F D D B Q Y M Y N K E Y A Q P Q X H R T F
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 L B J M N S N D L I C I T Y F R P N H F T F B W N
 L R L N X H Z E O F H L X F J E E B H L F R Y S G
 W A A H G B C N N H B L G O K T L K K I O U E A Y
 Z C V U Y N F Z I E J F I A Q L H C R E K T N T Y
 F W W S H Z Y A D Y S O G G U L S E A F W G O J F
 I N H E R E P P E P E T N E G U W M P D L X H P Q
 Q R K C S Z T O N P N I E X K O J S S E V I W S Z
 L M D F F B T V L R A R F R R O A N Y J J H A X G
 F Y B E X P L O S I O N G K A D M N J T I X J X V
 P E Z T E K S U M D V Q S S E K J S P M J B G K W

PHOTO PUZZLE ANSWERS: (1) WHEEL IS LARGER (2) ADDITIONAL WALL POINTING AT TOP (3) DOOR SNAP AT TOP IS MISSING (4) UNDERSHIRT COLOR IS DIFFERENT (5) ADDITIONAL HOLE IN GRANITE BASE (6) DENIM POCKET SEAM HAS DOUBLED (7) SCREW PANEL ON SIDE OF BOX HAS MOVED (8) LEG IS LARGER



Hagley

MAGAZINE

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BECCA MATHIAS