

Hagley

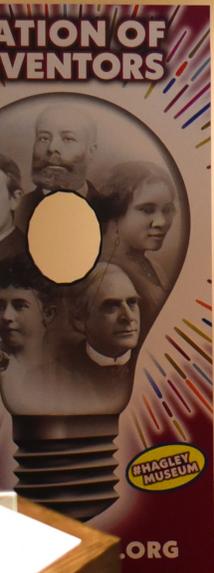
MAGAZINE

FALL 2022



Smithsonian
Affiliate

Nation of Inventors (take two)



KERRY HARRISON

SEPTEMBER 18 • HAGLEY CAR SHOW

OCTOBER 8 • NATION OF INVENTORS

OCTOBER 15 & 16 • HAGLEY CRAFT FAIR



WE REALLY PULLED OUT ALL THE STOPS to celebrate the fortieth anniversary of Fireworks at Hagley with an extra-long and extra-loud show. I hope you also enjoyed the perfect weather we ordered especially for those nights. For next year's show, we'll again ask members to vote for their favorite song, so please watch your email later this year for the contest details.

As we turn the corner on summer heading into fall, we are making plans to (finally!) open the *Nation of Inventors* exhibition in our Visitor Center. Though we were derailed last year due to Hurricane Ida, our final preparations are in place for the unveiling of our patent model collection with stories of ingenuity, innovation, and invention. The tales are riveting and informative.

Fall weather makes me think about apples, warm cider, and the Hagley Craft Fair. Each October we bring some of the finest artisans from the region together to showcase their wares. This year we've expanded the show to include more makers, delicious gourmet food selections, and a new Vintage Market to capture some of the best ideas from the past. I do most of my holiday shopping at

the Craft Fair with its amazing selection of beautiful and high-quality goods. Other events to round out the fall include our September Car Show and October Halloween events including a special day to bring your favorite dog dressed in their finest costume.

When you think about the Hagley Library, you may not think about healthcare as a focus of our collection. But we've been busy documenting the history of digital mammography and breast tomosynthesis at DuPont and Hologic, Inc. In these recently released oral histories now available on our website, you'll hear from the people who were on the cutting edge of this important technology.

The Hagley Library also has several Author Talks in our fall lineup. Pardon my language, but one of the talks is about crap. Seriously, it's in the title of a book by Wendy A. Woloson, *Crap: A History of Cheap Stuff in America*. She explores this fascinating topic that you may never have considered but probably have examples of in your own household. I hope you'll join us for what will be a lively talk and discussion.

I can't thank you enough for the support you've given Hagley as we finish our rebuilding from the flood last September. The Board empowered us to rebuild so that we are stronger than before the flood and now better able to withstand high water. Most of the sensitive systems are out of the Visitor Center basement; many of the mills, pathways, and powder yard exhibits have been reinforced; and we dredged the millrace to improve its capacity. We thank the Welfare Foundation for their support for the dredging project. Please stop by Hagley this fall to again enjoy the most beautiful mile along the Brandywine.

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Hagley Magazine welcomes your feedback.
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HAGLEY'S 2022 FIREWORKS SHOWS were truly spectacular this year, with extra touches celebrating the fortieth anniversary of Fireworks at Hagley. Spectators enjoyed a longer show with two pyrotechnics-packed finales that made this year's show especially memorable. As Hagley returns to its usual Fireworks format, one tradition will continue: Hagley Members will again vote for a show song in 2023. Thank you for your continued support!

HAGLEY THANKS FIREWORKS PRESENTING PARTNERS



Nation of Inventors Grand Opening (at last!)

HAGLEY MUSEUM AND LIBRARY seeks to inspire all people to be innovative in their own lives through investigation and exploration of its historical collections, original DuPont powder yards, and online resources. This fall, Hagley has even more ways to inspire museum visitors when *Nation of Inventors* opens to the public. The highly anticipated exhibition, housed in the Visitor Center, introduces visitors to the concept of innovation before they continue their journey to the historic powder yard, where they can see invention in action. The pathbreaking exhibition celebrates the American spirit of ingenuity by taking visitors on a journey from the 1790s through the “golden age” of American invention, in the late 1800s. The exhibit features more than 120 patent models from Hagley’s unique collection, highlighting the stories of inventors from all walks of life.

Patent models are scaled representations of inventions that were part of the patent application process for nearly 100 years. *Nation of Inventors* showcases patent models representing innovations in a variety of industries, from transportation and manufacturing to food preservation and medical devices. As diverse as their inventions, the vast majority of American inventors were—and are—everyday people who often went unrecognized in their own lives. In *Nation of Inventors*, visitors learn how a diverse pool of individuals contributed to innovation throughout our history.



KERRY HARRISON



NATION OF INVENTORS FEATURES COLORFUL, INTERACTIVE DISPLAYS THAT TELL THE STORIES OF AMERICAN INGENUITY.

Stories of invention, innovation, and the patent system tie in nicely with the historical narratives already shared at Hagley. In fact, DuPont company founder Éleuthère Irénée du Pont received the first of many DuPont patents on November 23, 1804, for improvements in a “machine for granulating gunpowder.” It was later assigned patent number X000587.

Nation of Inventors overcame considerable challenges. The Covid-19 pandemic slowed its development and installation. Then, one week before its scheduled opening in 2021, remnants of Hurricane Ida produced record flooding in the Brandywine Valley. The opening of the exhibition was delayed a year while Hagley’s Visitor Center was restored.

But these weren’t the first times major forces posed challenges for the patent models in Hagley’s collection. In 1836, a catastrophic fire destroyed the patent office in Washington, D.C., along with the models and patent records housed there. E.I. Du Pont’s patent model would have been among those lost in the fire. Some models were later recreated with funds appropriated by Congress and have made their way to Hagley and *Nation of Inventors*.

Another fire in 1877 destroyed more models when the patent office was in the building that now houses the Smithsonian American Art Museum. In the early twentieth century, thousands of models moved into collections at the Smithsonian, others were returned to their inventors, and some were sold. That so many of these models have survived and made their way to Hagley is truly remarkable. And now, after years of anticipation, the models will finally be on permanent display for Hagley visitors.

Nation of Inventors is included with general admission, which for Hagley members is, of course, free. Hagley is open 10 a.m. to 5 p.m., daily, with last admission at 4 p.m. For more information, visit hagley.org/inventors.



KERRY HARRISON

NATION OF INVENTORS

OPENS SATURDAY, OCTOBER 8 • 10 A.M.
INCLUDED WITH ADMISSION

Car Show Spotlights GM/DuPont Years



KERRY HARRISON

DURING THE FIRST HALF of the twentieth century, the DuPont Company held a large ownership stake in General Motors. During this time, the golden age of automobile styling and innovation, many iconic cars were manufactured by GM. This year's Car Show theme, "General Motors – The DuPont Years" will take visitors on a visual tour of General Motors greatest (and most stylish) hits from 1917 to 1964.

Hagley's annual car show, on Sunday, September 18, will feature many of these rides in the Feature Field, and more in the general show field of nearly 500 cars.

One highlight of this year's show will be a 1957 Chevrolet Bel-Air with original drivetrain and paint owned by Joel Bricker. His grandfather purchased the car from the original owner in 1962, and it has been passed down through the family.

Another classic that will be shown in the Feature Field is Al Peinhardt's 1936 Buick Roadmaster Phaeton, which was used in numerous movies. He is the third owner of this California car, with 34,000 original miles.

Car show visitors can also enjoy music, a pedal car racecourse, and a festival food court.

HAGLEY CAR SHOW

SUNDAY, SEPTEMBER 18 • 10 A.M. TO 4 P.M.

HELD RAIN OR SHINE • USE HAGLEY'S MAIN ENTRANCE

ADVANCE TICKETS: \$10 ADULTS, \$5 CHILDREN (6-14)

\$25 FOUR-PACK AVAILABLE (ONLINE ONLY)

DOOR TICKETS: \$12 ADULTS, \$6 CHILDREN (6-14)

HAGLEY.ORG/CARSHOW FOR TICKETS/INFO

HAGLEY THANKS PRESENTING SPONSOR
FIDELITY INVESTMENTS FOR THEIR SUPPORT.



Hagley Author Talks

AUTHOR TALKS ON “CRAP” AND LANDSCAPES for the automotive era are on tap this fall at Hagley. On Thursday September 29, Wendy A. Woloson will lead off the fall series with a talk based on her book, *Crap: A History of Cheap Stuff in America*. She tells the history of “crap” by exploring its many categories: gadgets, knickknacks, novelty goods, mass-produced collectibles, giftware, variety store merchandise. Her book takes seriously the history of objects that are often easy to dismiss: things not made to last; things we don’t really need; things we often don’t even really want. Woloson does not mock these ordinary possessions but seeks to understand them as a way to understand ourselves. *Crap* was a finalist for the Hagley Prize of the Business History Conference and a finalist for the National Book Critics Circle Award.

Woloson is associate professor of history at Rutgers University-Camden and the author of *In Hock: Pawning in America from Independence through the Great Depression*. An interview with her in the Hagley History Hangout series is at hagley.org/woloson.

On Thursday December 1, Thomas Zeller will close the fall series with a talk based on his book, *Consuming Landscapes: What We See When We Drive and Why It Matters*. His book explains how what we see while driving reflects our view of societies and ourselves. When the automobile was still young early in the twentieth century, designers sought to build scenic roads that would immerse drivers in landscapes. Indeed, these professionals envisioned cars and roads, if properly managed, as saviors of the environment. As cars became more popular, however, drivers became less interested in enchanted views; safety became more important than beauty. These clashes between designers and drivers resulted in different visions of landscapes made for automobiles and the kinds of roads we drive today.

Zeller is associate professor at the University of Maryland, College Park, where he teaches environmental history, the history of technology, and science and technology studies.

Author Talks take place in Hagley’s Soda House auditorium, starting at 7 p.m. Seating is limited, and advance (free) registration is required. Visit hagley.org/author for registration and information. Please email questions to Carol Lockman, clockman@hagley.org.

THOMAS ZELLER



WENDY WOLOSON

Hagley Craft Fair Adds Vintage Market

FANTAIL PHOTOGRAPHY



BECCA METHIAS



BECCA METHIAS



HAGLEY CRAFT FAIR

SATURDAY, OCTOBER 15 • 10 A.M. TO 5 P.M.
SUNDAY, OCTOBER 16 • 10 A.M. TO 4 P.M.
FREE FOR MEMBERS & CHILDREN 5 AND UNDER
\$8 ADVANCE TICKETS • \$12 AT DOOR
USE BUCK ROAD EAST ENTRANCE
WWW.HAGLEY.ORG/CRAFT

THE HAGLEY CRAFT FAIR is a yearly pilgrimage for both attendees and vendors alike. For some, it brings an opportunity to get a head start on holiday shopping, while for others, browsing indulgent treats at the food market stocks the pantry for fall's cool evenings. This year's fair, held October 15 and 16, continues to offer artisans, specialty food vendors, a beer garden and food trucks. New for 2022 is a special Vintage Market, giving visitors even more exciting shopping opportunities.

Artisans will be indoors throughout the Soda House and outdoors throughout the upper property. The event brings together talents in wood, jewelry, pottery, glass, art, textiles, leather goods and other media.

New participant Jay Miller will sell Millmont, his brand of leather goods. "Millmont was born out of a search for utility and design with modern application without compromising traditional craftsmanship," he said. "Every Millmont piece is my own personal design and made by hand – no factories, no mechanized lines, just artisan leather making using time-honored techniques. My goal is to give you the finest made products that perform and look great."

Another addition is Jessi Stead of Playthings Studio, whose line of jewelry lets people fidget in a safe, fun, and socially engaging way. "I combine different finishes to create my own geometric silhouettes and put my own minimalist spin on engineering techniques to create moving parts in all of my designs."

A returning favorite is woodworker Abe Warren. "My work as an artist is a love story," Warren said. "I have been smitten with wood for as long as I can remember. The raw material that I am attracted to is flawed. I choose to work with trees that have cracks and scars. My goal is to create beauty by working with and ultimately highlighting defects." Several food trucks will be available for lunch, and shuttle buses will run throughout the event.

Celebrate Halloween and Howl-o-Ween at Hagley!

WHAT BETTER WAY to celebrate the scariest weekend of the fall season than festively costumed children and canines? Hagley is planning two ways to celebrate Halloween and fall.

Howl-o-ween, on Saturday, October 22, is for dogs and their people. There will be several canine-themed activities, including a Witch's obstacle course and bobbing for "pumpkins." Doggie treats will be provided. Dogs can also be shown off in a pet costume parade, with awards in different categories. Community partners will be on hand to share information on pet adoption and natural doggie treats.

On Saturday, October 29, Halloween at Hagley is geared toward families (please leave the dogs at home). Young and old alike are welcome to wear costumes, be part of a costume parade, and join in the activities, such as Spider Slingshot, Ghoulish Gardens and "Batting" practice. Treats can be collected along the way. Hayrides showing off fall colors through Hagley's property will also be available on October 29.

Food trucks will offer snack and lunch options on both days.



KERRY HARRISON

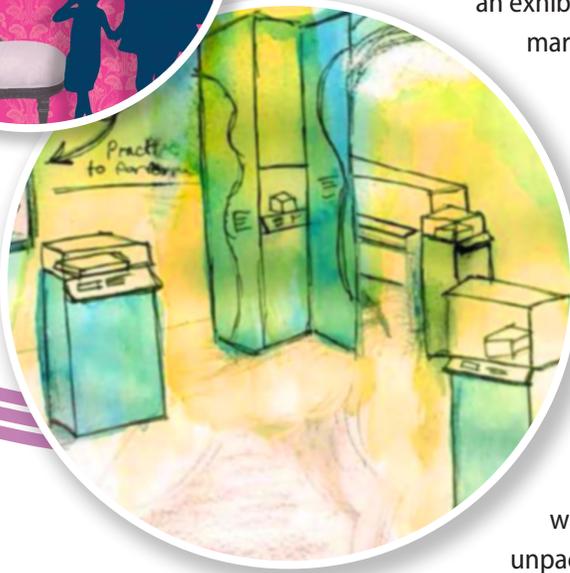
HOWL-O-WEEN AT HAGLEY

SATURDAY, OCTOBER 22 • 10 A.M. TO 4 P.M.
INCLUDED WITH ADMISSION
USE BUCK ROAD EAST ENTRANCE

HALLOWEEN AT HAGLEY

SATURDAY, OCTOBER 29 • 10 A.M. TO 4 P.M.
INCLUDED WITH ADMISSION
USE BUCK ROAD EAST ENTRANCE

Patent Models Inspire Museum Studies Students



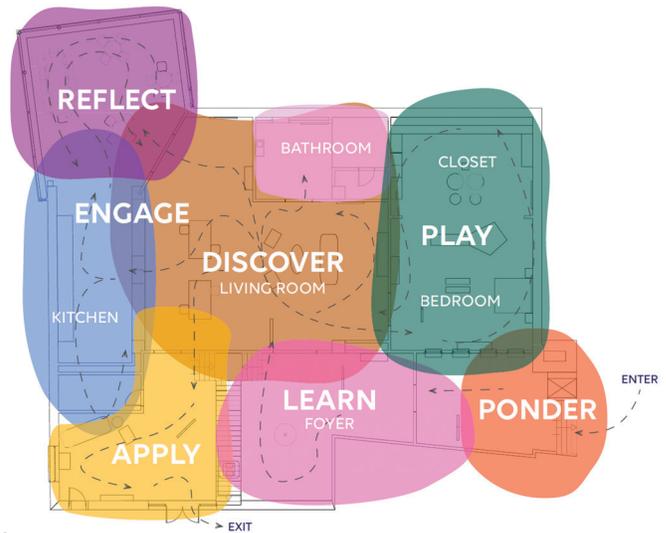
IN ANOTHER EXAMPLE OF THE WAYS Hagley “inspires people to be innovative in their own lives,” the museum recently partnered with the museum studies graduate program at the University of the Arts in Philadelphia. The partnership was centered on a Collaborative Exhibition Project course in which students from multiple degree programs use a real-world museum collection to design an exhibition, create education programs, and develop marketing materials.

This year, UArts students in the museum exhibition planning and design MFA program and the museum studies and museum education MA programs worked in two teams using Hagley’s patent model collection. Over the semester, students on one team developed an exhibition exploring the relationship between innovations in household tools and appliances and ideas about what constitutes the equitable distribution of household labor. Dozens of patent models for improvements in everything from washing machines to carpet sweepers were used to unpack the history of gender and household labor.



The second team developed an exhibition centered on patent models for improvements relating to keyboard instruments. The team used models for innovations in everything from pianos to music stands to piano stools and even a model for a piano that could convert into a bed to save space in crowded apartments. The exhibition followed the evolution of the piano from the early 1800s to the birth of ragtime to show how technological improvements intersected with social changes to bring more styles of music to more people in more places.

Because its focus is on the process of exhibition design, the course stops short of fabricating and installing exhibitions. But the experience still inspired innovation. As one student commented: "The vast and impressive patent model collection gave us a lot of creative freedom to develop an exhibition that ties the values of Hagley to the interests of the public." The exhibition concepts, programs, and marketing materials also offered Hagley staff members new ways to present stories of innovation.

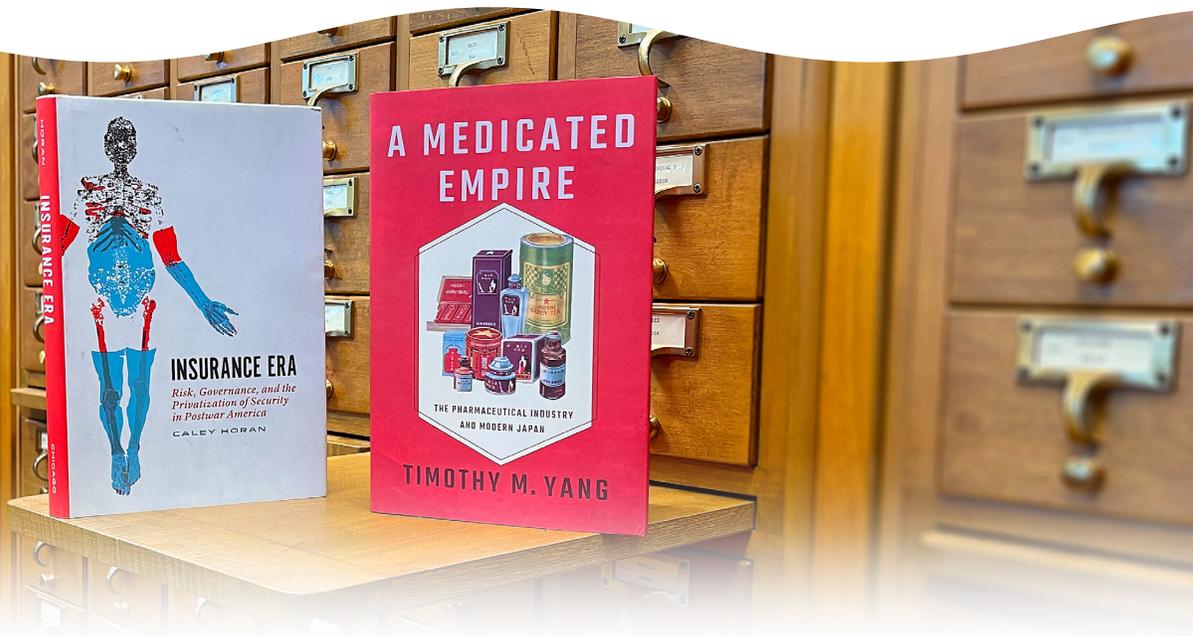


DETAILS FROM EXHIBITION PROPOSALS CREATED BY TEAMS FROM THE UNIVERSITY OF THE ARTS IN PHILADELPHIA.

TEAMS INCLUDED: JANE ALLEN, GWENDOLEN BEUERLE, ALLIE DEWEY, ALLISON HAMBURG, ARIANNA HQ, EMMA KLEMENT, TORI OSHEL, ELA PEREZ, ALLYSA TURNER, MATY YEPPEZ, AND ADAM ZIELINSKI.



ALL IN A DAY'S WORK



Hagley Book Prize Winners

THE QUALITY OF FINALISTS in this year's Hagley Book Prize for works on business history led to an impasse among the prize committee. The result is two winners: Timothy Yang for *A Medicated Empire: The Pharmaceutical Industry and Modern Japan* and Caley Horan for *Insurance Era: Risk, Governance, and the Privatization of Security in Postwar America*.

Yang shows how industry itself reaches into larger social and political spheres to influence the minds and bodies of consumers in the larger culture. He analyzes historical resources to study how Hoshi Pharmaceuticals profited by the heterogeneity of available products, the prioritization of affordable drugs over research and development, the subversion of government public health assessments, and the use of medicines as tools of colonization. His book demonstrates that the framework of business history can be used to go beyond telling a traditional corporate story.

Horan helps the reader to see what's really going on behind the scenes in insurance, highlighting the tension between private enterprise and governments,

and between insurance consumers and critics. Actuarial calculations of risk permeate our lives, yet they largely go unnoticed. People do not hold insurance companies accountable for profiting by the deaths and disasters suffered by others. Insurance rhetoric and free enterprise ideology continue to dominate the narrative since they provide ideas that alleviate our fears. For Horan, the idea of "actuarial fairness" is, at its core, a political construct that needs to be recognized before real change can be effected within the industry and the U.S. healthcare system.

Since 1999, Hagley Museum and Library has partnered with the Business History Conference to jointly offer the prize for the best book in business history, broadly defined. The prize committee is particularly interested in innovative studies that have the potential to expand the boundaries of scholarship in business history.

Hagley benefits directly from the competition, since a copy of each book submitted is accessioned into the library collection. Hagley has received up to 100 books per year in this fashion. Winners are listed at hagley.org/prize.

Data Helps Preserve Collections

SINCE THE INCEPTION OF HAGLEY MUSEUM in 1957 and the founding of the Hagley Library in 1961, the institution intended to preserve its historical and cultural materials for succeeding generations. To ensure their longevity, active steps must be taken; otherwise, heritage collections will be lost to decay from benign neglect. Preserving items in cool, low-humidity conditions prevents accelerated aging and undue deterioration. These same conditions also discourage pest activity. Pests such as moths will multiply at accelerated rates as indoor temperatures increase. Low humidity also stymie silverfish, a devourer of paper, which cannot survive for long without moisture.

Certain materials are at a greater risk from fluctuating conditions than others. Organic materials – including paper, dyes, leather, parchment, and rubber – are all vulnerable. Specific plastics are some of the most difficult materials to preserve because at normal room temperature they will not last beyond a few decades. Photographic movie film and negatives are mainly cellulose acetate or cellulose nitrate, which degrade with heat and moisture and produce their own acidic pollutants. Film is particularly vulnerable to moisture, since the gelatin layer that holds the image can become sticky. Hagley also preserves unique polymer artifacts, evidence of the laboratory innovations that resulted in new man-made products like Teflon and nylon. These vulnerable collections must be kept in cool or better yet, near freezing conditions. The colder the better, as this reduces the rate of chemical reactions that lead to cracking, yellowing, brittleness, and shrinkage of plastics.

Hagley's library and museum collections storage areas have strategically placed monitoring equipment so that conservation and curatorial staff can stay abreast of indoor environmental conditions. Sensors called dataloggers allow continuous data measurement and recording. Historical data can be graphed, viewed and analyzed by computer to help predict how long collections will last. Having the ability to see the current temperature and humidity in cold rooms and freezers gives peace of mind, since malfunctions in these units could be catastrophic.

As the field of conservation and preservation has evolved, so has the use of environmental data to demonstrate the effectiveness of preservation programs. At one time, data collection was analog: an ink line on a paper chart. Now it can be evaluated by computer algorithms to determine the likelihood of different risks, like mold growth, or metal corrosion. By regular monitoring and analysis of the historical indoor temperature and humidity data, library staffers have also learned which areas can retain set conditions if power is shut down. Hagley continues to seek improved methods for understanding the indoor environment and its impact on heritage materials to provide more sustainable preservation.



Hologic Oral History Collection Now Online

THE HAGLEY LIBRARY RECENTLY made available twenty-six hours of oral history interviews with people involved in inventing, researching, and commercializing digital mammography and breast tomosynthesis at DuPont and Hologic, Inc. Hologic was the early leader and continues to lead in the worldwide digital mammography market. Hologic based the underlying technology of their digital systems on work done by DuPont in the 1990s.

The interviews cover the development of digital radiology, mammography, and digital breast tomosynthesis (3-D mammography). Interviewees discuss the development and certification of the new technologies by the U.S. Food and Drug Administration and equivalent international bodies, negotiations with the medical insurance industry, and the sale of the latest technologies to individual hospitals, clinics, healthcare systems, and other care providers.

The interviews contain personal reflections on the healthcare industry, the research and development process, and the unique challenges of imaging breast tissue. They include discussions on the social impacts of their work and what it means to create systems capable of saving millions of lives. The collection is at hagley.org/hologic.

HOLOGIC™

The Women's Health Company

Airport Exhibition Features Thomas Shaw Patent

An exhibition titled *Artifacts of Invention: Patent Models from Hagley Museum and Library 1845-1895* is on view at Philadelphia International Airport, between terminals C and D, through the holidays.

Chris Cascio, Hagley's Alan W. Rothschild assistant curator of patent models, selected forty-nine patent models from the nearly 5,000 in Hagley's collection that featured a Philadelphia connection or referenced transportation, food, or drink – all topics on the minds of airport travelers.

One model represents one of Philadelphia's most prolific inventors, Thomas Shaw. Called the "Edison of Pennsylvania," Shaw earned more than 100 patents in his lifetime for inventions ranging from a disinfecting candle to an underwater observatory. Primarily, he focused on developing gauges and safety equipment for machinery. Hagley has four of his patent models, including his first patent for a gas meter in 1858, when he was 19 years old.

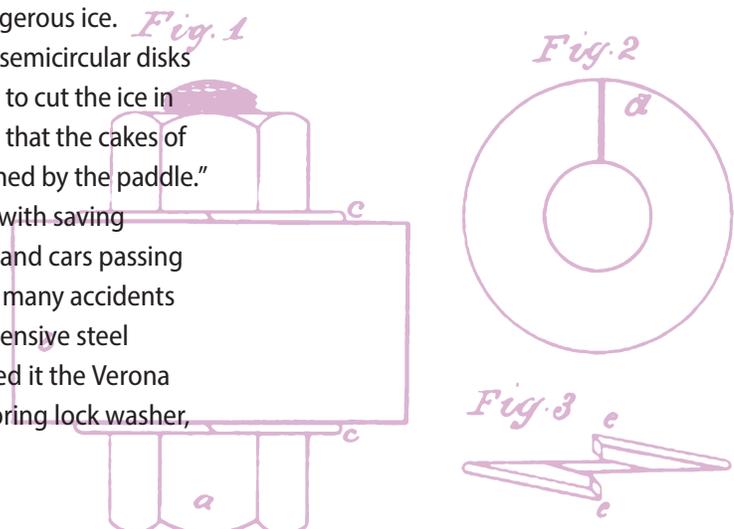
Shaw's model on exhibit is for an ice-chopping steamboat paddle wheel. Ships and steamboats operated unless the Delaware River completely froze over, meaning damage from ice chunks was a constant threat. Even as late as the 1970s, the Coast Guard closed the river to traffic because of dangerous ice.

His 1872 patent "consists in the securing of semicircular disks of steel to the paddles of steamboat-wheels, ... to cut the ice in several places throughout the length of paddle, that the cakes of ice may be reduced in size before they are touched by the paddle."

One of Shaw's other inventions is credited with saving thousands of lives. Vibration from locomotives and cars passing along the rails loosened the hardware, causing many accidents and deaths from derailments. His simple, inexpensive steel washer kept the nuts firmly connected. He called it the Verona lock nut washer, and it's now called a split or spring lock washer, and it can be found in hardware stores today.



THOMAS SHAW AND HIS PATENT DRAWING OF A SPLIT OR SPRING LOCK WASHER.





Thank You!

KERRY HARRISON

THANKS TO OUR CORPORATE PARTNERS!
 It is with their support that Hagley is able to offer events such as Bike & Hike & Brews, Fireworks at Hagley, Hagley Car Show, Science Saturdays, and more. Visit hagley.org for the current events schedule.

PIONEERS



INNOVATORS



PRESENTERS



TRAILBLAZERS



EXPLORERS



DISCOVERERS

- | | |
|------------------------|-------------------------|
| Alderman | Glenmede |
| Automotive Machine | Highmark Blue Cross |
| Brown Advisory | Blue Shield Delaware |
| Bryn Mawr Trust | Lyons Companies |
| Company of Delaware | Safeguard Group, Inc. |
| Buccini/Pollin Group | Service Unlimited, Inc. |
| Cover & Rossiter, P.A. | Sheridan Auto Group |

GROUNDBREAKERS

- | | |
|--------------------------------|--------------------------------------|
| A-1 Sanitation Service, Inc. | Gerber Masonry |
| Artisans' Bank | Mid Atlantic |
| Biddle Capital Management | Industrial Belting, Inc. |
| Caffé Gelato | Weymouth, Swayze & Corroon Insurance |
| Concord Mall/Allied Properties | Wilmington Brew Works |
| Edward J Henry & Sons | |

Inventors & Ingenuity

STORM CLOUD: A WEATHER PREDICTING INSTRUMENT - \$24.95/\$22.46 members

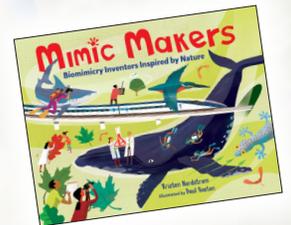
A modern twist on a classic device, the Storm Cloud is an age-old way of seeing what the weather has in store. This decorative device is a perfect addition to the windowsill or desk of the curious-minded.



MIMIC MAKERS: BIOMIMICRY INVENTORS INSPIRED BY NATURE

\$17.99/\$16.20 members

Meet ten real-life scientists, engineers, and designers who imitate plants and animals to create amazing new technology. Discover how we copy nature's good ideas to solve real-world problems.



AMERICAN INDEPENDENT INVENTORS IN AN ERA OF CORPORATE R&D

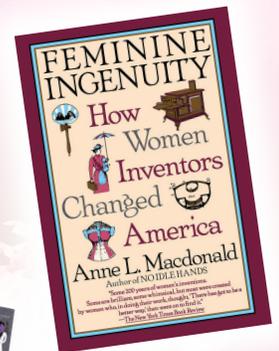
\$60.00/\$54.00 members

During the nineteenth century, heroic individual inventors such as Thomas Edison and Alexander Graham Bell created entirely new industries while achieving widespread fame. In this book, Eric Hintz argues that lesser-known inventors continued to develop important technologies throughout the twentieth century.



FEMININE INGENUITY - \$25.00/\$22.50 members

In this fascinating study of American women inventors, historian Anne Macdonald shows how creative, resourceful, and entrepreneurial women helped to shatter the ancient stereotypes of mechanically inept womanhood.



WOMEN IN SCIENCE PUZZLE - \$16.99/\$15.30 members

Based on the New York Times bestselling book *Women in Science*, this brilliantly illustrated 500-piece puzzle celebrates 15 trailblazing women in science, technology, engineering, and mathematics.



NEWTON'S LAB: MAKE YOUR OWN PAINTING PENDULUM - \$12.95/\$11.66 members

Learn about the forces of gravity while making art at the same time with this activity kit and great hands-on learning experience.



CHECK HAGLEY.ORG FOR STORE HOURS OR SHOP ONLINE AT STORE.HAGLEY.ORG

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 AND FREE FOR MEMBERS AND CHILDREN FIVE AND UNDER.

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

PRESENTED BY YOUNG CONAWAY STARGATT & TAYLOR, LLP

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

WEDNESDAYS IN AUGUST – 5 TO 8 P.M.

Bike & Hike & Brews

PRESENTED BY DOGFISH HEAD CRAFT BREWERY

Enjoy an after-work hike or a picnic along the Brandywine's most beautiful mile on summer Wednesday evenings from June through August. Bring a picnic or visit a food truck on site. Dogfish Head beer and Woodside Farm Creamery ice cream will be available for purchase. Leashed canine companions welcome on August 17 & 31. \$5 per person, free for members and children five and under.

AUGUST 16 – TUESDAY – 6:30 TO 7:30 P.M.

Hagley Up Close Live! with Max Moeller

Max Moeller, Curator of Published Collections, will discuss our important library holdings related to the history of automobiles in the United States such as the Z.

Taylor Vinson Collection of Transportation Ephemera as well as the John Margolies Collection of Travel Ephemera. The discussion will take place at the Hagley Barn using our 1928 DuPont Motors Model G Phaeton as the perfect backdrop! \$5 for Hagley members, \$10 for non-members.

SATURDAYS IN AUGUST – 11 A.M. TO 3:30 P.M.

Summer Saturdays

Spend a Saturday at Hagley and enjoy activities from fishing to "funpowder" to water balloon games! Visit hagley.org/summer for activities and details.

AUGUST 28, SEPTEMBER 25, OCTOBER 30, & NOVEMBER 11 – 1, 2, & 3 P.M.

Cannon Firing Demonstrations

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

SEPTEMBER 18 - SUNDAY - 10 A.M. TO 4 P.M.

Hagley Car Show

"General Motors – The DuPont Years"

PRESENTED BY FIDELITY INVESTMENTS

Experience the wonders of automotive innovation. Browse through more than 500 antique and restored cars. The show features vehicle parades, motoring music, video and pedal car racing, and a food court. Visit hagley.org/carshow for details. The museum will be closed on September 18 for the car show.

SEPTEMBER 29 - THURSDAY - 7 P.M.

Author Talk: Wendy A. Woloson

Woloson will discuss her new book, *Crap: A History of Cheap Stuff in America*. Held in the Soda House auditorium. Registration is free but required, visit hagley.org/woloson for details.

OCTOBER 8 – SATURDAY – 10 A.M.

Nation of Inventors Opens

See Hagley's newest exhibition, an adventure through time and innovation! Held in Hagley's Visitor Center. Visit hagley.org/inventors for details.

OCTOBER 15 & 16 – SATURDAY 10 A.M. TO 5 P.M., SUNDAY 10 A.M. TO 4 P.M.

Hagley Craft Fair

Unique artisans, a specialty food market, and two days to enjoy! NEW for 2022—a vintage market will be offered for fall shoppers. Visit hagley.org/craft for info. \$8 for advance tickets \$12 at the door, free for Hagley members and children five and under.

OCTOBER 22 – SATURDAY – 10 A.M. TO 4 P.M.

Howl-o-ween at Hagley

Halloween has gone to the dogs at Hagley! Bring your leashed canine companion (with or without a costume) to enjoy Halloween-themed activities designed especially for our four-legged friends.

OCTOBER 29 – SATURDAY – 10 A.M. TO 4 P.M.

Halloween at Hagley

Looking for a safe place to trick or treat this Halloween? Head to Hagley for spooktacular activities! Children are invited to come in costume and visit treat stations throughout the property.



KERRY HARRISON



FANTAIL PHOTOGRAPHY

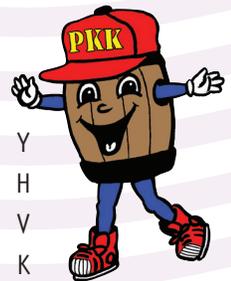


KERRY HARRISON



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

HAGLEY'S NATION OF INVENTORS EXHIBITION celebrates the spirit of American innovation and ingenuity. Find these popular American inventions in the grid of letters below.



WORD LIST

- ASSEMBLY LINE**
- CARBON DATING**
- CHEMOTHERAPY**
- CLASP LOCKER**
- CRASH TEST DUMMY**
- DEFIBRILLATOR**
- DENTAL FLOSS**
- EMAIL**
- FERRIS WHEEL**
- GPS SYSTEM**
- HEARING AID**
- INTERNET**
- MOBILE PHONE**
- LASER**
- MICROWAVE OVEN**
- TRAFFIC LIGHT**
- VIDEO GAME**

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

PHOTO PUZZLE ANSWERS: 1) WHITE ALPACA'S NOSE IS LARGER 2) PURSE IS SMALLER 3) PURSE STRAP IS MISSING 4) BOTTOM OF FENCE POST IS MISSING 5) BROWN ALPACA'S HEAD IS DIFFERENT 6) TREE IN BACKGROUND IS DIFFERENT 7) SUNSPOT ON GROUND HAS MOVED 8) DARK BROWN ALPACA'S FRONT LEG IS LONGER 8) EXTRA FINGER ON HAND HOLDING PHONE



Hagley

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