

THE NATIONAL
IRON & STEEL
HERITAGE MUSEUM

BOILERPLATE

Fall 2021



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Our Mission

The National Iron & Steel Heritage Museum is a not-for-profit educational institution whose mission is to promote an understanding of the iron and steel history of Coatesville, Chester County, Southeastern Pennsylvania and the region to audiences of all ages and interests by collecting, preserving, exhibiting and interpreting iron and steel's history and its relationship to the region and nation beyond.

PRESIDENT'S MESSAGE

As we enter the fall season and head towards year end, I cannot help but look back on 2021 and admire the people around me. I cannot thank the team of the National Iron and Steel Heritage Museum enough for their dedication, desire, and work ethic helping run one of Chester County's best visitor attractions. They are like family to me. The Board is dynamic, engaged, and thoughtful in providing critical insight and leadership. I rely on the help of executive director Jim Ziegler for programs and fundraising; Sharon Tandarich for property management; Sam Radziviluk for IT and online exhibits as well as

EXECUTIVE DIRECTOR'S REPORT

Since reopening to visitors in mid-July, the National Iron & Steel Heritage Museum has been busy with visitors from the local region and beyond. The new Visitors Center has been a favorite choice as well as the 120" Mill Motor House, due to the abundance of iron and steel history interpreted through these sites.

In the Visitors Center, the train and ship displays attract a tremendous amount of visitor attention. The original water-powered iron rolling mill diorama, the 206" rolling mill and "spun heads" interactive display, the exhibits of the electric furnace and Plant 5 (where the World Trade Center steel plates were made in Coatesville) inspire lots of questions.

Rachel Cathel for communications and Melinda Williams for our front-line visitor experience and fundraising. Lastly, I rely on the administrative assistance of Allison Connell and Kathy Franciscus as well as our maintenance department, Cody Orsheky and David Ferguson. We are all supported by our members (such as yourself reading this article) giving us the ability to bring our collections, exhibits, and programs to the public. It is also the visitor who reinforces and validates what we are attempting to do here: Bringing the story of steel to you.



Scott G. Huston



Jim Ziegler

The fire engines and ambulances are now in the Motor House, with the submersible ship known as the Guppy. The Research Department test lab furnaces, rolling mill, and tensile strength testing equipment and the GO Carlson metallurgical department lathes, band saws, and drill presses are on display there as well. We plan to have the Visitors Center open for the Holiday Open House on December 10th. Please stop in to enjoy the variety of stories told of the people, places, and products of the iron and steel industry.

The National Iron & Steel Heritage Museum is a project of the Graystone Society, Inc., a 501(c)3 public charity registered with the Pennsylvania Bureau of Charitable Organizations. Contributions are tax deductible to the extent permitted by law.

National Iron & Steel Heritage Museum, 50 S 1st Ave, Coatesville, PA 19320 | 610-384-9282



FROSTED WINDOWPANES....

Join us on Friday, December 10, 2021, from 5:00 to 8:00 p.m. for our annual Holiday Open House & Auction. After taking a break in 2020 to observe the rules of the pandemic, we are welcoming back our members and guests to a holiday ritual that has become a sentimental favorite in Coatesville. Stroll down luminaria-lit pathways, listen to the sounds of the Lukens Band's enchanting music, inhale the scent of fresh pine, and taste the delicacies offered for your delight. At the Georgian-Revival Lukens Executive Office Building, visit our annual model train display from the collection of Charles L. Huston III. Upstairs, the Lukens Band will be playing their much-loved collection of holiday favorites. Lining the awe-inspiring grand staircase will be rows of red poinsettias. Over at the Graystone Mansion (one of the finest examples of American Collegiate architecture), guests will be offered hot beverages and delectable snacks in the estate's walnut-paneled dining room. The man in red will also be playing host to all the wishes and dreams a child can conjure up in the first-floor music room.

Across the street at Terracina Mansion, indulge in the Victorian finery that only a property of this magnitude can display.

Instantly transport yourself back to a gothic 1850 and enjoy the holiday as you would have then. Behind Terracina, new this year, is our much-lauded Visitor Center! Visit the gift shop there and secure that last minute, unique holiday gift! A nominal entrance donation of \$5 is requested for entrance to all three buildings.

GOING ONCE, GOING TWICE, SOLD

You will have a chance to win a foursome at Merion East Golf Club, and Merion West in our on-line auction! Delicious food baskets abound from Lancaster and Chester Counties. Restaurant gift certificates and tickets to highly-sought-after attractions are all up for grabs! Automotive maintenance, sports parties, power tools, balloon rides, and design consultations are all ready for your bid. Don't delay---watch your email and social media accounts for more announcements.

A NEW YEAR IS COMING

Join us next year for these most enjoyable (and highly informative events):

- Rebecca Lukens Birthday in January
- Black History Month Panel in February
- Women's History Month Panel in March



(Clockwise from upper left)
USGC West Wind, Artist rendition of the new Polar Security Cutter, SS Manhattan, USS Emory S. Land



ICEBREAKERS: AMERICA'S WAY TO THE FROZEN WORLD

Frozen territories are some of the least-explored regions on Earth. This is mainly because of the regions' large capacity of ice, which is not only hard to live in, but is also a challenge to maneuver through. As one of the oldest organizations in the federal government, the Coast Guard is responsible for a large array of duties ranging from defending the nation to aiding scientists in the study of natural environments. The Coast Guard uses icebreakers to plow the way through icy regions, like Antarctica and the North Pole, allowing for the exploration of frozen environments and providing aid to those that live there.

The origin of icebreaking appeared along with the advent of steam propulsion in the 1830s. It was found that steam ships with reinforced bows could deal with ice in the 3 harbors of East Coast ports. The purchase

of Alaska in 1867 created another need for vessels that could cut through ice, leading to the construction of the vessel *Bear*, the Coast Guard's first "ice-resistant" ship. Over the next century, various classes of icebreakers would be developed, leading to several "firsts" in history and the exploration of icy regions.

Our exhibit, *Icebreakers: America's Way to the Frozen World*, explores the fascinating history of icebreaking in America. Included in the exhibit is a short history of the Coast Guard and its role in icebreaking innovations. The exhibit also highlights numerous icebreakers that had historic impact such as the *SS Manhattan*, an oil tanker converted into an icebreaker using Lukens steel. What the future holds for America's icebreakers is also discussed. Please visit www.steelmuseum.org to view the exhibit!



(Left) USCGC Healy and (Right) USCGC Polar Star are the only two icebreakers the Coast Guard currently has in operation.

20TH ANNIVERSARY 9/11 COMMEMORATION AT NISHM



NISHM hosted its 11th commemoration of the 9/11 attacks in front of one of the tridents from the Noth Tower. Chief Kevin Pierce (pictured) of the South Coatesville Police Department started the service singing the National Anthem. Speakers including Congresswomen Chrissy Houlahan (pictured), State Representatives Carolyn Comitta and Dan Williams, Chester County Commissioners Marian Moskowitz, John Maxwell and Michelle Kichline, and Coatesville Councilpersons, Linda Lavender-Norris and Donald Folks all recalled the day and how the attacks changed the world.



THE MIGHTY SYCAMORE BOWS OUT

The sad reality of having a campus filled with beautiful foliage specimens is that eventually, their life comes to a natural end. So was the case with the graceful sycamore that towered over the backyard of Terracina for over 100 years, providing shade for the multitudes and homes for any number of little creatures, especially ground hogs.

When signs of blight first appeared on the sycamore, Jonathan Fair Oaks from Living Tree attempted to stem the decline, but to no avail. Thus, it was decided that the mighty Sycamore should come down. With careful attention not to disturb Terracina or her grounds, a massive crane was brought in and a skilled crew from Boot Road Tree Service brought a swift end to a once magnificent tree. A portion of that tree - saved in an effort to age it and preserve its memory - now sits in the Lukens Executive Office Building lobby, protected by seven coats of wax and linseed oil. But her graceful presence and full-bodied shade will be a memory not soon forgotten.



UP ON THE ROOF OF TERRACINA

Here's a story of a win-win! Hoping that the job of roofing Terracina may be on his books this winter, contractor Bill Dunleavy of Dunleavy Roofing in West Chester, was able to secure the Cedar Shake shingles from his source (for the job) at a good price. Cedar Shake (and all lumber products) have basically doubled and tripled in price in 2021. What other bidders were honestly pricing out at \$260,000 for the roof, Dunleavy was able to come in at \$160,000 ---thus saving Historic Huston Properties, \$100,000. A win worth shouting from the rooftops!



EXPERT CLOCK CARE

In the Lukens Executive Office Building there are four unique clocks. In the lobby there is a tall case clock as well as a large wall clock. There are also two miniature tall case clocks. We needed an experienced clock expert to get all these clocks keeping time, chiming, and striking correctly. Boy, did we find one! His name is Gordon Converse and he is truly no ordinary clock repairman.

Gordon discovered his passion for horology (the collecting and repairing of antique clocks) at a very young age. On his website, he tells of his "bewildered parents" when he asked Santa Claus for beeswax so he could re-attach a porcelain watch dial that had broken dial feet. He started his antique clock restoration business in 1978. Forty years later, he is still doing "challenging clock restorations". In the 1990's Gordon spent 10 years giving "on-air" appraisals for the Antiques Roadshow. We certainly are honored to have Gordon taking care of our clocks and we know that they are in the best of hands.

FLEMING FAMILY CLOCK

For the next three years, Terracina will be privileged to play host for a very special clock. Made in 1796, the clock's family history ties it directly to the history of Coatesville. On loan to us from Ben Fleming of Saline, Michigan the clock has been in his family for generations. Originally from Scotland, the Fleming family was a part of Coatesville's earliest history. William Fleming was one of the earliest landowners in the area that would become Coatesville. He owned about 207 acres of land bordering the Brandywine River, and built the future home of Charles and Rebecca Lukens, Brandywine Mansion, in 1739. In 1787, William Fleming's son, Brandywine Mansion to Moses Coates, a prosperous farmer and the namesake of Coatesville.

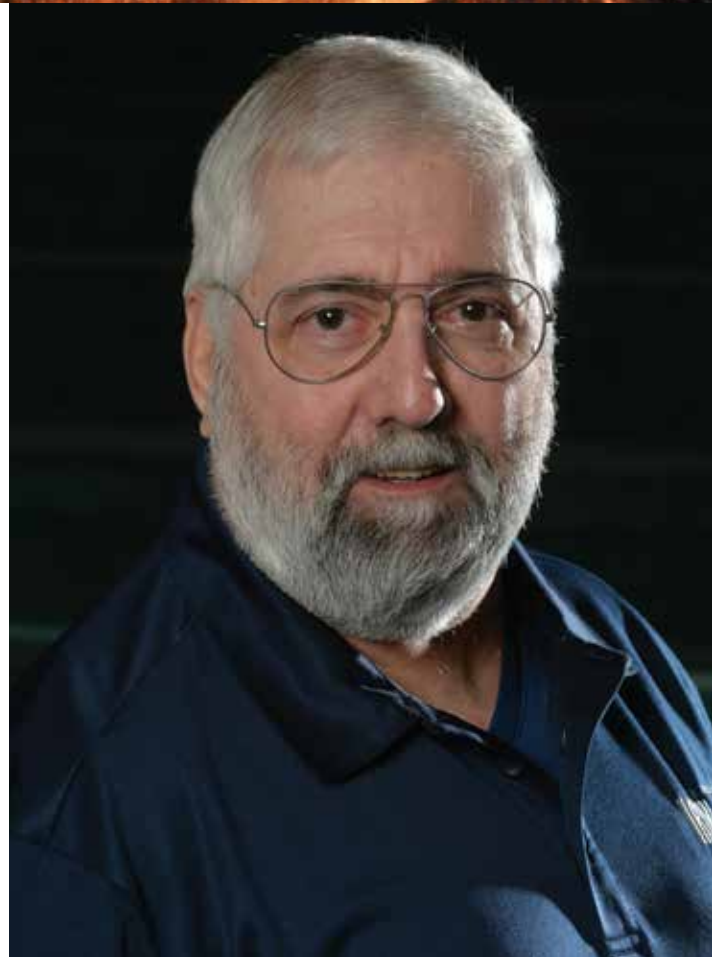
This clock is also important because of its own local history. It was made in Strasburg, Pennsylvania by clockmaker Thomas Burrows. Burrows was born in County Cavan, Ireland. He resided in Strasburg from 1787 to 1810 and only made clocks during those years.



JOHN ROSS

John Ross, a NISHM tour guide since 2019, is a Coatesville native, born and raised in the Coatesville area. John graduated from Coatesville Area High School in 1982, then received his AAS from Delaware County Community College and his NCIDQ from Moore College of Art. A majority of John's career was spent as an interior designer, with his own firm (Ross Deacon Designs), as well as working with other companies.

Of note, his father, John R. Ross, Jr. worked as an engineer for Lukens and ended his career as a foreman for the Machine Shop. His grandfather, John R. Ross, was a foreman at Lukenweld. Branches of his family have been in the area since the early 1700's. Some notable family members are Peter Babb, George Ross (signer of the Declaration of Independence), Humphrey Marshall, John Bartrum Newlin (of the Newlin Grist Mill) and the Mendanhall family. John is married to Jeffery S. Deacon and resides in Coatesville.



SAM RADZIVILUK

A native of Coatesville, Sam was hired by the Coatesville Record as a photojournalist while still in high school. After graduation he went on to study photography at Rochester Institute of Technology.

In 1982 Sam saw an opportunity at Lukens Steel to work as a photographer for both the Public Relations and Advertising departments. For almost twenty years, Sam traveled the country creating photo essays for the Lukens Annual Report, Lukens Life Magazine, and other Lukens publications.

Sam joined the museum staff in 2009 primarily doing development. Sam is currently the Digital Manager, responsible for keeping the museum's computers and network operational, as well as being responsible for all things "optical" at the museum. During the 2020 pandemic, it was Sam's computer-ability to translate museum president Scott Huston's vision of a virtual museum into reality. Sam resides in Exton, with his lovely wife, Mary.

THANK YOU TO OUR SPONSORS



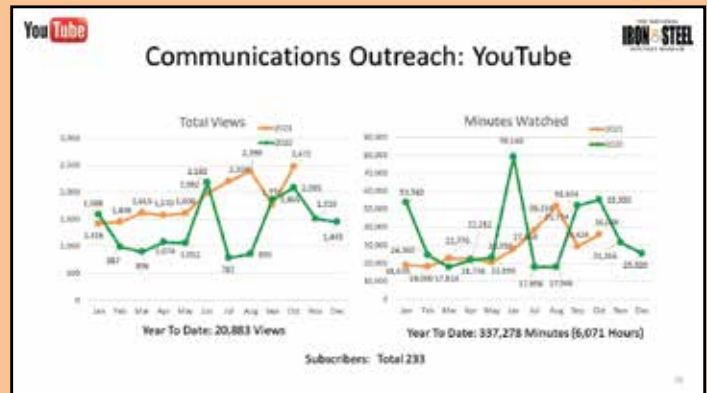
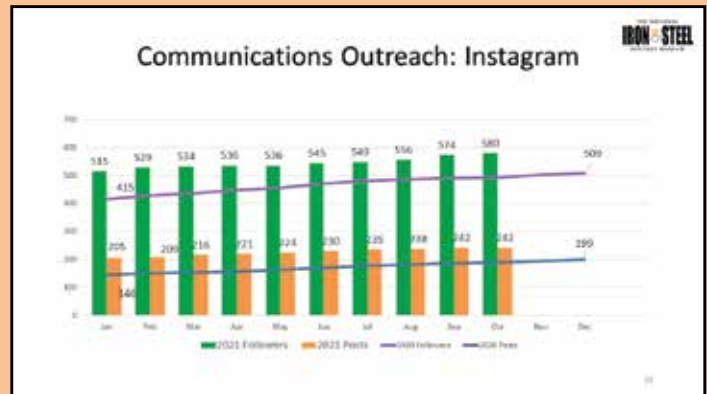
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Peter & Ruth Nunn
Joy Rowland



DIGITAL VISITORS CONTINUES TO GROW IN 2021



THANK YOU TO ALL OF OUR MEMBERS
WHO JOINED OR RENEWED FROM
JULY 1, 2021 TO OCTOBER 31, 2021

NEW MEMBERS

BOLD DENOTES 120" MILL CLUB MEMBER & ABOVE)C

Justin Chan

Joyce Rowland

George Thomas

Jen French

Charles Stone

Richard Toland

RENEWING MEMBERS

(* DONATES 5+ CONSECUTIVE YEARS, BOLD DENOTES 120" MILL CLUB MEMBER & ABOVE)

Viola Bird*

Stockson Illoway

Alan Novak

Chip Breuninger

Casimir Lehenky*

Carol Poinier*

Dan Burgess*

Rodney Linderman*

Michael Racz*

Maurice Hare*

Harry Lohr

Gunnard Travaglini

Charles Hossack*

Michael Lukens

James Ziegler

Michael McNeil

WE ARE GREATLY APPRECIATIVE OF ALL OF OUR
MEMBERS' SUPPORT!

WE COULDN'T DO IT WITHOUT YOU!

NISHM NEEDS YOUR HELP - CALL FOR VOLUNTEERS

We are looking for volunteers to help with tours, collections, office work, and events. Museum hours are 10:00am to 4:00pm, Monday through Saturday (with evening events).


Available opportunities include:

- Special Events – set up, man registration table, clean up
- Collections (Tues., Wed., and Thurs.) – organize rooms, accession process, etc.
- Tour Guides (any day) – tour visitors through steel exhibits and historic homes.
- Saturday Office Help – answer phones, greet visitors when staff is unavailable.

If interested, please contact Jim Ziegler, Executive Director, at execdir@steelmuseum.org, or call 610-384-9282. Thank you!

EXPLORE EXHIBITS ON STEELMUSEUM.ORG

Valley Iron Works



The Valley Iron Works was one of eight local rolling mills that helped to make the Coatesville area a center of boiler plate production in the mid-eighteen hundreds. The mill operated with a few interruptions, for over eighty years, from the late 1830's until it was dismantled in 1919. It reached its pinnacle of prosperity in the 1870's and 1880's under the management of Charles and Joseph Pennock. It employed 200 men, boasted the largest plate mill in the state, and supplied wide iron plates for the thriving locomotive building industry in Philadelphia and the fledgling shipyards constructing iron hulled vessels that flourished along the Delaware River from Wilmington to Philadelphia. Two of its most important contributions was supplying iron plates for the City of Peking, the largest American...

VIDEOS

The History of the Valley Iron Works, November 5, 2020


DOWNLOADABLE DOCUMENTS

THE HISTORY OF VALLEY IRON WORKS - RICHARD P. SMITH

LINKS TO OTHER WEBSITES

Greater Philadelphia GeoHistory Network
 Rolling in Coatesville - Richard P. Smith
 Penn State University Libraries' Digital Collections - 1886 Map
 Penn State University Libraries' Digital Collections - 1902 Map
 Two Hundred Years of Rolling on the Brandywine - Richard P. Smith
 People's Hall

New York's World Trade Center



On the morning of September 11th, 2001, four planes departed from airports on the East Coast, all bound for the West Coast. Aboard these planes, unknown to the passengers and pilots, were 19 people who would change the face of American culture, both abroad and at home. However, scholars have argued that this event was even more important to Americans than the events of the twentieth century, namely the first and second World Wars. Regardless, it is a fact that American culture has never been quite the same after the events at the World Trade Center, the Pentagon, and Shanksville.

American Airlines Flight 77 left Dulles, Virginia, headed for Los Angeles, California, around 8:20am. Half an hour later, it was hijacked, and headed towards an unknown destination. A little after 9:30am, hijacked Flight 77 crashed into the Pentagon in Washington, D.C. in 2001. 125 military personnel and civilians were killed when the Pentagon building, along with all 68...

EXHIBIT LINKS

Timeline
 Effects
 September 11th and the Steel Industry
 Where Are We Today?

NISHM VIDEOS

2020 Coatesville Remembers 9/11/2001 Commemoration
 2019 Coatesville Remembers 9/11/2001 Commemoration
 Coatesville PA and the World Trade Center Tragedy
 2017 Coatesville Remembers 9/11/2001 Commemoration
 2017 9/11 Remembrance Concert
 2006 Coatesville Remembers 9/11/2001 Commemoration
 2014 Coatesville Remembers 9/11/2001 Commemoration
 2013 Coatesville Remembers 9/11/2001 Commemoration
 2011 Coatesville Remembers 9/11/2001 Commemoration
 2010 Coatesville Remembers 9/11/2001 Commemoration
 2010 World Trade Center Steel Annual Ceremony
 2010 World Trade Center Steel Returns To Coatesville
 2001 Coatesville Remembers 9/11/2001 Commemoration

LINKS TO OTHER WEBSITES

SteelAmerica.com September-11 Attacks
 SteelAmerica - 9/11: As Events Unfold Video
 SteelAmerica - 9/11: As Events Unfold Video

SAILING WITH STEEL: SUCCESS IN THE AMERICA'S CUP

The America's Cup is viewed as the most difficult trophy in sport to win. With its fast yachts, close races, and the appearance of famous entrepreneurs, the Cup has captivated nations and citizens throughout the world.

This exhibit looks at the Cup and the role Lukens and steel has played in the races.

SYDNEY TUSHAR WISE - INTERN EXTRAORDINAIRE

Sydney first started working with NISHM in the fall of 2018, doing an undergraduate internship for Temple University. She was a full-time student majoring in Anthropology. She studied cultural anthropology, including topics such as medieval studies, Victorian-era literature, archaeology, and museum classes. During her internship with us she worked in all areas of Collections Management. Sydney received her Bachelor of Arts in Anthropology, with a focus in archaeology, in December of 2018. She is currently working towards her Master of Arts in History at Millersville University and is working full time in the behavioral health industry.

In the summer of 2021, as part of a graduate internship for Millersville, Sydney returned to curate the 20th anniversary September 11th exhibit. She researched and produced a digital exhibit on the topic, which can be seen on the NISHM website. She also scripted and designed a physical exhibit which can be seen at the museum's visitor center. In addition, she helped to build a digital exhibit for a collection at Temple University, that was completed in 2018.

Sydney is an archaeologist by trade - at least until she completes her graduate degree, and then she will be a historian. As an archaeologist, Sydney has taken part in several site excavations. The most notable being the excavation of a Roman villa outside of Rome, Italy. She also took part in an excavation of a slave plantation on the island of Anguilla. After receiving her graduate degree, Sydney will pursue a career working in museums.



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