

THE INFO AGE MARCONIGRAPH

NEWSLETTER OF THE INFORMATION AGE SCIENCE HISTORY CENTER AND MUSEUMS

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www.infoage.org

April - June 2018

The Computer Deconstruction Lab at InfoAge

We are excited to announce the re-opening of the Computer Deconstruction Lab. The upgraded space will provide low-cost voice recording studios, educational, listening and networking events.

The educational tracks will include networking and community storytelling. The space is meant to foster knowledge sharing and community connectivity, plus develop partnerships with the Camp Evans neighborhood.

Exactly what is CDL, and why build a podcast studio?

Nestled inside the former WW II Telephone Exchange Building (Building 9059), lives a group called Computer Deconstruction.

Our purpose is to teach computer technology and the changes that have been made over the past 15+ years. As part of the teaching experience, we support a portion of the network, servers, and desktop computers used at InfoAge.

Projects have included dedicated servers for the security cameras, specialized computer workstations to support the TLM-18 antenna, and the broadcast automation for the podcast studio.

In the spring of 2017, discussion began between the CDL volunteers on branching out into the podcast realm. That concept integrated with the reconfiguration of a portion of the CDL space to support a podcasting studio.

Our facilities now include a four person Studio with state-of-the-art recording and mixing equipment and a classroom space. The studio is equipped with professional recording and sound equipment. Audio editing tools like Audacity and Hindenburg are also available.

Interested in live streaming? Call in shows? We can help with that as well. For additional information about the CDL program, please contact Daniel Jacobs at 732-456-5001 or via e-mail daniel.jacobs@compdecon.org



Goodbye to Paper and Hello to Green!

As stated in our January issue of our Newsletter, InfoAge has "Gone green."

Our Newsletter is only available in electronic format. To continue to receive a copy please send your name and email address to us at admsupport@infoage.org

Thank You for understanding our commitment to the environment.

There will be a limited number of print copies available in the museum for pick-up.

InfoAge would like to thank the CDL Team, along with all of our volunteers who helped make the re-opening of the Computer Deconstruction Lab possible.

Best of Luck to you all.

InfoAge is a Charitable Organization on Amazon Smile

What is AmazonSmile?

AmazonSmile is a simple and automatic way for you to support your favorite charitable organization every time you shop, at no cost to you. When you shop at smile.amazon.com, you'll find the exact same low prices, vast selections and convenient shopping experience as Amazon.com, with the added bonus that Amazon will donate a portion of the purchase price to your favorite charitable organization. You can choose from nearly one million organizations to support.

How do I shop AmazonSmile to Support InfoAge?

To shop AmazonSmile simply go to <https://smile.amazon.com/ch/22-3607377> via the web browser on your computer or mobile device. You may also want to add a bookmark to smile.amazon.com to make it even easier to return and start your shopping at AmazonSmile.

Which products on AmazonSmile are eligible for charitable donations?

Tens of millions of products are eligible for donations. You will see eligible products marked "Eligible for AmazonSmile" on their product detail pages. Recurring Subscribe-and-Save purchases and subscription renewals are not currently eligible.

Can I use my existing Amazon.com account on AmazonSmile?

Yes, you use the same account on both. Your shopping cart, Wish List, wedding or baby registry, and other account settings are the same.

How do I select InfoAge as the charitable organization when shopping on AmazonSmile?

On your first visit to AmazonSmile you need to select InfoAge as the charitable organization to receive donations for eligible purchases before you begin shopping. Amazon will remember your selection, and then every eligible purchase you make at smile.amazon.com will result in a donation.

How much of my purchase does Amazon donate?

The AmazonSmile Foundation will donate 0.5% of the purchase price from your eligible purchases. The purchase price is the amount paid for the item minus any rebates and excluding shipping & handling, gift-wrapping fees, taxes or service charges. From time to time, we may offer limited time promotions that increase the donation amount on one or more products or services or provide for additional donations to your chosen organization.

Special terms and restrictions may apply. Please see the relevant promotion for complete details.

Can I receive a tax deduction for amounts donated from my purchases on AmazonSmile?

Donations are made by the AmazonSmile Foundation and are not tax deductible by you.

A Big THANK YOU to Martin Flynn for this wonderful reminder.

The Marconigraph is the Newsletter of the Information Age Science History Learning Center and Museum which is a 501 C (3) Non-Profit Corporation dedicated to preservation of Camp Evans. Membership is \$25 per year for an individual and \$45 per family.

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For more information about InfoAge and our Museums or to become a member or volunteer your time call 732-280-3000.



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The editor or InfoAge is not liable for any other use of the contents of this publication

Electronic Warfare – by John Waters

The Association of Old Crows is a national Electronic Warfare organization. I was a President of the Garden State Chapter. In World War II the British Electronic Warfare personnel were called the Ravens. Winston Churchill called Electronic Warfare the Wizards War.

When our bombers flew missions into Germany they dropped chaff during the mission. The only aircraft that dropped the chaff was far in front of the formation and the prime target for enemy fire. The length of each chaff strand was cut to the wavelength of the radar used by the anti-aircraft artillery operators. Pictured are different lengths of each chaff cartridges and a spool of the chaff. Explosive squibs are in front of the cartridges.



Association of Old Crows



Chaff Cartridges & Spool of Chaff

The picture below is Point du Hoc above the beach of Normandy. It was one of the most bombed areas during World War II. Hours before the D-Day invasion began, a company of Rangers climbed Point du Hoc. The Ranger standing on Point du Hoc with his rifle is Sergeant Lomell.



A historian called Lomell the person most responsible for the success of the D-Day invasion. Second only to Dwight Eisenhower. Lomell searched an inland area for the missing five large coastal artillery guns and disabled all five with thermite grenades.

Lomell lived in Toms River and had a law firm there. Bud was a friend of mine and accepted my invitation to speak at my Lake Ridge adult community. His meeting room is at the entrance in town hall. The room has many of his memorabilia on the walls. He also has many more in his home.



The Lomell Meeting room at the Toms River Township Town Hall



Point du Hoc Today

This is Point du Hoc now and it is a popular tourist attraction. You can walk through the underground fortifications. My son Jay and I visited this point and the D-Day beaches and cemeteries during a ten day visit. We stayed in Saint Mer Englaise where our paratroopers landed a day before D-Day. Now the town celebrates that event every June. When Jay was in an airborne brigade that was stationed in Italy, he organized a company of his soldiers to jump into town for a ceremony in which Jay was a speaker.

Bethlehem Steel a Key Industry for World War II Victory

By Dave Albertson of the Garden State Model Railroad Club

Bethlehem Steel was an integral part of building our country but did you know about its huge contribution to the war effort during World War II? It was a crucial element leading to the success of the United States during World War II. Bethlehem Steel was based in Bethlehem, PA. Prior to the start of World War II, there were 13,055 employed at Bethlehem Steel. This number jumped In 1943, to 31,523 people. During this great war the Bethlehem Plant worked three full eight (8) hour shifts, day seven (7) days a week.

Key products produced at the Bethlehem plant:

Ship armor used in Hulls (18" thick) and various gauge armor for gun turrets and other shipboard locations.

Armor Piercing Shell casings

Naval Guns (12",14" and 16")

Steel Ingots

Rough Turned Cylinder components

Electrical Power for the Lehigh Valley

War effort

Manufactured Coke for fueling steel and Iron production



Stacked Ship Armor (2)



Armor Piercing shell line (1)



Armor Piercing Shell War Bond War bond drive (1)



Turret and gun Assembly line (2)



Turning shop rough Gun Turning (1)



Final Bore alignment check after cutting 16" gun 1943 (2)

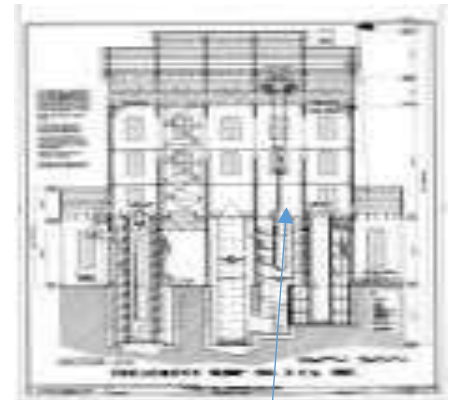
US Navy ship classes using Bethlehem Steel produced Naval Guns

- Iowa Class Battleships 16"/50 MK7 Main Battery
- Alaska Class CB-21 12"/50 Main Battery
- North Carolina Class BB-55 and South Dakota Class BB-57 16"/45 Mk6
- Wyoming Class B-32 12"/50 MK7
- Secondary Batteries for Nevada class Battleships, Primary batteries for Destroyers and early Aircraft carriers. The early Aircraft carrier guns were also used as coastal guns. Many other types were produced including (Wet Guns) MK 9 for Submarines, 5"/51 MK's 7, 8, 9, 14 and 15. Sold to Allies Great Britain and New Zealand.
- Main batteries for Minneapolis CA-36 and several other Cruisers used 8"/55 MK's 12 and 15
- All Guns were built in 4' to 15' sections then hot assembled after being heat treated.

After gun sections were heated and assembled they were moved to the High house and then quenched in a vertical cylinders below the high house. Quenching media was linseed oil.



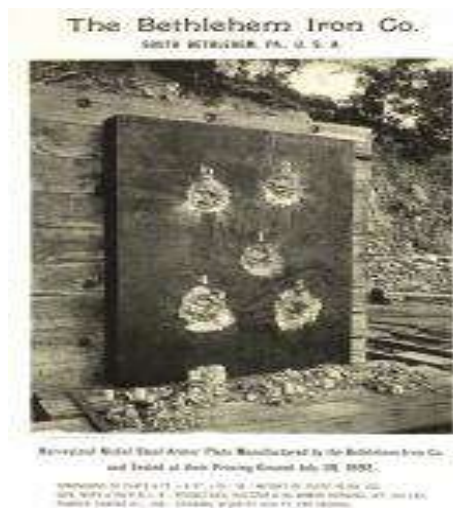
Covered Quench pit



Gun barrel being inserted into quench tank

Bethlehem Steel tested its production Armor plate, Guns and shells to evaluate performance, consistency and overall production Quality. Left Photo around WWI time frame, Right Photo 1892. Both Photos (4)





Bethlehem Steel and the Garden State Central Model Railroad Club:

In 1995 the club toured Bethlehem steel just before the Mill closed its doors. The tour was an Inspiration for adding Bethlehem Steel to our club layout. Many Buildings were built from scratch by Members Jules Heilczer and Mike Curry. The “Steel” was a key industry served by three railroads the Lehigh Valley, Central Railroad of New Jersey and Reading lines. Raw Materials were shipped in via rail and finished products and castings with shipped out. An example of these raw materials was Iron ore, a key component in making steel. Large quantities of this raw material were brought in from the western United States by the Pennsylvania Railroad to Mt. Carmel, Pa. At Mt. Carmel the Lehigh Valley Railroad transported the ore to Bethlehem, Pa. By the late 1970’s to the end of the Bethlehem Steel mill operation, the ore was moved from the docks in Philadelphia to Bethlehem via Conrail on the former Reading Saucon branch. One of our GSC club members (the late Mr. John Kaufman) was on active duty as a U.S. Navy Lieutenant during WWII. John was an Engineering Officer and supervised Ship Armor and Gun testing at Bethlehem Steel.

The GSC is making significant Progress on our recreation of Bethlehem Steel in miniature. This is thanks to members Jules Heilczer, Mike Curry, Rob Davis and future member Ben Davis. Here are a few Photos to attest to the Club’s dedication to preserve history in miniature.



Blast Furnaces



The “High line” with Charging Larry in the foreground



Hot metal cars ready at the Furnace

Unfortunately, today Bethlehem’s Furnaces no longer echo the Symphony of heavy Industry; however, some of the site has been preserved and is near The Sands Casino.

Credits

- 1- The Morning call Newspaper (Allentown Pa)
- 2- Ships Nostalgia <http://www.shipsnostalgia.com>
- 3- Library of Congress
- 4- Explore Pa history
<http://explorepahistory.com/displayimage.php?imgId=1-2-AD0>

InfoAge Happenings

Vintage Computer Festival East

VCF East is for everyone! Computer geeks, families/children, students, collectors, IT professionals, curious onlookers...

When: May 18-20, 2018

Friday: 9:00am – 6:00pm (classes and post-lunch keynote)

Saturday: 9:00am-6:00pm (morning keynote 9:00-10:30 followed by exhibit halls / consignment / vendors / museum open)

Sunday: 9:00am-5:00pm (morning keynote 9:00-10:30 followed by exhibit halls / consignment / vendors / museum open)

Where: InfoAge Science Center, 2201 Marconi Rd., Wall, NJ, 07719 ([Google map](#), [directions](#), [lodging](#))

Tickets: Online ticketing will open in Spring 2018. Tickets will also be available at the door. Tickets are \$20 for one day, \$35 for two days, or \$50 for three days.

Exhibits (and exhibit registration): **Hands-on exhibits** are presented Saturday and Sunday. You'll find demos of 1960s minicomputers, 1970s homebrew systems, 1980s eight-bitters, and a few oddities. Some exhibits contain pristine original machines, while others focus on unique modern hacks and everything in between. Exhibit sign-up is open!

Contact: Evan Koblentz — evan@vcfed.org / (646) 546-9999

InfoAge Wish List

2 Golf Carts
Gator Carry All
Power Auger
Pallet Jack
Forklift
Lawn Mowers – Push & Riding
Snow Blowers
Building Materials



Commissioning a full-color tile is a great way to say thank you to a veteran or family member. The hall of Honor is located in the central hallway of the historic WW2 H-building complex, on the Camp Evans National Historic Landmark, the InfoAge Hall of Honor is an excellent place to display your custom tile. You supply the photos and text, and we'll create your unique custom tile. Take it home, or allow us to display it in our Hall of Honor. The cost to commission a tile is \$250, and additional copies can be made for \$100 each. You will have the opportunity auto approve your tile's design.

Call 732-280-3000 today to reserve your tile.

ISEC Lecture Series - April 29th 2:00 – 3:30PM

Living with a Star, the Sun and Nasa Parker Solar Probe

\$10.00 donation – includes admission to all InfoAge museums.

Location: 2300 Marconi Road, Wall NJ 07719

Just a reminder of our Museum hours.

Wednesday, Saturday and Sunday – 1PM – 5PM

Admission is \$5.00 per person

Children under 12 - \$2.50



InfoAge

Science/History Center
at Camp Evans, Wall NJ

InfoAge Science History Learning Center and Museum

2201 Marconi Road • Wall • NJ • 07719

732-280-3000 • www.InfoAge.org

The Newsletter of InfoAge

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Save the Dates

Spaceflight Lecture Series

Last Sunday of Each Month

2300 Marconi Road

Wall, NJ 07719

VCF East

Friday – Sunday May 18th – 20th

9:00AM – 6:00PM (Sunday till 5:00PM)

2201 Marconi Road

Wall, NJ 07719

*For more information about these events, such as admission costs and times,
call 732-280-3000 or visit us online at www.infoage.org*

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New Jersey Historical Commission, a division of the State Department