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Volume II JAP Number de appression mesta

Fall Issue

AT LAST, WE HAVE BEGUN TO THE THE

The Haverford Township Historical Society is more than pleased in to anhounce that on August 20; at contracts were signed and work on Nitre Hall was officially started was Our Society and Haverford Township; which is the official owner of no t the building have given a totalded of \$8000; which is matched by an all \$8000 grant from the U.S. Department of the Interior under the \$500 Million Conservation and Recreation Program of July 1968. These funds are allocated through the states. In the Commonwelath of Pennsylvania, this is done by the Department of Community Affairs with historical projects, recommended and approved by the Pennsylvania Historical and Museum Commission. We know that Nitre Hall is to be a real contribution to our community. It is good to realize that the rest of the historically-minded people seem to feel the same way to version in

We will need additional funds for completing the restoration, so

tork deep a falw commonly two Falcon

store, we be used in the Pederol Bebook.

this gives us an additional goal.
Hopefully, some of the scraping,
painting, and other odd jobs will
be done by members and friends.
LEE NELSON LEAVING US

Our Vice-President, Lee H. Nelson is being transferred to Washington, D.C.. His work at Independence Hall is about finished, and since he is under the National Park Service, he must go where called. Since he is quiet and unassuming, as are many really important persons, we should like to blow his horn for him.

Born in Portland, Oregon, he received his Bachelor of Architecture from the University of Oregon in 1956 and his Masters from the University of Illinois two years later. In 1969, he became a registered architecht in Pennsylvania. His title of Restorationist and Architectural Historian in the National Park Services covers a multitude of activities. Officially, he was supervisor of Historic American Buildings Survey

Editor - Susanne Loder
Material gleaned from the files
of the Historical Society and
from Margaret Johnston.

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PLANSSFOR NITEF HALL OF 36 2012 and

The house has had no renovation and is in the original condition, which speaks well for the builders.

The first phase of the restoration will be the introduction of modern facilities and will include installation of central heat, plumbing, and electrical service.

Wires will be brought in underground and every effort will be made to maintain the integrity of the architecture. Any artifacts which may be hopefully - turned up will be noted.

The ground floor will be converted into an apartment for the caretakers. As there is no basement, this area was a kitchen, hall, and storeroom. The second floor will be used for a library and exhibits. One room is large enough to accomodate about thirty people for possible future meetings.

On the third floor, there will be an office and additional space for exhibits. The fourth floor will provide a work area and good storage facilities.

The architectural firm of

John D. Milner, A I A, Chadds Ford, Penna., is in charge of the work.

Robert L. DeSilets of Ardmore is directly supervising. Wexler and Kline are the contractors.

FIRST FURNITURE FOR NITRE HALL

on July 30, 1972, the Society received (a seift that will go into Nitre Hall as soon as possible. It is a painted wooden settee that originally abelonged to the Lawrence family and may have even been in the former Three-Generation House, from which we have the Lawrence Cabin Museum with The donors were Mr. and Mrs. M. Harlan Bye of 304 Barry Lane, Wallingford. The settee had been the property of Mr. and Mrs. Stanley Lawrence who owned a farmy on the Lawrence Road in Broomall auntil the 1930's.

The settee is a dark green, with black striping on the crest rail. Outer two sections of this rail have free-hand paintings of flowers in muted red, yellow, and blue. In the center section, there is a landscape with house, trees, water, and a sailboat. There are also to be spotted some brighter blue forget-me-nots and black-eyed Susans.

OTHER NEW ACQUISITIONS

Mr. and Mrs. Oliver Martin pressented our Society with a cast iron stove, to be used in the Federal School.

MAKING BLACK POWDER becomed some bone

n opsg

Since we are concerned with the home of the powder master, let us explore further the making of gunpowder.

This commodity was probably

first used in China about the lith

Century. Marco Polo found the

fireworks most impressive and it is

logical to assume that black

powder was used as an explosive at

some time in China. In the 1250's

it was used as a propellant to

shoot solid fragments from bamboo

tubes. However, the Arabs are

credited with the first gunfafters

they reinforced ambamboo tube with gunfafters

iron and shot an arrow forced by an

gases ignited by gunpowder.

The Western world credits a

Franciscan friar, Rogern Bacon, and with the discovery of how to mix and the black powder with an formula athat and he may have been inspired its find add after reading Arab writings conscious their explosive, materials. The also of their explosive, materials. The also of a statue to Berthold Schwarz, who is a someon say was the "father" of this is way explosive.

peacetime for breaking wore cing to the early 1600ks but the doctor cost was prohibitive (and agunpowder was) definitely a luxury, until war demanded its use. In 1642, the

Massachusetts Bay Colony began a tentative production of salt peter.

Other colonies began making this salt peter or nitre as a household industry, and this practice continued until 1774. Then, when Parliament prohibited export of powder to the colonies, privateering, raiding, and trading was the only way for the Americans to get the much needed explosive.

Ifinally; some salts peter twases of discovered inveaves of Nyirginia; and analytrantic researching to sulfur. The followed. To Pamphlets were sprinted with telling sectionists how store make make powder at home; has the first redex of the section.

By 1775, a few mills were started, but largely trade with France and the Netherlands give the colonists their supply.

At the close of the war, it

association sand out milistropes of
was natural that powder mills should

COS broad along war and continues to
be part of the new nation and

the part of the new nation and the part of the new nation and the part of the new nation and the new nation and the new nation and the new nation are not not not not not never nation.

In making the powder, proportions yary somewhat, but essentially it is 3/4 salt peter (potassium to intrate), 1/8 sulfur, 1/8 charcoal.

This latter was the only ingredient successfully made here as willow branches and other light woods made excellent charcoal.

Sulfur was found in quantity

(continued on page 4)

MAKING BLACK POWDER (a) (Cont.) Advantage and run through frinc rollers than in Sicily, and salt speternowas without of until the right sized grain was obbrought from India, abut the follow- 1949 | tained. Nothing was wasted as any ing Strecipe comes from the early size residue was returned to the first troubles days tof smaking alloof our tempat mixture. Then they Parkissent nwo JATTI (Liter

All ingredients were pulverized together in rotating barrels by the tumbling action of zinc balls. (Some of these balls were found by Dr. Eckfeldt and were given given to usanby Miss Esthers Thomas Com All was sifted atogether; or mixed with wood if water, ad and rany plumps swere removed one with absieves and alarolfer. Afficial mixture wiwas then put into comortars; [19] and pestless reboog more water added, applied for about eleven hours. This was done in the stamping mill, with a thirty-eight pound per le on a wooden mortar. Vig Tar Troud aroles

Rolling mills were also used, incorporating two large millstones or cast-iron wheels. About 300 pounds of mixture was put in, and grinding was done for one to three hours for every fifty pounds, depending on the type of powder desired. The Hagley Museum near Wilmington of the shows how such a mill operated.

This latter was the call largediera The rolling mill turned out a world on or all enour yllubaseeses mealy, moist powdercake. T This was heavily pressed until it both looked like and felt like slate. This presscake was broken into

<u>id squi na ibuwitayo</u>

. Tribublicary

It was still moist, so it was either dried by the sun, or on heating racks, where it was frequently turned. High quality powders further dried by being tumbled in a glazing barrell which rounded off the grains, and gave an added Sometimes a bit of graphite lustre. was included to coat the grains and make them resistant to dampness.

The final step was to rung them one throughdalgsiève conedimore time ito godi get ridydoforany wdust. na Itdawasca com then packed into canisters; or kegs some and stored in a magazine.

Keep, in minds the constant precautions: that had to be taken hat all diffe times. Workerschadtwooden apegscog Monfe rather than nailsee in their coshoesd cost of Buildings of the rolling mills had work very thick! walls: with a slight roof and east a thinner wall ofacing whe watery socon that an explosion would be directed size s away from the homes. Quite a business!

Average production during a year inxo was 200,000 pounds, but in the War of 1812, 800,000 pounds was turned out in sone yar year. @ Ini 1820, twenty men were a multiemployed in the mills of worth 1 \$25,000 dt (continued on page 15) ovidididora one

activitely a laxary, actil-

FORMAN SAMEAN

RESTORED OR PRESERVED?

JonAs interested laymen poit may be enlightening to decide sjust from what is being done to Nitre Hall.

From The Restoration Manual, by Orin M. Bullock, Jr., A.I.A., these facts have been extracted.

no muitous decid que redia When re-doing a historical dram casein o reducyce vocument ilding, three aspects must be building, One is restoration considered. which puts back as nearly as possible the form and furnishing a building had at a specified time. Things "not of the period" are removed.

"not of the period" are removed.

nod an Another consideration is preservation, which is keeping the structure in its present form and preventing further deterioration.

Then there is reconstruction, or re-creating a building from such an evidence as is available. Disembors.

add of dinaminional indiciples
Nitre Hall is considered to be in remarkably good condition. Perhaps we will do a bit of all was a three phases for our purposes.

OWNERS OF NITRE HALL THE ISE TO BE IN SECOND

Tarael Whelen built Nitre Hall about 1800, when he established his powder mills. The powdermaster was expected to live near their milleton share the danger with his workers. No powdermill was ever or built in a congested farea and it was see a near (water for power and willows for charcoal, dase to ever a compact

Israel came from a good family. His father was a fighting Quaker comissary general under Washington, The elder Whelan knew of the inadequate production of gunpowder in the new United States and it is possible that he urged his son to start this new venture. We are not positive that Israel and his family lived in Nitre Hall as he had a fine town house in Philafgor slaughtered delphia. However, Nitre Hall, outside of the Grange, was the finest home in this area, as far roll follows but a set with a set of the set as we know. reducted to stroom out

William Rogers (Rodgers), Jr. went into partnership with Israel and he did take his family to Nitre After Whelan's death in 1825, Hall. Rogers continued with the mill until his demise in 1840. rlerow equationing of a recipied with

Dennis Kelly then bought the property and converted it into a woolen and cotton mill. He did not live at the Hall. Potential and the

5 In March 1958 Powder Mill Park was deeded to the Township of Haverford for \$1.00 and the consideration to "hold in trust" this land for the enjoyment of the public in perpetuity. Mr. and Mrs. Olover Martin have lived in Nitre Hall and have done much to care for it; through their deep interest in the historical past of this house. 38 We are glad that their living section will be much improved.

THE SETHER OF HOUSE BECOME FOR

RECIPE FOR SALTPETER DESCRIPTION OF THE PROPERTY OF THE PROPER

In the early days, before the saltpeter or nitre was imported, there were some rare recipes that could be made at home. One such follows. I have assimily heated were said

of the and Degree of that all develop Saltpeter was made from stable dirt, soil of tobacco houses, chicken coops, dung-compost of garbage, weeds, human and animal waste, and trimmings from slaughtered animals. This faol-smelling mess was mixed with ashes, limestone,

The control of th plaster, and water and boiled for hours. Two pounds of saltpeter could be obtained from six bushels of stable dirt. The wording out draw

he did to be this from the little Once this mess was so laboriously prepared, there was more. The saltpeter was boiled in water and then put in earthenware vessels with sticks laid across "for the crystals to adhere to" as the nitre dried. A small amount of water was added to dissolve the crystals The crock was placed over fire, and stirred constantly "till the water exhales" and a dry white powder was left. him is

11 It was, judged to be sufficiently refined "if it melts without yielding any fetid odour when put between two hot iron plates; care must be taken that the Brimstone don't take fire in meltin." setts to seem festert is con-

moto This last job of refining was and probably done even with imports

FUTURE EVENTS

voAlthough nother dates of are anot settledgas yet, on we plan to have a .outspopular mid-winter selecture down series in January, February, and March, More information will be forthcoming.

After our first meeting on Assignment a paids or usily Thursday, November 9, please mark

Thursday, November 9, please mark

Thursday, November 9, please mark

Thursday, 8 and April 12 on

The standard of the stan Day in the Park.

The regular meetings will be borrows one "borrow en' borrow en' to jon" held in the Temple Lutheran Church at Brookline Boulevard and Earlington Road at 8 P.M. Please note the meetings are now on the second Thursday of the month. And anthovers

TO We welcome of Mr. Edward Berman as a new member of four Board of toward Directors. There will be two lob live additional appointments to the Board at a later time.

KEEN COMPETITION

From the Eleutherian Mills Historical Library in the Hagley Museum, a letter from the DuPonts to John Hancock (August 26, 1813) remarks that DuPont Powder which is acknowledged to be Superior by everybody" is compared to Nitre Hall powder-"Inferior of to ours." Howevery din et a trade agreement to sellio atothe B same price -- (October 13, 1817) --Nitre Hall powder "best after ours."

s on filty sw aged

LEE NELSON (continued) REGISTRIUGOA WAR

project at Fort McHenry National Monument and Historic Shrine at 1870 08 Baltimore Int. 1958-59 The following year he was Project Supervisor for restoration of Archer House and Dudley Digges House at Colonial National Historic Park, Yorktown, dating back to 1862, so carlyainty

applice, and a beat by Dr. Reve-From 1961-63, he was Project Supervisor for structural rehabilitation of Independence Hall and unningeryangenff breedelff Old City Hall in Philadelphia. He was also a team member responsible for architectural research and restoration of Independence Hall, dasing 1790. 1961-1972.

Privately, as collaborating consultant, he aided the Rockford Foundation in reconstruction work at "Rock Ford," home of General Edward Hand, Lancaster (1962-66); the Historical Society of Delaware in the Old Town Hall, Wilmington, (1964-68); Philadelphia Yearly Meeting of Friends in Architectural Study of the Arch Street Meeting House. Philadelphia (1967-68).

He has been American Editor for the Bulletin of the Association of Preservation Technology since 1969. He also published articles in the Journal of the Building Research Institute; Technical Leaflets for the American Association of State and Local History, Antiques

Magazine and other journals. 198 18 191

Two studies have ben published: A Century of Oregon Covered Bridges for the Oregon Historical Society, in 1960, and An Archetectural Study of Fort McHenry for the National Park Service in 1961.

He is a member of the Society and produce which the stronger models. of Architectural Historians; Norwegian-American Museum of Decorah, Iowa; and a founding member of the Canadian-American Association for Preservation Technology in 1968.

No know himi He has also served on the Board of Directors of the Haverford Township Historical Society until 1968; elected second vice-president in 1968-71; first vice-president from 1971-72. He has served as a source of advice and assistance, is chief shingle-repairer for the Lawrence Cabin, and undertook, with his son, Allan, the realignment of the steps leading up to the cabin, plus pouring of bugkiller over the cabin floor. After reading his list of accomplishments, it seems almost horrifying that he performed such services as this last item, but he knew what should be done and how to do it. A successful architect has to deal with problems like this, plus financial affairs and petty problems such never (cont d Page 8)

LEE NELSON (continued) we have protespett

realize. Even hurricanes get into the acti One of the last jobs at Independence Hall was to get the proper stone for the clock case. After it was located in Virginia, Agnes flooded the quarry and a new site had to be found. Mrs. Nelson reports that the stone has finally been delivered.

Such a man is Lee Nelson. We will miss him but we shall watch with interest to see what comes next. And we can feel more than proud to say, We know him!

Received Burneyers of the Revenience

NEW ACQUISITIONS (four theca) LOUISON WE

Mrs. William Bennett gave several items of Quaker clothing, which arrived just in time to be displayed with other fashions at our Heritage Day Tour last May.

Four books, including two on the History of Delaware County, dating back to 1862, an early speller, and a book by Dr. Eckfeldt on "Cobbs Creek in the Days of the Old Powder Mill" were given by Richard Rosengarten. He also included 92 newspapers over four years of the Civil War, and a collection of Almanacks, the oldest dating 1790.

aarbirono⊷euro foar e bassair (886¢) 手性(表) (1951年) 1951年 - 1951年 -THE BOYCE TO SEE OF 一型军人主要职员 经经定金 物化过去 精液磷化 流動 人名巴瓦尔 for governing a gr off for realists thereby to detect the a contrabne to the contrability of the state Southern out of the one with district nd gar north out thought the same egad to galawaa acta ysider ogt remain artes on comment assistant Africa Section of the Section of the American - Pivoli impale - were di joursedatiq Aras bostos . . i statu . tat er transcription of the property of the property with the Spring for 18 Storage goods were f Propertion Rolling Community and Community 化邻氯 人名英格兰 医克雷斯氏线

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