



- Oak Ridge had the 9th largest bus system in the nation, 120,000 passengers per day on 800 busses during WWII.
- Oak Ridge workers needed bicycles to travel in one of the world's largest buildings, the K-25 Building (44 acres under one roof).
- The Manhattan Project "borrowed" 14,700 tons of silver from the US Treasury for key electrical components at Y-12.

In this issue:

Security Badges for Kids	2
Manhattan Project National Park Update	3
Manhattan Project Grandmother	3
Author's Corner: Denise Kiernan	4
Children's Museum Birthday	4
AMSE WWII Photo Exhibit	5
Guest House Update	6
ORHPA Website Update	6
This Month in MP History	9
Heritage Crossword	9

Think: RG-326 for Manhattan Project and AEC Heritage

By Joel Walker

ORHPA members know about code names like K-25, Y-12 and X-10 so here is a new code to learn: RG 326. Unlike Oak Ridge code names, this name actually has a meaning. RG 326 is Record Group 326 which is National Archives code for the records of the Atomic Energy Commission.

The National Archives and Records Administration holds 8,079.658 cubic feet of these records in seven different facilities across the country but over half (4,497.467 cubic feet) are a three and half hour drive from Oak Ridge in our facility in Morrow Georgia. Since we have these great records, we have been asked to contribute on a regular basis to this newsletter. The title of our articles will be, simply, RG 326.

Over the past few years we have built a

special relationship with Oak Ridge and want to continue to do so.

This past September we hosted the Secret City Symposium and featured Oak Ridgers

(Continued on page 5)

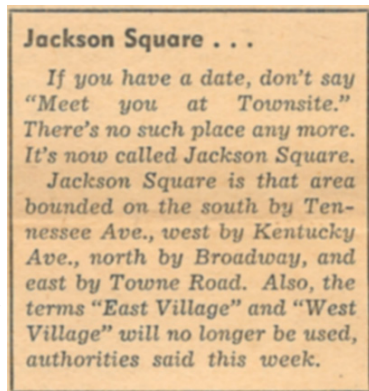


City Historian Bill Wilcox Receiving Citizen Archivist Award. From L-R, Archives Director Rob Richards, Bill Wilcox, and Joel Walker. (photo by R. Smith)

Which is it: Townsite or Jackson Square?

By William J. Wilcox, Jr.

Oak Ridge's original town center was built by the Army's first Architect/Engineer, Stone & Webster, in the summer of 1943. It had a high priority along with housing



Townsite Renamed. (February 22, 1945 Oak Ridge Journal, D. Miller Collection)

because people would have to have some place to shop and to play as well as live. It was given the name "Townsite" in that first summer and was called that all through the city's next very busy year of 1944 up until February 1945.

In fact all the names in this new area were carefully chosen to minimize speculations about how much effort the U.S.A. was putting into this project to beat Germany to the bomb. They knew there were going to be thousands of people here writing letters home and needed addresses for their replies. Hence the choice of the rural sounding name "Oak Ridge." The Men's and Woman's dorms were simply given

(Continued on page 8)

Oak Ridge Heritage and Preservation Association

102 Robertsville Rd.
Oak Ridge, TN 37830

President

Donna Bennett

Vice President

Mick Wiest

Secretary

Wendy Bishop

Treasurer

Amy Seiber

2012 Board of Directors

Margaret Allard

Donna Bennett

Wendy Bishop

Ellen Boatner

David Bradshaw

Mike Bradshaw

Don Forester

Tim Gawne

Rick Lusk

Bobbie Martin

Amy Seiber

Ray Smith

Betty Stokes

Tara Voit

Mick Wiest

Contact:

President@OakRidgeHeritage.com

Photo ID Security Badges for Everyone Over Age 12!

New Identification Badges To Be Issued

On March 22, 1944, the new Identification Bureau at Town Hall was placed in operation. This bureau will issue photographic identification badges to Townsite Residents not employed on the areas as well as to employees of the various local merchandising facilities and other selected groups.

Photographic badges will be issued without charge and may be obtained within a few minutes since the latest type of instantaneous photographic equipment has been installed.

The photo -badges issued to Townsite Residents will replace the present Resident Passes, all of which will be revoked as of April 30, 1944. After that date all persons within the Area will be required to wear identification badges or temporary identification tags issued by authority of the District Engineer. This will apply likewise to visitors who will be issued Visitor Badges at

the time they enter the main gates of the project.

Townsite Badges will be honored at all gates, thus permitting residents to enter or leave the Area by the route most convenient to them. This comes as welcome news since the Resident Passes restricted travel to the Elza and Oliver Springs gates.

The new Townsite Identification Bureau will be open from 8:00 a. m. until 5:00 p. m. each day. In order to avoid congestion at the Bureau, however, it is required that for the convenience of all, the following schedule be adhered to.

Date	Family Name Initial
April 1, 2, 3, 4.....	A & B
" 5, 6, 7.....	C & D
" 8, 9, 10.....	E, F & G
" 11, 12, 13.....	H, I & J
" 14, 15, 16.....	K & L
" 17, 18, 19.....	Mc, M, N & O
" 20, 21.....	P, Q & R
" 22, 23, 24.....	S & T
" 25, 26.....	U & V
" 27, 28, 29.....	W, X, Y & Z

Children under 12 years of age will not be required to wear badges. They will be admitted to the Area when accompanied by a properly identified adult. However, should such child be required to travel to and from the Area alone for any reason, identification badges will be issued to them upon request by their parents or guardians.



March 30, 1944 Oak Ridge Journal Notice (D. Miller Collection)

Even Kids were Badged in Oak Ridge. (Photo by Ed Westcott; From the Emily Hunnicutt Collection)

Date	Future ORHPA Programs	Speaker	Meeting Location
Feb 14, 2013	Meeting Cancelled—Happy Valentine's Day!	—	—
Mar 19, 2013*	The Girls of the Atomic City: The Untold Story of the Women Who Helped Win World War II	Author—Denise Kiernan	American Museum of Science and Energy
April 11, 2013*	Field Trip to the Children's Museum of Oak Ridge	Carol Welch	Children's Museum

*Note that the March meeting will be held on a Tuesday—at AMSE. The April meeting will be held at the Children's Museum. Please send suggestions to Programs@OakRidgeHeritage.com, Donna Bennett, Chair, Programs Committee.

Prognosis for Manhattan Project Park Legislation

By Cynthia C. Kelly

This year, the youngest veterans of the Manhattan Project are celebrating ninetieth birthdays. Now is the time for Congress to enact the Manhattan Project National Historical Park. What happened in the last Congress and what can we expect from this one?

All bills such as the Manhattan Project National Historical Park Act that are not enacted by the end of a Congress are officially "dead." This fate is shared by more than 90 percent of all legislation. To be considered in the next Congress, the sponsors of a bill must introduce it again.

The Manhattan Project legislation will probably be revived early in the first session. In the last Congress, staff spent nearly 18 months drafting the bills before they were introduced in June 2012. This time the committee staff can move much more quickly. Ideally, the differences can be ironed out before the bills are reintroduced.

Last Congress, the House and Senate subcommittees held back-to-back hearings on June 27 and 28, 2012. Both subcommittees approved and sent the bills to their respective committees for action. The



Both Tennessee Senators Support a Manhattan Project National Park. Atomic Heritage Foundation President Cindy Kelly with Tennessee Senators Lamar Alexander and Bob Corker (photo by U.S. Senate Photo Studio)

House Natural Resources Committee passed the bill by unanimous consent on July 11, 2012.

On September 9, 2012, the House failed to get the two-thirds needed to pass the bill on a motion to

(Continued on page 7)

A Manhattan Project Grandmother

By Candi Crawford

Editor's note: This is the first of what we hope will be many newsletter articles on lives of those living in the Secret City of Oak Ridge during World War II. Please let us know if you would like to contribute your own story.



Mrs. Jessie Smales Trulious came to Oak Ridge in 1945. Jessie was one of the very few grand-parents in town. Most of the people recruited to the secret site were young adults.

Her daughter, Evelyn Wilson Morehead, had a new job at X-10. Evelyn's husband was away in the Army so Jessie babysat her two young grandsons.

the children to provide them with a "Grandmother experience".

She planted a large flower garden and early Oak Ridgers would often stop by to get flowers for their dinner parties from Jessie. She was also a great cook and would fix food for her daughter to take to work. She would often invite people who were far away from their families to come over for a home-cooked meal.



Mrs. Jessie Trulious in 1966. (photo from Candi Crawford)

Jessie raised many of her own vegetables in her backyard garden. She also worked in the First Methodist Church's Nursery when they worshipped at the Ridge Theater. She was a member there until her death in 1971.

The Secret City school that the boys attended, Elm Grove, would often ask her to come by and read to

Candi Crawford is Mrs. Trulious' granddaughter. Candi is a 1971-graduate of Oak Ridge High School and an ORHPA member. She still owns the house her grandmother lived in on E. Fernhill Rd.

Author's Corner – This Month Featuring Denise Kiernan

Thank you, ORHPA, for inviting me to drop by your Author's Corner!



I have been writing, in some form or another, since I was a kid (and have been writing professionally for much longer than I'd care to admit). I started out in journalism in New York City, and have written for *The New*

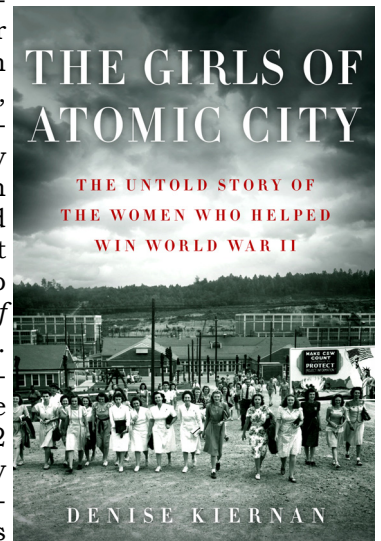
York Times, *The Wall Street Journal*, *Ms.*, *The Village Voice*, and others. I have worked in film and television and was head writer for ABC's "Who Wants to be Millionaire." I currently write from my home in Asheville, North Carolina, alongside my husband, Joe.

My latest work, *The Girls of Atomic City*, is a narrative non-fiction book focusing on Oak Ridge during World War II, seen primarily through the eyes of women who lived there. I was instantly captivated by this great American story. The book hits stores March 5, but mark your calendars for March 19, when I will be celebrating the book's release at the American Museum of Science and Energy in Oak Ridge. More details about this and other events are coming soon. I look forward to meeting new people and seeing those of you I've come to know over the years.

To learn more about my other books or join my mailing list, visit: www.denisekiernan.com. To learn more about or pre-order a copy of *The Girls of Atomic City*, visit www.girlsofatomiccity.com. You can follow me on Twitter (@DeniseKiernan), where I post about whatever catches my interest: history, food, writing and, of course, the Manhattan Project.

Behind the Letters

Over the years, whether I am writing about the men who signed the Declaration of Independence or the women who worked on the Manhattan Project, one thing has always remained the same: every book or story starts with something that grabs hold of my curiosity and won't let go until I wrestle it to the ground. *The Girls of Atomic City* is no different. I came across an Ed Westcott photo depicting the cubicle operators of Y-12 and I was hooked. As my research continued, different topics and anecdotes



(Continued on page 8)

Children's Museum Celebrates 40th Birthday



Margaret Allard with Manhattan Project Workers (L to R): Bill Tewes, Gordon Lindner, Ed Westcott, and Jim Cole. Mr. Tewes, Lindner, and Cole are all Veterans of the Special Engineer Detachment (SED) (photo from Children's Museum Collection)

By Margaret Allard

The Children's Museum of Oak Ridge will celebrate its fortieth birthday on March eleventh of this year.

In 1973 Senior Girl Scout Troop 69 founded the Children's Museum of Oak Ridge with a \$500 grant from the Reader's Digest Foundation.

The new Girl Scout exhibit at CMOR gives the history of the very accomplished Troop 69 as well as the history of how Girl Scouts got started in wartime Oak Ridge despite strict security regulations.

The Children's Museum is the former Manhattan Project Highland View Elementary School, a 52,000 square foot building. The original school had 23 classrooms, 2 Kindergarten rooms, an art room, music room, gymnasium, cafeteria, and library. The

(Continued on page 7)

New AMSE Photo Exhibit

By Ken Mayes

On Feb 1, 2013, the American Museum of Science and Energy will open *Japan 1945: Images of U. S. Marine Photographer Joe O'Donnell*. The exhibit contains 21 photographs from the personal collection of the 23-year-old Marine Corps photographer under orders to document the aftermath of U.S. bombing raids in Japanese cities, including Hiroshima and Nagasaki. Photos that O'Donnell had packed away, in an effort to put the devastation and suffering that he witnessed behind him.

Bringing this exhibit to AMSE was one of the hardest decisions I've made as Deputy Director.

I understand how an exhibit with this content could be unpopular in a town that "built the bomb." It's too easy for us as Oak Ridgers, as East Tennesseans, as Americans, to revel in the fact that the things we did back home, particularly in Oak Ridge, Hanford, & Los Alamos, brought an end to World War II without ever facing the reality of the devastation that took place. These photos show why for years we hid under the fear of someone "pressing the button."

Late in life, O'Donnell laid claim to photos that he had not taken and upon his death was criticized for

National Archives

(Continued from page 1)

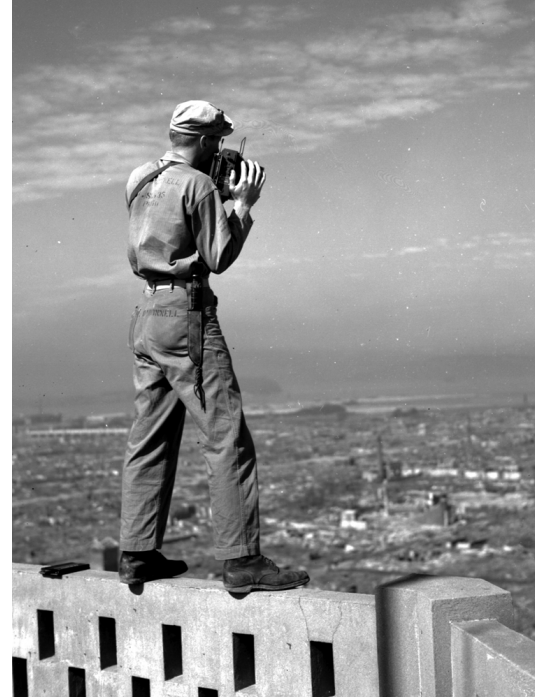
Ray Smith and Jim Campbell. We also honored J.T. Stephens and Bill Wilcox with Citizen Archivist Awards for their help in records preservation or in understanding the complexity of these records.

J.T. Stephens we honored posthumously. He was one of the early clerks of the Manhattan Engineer District era and later responsible for sending many of the records we now have to our facility.

Most of you know Bill Wilcox and his legacy but here at the National Archives at Atlanta we have only known Bill since 2010. In that short time, he did something for our holdings that historians and archivists can really appreciate: he made them come *alive*. Bill helped us realize that by having a special relationship with Oak Ridge, our records will continue to come alive.

it. His family blamed the misunderstanding on what they believe to be dementia. Although O'Donnell may not have taken some of the photographs he claimed he did, he was probably present and taking pictures at the time.

The exhibition marginally addresses this by showcasing some of O'Donnell's work with the U.S. Department of State, where he served under several Presidents, and displaying gifts he was given during that time. Among the artifacts on display are gifts from Presidents and foreign dignitaries, including a leather vase from an Iranian Shah believed to date back to 1000 BCE.



Japan 1945: Images of U.S. Marine Photographer Joe O'Donnell was organized by the Tennessee State Museum and includes photos and artifacts from the family of the late Joe O'Donnell. The exhibit will be on display at AMSE through July 28, 2013.

Ken Mayes is the Deputy Director of the American Museum of Science and Energy. He also serves on the board of directors for the Tennessee Association of Museums. He says that at one point, he answered an ad for a museum educator and got hooked on the museum industry. He is married and has three children.

We hope that our future articles will help our records come alive for you as well.

Joel Walker is the Education Specialist at the National Archives at Atlanta. Previously, he was the Education Director at the South Carolina Department of Archives and History and an Education Coordinator for the Kansas State Historical Society. He has served as National History Day state coordinator for both Kansas and South Carolina and is the author of *the South Carolina Adventure* (a 3rd grade state history textbook). Joel became interested in the story of Oak Ridge once he delved into the Atomic Energy records and decided that more people needed to come to Atlanta and uncover the fascinating stories in these great records.

For more information, contact either Shane Bell, RG 326 archivist, (shane.bell@nara.gov) or Joel Walker at joel.walker@nara.gov

Reflections on Guest House Preservation

By Ethiel Garlington

In November 2008 I moved back to Knoxville to start my new job as the Director of Preservation Field Services for Knox Heritage. After spending twelve years away from my hometown I was eager to get back to East Tennessee to assist with preservation advocacy that had made such an impact on Downtown Knoxville.



Guest House During WWII. (Photo by Ed Westcott)

If memory serves me correct, my first call at work was from Mick Wiest about the Guest House (Alexander Inn) in Oak Ridge. Needless to say I was eager to see the hotel and jump right in to the job. A tour was set up with D. Ray Smith, Mick Wiest, Howard Harvey, Kim Trent, and Jon Jefferson. Jon and Dr. Bass had just finished their latest book, *Bones of Betrayal*, which includes the Alexander Inn.

Fast forward three years of very little progress and I was starting to understand that preservation work takes lots of patience and takes time. In November 2011 we had a breakthrough with DOE's mitigation process for the East Tennessee Technology Park where K-25 was being demolished. Thanks to the

work of MANY, DOE included a \$500,000 grant for the East Tennessee Preservation Alliance (ETPA) to purchase and partially stabilize the iconic building.

Then the real breakthrough happened when we started working with Rick Dover, General Manager of Family Pride Corporation. Rick has a long track record for successful preservation projects and had actually looked at the Alexander Inn years ago. The stars began to align and the project gained momentum in late 2012 with the help of the Oak Ridge Industrial Development Board, the Mayor and City Council, and DOE.

As I write this article we are so close to finalizing the documents and transferring the property to Family Pride. Once the closing takes place, Rick plans to set to work on the building. All construction work will follow the Secretary of Interior's Standards for Rehabilitation to insure the historic character is maintained. Additionally, East Tennessee Preservation Alliance and Knox Heritage will hold an easement on the property to insure the building is preserved forever.

I continue to learn from the Guest House experience, but so far the most important lessons have been "patience is a virtue" and "it takes *everyone* working together."

Ethiel Garlington is the Director of Preservation Field Services for Knox Heritage. He earned an undergraduate degree in history at Presbyterian College and a Master's of Historic Preservation at the University of Georgia. He and his wife, Michelle are avid small, old house fans because they're easier to maintain and just big enough for their two hound dogs.

ORHPA Website Update

By Rick Lusk

The conceptual scope, content layout, and navigation schema for the new ORHPA website, "OakRidgeHeritage.com", has been completed and is awaiting ORHPA Board approval for final design and build, subsequent to a special board meeting scheduled in February.

Plans for the website homepage include a monthly refresh of new content. This content will include a calendar of events, an announcement of and invitation to ORHPA's monthly program, and a featured historical article about Oak Ridge. The website plans include pages containing completed and ongoing ORHPA projects, archived articles of historical sig-

nificance, photo galleries, and sections relevant to communicating the ORHPA mission and function to ORHPA members and to the world at large.

The website promises to be a significant communications tool for the organization and ultimately a significant historical source showcasing the city's role in the Manhattan project and the need to protect that great legacy.

Rick Lusk is the Group Leader for the Data System Science and Engineering Group at the Oak Ridge National Laboratory. He is a member of the ORHPA Board and Chair of the Website committee. He is a former Marine Corps Intelligence officer and interested in Oak Ridge heritage, World War II history (particularly the Battle of Britain), and marketing.

National Park

(Continued from page 3)

suspend the rules. Leading the opposition was Representative Dennis Kucinich (D-OH) who strongly attacked the park claiming it would “celebrate” the atomic bomb and cost too much (\$21 million over five years). The bill did receive a majority (55 percent) voting in favor which is sufficient to pass under normal procedures.

With the setback in the House, Congress essentially ran out of time to take the legislation forward. For the last thirty years, the Senate has packaged a number of park bills together rather than consider them one-by-one. But no omnibus public lands package emerged from the Senate last Congress. Only one new park was enacted and that was essentially was a name change as the Pinnacles National Monument became the Pinnacles National Park.

What can we expect from the 113th Congress? Once again, we are guardedly optimistic. Representative Doc Hastings (R-WA) returns as Chair of the House

Children's Museum

(Continued from page 4)

museum still uses 4 of the original 23 classrooms as classrooms.

The museum is “hands-on” but also displays many items from its collections, making it fun, interesting for the whole family, and a wonderful learning experience. The Museum showcases local history, natural history, the arts, and international cultures.

The museum includes log cabins, model trains, a child-size dollhouse, a walk-through rainforest, and many more family friendly exhibits. It also includes exhibits on the photography of Ed Westcott, Oak Ridge's historic Manhattan Project, and the history of Oak Ridge from WWII to the Incorporation of the City in 1959. The new “Kids Go Green” environmental learning garden behind the CMOR building is a fun and educational area for classes, camps, and pre-arranged tours..

The Children's Museum of Oak Ridge is located at 461 W. Outer Drive. For further information, you can contact the museum at (865) 482-1074 or at www.childrensmuseumofOakRidge.org .

Margaret Allard has a B.S. in Geology and an M.S. in Mineralogy. She has been a volunteer designing and building exhibits at the Children's Museum since 1989. Margaret has been an ORHPA Board member since 2007. She chaired the 60th Anniversary of the Opening of the Gates

Natural Resources Committee. Hastings is a vigorous champion and vowed to enact the legislation this Congress.

Senator Ron Wyden (D-OR) takes over from Senator Jeff Bingaman (D-NM) as Chair of the Energy and Natural Resources Committee and has indicated his support for the legislation. The Manhattan Project delegation will be well represented committee with Lamar Alexander (R-TN), Maria Cantwell (D-WA) and Martin Heinrich (D-NM). All three have been very supportive of the Manhattan Project National Historical Park.

With their leadership and the continued support of the Departments of Interior and Energy, the Manhattan Project communities and many others around the country, the prognosis is very good that the 113th Congress will enact the Manhattan Project National Historical Park.

Cynthia C. Kelly is the founder and President of the Atomic Heritage Foundation. Before creating the Foundation, she served over twenty years as a senior executive with the DOE and EPA, receiving the Distinguished Career Service Award for her time at both agencies. She graduated with a bachelor degree in history from Wellesley College and a master's degree from Yale University.

event in 2009 and the 65th Anniversary of VJ-Day in 2010.



(Photo by F. Smith)

ORHPA Board for 2013

The Oak Ridge Heritage and Preservation Association membership elected new officers and Board members at its December 2012 meeting. The 2013 Board members are (L to R): Don Forester, Ray Smith, Tara Voit, Amy Seiber (Treasurer), Margaret Allard, Donna Bennett (President), Betty Stokes, Wendy Bishop (Secretary), Mick Wiest (Vice President), Bobbie Martin, David Bradshaw, Mike Bradshaw, and Rick Lusk. Not shown: Ellen Boatner and Tim Gawne.

Author's Corner

(Continued from page 4)

presented themselves, each more fascinating than the one before. Along the way, two little letters began to pique my curiosity: H. K.

There are countless numbers, codes and acronyms associated with the Manhattan Project, but those two initials taunted me every time I came across them. I remember, years ago now, Oak Ridge resident and Special Engineer Detachment veteran Bill Tewes talking to me about Mrs. H. K. Ferguson. In June of 1944, the H.K. Ferguson company out of Cleveland took on the responsibility of building the S-50 plant, which used a process known as thermal diffusion to separate isotopes of uranium. The company succeeded, quite remarkably, in completing the facility in less than three months. It was "Mrs. H. K.," widow of the company's founder, who met with General Groves. Indeed, Groves mentions her in his

book, *Now It Can Be Told: The Story of the Manhattan Project*. "Mrs. H. K." is also mentioned in *Manhattan Project: The Untold Story of the Making of the Atomic Bomb*, by Stephane Groueff, and elsewhere. Each reference was the same: "Mrs. H. K." I began to wonder: did this woman, important enough to merit mentions in so many publications, have a first name?

So began the digging—obituaries, old newspaper articles—the false starts, the dead ends. I knew from the beginning that other stories and other women would take up much more real estate than Mrs. H. K. Ferguson in the final book, but at the very least, I thought she deserved a first name.

If you are wondering if I ever learned what that name was, the answer is yes, I did—but I'm not telling. If you want to know, you can read all about it in the pages of *The Girls of Atomic City*.

Re-Naming Townsite

(Continued from page 1)

numbers like M-1, 2, etc and the Women's also started at 1.

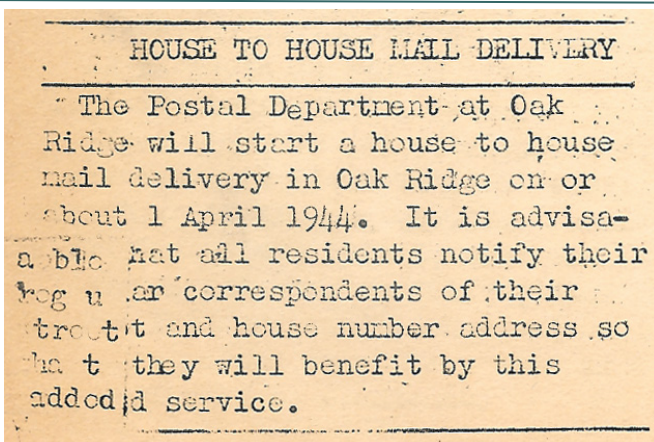
The security guys stayed happy with this arrangement until late fall of 1944 when the population of the town had more than doubled and every week new dorms were being added. Their designation numbers heading toward the 70s, each housing 150 gals or guys.

Anyone could tell the "Town" was growing by leaps and bounds. The answer they came up with was pretty cool.



Jackson Square. (Photo by Ed Westcott)

On Mr. Washington's birthday, February 22, 1945, Roane Anderson sent all residents of the then 84 dorms a memo informing us that the Dorm names numbers would henceforth be replaced by names of U. S. cities. For example my dorm, M-6 became Cambridge Hall, and the dorm I paid most attention



From The Oak Ridge Journal (D. Miller Collection)

to, W-1, was now Batavia Hall. The new sign boards went up in a hurry.

At almost the same time the Army announced that the "Townsite" would now officially be called "Jackson Square." So it was officially "Townsite" for 1.5 WWII years and "Jackson Square" for the last 68 years.

I've never seen the reasons for that choice, but it would be my bet that in looking for a new name for the Townsite, and having just come up with about nearly 90 city names for dorms, they looked for cities that had "Squares," liking best a well known square with hotels and a fine church, namely New Orleans's Jackson Square.

The name has served that area of our "town" well ever since.

William J. Wilcox, Jr came to Oak Ridge in 1943 as a young Manhattan Project chemist. He ultimately became one of the leading technical experts on the Oak Ridge uranium enriching plants. Mr. Wilcox was the Technical Director of the Y-12 and K-25 Plants between 1969 and 1981 and is currently the Oak Ridge City Historian.

This Month in Manhattan Project History

- **Jan 1933**—Hitler appointed Chancellor of Germany
- **Jan 1934**—Artificial radioactivity discovered (earning the 1935 Nobel Prize in Chemistry)
- **Jan 1936**—Bohr compound nucleus model of the atom proposed
- **Jan 1939**—Wash. Conf. on Theoretical Physics electrified by announcement that uranium atoms could be split by neutrons
- **Jan 1941**—German A-Bomb program steered in wrong direction by Walther Bothe
- **Jan 1942**—Watts Bar Dam completed
- **Jan 1942**—President Roosevelt agrees to massive acceleration of A-Bomb program
- **Jan 1942**—Compton selects Chicago as site of the important Met Lab
- **Jan 1942**—American WWII price controls begin
- **Jan 1943**—Univ. of California selected to operate Los Alamos
- **Jan 1943**—Abelson and Gunn report that liquid thermal diffusion can feasibly enrich uranium
- **Jan 1944**—General Groves sets goal of January 1945 to begin K-25 operations
- **Jan 1944**—Planning begins for A-Bomb test
- **Jan 1945**—Battle of the Bulge ends
- **Jan 1945**—Daring “Dragon” experiment at Los Alamos

From: *55 Years that Changed History, A Manhattan Project Timeline, 1894 to 1949*, M. McBride, 2010



Across

- The first museum solely dedicated to Atomic Energy opened in Oak Ridge in March 1949
- Successor to The Museum of Atomic Energy
- ____ be, or not ____ be
- Blood pumping organ
- Unit of land measure
- General Lee's home state
- Galileo, Newton, and Einstein all worked in this area
- Area in East Tennessee built to house workers at WWII's top secret Manhattan Project
- Goddess of the moon
- Largest spring fed swimming facility in the south
- Charged atom
- Old's opposite
- Male parent
- 12th letter of the Greek alphabet
- WWII navy patrol boat
- Director of the AEC's Office of Community Affairs (the nearest equivalent of the mayor of the city) at the time of the 1949 gate opening
- To give off a particle
- Popular form of big-city public transportation
- Past tense of hide
- To wager
- PhD's formal title
- Either/____, neither/nor
- A single-winged aircraft is called a ____ plane
- Dead-end street
- Little Boy and Fat Man are examples of an ____
- The official ceremony that allowed the public access to the Secret City in 1949
- Date the Secret City gates were opened
- Southwestern Native-American tribe
- Length of opening gate celebration
- Number of the years since your birth is your ____
- Seaborgium's symbol
- Cerium's symbol

71. An abundance of

73. Year of the Pearl Harbor attack

74. Main access point into the Secret City and the site of the official 1949 gate opening ceremony

75. Animal's foot

76. The Manhattan Project's Special Engineer Detachment

Down

- Magnesium's symbol; this material was used to create the "atomic flash" during the 1949 gate-opening ceremony
- Silicon's symbol
- Home of the Lady Vol's
- One-twelfth of a year
- Thorium's symbol
- Poetic spelling of "over"
- Pa's partner
- Entering uninvited
- The home state of the first atomic submarine, The Nautilus
- "Golly ____!"
- WWII fighter pilot with at least five victories
- Mister
- One-Sixtieth of a minute
- Household electrical current
- A gardens blooming plants
- To ____ or not to ____
- Distinguished guest
- To break into tiny droplets or particles
- Restrict
- Sodium's symbol
- Antimony's symbol
- The basic unit of money in Ghana
- "Ask what not your country can do for ____"
- The contractor that operated the Secret City's bus system
- Germanium's symbol
- A Native-American pole or post with carved and painted figures
- Referring to the atom
- Scientific unit of measure for sound loudness
- Dubnium's symbol
- Iron's symbol
- The Federal Agency in charge of the environment
- Long, long time ____

45. Man's best friend

49. Rubidium's symbol

50. A Midwestern state in the Great Lakes region

51. A sergeant's boss

53. A small hunting dog

55. Home county of Tennessee Tech

56. Morning time

57. Julius ____, the Roman Emperor who was assassinated in 44 BC

58. A defined religious ceremony

59. National Association for the Advancement of Colored People

60. Einsteinium's symbol

61. Topographic drawings

62. The vibrating element in a woodwind instrument

63. Hubert H. Humphrey

64. The armistice treaty with Germany was signed in a railway carriage on November 11, ____, which marked the end of the First World War

65. A hybrid which combines a grapefruit and a tangerine

67. 52 weeks

69. Selenium's symbol

72. Osmium's symbol

The Secret City Journal

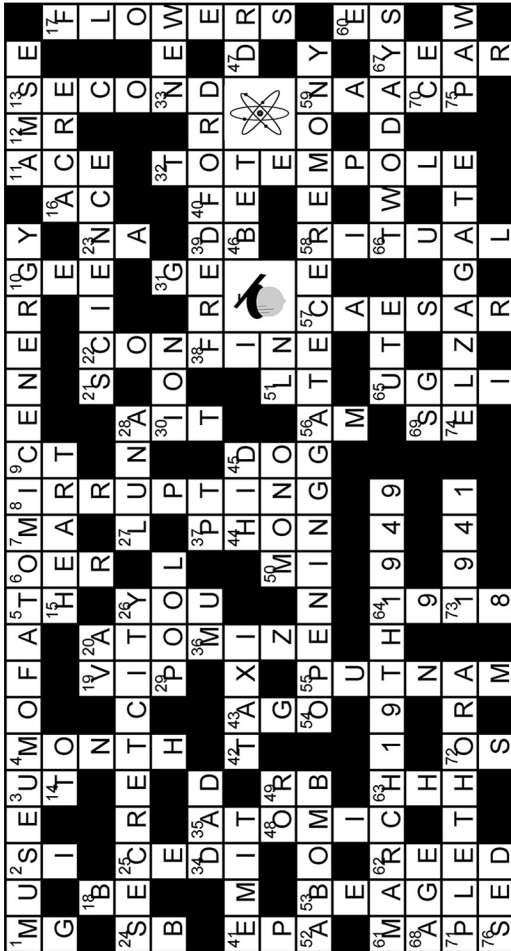
A publication of the Oak Ridge Heritage and Preservation Association, Oak Ridge, Tennessee

Martin McBride — Editor
Martin@OakRidgeHeritage.com

Dave Miller — Associate Editor
Dave@OakRidgeHeritage.com

ORHPA Newsletter Committee —
A. McBride, L. Stokes, B. Stokes,
D. Miller, M. McBride

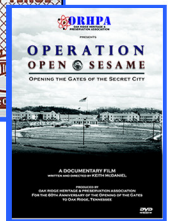
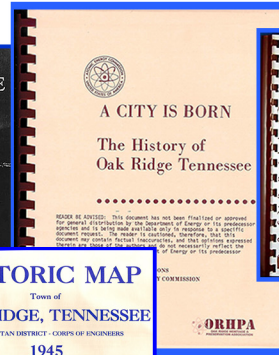
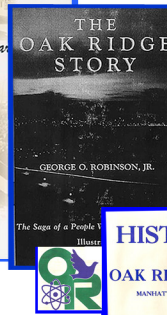
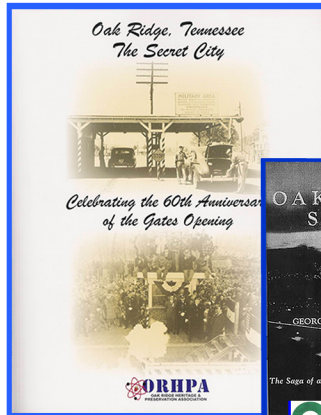
Telling the Oak Ridge Story - Preserving Oak Ridge History



Puzzle solution for Jan 2013

ORHPA PRODUCTS FOR SALE!

From ORHPA Product Sales representatives -
 Don and Emily Hunnicutt (865) 483-6081
 Also at Jefferson Compounding Center, The Ferrell Shop or
 TheSecretCityStore.com



Join Us Now!

ORHPA is recognized by the IRS as a 501(c)(3) organization. Your support is most welcome and tax deductible as per IRS guidelines.

Membership Levels: \$15 Student; \$20 Individual; \$30 Family; \$75 Patron, \$250 Sponsor; \$500 Benefactor and \$1,000 + Major Benefactor.

Please mail a check payable to ORHPA, to P. O. Box 5825, Oak Ridge, TN 37831.

Name _____
 Address _____
 City _____
 State, Zip _____



Phone _____
 Email _____

Thank you for becoming a member of ORHPA! Monthly meetings, open to the public, are held on the second Thursday evening of each month at the Midtown Community Center, 102 Robertsville Road, Oak Ridge, Tennessee.