

the Y-12 times

A newsletter for employees and friends of the Y-12 National Security Complex

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March 2010 — Stein Construction awarded Bear Creek Road contract

April 2010 — New 9711-1 parking lot complete (71 spaces)

May 2010 — New 9720-8 parking lot complete (254 spaces)

June 2010 — New Engineering Row parking lots complete (289 spaces)

—Work begins on Bear Creek Road reroute

—Open east end Property Protection Area

November 2010 — Demolition of Building 9766 complete

February 2011 — Complete reroute of Bear Creek Road

September 2011 — Five additional parking lots complete (221 spaces)

Paving the way for changes

They're not speed cameras, roundabouts or speed bumps, but significant changes are coming soon that affect Y-12's most-trafficked road and east-end parking. Here's what employees need to know.

Bear Creek Road is being rerouted

A section of Y-12's main east-west thoroughfare, Bear Creek Road, is being moved slightly north. The affected area is from the Bear Creek portal parking lot to the Jack Case Center.

"Compliance with DOE's [U.S. Department of Energy's] graded security protection is the reason for the change to the road," explained Master Site Planning Manager Joe Boudreaux. "The relocation moves traffic away from Building 9212 and behind new security fencing."

A Chattanooga subcontractor, Stein Construction, is expected to begin work soon, and employees should expect the new road to be completed by winter. Traffic alerts on YSource will announce expected delays and any required detours during construction.

Changes are coming to Y-12's east end

According to Tom Smith, senior director of Strategic Planning and Transformation, the east end will be opened to allow greater access to the east-end Property Protection Area (PPA), accommodate changing site dynamics and facilitate development of this area for Complementary Work opportunities. "In June 2010 the PPA will be open to all employees for parking of personal vehicles," Smith said. "A vehicle badge will no longer be required."

More than 15 parking lots are being constructed on the east end of the Y-12 site. The initial 500 spaces will be completed by June 30, 2010, and by the end of the end of the fiscal year, more than 700 new spaces are expected to be available for parking in the newly opened east end of the Y-12 site.

"All told, about 1,300 extra spaces are in the cards if project funding and demolition of buildings, like Biology and others, go as planned," said Wade Simpson, lead civil engineer.

The first three lots, where 9720-8 (the old warehouse), 9711-1 (formerly the technical library), and Engineering Row buildings once stood, will soon be paved and striped, along with the addition of ramps and other safety improvements. Using the slabs left from the old buildings has two benefits: it saves on the cost of soil grading and avoids environmental issues. Watch YSource for additional information.

Employees want to know

Editors' note: In the May issue of *The Y-12 Times*, page 2, the answer to Nathan McMahan's question was actually the response to Steve Sarten's question on the greatest challenge facing Y-12. McMahan's question about the employment outlook for Y-12 American Recovery and Reinvestment Act (ARRA) workers is answered here, and Sarten's question is included with the correct answer. We regret the error.

In the December 2009 reader survey for *The Y-12 Times*, you said you liked the question and answer feature with Y-12 President and General Manager Darrel Kohlhorst. To meet your wants, the editors randomly selected 10 employees to ask Kohlhorst a question. Seven employees accepted the offer, and two of the questions and answers are shared here. Watch future issues of *The Y-12 Times* for more questions and answers.

Q: Given the current economic situation and out-year funding forecast, how confident can new employees brought on by the ARRA programs (not through subcontracts) be in knowing that they will have a long-term future at Y-12? What steps can they take to secure their future within the Y-12 family long after their current funding has been exhausted?

—Nathan McMahan, project control analyst, Program Planning

A: Securing additional funds for cleanup work at Y-12 is one of my top priorities. We have an exceptional team headed by Bob Warther and our performance has been outstanding. Keeping our performance at this level and not making mistakes is key to securing additional funding. We are working with the Administration, the U.S. Department of Energy's (DOE's) Environmental Management, the Oak Ridge office of DOE, and our Y-12 Site Office to identify additional work scopes and funding required. We want to move from the Recovery Act funding straight into funding for the Integrated Facility Disposition Program that will clean up Y-12 and take many years.

Congress and our Tennessee delegation is extremely interested in this approach as they know we have a dedicated, highly trained staff performing this work and any slowdown or discontinuing of work will cause us to lose skills and have to re-train, adding additional costs. So continuing the funding is the key.

The real question is when will we know. The answer comes in two parts. The first is the 2011 budget and the second is what the President requests for 2012. Fortunately, we expect to have both of these answers by early 2011 (March). At that time, if successful and we can see our numbers in the two budgets, we will start the planning to continue the program and let our team members know.

Q: What is the greatest challenge currently facing Y-12 and what are you doing about it?

—Steve Sarten, subcontracts administrator, Construction Management

A: There are many challenges facing Y-12 but none bigger than getting the new Uranium Processing Facility (UPF) designed and built. Our 9212 facility has a limited life. Even though we are still investing in upgrades and fixes, we can only sustain production for so long in that facility. It has more than served its purpose. The challenges for UPF will include getting it funded on a schedule that will bring it online in time to phase out 9212. We are working closely with our site office, National Nuclear Security Administration Headquarters, the Administration and Congress to demonstrate the need and our approach to the new facility. During Secretary of Energy Chu's visit, we took a tour of 9212 and walked through E-wing. He was amazed that we were continuing to use outdated equipment to meet our country's security mission. We continue to invite and have visits from congressional staffers and the Tennessee congressional representatives, including Congressman Zach Wamp and Congressman Lincoln Davis. Having them see firsthand the conditions we deal with on a daily basis helps make our case. Last year, Congress added \$50 million to the President's budget request for UPF to keep our design team on schedule. Currently, the plan calls for us to stay on that schedule for two more years and then ramp up construction very quickly. Our target would be to complete the facility and have it online by 2020. We are confident under our current plan for 9212, that our risk reduction program will allow us to continue operations in 9212 until UPF comes online. This is a challenge we work every day at Y-12.

High-powered cutter ready to license

Y-12 inventor Lee Bzorgi recently designed and developed the ultimate cutting-edge technology—the Omni Jaw 5™. It's a lightweight, high-powered hydraulic tool with an interchangeable jaw that quickly severs bolts and, with a change of the jaw, shears metal or packs a five-ton punch.

The unique, portable, 18-pound cutter was fully fabricated by Y-12's General Manufacturing organization for a specific project. The compact device promptly proved its worth, was patented by Y-12's Technology Transfer group and is now ready to be licensed to a private sector company.

"The cutter is a two-handed tool with an ergonomic electric trigger design, and the great thing is that it requires no oiling and no regular maintenance," Bzorgi said. Not all tasks will require five tons of power, but the licensee will be able to modify the tool to the required specifications. "Right now, it has a mighty 1:500 weight-to-force ratio, and that's a lot of power!" The longer the momentary trigger is held closed, the higher the force generated. After the trigger is released, the system resets automatically, traps trimmings to eliminate environmental and safety hazards and returns the cutting jaw to the open position.

Demolition companies, emergency response teams and the military might see this innovative tool as the answer to effectively and efficiently razing buildings or dismantling equipment. Its debris-capture feature is significant because it prevents cross contamination, provides shielding of the debris and cutting edge, and safeguards the operator from flying fragments.



The Omni Jaw 5™ (hydraulic tool pictured) was designed, developed and manufactured by (front row, from left) Lee Bzorgi and Carl Linginfelter and (back row, from left) Clayton Gheen, Bob Heydasch (retired), Greg Justice and Rick Craze. (Not pictured are Mike Bell and Jim Weaver.) The lightweight, hydraulic cutter slices and dices bolts with five tons of power—perfect for demolition.

THE NAME GAME

Technology Transfer held a contest for employees to name the powered protrusion cutter, originally designed by Y-12's Lee Bzorgi (left). More than 80 trademarks names were received.

Tammy Graham of Technology Transfer said, "We selected two entries and combined them into the selected trademark, Omni Jaw 5." The winning entries were submitted by Tim Earith (right) of Program Planning for "HYPE Jaw 5" and Dan Carnes (middle) of Quality Assurance for "OmniCut." Each winner received \$500.

"This invention and many others were all fabricated in the same shop run by Y-12's General Manufacturing specialists. Without the skilled craftspeople at Y-12, my inventions would just stay on the paper. It's because of their skills and craftsmanship that these products exist," said Bzorgi.



DAY OF VOLUNTEERING

“

Our Day of Volunteering is a great example of Y-12 employees' involvement with organizations that provide important services in our communities,

”

—Darrel Kohlhorst, president and general manager of Y-12

The weekend of May 14 and 15 was a busy one for almost 900 Y-12 employees, family members and friends as they fanned out across the region to help nonprofit agencies in a variety of ways—painting, landscaping, building ramps for people in wheelchairs, visiting with the elderly and much more. This year marks the biggest turnout in eight years of the program.

Rob Jago of Facilities, Infrastructure and Services volunteered at Jamestowne Assisted Living in Kingston. He and the other volunteers assisted the residents in planting flowers, vegetables and rose bushes. “A resident came to a planter we were filling with dirt. She stuck her hand in the dirt, closed her eyes and told us it reminded her of her childhood. It’s wonderful to bring back memories for someone,” Jago said.

Why does Dean Shipley of Nuclear Facilities Quality Assurance volunteer at Shangri La Therapeutic Academy of Riding (STAR) in Lenoir City? For the wow effect. “How long has it been since you had a WOW moment? You know, something that stops you in your tracks? The love and caring of the STAR staff and the joy in the riders’ faces gave me a WOW moment every time I saw them,” he said.

“I chose Grand Oaks Elementary School because a co-worker/friend asked me if I would like to help with her project at Grand Oaks where her children attend school,” said Chief Financial Officer Division’s Vickie Hurd, who helped with landscaping around the school. “What motivated me to help were several things—like helping a friend, giving something back to the community that I, too, live in and the fact that it is rewarding just to help others.”

Astrid Brynstad of Environment, Safety and Health volunteered at CONTACT House. “I’ve been a CONTACT volunteer for almost three years. The difference Y-12 has made in past volunteer days is huge. Important repairs and maintenance of our very old building and landscaping our previously bare yard have been accomplished—things that would be impossible otherwise. When Y-12ers swoop in once a year for volunteer day, amazing transformations happen in just a few hours.”





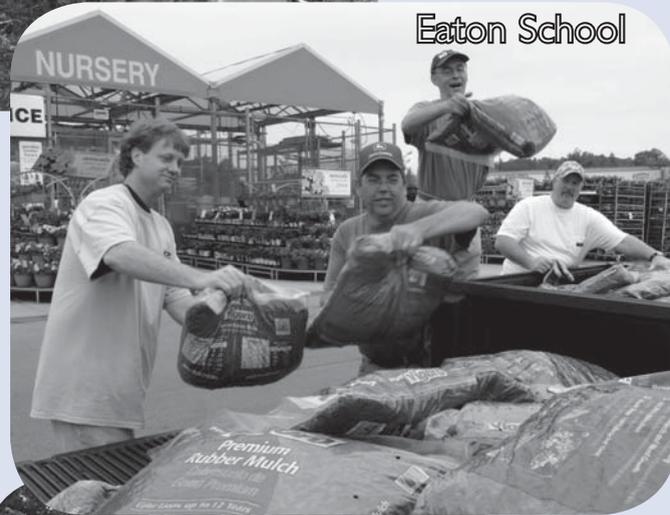
Oak Ridge Art Center



Oak Ridge Children's Museum



Valley View Mobile Pantry



Eaton School



Revitalization Center



Oak Ridge Nursery School



MMC Hospitality Houses

James Walker restores computer for soldier's wife

When a virus knocked out the computer of a soldier's wife in Sweetwater, Tenn., James Walker of Y-12 computer maintenance volunteered immediately to help. The laptop is Kimberly Mabry's main way of talking with her husband, who is stationed in Iraq with the 278th Armored Cavalry Regiment. She also communicates online with relatives of other soldiers, as one of the Family Readiness Group representatives for the regiment.

"Because of Skype and other Internet call providers, keeping in touch is a lot different than it once was," Walker explained. "Soldiers are used to logging on and seeing and talking to their families in real time."

Fortunately, he was able to remove the virus in five or six hours, without reformatting Mabry's hard drive and reloading all the software. "Since I didn't have to use the disaster recovery disk, we were able to keep all her customized settings," Walker said.

Mabry described the help as a lifesaver that day. "It's hard enough to go through a deployment without all the extra hurdles that life throws at us," she said.

This isn't the first example of Y-12 volunteers' assistance to families of the 278th Regiment, headquartered in Clinton. "We kind of adopted the unit when it began training last November for its Iraq mission," said Tim Morris, plant shift superintendent.

RECONNECT WITH RETIREES

In the 2009 reader survey for *The Y-12 Times*, respondents indicated they would like to know what retirees are doing in their "free" time. In the coming months, catch up with former Y-12 employees, such as Louise Presley, Gordon Fee, Tom Goodpasture and Erb Mowery, and find what they are doing to stay busy. First up is Jack Rider, a Maintenance supervisor when he retired, who continues to use his skills.

ON THE ROAD WITH JACK RIDER

Jack Rider literally took his life on the road when he retired in 2005 after more than 28 years at Y-12. He and his wife Kay sold their house in Kingston, Tenn., and became full-time motor home people. Actually, it seems that traveling is just the backdrop for their front-and-center volunteer work.

First, there are the Habitat for Humanity residential construction projects—in four different states so far. "It's interesting that the last six years of my Y-12 career were spent on demolition of structures and now we put together houses for needy families," Rider laughed. Indeed, Rider was a Maintenance general supervisor when building demolition began as part of Y-12's modernization.

The Riders also volunteer with the Red Cross as disaster team leaders and certified emergency rescue vehicle drivers. Then a few months ago Jack started helping the Support the Troops (www.ourtroopsonline.com) organization. "I just got back from helping pack boxes of toiletries, snacks, magazines and other goodies to send to Iraq and Afghanistan," he said by phone from their motor home in Zephyrhills, Fla. "There is simply nothing more rewarding than seeing pictures of smiling soldiers when they get those boxes."

Several years ago, the Riders spent 76 days and covered almost 15,000 miles round-trip through Alaska and the Canadian Rockies. "It was a trip of a lifetime," he claimed, "with a picture postcard view around every corner.

"People who think they would have nothing to do if they retired are fooling themselves. This retirement stuff is not for sissies!"



Jack Rider (right) examines a 2-inch × 4-inch brace while on a Habitat for Humanity project in Dade City, Fla.

Around Y-12 ...

- **Y-12 will offer public tours June 19, from 9 a.m. until 4 p.m., in conjunction with the Secret City Festival.** The one-hour tours begin and end at the New Hope Center. Attendees must be U.S. citizens; those older than 18 must have photo identification. This tour will include a stop at Building 9731—the first building built for Y-12 operations in 1943.
- **The Y-12 National Security Complex, as the Center for Uranium Excellence, will serve a critical role in implementing the President's nuclear security agenda** of securing most of the world's vulnerable nuclear materials within the next four years, Thomas D'Agostino, administrator for the National Nuclear Security Administration, told a group of 300 government and business leaders at the 2010 Tennessee Valley Corridor Summit. The regional conference, led by U.S. Reps. Lincoln Davis and Zach Wamp, was held in Washington, D.C., May 25–27.
- **B&W Y-12 recently contributed \$105,000 toward the expansion of Roane State Community College's Oak Ridge campus.** "B&W Y-12 helped put us over the top, and their generosity will have a long-lasting benefit for Roane State students," Roane State President Dr. Gary Goff said.
- **In support of educational benefits for area schools, B&W Y-12 contributed \$30,000 to the auditorium campaign at the University of Tennessee Arboretum in Oak Ridge.** B&W Y-12's commitment is for \$30,000 a year for five years. The building will house educational and demonstration programs about forestry, the environment, energy and sustainability.
- **John Dyess, representing the Assistant Secretary of Defense for Reserve Affairs, recently recognized the efforts of Larry Brown and Tim Morris, both of the Plant Shift Superintendent's office, to raise \$12,500 to transport troops of the 278th Armored Cavalry Regiment Armory in Clinton home for the 2009 holidays from Camp Shelby, Miss., before they were deployed to Iraq.**
- **B&W Y-12 pledged \$25,000 a year for three years to Junior Achievement of East Tennessee.** As part of the commitment, B&W Y-12 sponsors a storefront in the Junior Achievement BizTown facility in Clinton for 5th-grade students. At BizTown, students spend a day operating a simulated city's commerce as business owners and employees.
- **B&W Y-12 has donated \$100,000 to assist Anderson County in an effort to bring clean water to every home in Anderson County.** The contribution will fund the extension of water lines to 42 homes in the northeast portion of the county. "These homes are in remote pockets of the county that are still without access to public waterlines," said Anderson County Mayor Rex Lynch.
- **Brad Walker of Engineering has been voted into the American Society of Mechanical Engineers' B31.3 Process Design Code Committee, Design Subtask Group.** The distinction gives Y-12 further presence in the development and interpretation of ASME National Consensus Codes. Complying with national design standards like these is required by Y-12's Standards/Requirements Identification Document.

Ron Ragland was honored for his 50 years of company service at B&W Y-12's anniversary dinner held May 6 at Fox Den Country Club. Ragland's career spans 50 years in Oak Ridge, all three U.S. Department of Energy installations and 15 positions. What keeps him excited to come to work each day? "I enjoy working," he said. "I have never had a day that I would mind coming to work. Sure, I like to have vacations and enjoy sunny days, but I like the challenge of doing new things and making improvements."



SERVICE ANNIVERSARIES



JUNE

43 years

Applied Technologies: **George L. Powell**
Engineering: **Samuel M. O'Neal Jr.** and **James H. Rollins**
Programs & Quality: **Eugene E. Clark** and **Michael W. Poore**

42 years

Programs & Quality: **Ralph S. Leete Jr.**

41 years

Business Services: **William D. Cain** and **Letitia P. Malone**
Facilities, Infrastructure and Services: **Dewitt Upton**
Production: **Roger D. Bolin**

40 years

Emergency Services: **Robert P. Galyon**
Facilities, Infrastructure and Services: **Maurice G. Crouch Jr.**
Production: **Perry Anthony Jr.**

35 years

Engineering: **Michael V. Keigan** and **William R. Williams**
Environment, Safety and Health: **Paul R. Wasilko**
EVMS and Services: **Wiley W. Byers Jr.**

30 years

Applied Technologies: **Edward L. Churnetski** and **Carol A. Henderson**
Business Services: **Lloyd F. Arrowood III**, **Kenneth L. Light** and **Phyllis E. Townsend**
Engineering: **James H. Clinton**, **James W. Nehls Jr.** and **Dennis P. Sooter**
Facilities, Infrastructure and Services: **Lonnie R. Collier**, **Thomas B. Freshour**, **Jerry L. Lewis**, **Elmer L. Symons**, **Marvin L. Wilson** and **Michael T. Wyrick**
Production: **James H. Beaty**
Programs & Quality: **John T. Mitchell**
Projects: **Kenneth M. Nelson**

25 years

EVMS and Services: **Teresa N. Hensley**
Facilities, Infrastructure and Services: **Herbert E. Martin**
Production: **Virgil F. Smith**
Programs & Quality: **Christine A. Smith**
Safeguards, Security and Emergency Services: **Harold Wheat Jr.**

20 years

Business Services: **Russell L. Crisp**
Engineering: **Thomas F. Cady**
Environment, Safety and Health: **Lea B. Foxworth**
Facilities, Infrastructure and Services: **James D. Lowe**

**Bring Our Children to
Work Day**
(grades 8–12)

June 10

Contact: Pat Carson
241-8356

**LIFE Center
Open House**

June 15
Jack Case Center

Secret City Festival

June 18–19
Oak Ridge

secretcityfestival.com

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Preserving the past, preparing for the future

Upcoming Y-12 tour participants will notice a significant change to one of the popular stops. Alpha 3 (Building 9201-3), one of the few Manhattan Project-era buildings the general public is allowed to visit, recently got a facelift.

Built in the 1940s with the other “Alpha” buildings, it was experiencing moisture seepage and crumbling tiles, but because Alpha 3 was characterized as an enduring facility, repairs and maintenance were needed to ensure it lasted for the long haul.

The building also became the organization headquarters to Facilities, Infrastructure and Services, which was responsible for ensuring its safety and historic preservation. “This was going to be our home for the foreseeable future, and we wanted the building to reflect its importance, both past and present,” said Wade Ray, director of Maintenance Execution.

The painters, consisting of 14 craftspeople and four apprentices, began by pressure washing the building. Since the paint chips and debris falling had the potential to be hazardous, they worked with

Environment, Safety and Health to develop a plan to contain the paint chips as they fell.

After pressure washing, the painters caulked and sealed cracks to prevent water damage. The paint color was chosen to match the original color of the Alpha buildings, which keeps its historic value intact. Then the painters got to work doing what they do best.

“While facility preservation is a big reason for the improvements, we also wanted employees to know the management team cares about giving them a work area they could feel safe in and be proud of,” Ray said. Employees have seen the difference a few months can make ... and soon visitors will too.



Alpha 3 recently got a facelift. The difference a few months and a lot of hard work can make is evidenced before (taken in November 2009) and after (taken in April 2010).