

Political leaders visit Y-12



Tom Smith (right), Y-12 modernization manager, discusses the Complex's modernization plans with Sen. Alexander (front), Bill Brumley (back left), site manager for the National Nuclear Security Administration and Steven Liedle, acting general manager for BWXT-Y-12.

The first week of 2006 brought two political leaders to the Y-12 National Security Complex. U.S. Sen. Lamar Alexander and Knox County Mayor Mike Ragsdale visited the site during recent visits to Oak Ridge.

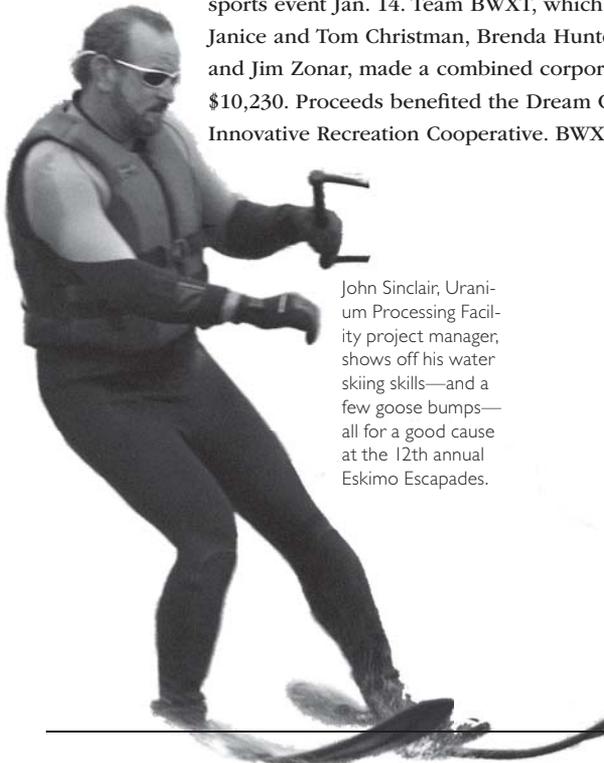
Alexander was in Oak Ridge to participate in the Oak Ridge Chamber of Commerce's 2006 Program of Work. Alexander noted during his comments, "Our ability to get and keep jobs depends on the ability to create new ideas for jobs." Y-12's modernization is one such way the Complex plans to create jobs.

After the chamber's event, Alexander saw firsthand the modernization occurring at Y-12 when he was given a driving tour and briefing on the current status of modernization plans. His tour included a look at construction of the Highly Enriched Uranium Materials Facility and the Jack Case Center, one of the two privately financed buildings currently under construction.

Ragsdale visited Y-12 Jan. 6 for a briefing and tour of the Complex and was updated on current and future modernization plans. Ray Smith of Projects gave Ragsdale a tour of the historic Beta 3 building, which contains the last remaining "calutron" electromagnetic isotope separation devices from the Manhattan Project in World War II.

Employees raise funds

Some brave Y-12 employees participated in the Eskimo Escapades water sports event Jan. 14. Team BWXT, which included members Pat Carson, Janice and Tom Christman, Brenda Hunter, John Sinclair, Randy Spickard and Jim Zonar, made a combined corporate and employee contribution of \$10,230. Proceeds benefited the Dream Connection and the Patricia Neal Innovative Recreation Cooperative. BWXT Y-12 was the primary sponsor.



John Sinclair, Uranium Processing Facility project manager, shows off his water skiing skills—and a few goose bumps—all for a good cause at the 12th annual Eskimo Escapades.

WHAT'S INSIDE

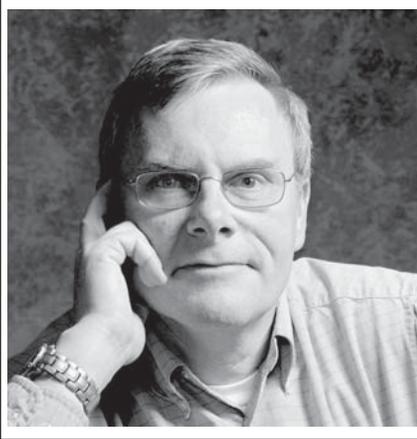
Your questions answered	2
A year in the [Y-12] life	4
6 ways to prevent identity theft	7
French fries and family	8
What a Y-12 soldier missed most	

"I have a dream ..."



In celebration of Martin Luther King Jr. Day, about 250 people gathered at the American Museum of Science and Energy to talk about re-igniting King's dream. The event was co-sponsored by BWXT Y-12.

Liedle's Letter



This month's **Liedle's Letter** addresses questions you have. I plan to continue using this format in future issues of the **BWXTimes**. If you have a question that you want me to answer in this medium,

please forward it to Melissa Leinart (6ml) of Public Affairs and Communications.

Q. Is union labor going to build the two buildings (alternatively financed) outside the fence?

A. That is really not our call given that the developer owns the land upon which the buildings will be erected. Design details and construction will be handled by the developer, who is independent of BWXT Y-12. We have stipulated, however, that the developer use union wage scale regardless of who does the actual construction.

Q. Are there any solutions to the parking problems we now face?

A. Parking is a burden. We are implementing a Knoxville Area Transit system rider program at Y-12 that could alleviate the problem for some employees. This

program will use KAT buses to transport employees from convenient parking areas in west Knoxville to work and back each day. If the KAT program works, it should free up to as many as 200 parking spaces. We will conduct surveys to gain feedback and provide additional seats as needed.

Q. When are we going to get the process equipment fixed?

A. Aging equipment is a challenge. As the cost of maintenance continues to climb, the equipment will become too costly and unsafe to operate. You can expect some relief through critical equipment purchases as part of our Directed Stockpile Work and Campaigns programs in the short term and when the construction is completed and operations are consolidated in the new production buildings in the long term.

Y-12 leads in integrated safety

Y-12 is recognized as a Nuclear Weapons Complex leader in integrated safety management, and it intends to stay out front by incorporating safeguards and security to create a totally integrated management process.

The new system—called Integrated Management—controls changes to facilities and operations so that neither safety nor security is compromised.

A Performance Improvement Process team led by Bill Scheib of Productivity and Process Improvement has been working on how best to make the consolidation happen. Not unexpectedly, the team found some weaknesses in the connection between Y-12 safety and security programs.

For example, there was no documented link between the Site Safeguards and Security Plan and facility safety basis documents. There also was no system for controlling changes to facility security plans. Based on the team's discoveries, they developed an implementation plan for an integration effort.

Facility security plans will become the starting point for security implementation and will be placed under configuration control. New security procedures will be developed, and some procedures will be revised to reflect the improved process.

Scheib estimates that improvements could save rework time and result in clearer guidance for developing and revising security plans.

According to Dave Alger, the Integrated Safety Management System/Integrated Safeguards and Security Management manager, with the next phase the plant will be setting the bar higher and helping define how safeguards and security are incorporated. "We are ready to work even harder to achieve seamless integration," he said.



Team members include (seated from left) Ken Grissom and Bob Spence and (standing from left) Bill Scheib, Tom Reed, Bill Brock, Dave Alger, Ron Gainey and Dave Sheffey. Not pictured are Ken Keith, Lloyd Jollay and Gary Lovelace.

Y-12 focuses on behavior-based safety

Y-12 engineer joins IMS board

Steve Dekanich of Quality Assurance was installed on the International Metallographic Society Board of Directors at the organization's 38th annual meeting.

A materials engineering specialist, Dekanich is the project lead responsible for the specification and startup of the world's largest chamber scanning electron microscope at the Y-12 National Security Complex.

Dekanich was selected to co-chair the 2006 IMS meeting and chair the 2007 event. He was also invited to co-author a paper with metallography expert George Vander Voort. The paper concerns processing metallographic specimens for electron backscatter diffraction evaluation.
—Condensed from *The Oak Ridger*, Jan. 3

Area soldiers recognized

Y-12 wasn't the only organization recognizing soldiers returning to work in December.

WBIR-TV, Channel 10 featured Manufacturing's Monty Fritts as one 278th soldier who returned to work after only three weeks home after an 11-month stint in Iraq.

"There was a great deal of sense and accomplishment and satisfaction in that you could see hope in those children's faces," Fritts said about working with the Iraqi people.

Fritts is glad to be back home and at Y-12. "I've been here long enough that some of my co-workers are like family," the 278th staff sergeant said. "So, it was good to see them, good to see the place."



John Whalen, unit steward for Y-12's air-conditioning and refrigeration department, evaluates plant mechanics Nolan McAfee, kneeling, and Ron Sharp in a safety exercise.

BWXT Y-12 prides itself on its commitment to safety and its low rate of lost workdays. But management is continually striving for improvement, and enforcements like its Behavior-Based Safety Program help the Complex's safety record become even closer to perfection.

"This is a new way of looking at safety. It's proactive instead of reactive. Behavior is what causes most accidents," said Burt Tackaberry, BBS manager.

Employees pair up to examine each other's work habits. One performs a task while the other is checking off a list that includes "using right tool" and "safety gloves and glasses on."

"It's the same thing we've been doing forever—taking care of our buddies," said John Whalen, unit steward for Y-12 Air Conditioning and Refrigeration.

Mechanic Ron Sharp said, "It helps to have someone observe you and point out things you might be doing that are at-risk behaviors."

—Condensed from *The Oak Ridger*, Dec. 9

BWXT Y-12 honors inventors

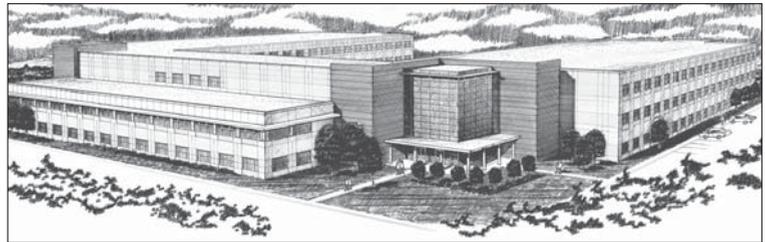
Twenty-two inventors from the Y-12 National Security Complex were honored for their FY 2005 patents, disclosures and related achievements at BWXT Y-12's second annual Technology Transfer Awards Ceremony.

Ceremony highlights included a number of special awards as well as the presentation of a Southeast Region Federal Laboratory Consortium Excellence in Technology Transfer Award from FLC Southeast Region coordinator Mark Reeves.

The award was for the Y-12 technology RAMSAFE, a software system designed to help cities and states better prepare for and mitigate emergency situations. Most recently, RAMSAFE was contracted for installation in New Orleans to aid in the recovery from Hurricane Katrina.

—Condensed from *The Oak Ridger*, Dec. 27

2005



2005

Year in Review * 2005 Year in Review * 2005 Year in Review

General management

- Completed the presentation of the Y-12 Fundamentals
- Moved Shipping/Receiving department to an off-site facility to meet the expedited demolition schedule for the current facility
- Broke ground for the Jack Case Center and New Hope Building
- Began 4/10 work schedule
- Hosted a visit by Secretary of Energy Samuel Bodman
- Exceeded all hiring goals for new college hires, co-ops, interns and critical skills

Operations

- NNSA authorized restart of the Oxide Conversion Facility and first-use activities were completed
- Established the Work Control Department to improve the focus on effective work planning, scheduling and execution
- Completed Y-12 Vehicle Maintenance Facility office/changehouse complex
- Relocated Construction staff, equipment and material storage areas inside the Protected Area
- Ramped-up Wet Chemistry to full production and operations

Programs and projects

- Defined and implemented 15 percent Productivity Program to focus on making additional resources and funding available to support modernization initiatives
- Met shipment schedules for enriched uranium to the United States Enrichment Corporation and the Tennessee Valley Authority
- Supported work for shipments of enriched uranium material for research reactor fuel
- Installed the prototype microwave caster, pioneered at Y-12, in the production portion of Y-12
- Began execution of two weapon life extension programs simultaneously
- Hosted the Nuclear Weapons Complex-wide readiness campaign meeting
- Added eight mentor-protégé agreements, including seven small businesses and one Historically Black College and University
- Deployed approximately 105 diskless workstations

Safeguards and security

- Implemented Citizenship Verification Process
- Began use of the Automated User Interface electronic software for the Questionnaire for National Security Positions
- Completed installation of the remotely operated weapon system
- Reduced Protected Area vehicle access by 50 percent

- Received praise from the Office of Independent Oversight and Performance Assurance and NNSA Administrator Linton Brooks on improvements made in the safeguards and security arena
- Became first DOE-NNSA site to destroy accountable classified removable media

Environment and safety

- Held the fifth annual Safety Expo with more than 10,000 attendees
- Achieved impeccable safety record with commercial vehicle drivers celebrating their 13th accident-free year
- Worked a total of 5.3 million hours without a lost workday away case

Community involvement

- More than 400 Y-12 volunteers completed projects in area communities as part of the third annual “Day of Volunteering”
- Issued an addition to the sold-out *Katy's Kitchen: Y-12 Secret Recipes* cookbook with proceeds benefiting United Way
- Held a variety of events (Chilly Chili Cook-Off, BBQ Rib Cook-Off, golf tournament and doughnut eating contest) throughout the year to benefit United Way and donated proceeds of more than \$682,000
- Sponsored *Secret City: The Oak Ridge Story* documentary film that premiered in Oak Ridge
- Opened the gates to the public, media, friends and family, allowing them to see the historic building that contains the calutrons
- Donated 350 coats and sweaters to the Volunteer Ministry Center
- Collected donations, helped in the cleanup and provided generators for the hurricane relief efforts
- Participated in the American Diabetes Association fund raiser
- Hosted the 2005 “Bring Our Children to Work Day”
- Donated \$200,000 to Oak Ridge High School for renovations

Honors

- Department of the Interior Take Pride in America Presidential award
- National Park Service Volunteer Accessibility Achievement award
- “Largest Corporation” participation award at the Volunteer Ministry Center’s 8th Annual Walk/Run
- Two Green Cross Awards for Safety
- Internal Audit recognized as the “Gold Standard” by NNSA Headquarters
- Multiple Public Relations Society of America awards
- Various Society for Technical Communication awards
- NNSA Small Business Achievement Award
- DOE Secretarial Mentor-Protégé Teaming Award
- Honored 22 inventors for FY 2005 work
- Tennessee Chamber of Commerce & Industry award and certificates for outstanding environmental accomplishments

Year in Review * 2005 Year in Review * 2005 Year in Review

HSPD-12 implementation considered a model program

Like many federal agencies and contractors, Personnel Security spent the summer and fall preparing to implement the Homeland Security Presidential Directive 12. Not only was Personnel Security ready to implement HSPD-12 on time—their process has been hailed as a model for the Nuclear Weapons Complex by representatives from National Nuclear Security Administration Headquarters.

HSPD-12, “Policy for a Common Identification Standard for Federal Employees and Contractors,” requires the implementation of a mandatory, government-wide standard for secure and reliable forms of identification for federal employees and contractors. This directive targets the wide variations in forms of identification used to gain access to secure facilities as a means of mitigating the associated risk.

According to Personnel Security manager Mary Gaines, implementation of the president’s directive required the design of new badge request forms and new badges and building special files to contain the required background information (including citizenship documentation). All of this information is protected in accordance with the Privacy Act.

Since the Oct. 28 implementation date, all requests for badges have been processed according to HSPD-12 guidelines. Notes Gaines, “BWXT Y-12 was among the first to fully document the HSPD-12 process with NNSA HQ, and our process flowcharts were sent to other NNSA sites as an example of a good process to follow. NNSA HQ has been complimentary of our process, and considers ours a model for the Complex.”

Ready, SSET, go!

Y-12 Safeguards and Security is ready. The division’s participation in the Security Systems Engineering Team aids in ensuring that readiness.

SSET is a multidiscipline, multisite group focused on promoting excellence in design, implementation, operations and integrity of security systems at National Nuclear Security Administration sites. This team shares best practices for physical security and conducts peer reviews of proposed security line-item construction projects.

Y-12 hosted a technology deployment conference in conjunction with an SSET meeting attended by more than 60 stakeholders from across the U.S. Department of Energy Complex. The conference served as a year-end review for 10 projects funded by the NA-70 Technology Deployment Program in fiscal year 2005, five of which were deployed at Y-12.

In addressing the attendees, Y-12’s S&S director, Butch Clements, noted that the Complex is facing tremendous challenges over the next three to five years, and “we can’t get there without the work you’re doing.”

Jean Burleson, general manager of Wackenhut Services, Inc.-Oak Ridge, also acknowledged that he and his staff “embrace the idea of technology to assist us.” Burleson further encouraged the attendees to send technologies to Y-12 for testing. He joked, “If it can be broken, we’ll break it.”

With the theme “Implementing Technology to Counter the Design Basis Threat,” the forum provided the opportunity for lively and candid discussion of technologies that could benefit all NNSA sites. From wireless technologies to enhanced intrusion detection, the conference addressed physical security, material control and accountability and cyber security.

Feedback from the participants indicates the session was valuable. Given increasing budget constraints and the fast pace of technology, the impacts of such sessions on the security of our nation may indeed be invaluable.

Why did the SPOs cross the road?



To keep employees from harm. Security police officers at Portal 5 identified a potentially dangerous situation where employees had to cross lanes of traffic to reach the pedestrian portal. The SPOs (from left), Robert (Butch) Dye, Janie Love, Paul Osborne and Paul Sheard, made management aware of the hazard. The resultant portal was dedicated in their honor.

Building the perfect fire engine

An inventive team of Y-12 firefighters has designed exactly what they want in a fire engine. Firefighter Don McGuire prepared sketches of the team's design and submitted them to several manufacturers, and at least two companies say they can build it.

The team developed detailed specifications to ensure all equipment would fit in the smaller space. A manufacturer using the team's plans could mount the equipment on the engine in 3 weeks maximum.

Compared to Y-12's current engines, the new 27-foot-long engine would be shorter in length and height, with wheels 2 feet closer together. This design would provide enhanced maneuverability in Y-12's tight spaces.

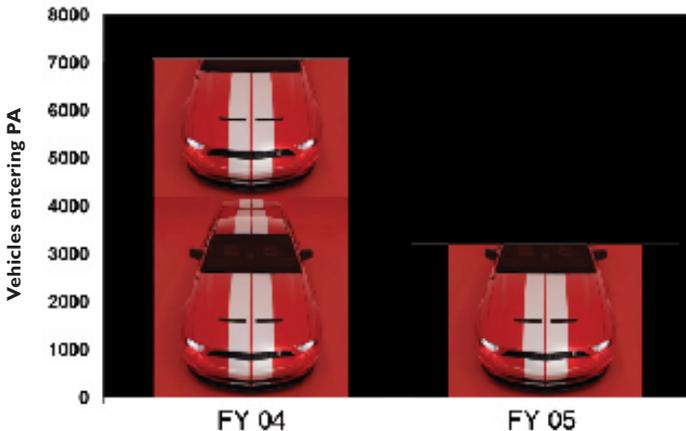
Its aluminum wheels and stainless-steel body also would be cheaper to maintain. Appropriate paint on stainless steel would cost \$4,000 to \$5,000, compared to the current approximate cost of \$14,000 to mitigate corrosion on the engines' paint jobs.

Hose placement would be another of the new engine's advantages. Firefighters could stand on the street and reach everything. The hoses would lock in place in a tray so they would not fall off during transport. A metal railing on the back of the truck would prevent a person loading the hoses from falling over the side.

Y-12 is set to move ahead with this project pending funding.



Jim Aslinger, Daniel Bray, Don McGuire and Keith Amos (from left to right) worked together to design Y-12's ideal fire engine.



One year later, fewer vehicles entering PA

In November 2004, BWXT Y-12 began an initiative to reduce the number of vehicles entering the Protected Area. Since then, drivers have had to present a ticket to the security police officer to enter the PA.

One year later, the program has consistently maintained a 50 percent average reduction from baseline. From November 2003 to October 2004, the average number of vehicles entering the PA per month was 7,084. That average dropped to 3,206 during the November 2004 to October 2005 time frame.

Vehicle access to the PA must be limited to permit effective security searches and maximize timeliness for essential travel.

Seminar features identity theft defense tips

It's a crime three out of five Americans will be victims of this year, and some won't realize when it happens.

Identity theft is a growing problem that may end up costing victims a lot of time and money, along with their credibility. Safeguards and Security recently offered all Y-12 employees access to an ASIS International virtual seminar on identity theft. In it, Chris Wright, a certified protection professional of Anaheim, Calif.-based The Wright Group, discussed strategies identity thieves use and those potential victims can use to protect their personal information.

An identity theft victim herself, Wright said thieves may "shoulder surf," or look over your shoulder at the ATM; steal from your mailbox; search your garbage; or file an address change with the post office by impersonating you, among other things. She said the best defense against identity theft is a good offense.

According to Wright, to prevent identity theft

- shred receipts and credit card applications,
- check your credit history annually,
- guard your personal information in public,
- check credit card statements closely,
- never give out personal information and
- get a post office or locked residential mailbox.

What to do if your identity is stolen

- Contact credit bureaus.
- Alert creditors in writing.
- Report the crime to police within 24 hours.
- Reassert control of your bank accounts.
- Don't pay bills incurred by the thief.
- Get a new ATM card.
- Alert public utilities.
- Notify Social Security.
- Check your passport.

Y-12 soldier is 'blessed to be an American'

As mentioned in the December *BWXTymes*, we will continue to highlight returning soldiers. This month, Toby Williams of RadCon shares his story.

What was your most recent stateside or overseas assignment?

Deployed for Operation Iraqi Freedom III

Where were you stationed?

Camp Caldwell, Kirkush, Iraq

What was the first thing you wanted to do (go, eat, etc.) when you got home?

McDonald's American fries—I was disappointed because they were soggy.

What was most rewarding about being a part of this military endeavor?

Meeting, talking and learning the culture of the Iraqi people

What was the hardest part of your recent military experience?

Leaving my family and watching all the negativity being reported by the media. There is a tremendous amount of good being done in Iraq that goes unreported by the media.

What does being a military service person mean to you?

It means being part of something greater than me. I am blessed to be an American, and this allows me to contribute to my country.

How does being a military member help you in your job at Y-12?

The military has helped me develop skills in team building, mission accomplishment, decision making, time management, prioritization and professionalism.

Anything else you want to say?

Please keep praying for the troops we still have in harms way. Prayer works.



ILT Toby Williams on a security mission supporting Iraq's elected officials at a council meeting (left). Right, Iraqi sisters photographed by SSG Klika, a sergeant in Williams' unit, during a humanitarian relief effort.

BWXT*y*mes

Volume 6, No. 1

January 2006

P. O. Box 2009

Oak Ridge, TN 37831-8245

Melissa Leinart, editor

865-574-1621 (6ml)

Bldg. 9109, MS 8245, Oak Ridge, Tennessee 37831

Other contributors:

Amy Bush

Kathy Fahey

Stuart Hames

Lisa Harris

Kathryn King-Jones

Jamie Loveday

Brett Pate

Heidi Spurling

Mike Watkins

Donna Watson

PRSR
STD
PAID

U. S. Postage

Permit #36
Powell, TN