

### Hanford tanks connected to treatment site

The last 7,000-foot stretch of piping to connect Hanford's waste tanks with the Waste Treatment Plant site has been completed. The piping was installed more than two months ahead of schedule at a cost savings of \$20 million.

Working for the Department of Energy Office of River Protection, tank-cleanup contractor CH2M HILL Hanford Group has been working over the past year to install the transfer route to feed waste to Hanford's Waste Treatment Plant, where it will be glassified.

"This is an important step in Hanford cleanup, because the tanks are now connected to the site where the waste will be turned into glass," said ORP manager Roy Schepens. "Treating the waste is key to reducing the risks to the environment, the public and our Hanford workforce."

"Work was completed ahead of schedule and at a cost savings because of efficiencies in the transfer-system design, our contracting approach and the excellent — and safe — work done by our local subcontractors," said Joel Eacker, vice president of Projects for CH2M HILL. "During the entire 10 months of manufacturing and installing the piping between the tank farms and the Waste Treatment Plant site, we experienced only one first-aid case."



The TV cameras were rolling as officials of the Washington State Department of Ecology, CH2M HILL Hanford Group, the DOE Office of River Protection, HiLine Engineering and Apollo tossed ceremonial shovels full of dirt to cover tank-waste transfer piping next to the Waste Treatment Plant construction site.

### Cost-saving ingenuity

Project managers reduced the cost of completing the piping from the tanks to the Waste Treatment Plant by modifying the original concept. The original plan called for two lines, each for different types of tank waste, and a new waste-transfer hub in the AP Tank Farm, the farm the closest to the WTP site. CH2M HILL refined the concept to eliminate the transfer hub and switched to three lines that can be used for all types of tank waste headed for the vitrification facility.

Apollo, Inc., a local firm, installed the piping for about a third less than CH2M HILL's original installation estimate of \$3 million. The transfer lines run from a junction in the AP Tank Farm over a distance of about 2,000 feet to the site of the vit plant.

HiLine Engineering and Fabrication, Inc., another local firm, manufactured the 7,000 feet of double-contained piping for about half the cost of previous transfer piping. The pipes are specially designed for the

*Continued on page 2.*

## Hanford tanks connected to treatment site, cont.

millions of gallons of radioactive and hazardous waste that will be transferred.

CH2M HILL is upgrading 10 double-shell tanks in the 200 East Area to serve as staging points for waste as it is retrieved from older single-shell tanks throughout the 200 Area. The site's Waste Treatment Plant, which Bechtel National is constructing, is expected to begin treating tank waste with the start of "hot" commissioning in 2009.

"By installing the piping early, we can now focus our cleanup efforts on retrieving waste from the older tanks, making tank upgrades and closing Hanford's tanks," said Ed Aromi, CH2M HILL Hanford Group president and general manager. ■



The piping between the tank farms and the Waste Treatment Plant construction site consists of three double-contained lines that can be used for transferring all types of tank waste. Local firms manufactured and installed the piping ahead of schedule at a significant cost savings.



Patrol recruits prepare for the 40-yard prone-to-running dash.

## Qualified applicants urged to apply to Hanford Patrol

The Hanford Patrol is seeking applicants to establish a list of qualified candidates to fill future openings for Security Police Officer II positions. Beginning today, interested applicants are encouraged to apply for the Security Police Officer II position on the Project Hanford Human Resources Web site, <http://www.hanford.gov/hr/jobs.htm>. The deadline to apply is Friday, July 11.

Hanford Patrol is operated by Day and Zimmermann Protection Technology Hanford, part of the Fluor Hanford team of companies, to provide armed protective forces to the Hanford Site for the Department of Energy. The Hanford Patrol's primary mission is to ensure that special nuclear material is protected according to DOE guidelines. The Hanford Patrol is also charged with protecting government property and classified information and safeguarding the lives of all site personnel.

Applicants must be at least 21 years old, have a valid driver's license, obtain and maintain a DOE-Q level security clearance and remain eligible as a Personnel Security Assurance Program employee. Applicants must pass a physical standards test consisting of a one-mile run in eight minutes and 30 seconds or less and a 40-yard prone-to-running dash within eight seconds.

Selected applicants will be invited for the physical standards test to take place July 25, at the Hanford Patrol Training Academy and the Volpentest HAMMER and Education Center. Individuals who pass the test will participate in an oral interview. Successful candidates will then be placed on an eligibility list to be maintained for future openings for up to one year. ■

## Hanford XP Migration Project update

### Word 2002 — the new look of ‘Track Changes’

Using the “**Track Changes**” feature in Word 2002 allows you to make revisions to a document without losing the original text. As Word tracks changes, it shows new text in a different color from the original text and uses revision marks such as underlines to distinguish the revised text from the original. As a default to preserve the layout of your document, Microsoft Word 2002 also identifies the change and its type, such as a deletion, in a balloon that appears in the margin of the document.

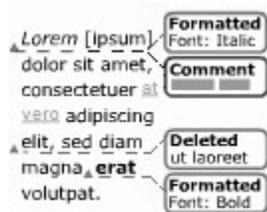
If you do not like the balloon feature, you can turn it off by following these steps:

- In Word, click on **Tools**, then **Options**.

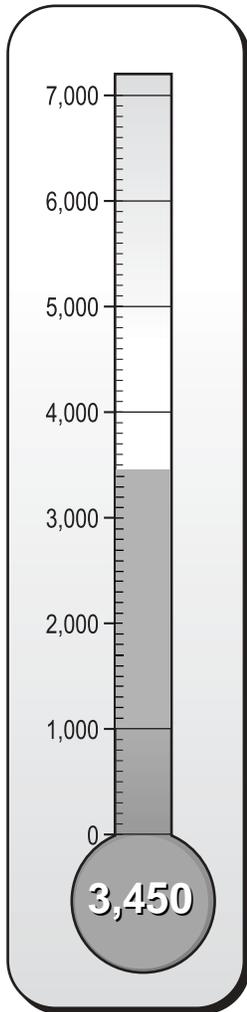
- Click the **Track Changes** tab.

- Under **Balloons**, uncheck the box titled “use balloons in print and web layout”.

This will show all markup directly within the document.



HLAN computers currently running Windows XP



### Viewing changes

You can view all markup changes in your document, or you can limit the kind of change that’s displayed. The **Show** menu on the **Reviewing** toolbar lets you to display only a specific type of change, such as only insertions and deletions, providing you the ability to concentrate on a specific type of change. The **Show** menu option also provides you with the choice to display comments and changes based on a specific reviewer.

You can also change how Word 2002 displays markups by clicking one of the **Display for Review** settings on the **Reviewing** toolbar. By changing this setting, you can preview a document with changes before you actually accept or reject those changes. The options are the following:

- **Final Showing Markup** — Shows deleted text in the balloons, while inserted text and formatting changes are shown inline.
- **Final** — Allows you to see how the document would look if you accepted all changes.
- **Original Showing Markup** — Shows the inserted text and formatting changes in the balloons, while the deleted text remains inline.

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# Hanford XP Migration Project update

- **Original** — shows the original, unchanged document so that you can see how the document would look if you rejected all changes.

**CAUTION:** You should **ALWAYS** review your document and accept or reject all changes before publishing the document. This will help ensure the document is viewed as it was intended. Not only are there several reviewing settings within Word 2002 to display the document, but there may be slight differences in the way different versions of Word display a document with **Track Changes**. It is also best to accept or reject all tracked changes to help prevent unwanted text, such as sensitive information that may have been deleted, from being displayed in a document.

Previous versions of Word have a view for tracked changes that allows you to view the document in a finalized state (e.g., all deletions hidden, new additions not marked up) with only sidebars in the margin to indicate a change. Word 2002 does not have this same viewing capability. Users are given the ability to turn on the side bars, but the revisions continue to be displayed within the document.

For more information on the Word 2002 Track Changes feature, search on “tracked changes” in Microsoft Word Help. ■

XP Project Home Page	<a href="http://www.rl.gov/xp">http://www.rl.gov/xp</a>
XP Application Testing Matrix	<a href="http://www.rl.gov/xp">http://www.rl.gov/xp</a> under the “APP Testing” tab
XP Project Mailbox	^Windows XP Project

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To schedule group brown-bag sessions, call 373-9155.

## Make Your Move



### Answers to last week's quiz

Here are the answers to the quiz that followed the article "For exercise injuries, have some R.I.C.E.," which appeared in the June 16 issue of the *Hanford Reach*.

1. R.I.C.E. stands for rest, ice, compression and elevation
2. The purpose of R.I.C.E. is to reduce swelling caused by blood flow and fluid accumulation.
3. The materials you need for R.I.C.E. are cold compresses or ice, towel, pressure bandages and tape.
4. R.I.C.E. is used for injuries such as sprains, strains, muscle pulls and bruises.

## WORD FIND INSTRUCTIONS

Circle the words listed below in the word find on the next page. Words may run horizontally, vertically or diagonally.

Cut out the completed puzzle; add your name, employer and Hanford identification number; and mail to Judi Staley, HEHF Health Education Services, H1-04.

The completed word find is worth 8 points for "Make Your Move" participants.

### WORDS TO LOCATE

flexibility	meditation	lifestyle
relax	relationship	food
cool down	social support	fad diets
yoga	fruit	comfort
goals	variety	pets
strength	family	walk
aerobic	warm-up	talk
spinning	vegetable	spouse
running	breakfast	friend
self-esteem	snack	health

## Physical activity helps push back the effects of age and an inactive lifestyle

Are you a little bit, or maybe a lot, past middle age? Or will be soon? Well, there's good news. When those of us who are getting up in years begin an exercise program, we have the brightest outlook for improvement of all age groups. New discoveries of the benefits of exercise, even in the elderly, are coming in thick and fast.

### Exercise benefits

Among the benefits of exercising as you age are the following:

- Lower risk of heart attack
- Better ability to ward off blood clots
- Lower risk of diabetes
- More energy
- Better balance
- Better strength
- Less bone loss resulting from osteoporosis
- Greater flexibility
- Prevention of obesity (weight control)
- Better cholesterol count
- Lower cancer risk.

**NOTE:** If you experience difficulty breathing or chest pains while exercising, stop immediately and consult your health-care provider.

*Continued on page 8.*

**Make Your Move wordfind**

A U J B F A L I F E S T Y L E P V  
I R K K E T Z A O E P C U R Z A C  
C H L B J Q D S O B I D G Z T S S  
G A C F D D C Y D B N N O Y T E K  
T S R L I T O D O X N W H R X L B  
R V D E F I C R P M I O E U P F H  
O L T X L P E H K J N N A N I E R  
F S F I E A B N A N G J L N H S J  
M V W B D F X W N T R M T I O T B  
O Z A I C G S M H L K D H N W E R  
C O O L D O W N Z L V E L G L E E  
H Y Q I G G X E A C B S M P L M A  
W V G T U F H W D C F O K A I G K  
A E I Y O G A U T F K C T B Q Q F  
R X U T X O E Y J F R I E N D A A  
M E D I T A T I O N O A J J S L S  
U L W F R L D Z K N L L N P M P T  
P B T E E S Y S S C O S O T V I M  
S A X Q R V L H L F I U K R A Z A  
Y T U D X F I J U V S P Y G R W T  
H E U R I P M K Z E W P S M I N N  
V G Z G O P A H M T K O N L E S Y  
R E P Q B W F X A M F R U I T A X  
Q V L P C O N S B P E T S L Y O H

Submitted By \_\_\_\_\_

Hanford ID No. \_\_\_\_\_

Employer \_\_\_\_\_

## Make Your Move

### Physical activity helps push back the effects of age, cont.



In fact, many of the infirmities of age are caused not by the aging process, but by our inactive lifestyle. This means that we can reverse many of the effects of aging. Exercise can push back your functional age 10 to 25 years.

Which signs of “aging” would you like to reverse?

- Decreased endurance
- Increasing blood pressure
- Increased body fat
- Stiff muscles and joints
- Loss of muscle strength
- Fragile bones
- Fatigue

## Start Slowly

If you’re beginning an exercise program, ask your doctor or fitness professional for guidelines on how much exercise is safe for you. The safest exercise to start out with is walking.

Keep these pointers in mind:

- While vigorous exercise is desirable, even exercising at 35 percent of your maximum capacity gives benefits.
- When doing strength training, stay with low-resistance, high-repetition training. For instance, in weight training, lift smaller weights more times.
- Be extra careful to avoid over-training. The resulting injuries could put an end to your exercise program.
- Exercise at the lower end of your target heart range. (If you’re breathing so hard you can’t talk, you’re exercising too hard).

## Make Your Move

# Tough training regimen prepares Hanford Patrol

Chances are that, if you are a Hanford employee and can run a mile in 8 minutes and 30 seconds or less, you are a Hanford Patrol security police officer. Not many other jobs on site have the stringent physical requirements that the Hanford Patrol demands of its members.

So how do these men and women stay in shape to meet these requirements? Once in the Patrol, they exercise to maintain and further develop the physical abilities they had when they were recruits. And all of the more than 200 members of the Hanford Patrol, from the youngest in their early twenties to the oldest in their early sixties, must stay in shape and pass the physical-fitness exams annually.

Hanford Patrol has two officer grades on site: Security Police Officer 3 and Security Police Officer 2. Both grades have to be able to respond to emergencies, and federal regulations mandate that the officers be allowed time during working hours to exercise. Among the other physical requirements is the one-mile run to be completed in 8 minutes and 30 seconds for SPO 3, and the half-mile run to be completed in 4 minutes and 40 seconds for SPO 2. Another tough requirement is the 40-yard dash, which must be completed in 8 seconds for an SPO 3 and 8.5 seconds for SPO 2. No sweat, you may say, but Hanford Patrol officers have to start that dash from a prone — lying on their stomachs — position.

“It’s tough to become a security police officer,” said Captain Jerry Rodgers, fitness coordinator for the Hanford Patrol. The background checks, interviews and physical requirements serve to narrow the ranks of recruits considerably.

Rodgers works with recruits at the Hanford Patrol Academy to teach them the principles of a good exercise program during a six-to-eight-week training session, similar to a military boot camp or basic training. Once they become security police officers they are responsible for keeping up their exercise program and training. From then on, they join the ranks of the Hanford Patrol whose fitness Rodgers helps monitor.

Hanford Patrol maintains four exercise facilities in various locations on the site, in addition to the largest and most well-outfitted facility at the Hanford Patrol Academy. In these facilities, the treadmills, stationary bicycles, weights, “Stairmasters” and heavy bags provide the equipment to help the SPOs maintain the aerobic exercise and strength training that allows them to do their jobs. Some of the officers train outdoors, too. A sign on the road leading to the Hanford Patrol Academy warns drivers to be on the lookout for joggers.



**Hanford security police officers train in a team event involving an “officer down” scenario with shooting. Teammates run with a 190-pound dummy from one range to another.**

*Continued on page 10.*

## **Tough training regimen prepares Hanford Patrol, cont.**

Although they train for their allotted time during working hours, at any time during the day you can find SPOs training in the facilities after or before their shifts as well.

“Many of the security police officers work hard on their training after hours,” said Rodgers. “They log onto any computer workstation onsite to record their training time.”

Rogers has trained with each new group of recruits since 1991 when he started working with Hanford Patrol. He is a health fitness instructor certified by the American College of Sports Medicine.

Security police officers undergo regular training that puts their physical abilities to the test. Running obstacle courses in full gear, and testing marksmanship under a variety of conditions and in combination with obstacle courses, measure strength, endurance and performance under physical stress.

Although most of us will never need to cover a mile in eight-and-half minutes, aren't you glad that the security force that is charged to protect special nuclear material, government property, classified information and all of us is working hard to stay fit and do their jobs? ■

# Hanford Patrol officers earn high marks in competition

Members of the Hanford Patrol team participated in the Department of Energy's annual Security Police Officer Training Competition held in Albuquerque, N. M., June 2-5. The team competed against other DOE sites and DOE contractors, including Savannah River, Pantex, DOE Idaho and Rocky Flats. The Hanford Patrol continued its record of success in team and individual events.

Security police officer Scott White brought recognition to Hanford by being named Security Police Officer of the Year. This is the second time he has earned the prestigious title, which is based on individual performance in six skill competitions.

Competitive events involved activities such as hostage rescue scenarios, tactics, shooting with the gas mask on with both pistol and rifle, shooting at moving and steel targets and plates, and tactical decision-making.

"We are extremely proud of Scott's performance," said Al Bowser, general manager for Protection Technology Hanford's Safeguards and Security. "It is indicative of the quality of training he receives from the Hanford Patrol training staff and of the capabilities of the rest of the protective force."

Micah Clark also placed in the top 10 in the individual competition and Robert Morrow, the team captain, placed first in the supervisor competition.

The Hanford team placed sixth out of 12 teams in this grueling competition comprising five events. The events are designed to be difficult, and the tactical shooting courses change each year to make the course unpredictable for competitors from previous years. The objective of the competition is to make the course physically exerting to test the officers' ability to do well under physical stress. Adding to the physical stress this year was the altitude — Albuquerque is located on a plateau at an elevation of nearly a mile.

Team members were SPOs Scott White, Ralph Bell, Micah Clark, Cary York and Dodd Coutts. The team captain was Lt. Robert Morrow and the team coach was Capt. Sam Hernandez.

"This recognition is a source of pride for the whole site, as it highlights superb discipline, training and professionalism," said Keith Klein, manager of the DOE Richland Operations Office. "It's too easy to take for granted the skills of the Hanford Patrol as well as many other services around here such as the fire department, emergency services, fab shop, and others, and it shouldn't take a major award to remind us all of the critical work these folks do." ■



**Robert Morrow, team captain for Hanford competitors in a DOE contest earlier this month, fires a pistol in an individual event.**

# Liquid waste moved to stabilize Hanford facility

With the removal of thousands of gallons of radioactive and hazardous waste, the Department of Energy and CH2M HILL Hanford Group are one step closer to stabilizing a facility that was once used to transfer waste between nuclear-materials processing buildings and large underground waste tanks at the Hanford Site.

Earlier this month, CH2M HILL crews pumped approximately 18,000 gallons of radioactive and hazardous waste from the facility, known as the 244-AR Vault, into Hanford's double-shell tank system. Transferring the liquid waste out of the vault is important to reducing the risk the facility currently poses to the environment.

"Removing the liquid waste from this aging facility is important to reducing the risk that waste could potentially leak into the soil," said John Swailes, the DOE Office of River Protection's assistant manager for Tank Farms. "Pumping out the liquid waste also sets the stage for interim stabilization of the vault, a Tri-Party Agreement milestone to be completed by Sept. 30."

Built between 1966 and 1968, the 100-foot-long, concrete-walled 244-AR Vault was used until the early 1990s to ensure safe waste transfers between Hanford facilities that processed irradiated nuclear fuel — specifically the Plutonium Uranium Extraction facility and B Plant — and the Hanford tanks. Sodium hydroxide was added in the 244-AR facility to make the waste from the processing plants less acidic so it wouldn't corrode the steel walls of the tanks.

Years of past processing history and water intrusions into the facility left 19,000 gallons of liquid in four different tanks in the facility and in a secondary containment system. The 244-AR cleanup project focused initially on consolidating that waste into one of the facility's tanks. Sampling was done to verify that the 244-AR waste was compatible with the double-shell tanks before it was transferred.

Work to complete interim stabilization of the facility will include plugging transfer lines and drains to prevent runoff water from entering the vault. ORP and tank-cleanup contractor CH2M HILL Hanford Group are stabilizing the facility so it can be closed, while continuing cleanup efforts on Hanford's 177 large radioactive waste tanks. ■

# T Plant at 60 years — where Hanford's past, present and future meet

T Plant, the oldest nuclear facility in the world that still performs an active function, celebrates its 60-year anniversary this month. A luncheon for facility personnel and invited guests is planned to commemorate the groundbreaking for the plant on June 26, 1943, as well as T Plant's rich history since then and its continuing contributions to Hanford Site missions.

"I extend my heartfelt congratulations and thanks to current and past T Plant personnel for a long history of contributions to our nation," said Dale McKinney, acting director of Fluor Hanford's Waste Management Project.

"T Plant is a survivor of significant changes in assigned functions, operational requirements and culture over the past 60 years," McKinney said. "Every era, including the present, has brought its share of challenges and issues. We will continue to meet our challenges, and we will continue to make contributions to our current mission — Hanford Site closure."

## A renowned history

T Plant was the first and largest of the early chemical-separation-plants at Hanford, a crucial link in the first full-scale plutonium-production operation in the world's history. As the home of "step three" in the production process, the T Plant canyon was the original bismuth-phosphate separation facility, serving as the

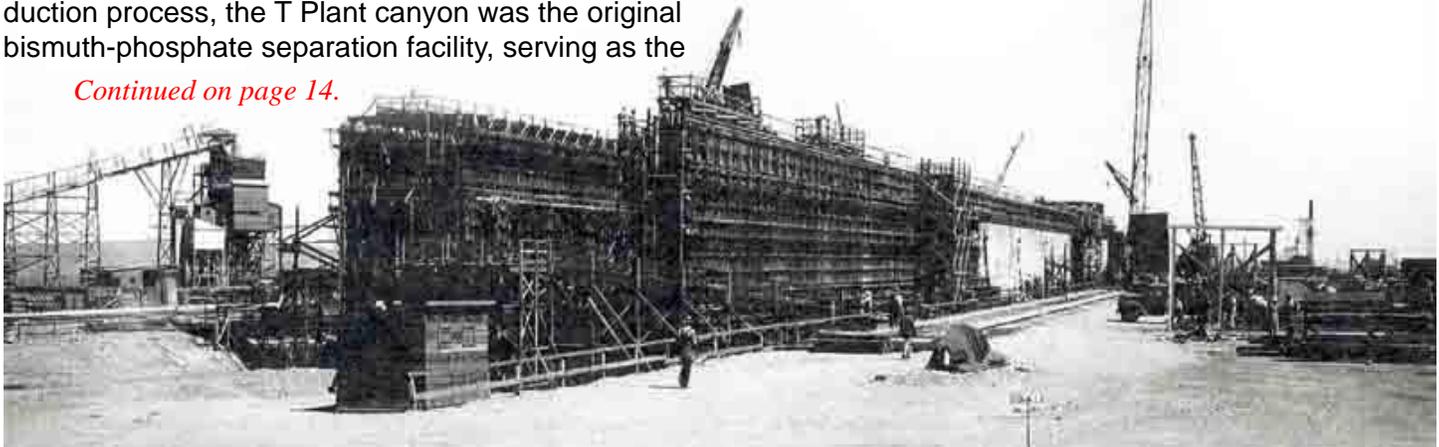
*Continued on page 14.*



T Plant workers test an apparatus used to take headspace gas samples. Doug Smith has the clipboard, and Jim Dudley works on the drum.



T Plant workers conduct waste verification at 2706-T. Verification is one of a variety of waste-processing services performed at the facility.



Ground was broken for T Plant on June 26, 1943. It was the first and largest of Hanford's early chemical-separation plants, and now it's the oldest nuclear facility in the world still performing an active mission. Other workforce priorities slowed construction for the first six months, but the pace then quickened enough to allow some operations to start in September 1944.

## T Plant at 60 years, cont.

headquarters for chemical-processing operations from construction until the opening of the REDOX plant in 1952.

After the groundbreaking in June 1943, manpower for 200 Area construction was in short supply, and work moved slowly toward the goal, which was stated as “completion 30 days after the completion of the 100B Area.”

In the fall, workers were diverted to Camp Hanford housing needs. The “construction hold” ended in November, and the construction workforce returned to normal assignments. The crane for transferring irradiated slugs from railroad cars to the dissolvers arrived early and was installed to aid construction.

Some operations began by September, but design changes, dry runs and construction “finish work” continued through 1944. T Plant processed the first batch of irradiated fuel rods from B Reactor Dec. 26-27, 1944, and continued to operate in a production capacity until 1956, when it was converted to a decontamination facility.

Decontamination operations were the primary mission for T Plant from 1956 through 1990. In more recent times, the plant has continued to provide waste container processing services to the Hanford Site. The facility is still capable of decontaminating a wide range of equipment, from small components dipped into thimble tanks to steam-cleaning of rail cars and truck-sized vehicles. The T Plant staff has also been assigned special missions from time to time, including operations on components from the Three Mile Island reactor accident.

## Waste processing

Several types of waste-processing activities are conducted at T Plant to support the eventual closure of the Hanford Site. T Plant workers segregate, treat, repackage, verify and store contact-handled waste in boxes and drums. Treatment processes consist of adding sorbent or grout material to the waste matrix and neutralizing or amalgamating mercury with other metals. Workers can also macroencapsulate equipment and debris at the plant.

In addition, headspace gas sampling performed at T Plant contributes to Hanford’s increased ability to prepare transuranic waste to be shipped to the Waste Isolation Pilot Plant in New Mexico for permanent disposal. Drums of TRU waste are moved to T Plant for headspace gas sampling after assay and examination at the Waste Receiving and Processing facility. The drums are prepared for sampling by being placed in a heated environment for three days. Then they’re sampled for volatile organic compounds to confirm that the waste meets the acceptance criteria for shipment to WIPP.

Headspace is the area between TRU-contaminated debris in a drum and the drum lid. To sample the gases in that space, a needle is inserted through the drum’s one-way vent filter, a specialized opening at the top of the drum. Then the vent filters are replaced and the drums are moved back to the Central Waste Complex, the hub of Hanford’s TRU-waste preparation mission. Fully characterized drums are collocated so they can be efficiently moved to WRAP when it’s time to load them into WIPP shipping containers.

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**T Plant is a survivor of significant changes in assigned functions, operational requirements and culture over the past 60 years.**

Dale McKinney, acting director,  
Fluor Hanford Waste Management Project

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*Continued on page 15.*

## T Plant at 60 years, cont. 2

The headspace gas samples taken at T Plant are sent to a WIPP-certified analytical laboratory, typically Hanford's Waste Sampling and Characterization Facility. As a result of accelerated TRU characterization, T Plant is currently capable of processing 72 drums per week, whereas the previous rate was 18 per week.

### Spent-fuel sludge storage

After a major two-year effort to clear the 221-T Canyon of radiologically contaminated debris and equipment, T Plant is ready to receive and store sludge from the K Basins — a mixture of small fuel particulates, dust, dirt and water generated by fuel corrosion. The plant, which is about eight miles from the Columbia River, was selected as the storage location for K Basins sludge until further treatment plans are finalized.

Eight process cells and 15 sections of canyon deck in the 850-foot-long T Plant canyon were cleaned out to prepare for storing sludge. The job required removing and disposing of 30,000 cubic feet of waste, including six PUREX towers, 19 large pieces of equipment and 145 empty drums. The effort reduced contamination levels, improved working conditions in the canyon and got four underground cells ready to receive sludge.

Specialized sludge-containment equipment was installed in four cells by August 2002. In each cell, a free-standing steel liner, integrated with a metal storage rack and a leveling frame, will hold up to six sludge containers. T Plant completed all readiness preparations in April and is awaiting the first shipments of sludge from the Spent Nuclear Fuel Project. Sludge operations are scheduled to begin in August.

### Shippingport fuel removed

Since the late 1970s, a water-filled cell at T Plant has stored spent nuclear fuel from the Shippingport, Pa., Atomic Power Station, the world's first nuclear power plant to produce electricity. The Shippingport fuel represents Hanford's second-largest collection of spent nuclear fuel. In addition to preparing the facility for storing sludge, workers are moving the Shippingport fuel out of T Plant and into dry, interim storage at Hanford's Canister Storage Building until it's time for permanent disposal.

The Shippingport fuel comprises 72 fuel assemblies, representing nearly 16 metric tons of irradiated uranium. The "blanket" fuel assemblies are of a different design than those at the K Basins. The canisters the fuel assemblies are being placed into have the same outer shape and size as those used for the K Basins fuel, and both types of fuel canisters were manufactured by the Joseph Oat Company of Camden, N.J.

The Shippingport fuel is also being moved on the same specially designed trailers used to move K Basins fuel into dry interim storage, and the Waste Management and Spent Nuclear Fuel projects coordinate the use of the trailers. The first of 18 planned shipments of Shippingport fuel took place in September, culminating several years of planning and preparation. Eight shipments have now been completed.

### Crane links past, present

Most canyon operations, including receiving sludge, packaging waste and removing fuel, depend on the



Shippingport fuel is removed from the water-filled pool at T Plant by a modern grapple attached to a 1938-vintage crane (not shown). Eight of 18 planned shipments have been made to move the fuel out of T Plant and into dry, interim storage.

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## T Plant at 60 years, cont. 3

221-T canyon overhead crane. The crane, like T Plant itself, tangibly links the past, present and future. Built in 1938 and installed in 1943, the canyon bridge crane is still being used in 2003.

Operated by master crane operators seated in a cab behind a thick concrete wall, the crane rides along rails the entire length of T Plant above the canyon deck. Operators Mike Yencopal and Wayne Gentry take turns at the controls in the cramped, lead-lined, windowless cab, viewing through a series of no-longer-manufactured periscopes of the type used in World War II bombers. They sight through a series of mirrors located at right-angle bends in the periscopes that snake down from the cab, up and over the canyon shielding wall and down to the crane. Gentry described it as being “like working through an optical illusion,” and Yencopal said it’s “like running a crane through binoculars.”

The operators lower the crane hook nearly 40 feet to within a half inch of the canyon deck and have developed the skill to stay within tolerances of as little as three-eighths of an inch while placing a Shippingport fuel assembly into a canister. A very modern, remotely operated, six-foot-long fuel-removal grapppler is critical to the operation. The 21st-century grapppler and the 1938 crane work together to lift fuel from the pool into canisters — the modern grapppler suspended from the vintage crane hook.

### Workday challenges

Dave Levinskas, project support manager, provided insight into the day-to-day challenges at T Plant. “The amount of cleanup performed in the canyon takes on a whole new meaning when you recognize the conditions under which the work is accomplished,” Levinskas said. “Because of the past production and decontamination missions, some canyon areas still have high levels of removable surface contamination, airborne contamination and general area radiation.

“Personnel working in the T Plant canyon have to use two layers of anti-contamination protective clothing and must also wear respiratory protection. There are no heaters or air conditioners in the canyon. In winter, workers appreciate the extra layer of protective clothing, but in the summer it can get hot. Workers have to take extra precautions, like limiting stay times and using cooling vests, to ensure the work gets done safely.”

### Continuing mission support

T Plant anticipates continuing its support of Hanford Site closure activities. And T Plant is also considered a prime candidate for a future mission to process remote-handled transuranic and mixed waste. ■

# Computer users get help creating 'good' HLAN passwords

## Guidelines for creating your HLAN password

- Use at least eight and not more than 14 non-blank characters.
- Use a combination of letters, numbers, and at least one special character within the first seven characters. A special character is one that can be typed on the keyboard, is visible when typed and is not a number or letter.

The list includes: ~!@#\$%^&\* ()-\_=+[{]};:'",< .>/?

- Don't use a number for the first or last character.
- Don't use personal information such as names, nicknames, birthdays, or HLAN ID numbers.
- Don't use any word that is found in the dictionary for any language.
- If you have a password for a classified system, make sure this one is different.

Standard computer-security practices require that networks and information systems have and use a password method to confirm the identity of each person accessing the system. Whenever possible, passwords for access to computer resources at the Hanford Site are required to satisfy the security guidelines, which are listed here (see sidebar) and are discussed in HNF-RD-11626.

Until now, users have been primarily responsible for making sure their own passwords satisfy these guidelines, with little assistance provided by the system.

To improve the security of the Hanford Local Area Network and help users better apply the password guidelines, new network software will be installed on Tuesday, July 1. Once activated, the new software will help users create correctly formatted passwords. Users will notice the new "help" feature the next time the network asks for their passwords to be updated (every six months).

Recent studies indicate that potential intruders value a password far more than the single computer it's protecting. A hacker who can get the password from a server or personal computer can use that password to gain access to other computers on the network, bypassing all the high-tech security installed to keep them out. In fact, some viruses and worms send an infected computer's password file back to the creator.

For information on the correct construction of passwords, contact Computer Technical Services at 376-1234 or refer to the article "Network Passwords" on Hanford User Help (HUH) at this Web site: <http://apweb02.rl.gov/huh/display.cfm?id=244&back=index+for+n>.

An excellent way to create a secure password that's easy to remember is to start with a word, and then change some of its letters or intersperse it with numbers and special characters. For example, if the starting word is "spangled," the following passwords based on this word satisfy the security guidelines for passwords: **Sp&9gle.**; **\$5a#gl3d**; and **Sp\_a-n6l\*d**.

Another way to construct an easily remembered password is to start with the first letters of the words in a song, poem or book. For example, using the first line of our national anthem, "Oh, say can you see, by the dawn's early light" gives oscysbtdeI as the starting point for the following secure passwords: **O\$cysb2d2I**; **%7cys[tde!**; and **Qsc4\$,btd=I**.

If you have questions about the construction of network passwords, contact CTS. Note that you will be unable to use any of the passwords given as examples above. ■

# VPPPA executive director visits HAMMER

Paul Villane, executive director of the Voluntary Protection Program Participants' Association, toured the Volpentest HAMMER Training and Education Center May 8. Villane was in the Tri-Cities for the VPPPA Region 10 Conference and the annual Hanford Health and Safety Expo. In conjunction with the VPPPA conference, HAMMER offered OSHA fall-protection and homeland-defense training at its main campus

During his tour of HAMMER, Villane said he was especially impressed with the way HAMMER's hands-on props, instructor worker program and union-management partnership enhanced the quality training provided at the facility. He congratulated HAMMER and Hanford Training employees and members of the instructor worker program on being awarded VPP Star status. HAMMER has the distinction of being the only training facility in the United States to have been awarded the VPP Star flag.

VPPPA is a leader in safety, health and environmental excellence through cooperative efforts among labor, management and government. The association works closely with the Occupational Safety and Health Administration, the Department of Energy and the Environmental Protection Agency to develop and implement cooperative programs within the agencies. VPPPA provides expertise to these groups in the form of comments and stakeholder feedback on agency rulemaking and policies. The association also offers comments and testimony to members of Congress regarding legislation on safety and health issues.

VPPPA member organizations include more than 900 companies and work sites — both applicants and mentors — involved with the OSHA Voluntary Protection Program or the DOE Voluntary Protection Program application process.

In his closing remarks, Villane said he intends to invite John Henshaw to visit HAMMER. Henshaw is assistant secretary of Labor for Occupational Safety and Health. ■



**Greeting VPPPA executive director Paul Villane with a handshake is Fluor Hanford's Karen McGinnis, director of HAMMER and Hanford Training. At left is Dave Jackson, Fluor Hanford director of Occupational Safety and Health, and looking on at right is Stephen Brown of VPPPA member company Potlatch Corporation of Idaho.**

# Skills Enhancement Lab offers help to improve basic skills

## July classes

The Skills Lab will offer half-day sessions on punctuation, grammar, business writing and spelling during July from 7:30 to 11:30 a.m. in room 31 of the Volpentest HAMMER Training and Education Center Administration Building. There is no charge for any of the following sessions, but seats are filling rapidly, so reserve space now by calling Kathy Dechter at 376-3250:

- **Painless Punctuation** — Tuesday, July 15. Cure comma-itis; use colons and semi-colons properly; handle exhausted apostrophes; tackle the lowly hyphen; review fragments, comma splices and run-ons; and review must-know key rules.
- **Successful Business and Technical Writing** — Thursday, July 17. Learn how to structure a document for impact, pinpoint audiences, identify purposes, organize information clearly, eliminate gobbledygook, and edit your own and others' work. Produce clear and readable documents. Suggested prerequisite: Painless Punctuation.
- **Goof-Proofing Your Grammar** — Tuesday, July 22. Learn to fix the most frequent grammatical goofs — pronoun problems; mangled modifiers; easily confused words; proper use of who/whom, lie/lay, bring/take, who/which/that; pronoun-antecedent agreement; subject-verb agreement; and parallel phrasing.

The Skills Enhancement Lab is a partnership of the Department of Energy, Columbia Basin College and the Volpentest HAMMER Training and Education Center operated by Fluor Hanford. The Skills Lab helps workers improve their reading, writing, math and spelling skills, and is open from 12:30 to 4:30 p.m. on Tuesday and Thursday afternoons. At the lab, experienced CBC faculty members work privately with each student. They use workplace materials, texts, software programs, videotapes and audiotapes to match each person's learning style.

Tutoring is available in reading comprehension, speed-reading, spelling, vocabulary development, grammar, writing, communication, test-taking skills and math. No tuition is charged for the lab's services. Services are entirely confidential and open to Hanford Site workers. Employees attend with their supervisors' permission and when their work schedules allow. Though hours are flexible, a minimum commitment of one to two hours per week is recommended. For further information on the Skills Lab or to sign up for any of the sessions, call Kathy Dechter at 376-3250.

Another service available to Hanford workers is skills assessment. The Skills Lab staff members perform assessments by appointment only on Tuesday or Thursday afternoons at the Skills Lab in the Learning Resource Center, room 4 in the HAMMER Training Building. The following assessments are available:

- **Adult Basic Skills Diagnostic** — Are your basic math or verbal skills rusty? Does your written work need improvement? To see how your basic skills measure up, the Skills Lab is offering a brief standardized survey of adult basic reading, writing, math and grammar skills. You can choose to take either or both the math and verbal portions. Then, after the assessment is scored, schedule a private conference with a CBC faculty member at the lab to discuss your results and learn simple ways to brush up your skills—either by using the Skills Enhancement Lab or on your own.
- **Learning Styles — Left-Brain/Right Brain Inventory** — Do you struggle to retain and master new material on the job? Have you noticed that different people prefer different learning styles? Studies show that we learn and remember more efficiently when we take advantage of our preferred learning style. Often a few minor changes to our thinking, writing and studying processes can make a startling difference in how well we process and retain information. The Skills Lab offers this learning styles Inventory to help you maximize your study potential. After you take the assessment, CBC faculty will discuss ways to apply the information to your workload.

*Continued on page 20.*

## July classes, cont.

- **Successful Spelling** — Thursday, July 24. Review common spelling demons and learn to spell them correctly. Master the Terrible Ten — the 10 most often misspelled words — and clarify commonly confused words. Learn crucial key rules for spelling more than 4,000 words correctly. Get memory tricks to help you remember what you learn.

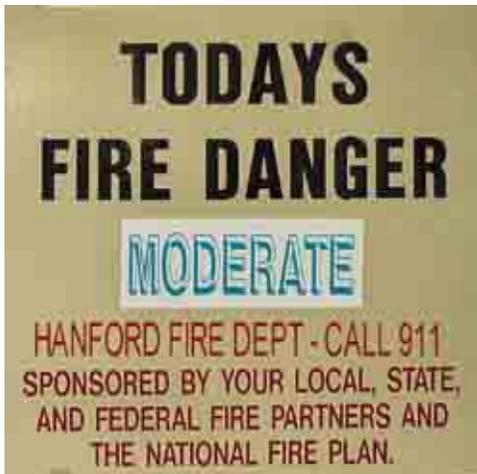
## Skills Enhancement Lab offers help to improve skills

- **Gregg Reference Manual Diagnostic** — Those who want to master a specific area of punctuation, grammar or capitalization can arrange to take a diagnostic assessment based on the *Gregg Reference Manual*, a well-respected handbook used on the Hanford Site and by major corporations across the United States. This test is an excellent way to polish your skills in commas, quotation marks, hyphens, semicolons, bullets and capitalization.

- **Vocabulary Diagnostic** — There are more than 700,000 words in the English language, and no one ever knows them all. Beyond the 50,000 to 100,000 words needed for average adult communication, you'll have to determine which words you need to actively use (or at least passively recognize) according to your own current interests and priorities. This brief assessment will help you determine a course of action for steady vocabulary improvement.

There is no charge for any of the assessments, and all information remains confidential. To schedule an appointment for any service, call the lab at 376-3250. ■

## NEW SIGN



The fire-danger rating will notify employees in a manner that is consistent with other fire departments and federal wildland agencies.

## OLD SIGN



The old three-level fire-danger reporting signs will be replaced with the new signs pictured at the top of the page.

# Hanford's signs for rating fire danger will change

The familiar signs used on the Hanford Site to rate fire danger will soon be changed to be consistent with the fire-danger reporting mechanisms used by other area fire departments and federal wildland fire agencies.

The current three-level system — low, moderate and extreme — will be replaced with the five-level system that has been used in state and national forests for many years. The new fire-danger ratings will include low, moderate, high, very high and extreme.

Within the next few days, the new signs will be placed along high-traffic roadways on site — Route 4S near the 300 Area, Route 10 near the LIGO turnoff, the Rattlesnake Barricade access road, and Route 11A inside the Yakima Barricade.

To determine the wildland fire danger on the Hanford Site, the Hanford Fire Department will take several factors into consideration and use the National Fire Danger Rating System. These factors include current and forecasted weather, weather history, fuel types, terrain, fuel moisture and fire history to scientifically determine the fire-danger rating. The fire-danger status will be evaluated weekly and the signs will be adjusted accordingly.

Because of the light, fast-burning fuels that are prevalent in this area, the ratings will remain at high or above between June and October. The restrictions on off-road travel and high-fire-danger activities that took effect when the rating reaches "extreme" under the old system will now take effect when the fire danger is at "high" or above under the new system.

Contact the Hanford Fire Department at 373-1311 for more information on this new fire-danger rating system. ■

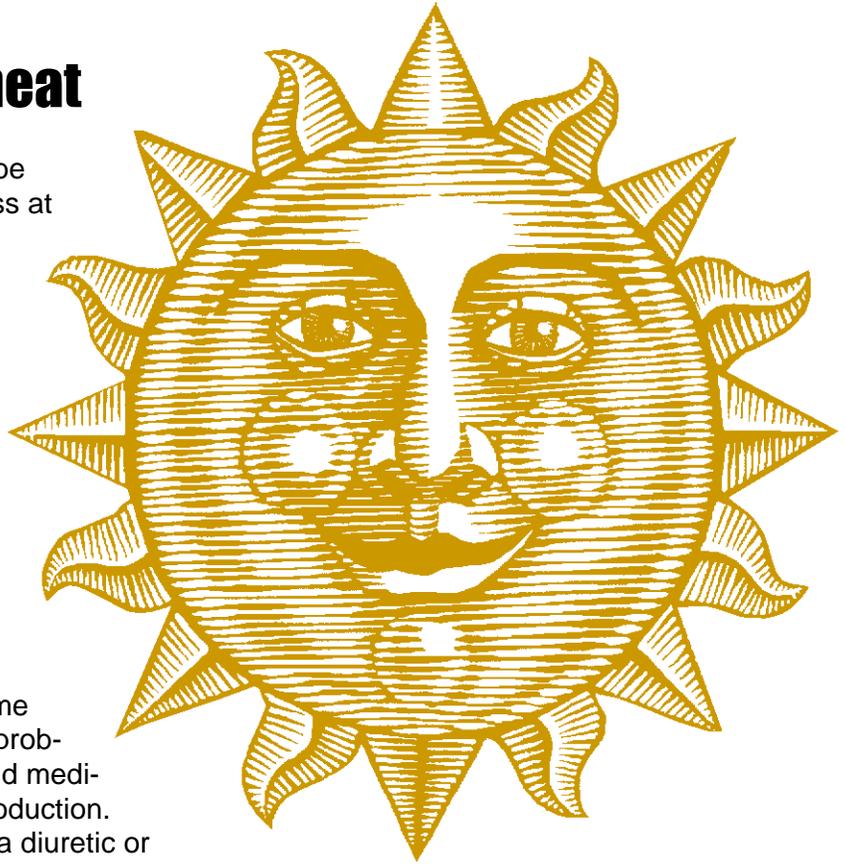
# Medications affect your ability to deal with heat

As the summer season begins, we need to be mindful of the steps to take to avoid heat stress at work and at home. Many of these steps are pretty obvious, such as wearing proper clothing, drinking plenty of fluids — especially caffeine-free fluids— and taking breaks to cool down (“Hot tips for a cool summer,” *Hanford Reach*, June 16). But did you know that medications, even over-the-counter medications, may affect the body’s ability to deal with heat stress?

If you are taking prescription medications, you should check with your physician or pharmacist concerning possible interferences with your body’s heat-regulating systems. Some non-prescription medications can also cause problems. Prescription medications, such as thyroid medicine, can increase your body’s rate of heat production. Others can decrease a person’s thirst, act as a diuretic or reduce your body’s ability to sweat.

Brand-name medications that may reduce your body’s tolerance to heat include Robitussin-DM, sudafedrin, ephedra, Drixoral, Actifed and Benadryl, to name a few.

If you are taking a medication, be aware that it may affect your ability to tolerate heat. Always be alert for signs that your body is having difficulty adjusting to heat-stress conditions. These symptoms may include increased heart rate, high body temperature or the inability to sweat. If you have any questions about heat stress and medications, talk to your doctor, manager or health-and-safety representative. ■



## Picture Pages



**UNLOADING THE BIG STUFF:** A new heavy-duty lift crane from Lampson International of Kennewick unloads a pair of stainless-steel vessels, each weighing 60 tons, destined for Hanford's Waste Treatment Plant being built by Bechtel National. The two vessels will receive tank waste inside the WTP's pretreatment facility. They arrived June 16 by Tidewater barge from Portland-based vendor Northwest Copper, and were loaded onto large flatbed trucks for delivery to the WTP construction site. This delivery was the first of about 70 shipments of huge pieces of equipment for the project, none of which will present a problem for the new Lampson crane — it can lift up to 600 tons.

**NATURE'S HELPERS:** Bechtel's Devan Clements (left), Tri-City Visitor and Convention Bureau's Tana Bader Inglima, Bechtel's Kuleen Patel, CH2M HILL's Jim Sharpe, and Bechtel's John Arnold and Gretchen Green get into their work on a Saturday morning earlier this month to dig footings for the construction of a kiosk at the Chamna Natural Preserve in Richland. The Chamna Project is part of Bechtel's commitment to community involvement and its rivershore-enhancement partnership with the Tri-Cities Visitor and Convention Bureau. The partnership began in 1998, and legacy projects have included the Family Fishing Pond, the Playground of Dreams and restoring the natural habitats of Chamna and Bateman Island.



**SIGNING UP VOLUNTEERS:** September Theriault of the Benton-Franklin Volunteer Center explains to Miss Tri-Cities contestants and Dot Stewart, left, executive director of the Miss Tri-Cities Scholarship Program, how to staff the information booth at RiverFest 2003 on June 14. The contestants were helping sign up volunteers to work for area non-profit agencies. Bechtel, Johnson Controls, Team Battelle and other Tri-Cities businesses sponsored RiverFest, the summer's premier kick-off event designed to help raise money for needed community services. Phil Townsend of Fluor Hanford was this year's chairman for RiverFest, which featured a number of family-oriented activities and raised about \$35,000.

# Security Ed tests your security awareness before overseas travel



Vacation time is here, and as we arrange for our trips we should include safety and security awareness in our planning.

## Take the Security Ed Challenge:

Of the safety and security awareness tips listed below, which one applies mostly to overseas travel?

- A. Request a room between the second and seventh floors. This will keep you away from easy street access yet low enough for most emergency equipment to reach you in case of a fire.
- B. To avoid being a target, dress conservatively. Don't wear expensive-looking jewelry. A flashy wardrobe or one that is too casual can mark you as a tourist. As much as possible, avoid the appearance of affluence.
- C. Make two photocopies of your passport identification page, airline tickets, driver's license and the credit cards that you plan to bring with you. Leave one photocopy of these with family or friends at home; pack the other in a place separate from where you carry your valuables.
- D. Don't use shortcuts, narrow alleys or poorly lit streets. Try not to travel alone at night.

Reference: SAS Intranet (Travel Security) at <http://apweb02.rl.gov/rapidweb/phmc/sas/index.cfm?PageNum=58> and Counterintelligence at <http://www.pnl.gov/ci/index.stm>

Do you know the answer? Send an e-mail message with the tip that applies mostly to overseas travel (indicate "Ed's Travel Challenge" in the subject line) to C. E. (Chet) Braswell, or clip this article, circle the correct answer, add your name and HID number, and send your response to Security Education at L4-09. Prizes will be awarded to randomly drawn correct entries. The names of prizewinners and the correct answer will appear in a future *Hanford Reach* article.

Submitted By \_\_\_\_\_ Hanford ID No. \_\_\_\_\_

Mailstop \_\_\_\_\_



**Congratulations to Lynn Nappi of Fluor Hanford, winner of the June 9 Security Ed Challenge. Nappi won a wireless door alarm for correctly answering that the two immediate notifications to take after receiving a bomb threat are Emergency Services at 911 and the building emergency director or warden.**

If you have any challenges you would like Security Ed to consider, e-mail them to Security Ed at ^Security Ed or send them by plant mail to Security Ed at L4-09.

# Regular Features



## LETTERS

Employees are invited to write letters of general interest on work-related topics. Anonymous letters will not be printed. We reserve the right to edit letters or not to accept letters for publication. Send your letters to the *Reach*, B3-30, or to \*Hanford Reach on e-mail. Letters are limited to 300 words, and must include your name, company, work group and location. Opinions expressed are those of the author and not of DOE-RL, ORP or their contractors.

### Buses would solve some problems

I hear a lot of complaints about speeding, not paying attention during the commute back and forth to work, heavy traffic, road-work delays and the list goes on. Bringing back the buses would eliminate many, if not most of, these problems.

I know the cost of riding would be more than it used to be, but I'll bet if you took a survey, many people would support the higher cost. This could work collaboratively with Ben Franklin Transit. What about the practice of having certain work sites end their day at differing times? Both of those ideas worked in the past. Why wouldn't they work now?

The congestion goes from the outer area all the way to Kennewick and Pasco. It can sometimes take up to 45 minutes to get through Richland alone. I, for one, would like to see the buses come back.

**Dale Wallace**

*Pacific Northwest National Laboratory*

### Clarification

I am writing to clarify my letter published on June 9 ("Life easy for Sheriff's Department") concerning the Sheriff's Department patrolling the Hanford Site versus the real world. Most of the letters (published in the *Hanford Reach* on June 16) that were written in response to my letter accused me of getting ticketed, which is not true. I am a law-abiding Hanford worker, and in my 25 years on the site I have never gotten a ticket.

The main focus of my complaint was the lack of law enforcement outside the Yakima Barricade and the overkill of law enforcement inside the Hanford Site. It's ironic that a couple of days after my letter was published, there was a fatality on the same stretch of road that I was complaining about — a head-on collision that involved one of our shift managers. Luckily his life was

spared, but the other driver wasn't so lucky. What's it going to take?

**Noel Hinojosa**

*Fluor Hanford*



## NEWSBRIEFS

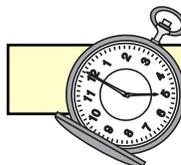
### PTB transfers approved for Salinas and Collins

Eustolio Salinas, Jr., a nuclear chemical operator in the Waste Feed Operations organization of CH2M HILL Hanford Group, and Nick Collins, a Fluor Hanford nuclear chemical operator at the Spent Nuclear Fuel Project at K Basins, have been approved to receive personal-time-bank transferred hours.

Salinas has been diagnosed with progressive leukemia. Any CH2M HILL Hanford Group employee who would like to transfer PTB hours to Salinas can do so by completing a PTB/Vacation Transfer Request form (Site Form A-6002-807) and sending it to Carolyn Howard of CH2M HILL Labor Relations/Human Resources, R2-57.

Collins needs to care for his son Skylar after he undergoes open-heart surgery. Fluor Project Hanford employees who would like to transfer PTB hours to Collins can complete Site Form A-6002-807 and send it to Colleen Angel of Fluor Hanford Workforce Services and Project Support, S2-43.

Time should be transferred in one-hour increments. ♦



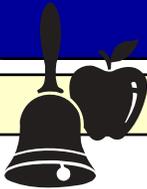
## RETIREMENTS

### Burden retirement party set for July 11

After 23 years of faithful service at Hanford, Sandy Burden will be retiring. Join us in celebrating her retirement on July 11 at 2 p.m. in Leslie Groves Park in Richland. A barbecue lunch and cake will be served. The cost is \$10 per person for food and contribution to a gift. RSVP by calling Laurie Ann Robinson at 372-0914 by June 27. ♦

*Features continued on next page.*

# Regular Features



## CLASSES

### PROTRAIN offers software training

#### Primavera Project Planning (\$425 per day)

- P-3 602 — June 23
- P-3 603 — June 24
- P-3 604 — June 25

#### Crystal Reports 8 (\$249 per day or \$448 for both days)

- Introduction — June 23
- Advanced — June 24

#### Upgrading to Windows XP — June 27 (\$249)

#### Upgrading to Office XP — June 26 (\$169)

For more information, contact Sarah at 375-0414 or at sarah@protrainsys.com. Group discounts are available.

### “Constructing the Technical Document”

“Constructing the Technical Document: Essential Strategies and Skills” will be offered June 25-26, in the Columbia River Room of the ETB on the Pacific Northwest National Laboratory campus. This class will help you achieve benefits associated with effectively sharing research or products; learn to address and affect readers, advance careers or fine-tune technical writing skills; and apply the fundamentals of an audience analysis. You will also gain an understanding of document management: the need for teaming and attention to planning, writing, editing, publication design and marketing. Register early; space is limited. For more information, visit <http://workshops.pnl.gov> or contact Mary Wagner at 372-4259 or at mary.wagner@pnl.gov. To register, contact Cory Rhoads at 376-7157 or at cory.rhoads@pnl.gov.

### Refresher course for the electrical P.E. exam

A refresher course for the electrical P.E. exam begins July 14 at Washington State University Tri-Cities. The course meets weekly on Mondays from 6 to 9 p.m. through Sept. 29. The refresher course will prepare engineers for the next Washington State Electrical Professional Engineers exam in October. Enrollment is limited. Books for the course will be available at The Bookie on the WSU Tri-Cities

campus. For more information, contact Karen Davis at 372-7293 or at kldavis@tricity.wsu.edu.

### Personal Protection Safety Measures offered

The Northwest Public Power Association is presenting “Personal Protection Safety Measures,” a two-day class at the Volpentest HAMMER Training and Education Center July 29-30. This course will cover the physiology of electrical shock and treatment; the Occupational Safety and Health Administration’s mandated electrical requirements; the role and use of NFPA 70E; and over 600-volt applications. Register before June 27 and pay \$1,095. The cost is \$1,145 for registrations received after June 27. To register, contact Wendy Carlson at (360) 254-0109 or visit [www.nwppa.org](http://www.nwppa.org). ♦

## CALENDAR



### Civil Air Patrol holds informational meeting

The Tri-Cities Composite Squadron of the Civil Air Patrol will hold an informational meeting beginning at 6:30 p.m. on June 24 for youth ages 12 to 20 who are interested in joining the cadet program. The meeting will be held in the Squadron Building at the Richland Municipal Airport. The Civil Air Patrol is the U.S. Air Force Auxiliary.

An awards presentation at this meeting will feature state Senator Pat Hale and a speech by retired Air Force Colonel David “Duke” Mitchell.

Civil Air Patrol’s Cadet Program builds responsible citizens for America through a positive approach to aerospace, leadership and life skills. Youth who join the cadet program will learn military drill, wear a uniform, earn rank, perform community service and can learn to fly. For more information, call 735-7437 (in the evenings).

### CREHST camps for fifth-through-eighth-graders

The Columbia River Exhibition of History, Science and Technology will hold summer camps during the week of July 28-Aug. 1 for students entering

*Calendar continued on next page.*



## Regular Features

### C A L E N D A R continued

fifth and sixth grades, and during the week of Aug. 4-8 for students entering seventh and eighth grades. The theme for the summer camps will be the Lewis and Clark Corps of Discovery and will include scientific activities, creative crafts and artistic projects surrounding the following topics: ancestry of dogs, study of raptors, mapping and exploration skills, the nature of sound and Native American culture. The camp fee is \$40 for CREHST member families and \$55 for non-member families. For more information and to register, call CREHST at 943-9000. Participation is limited to 20 students per session. The camp will be held in Richland's Howard Amon Park near the museum.

#### **Hanford Technical Library demonstrations**

The Hanford Technical Library staff members are presenting the following demonstrations from 12 to 1 p.m.:

- **Library Resources** — Tuesday, June 24, in the Wenatchee Room of the ETB. Learn how to use the library's electronic services to find the information you need when you need it — all from your desktop. For more information, contact Cheryl Wiborg at 372-7453 or at [cheryl.wiborg@pnl.gov](mailto:cheryl.wiborg@pnl.gov)
- **Competitive Intelligence** — Wednesday, June 25, room 1075 at EMSL. Proposal writers and other individuals looking for information about industries, companies or markets should know about resources available through the Hanford Technical Library Web site and on the Internet. Learn how to access free and fee-based databases to stay current with emerging technologies and find information for assessing customer needs and for competitive analysis. For more information, contact Karen Buxton at 372-7451 or at [karen.buxton@pnl.gov](mailto:karen.buxton@pnl.gov).
- **Electronic Chemical Encyclopedias, Dictionaries and Handbooks** — Thursday, June 26, room 101R of the Consolidated Information Center at the Washington State University Tri-Cities campus. Come see electronic products aimed at making chemical research easier. Featured will be the new

electronic edition of the *Handbook of Chemistry and Physics* and *The Combined Chemical Dictionary*, along with the *Kirk-Othmer Encyclopedia of Chemical Technology* (fourth edition) and *Ulmann's Encyclopedia of Industrial Chemistry*. For more information, contact Mary Frances Lembo at 372-7441 or at [mf.lembo@pnl.gov](mailto:mf.lembo@pnl.gov).

#### **Adoption orientation offered June 26**

The Catholic Family and Child Service Pathways to Parenting Program, a United Way-funded, non-profit organization, will present an adoption orientation on June 26, 6:30-8 p.m. at Catholic Family and Child Service, 2139 Van Giesen in Richland. This orientation will provide information and answers for those of all faiths who have considered adoption. Pre-registration is requested for this free orientation. Call Sandy at 946-4546 for information and pre-registration.

#### **Conference on plutonium in Albuquerque**

The Science 2003 Conference — The Plutonium Futures — will be held July 6-10 in Albuquerque, N.M. The third in a series, this conference will provide an international forum for presenting and discussing current research on physical and chemical properties and environmental interactions of plutonium and other actinide elements. For more information and to register, visit <http://www.lanl.gov/pu2003>.

#### **Radiochemistry Conference in New Mexico**

Two tours of the Waste Isolation Pilot Plant will be offered to attendees of the Radiochemistry Conference in Carlsbad, N.M. The conference will be held July 13-16. The conference will include presentations on nuclear repository sciences, the National Border Program, the environment, renewable energy, decommissioning and decontamination, and waste management. Featured speakers will include prominent members of the public and private sectors. The tours of WIPP, our nation's first deep-geologic repository for safe, permanent

*Calendar continued on next page.*



# Regular Features

## CALENDAR continued 2

disposal of radioactive waste in a 225-million-year-old salt formation, will be conducted on July 14 and July 17. Visit [http://www.radiochemistry.org/wipp\\_tour](http://www.radiochemistry.org/wipp_tour) to take an online tour and follow the links to sign up for the actual tour in July or to register for the conference. The tour fee is \$50 and is separate from the conference fees.

### **Safety and Health Conference takes place Oct. 3**

“Emerging Issues in Safety and Health” is the title of the third Safety and Health Conference to be held Oct. 3, 8 a.m.-5 p.m. at the Volpentest HAMMER Training and Education Center. The topics will emphasize the safety challenges presented by emerging issues such as the aging workforce, regulatory shifts, funding restrictions and emergency planning in today’s troubled world. The Lower Columbia Basin Chapter of the American Society of Safety Engineers, the Tri-City Education Committee of the Pacific Northwest Section of the American Industrial Hygiene Association and the Northwest Chapter of the System Safety Society are sponsoring the conference. If paid before Sept. 1, the conference fee is \$100 (\$85 for speakers, \$35 for students). After Sept. 1, the fee is \$125 (\$100 for speakers, \$45 for students). The fee includes lunch and refreshments. Attendees will receive 0.7 continuing education credits or 1 CIH Certification Maintenance Point. Eight speakers, a nationally known keynote speaker and a HAMMER tour are planned. For more information, contact John Cavanaugh at 373-9625 or at [john\\_e\\_jr\\_cavanaugh@rl.gov](mailto:john_e_jr_cavanaugh@rl.gov), or John Hinckley at 371-4408 or at [jhinckle@bechtel.com](mailto:jhinckle@bechtel.com). ♦



### GENERAL INFO & ACTIVITIES

**MAIL YOUR TICKET REQUESTS TO THE APPROPRIATE LISTED TICKET SELLER** — It saves the ticket sellers’ time and your tickets will be sent to you the same day. Do not

combine the charge for tickets to two different events on the same check. If you do, it will be returned.

**HRA DISCOUNTS** — Log on to <http://apweb02.rl.gov/hrd/> to see the discounts list.

**HERO POLICY FOR NSF CHECKS** — Associated non-sufficient fund bank fees will be passed on to check issuers. HERO will not absorb the cost.

**DISCOUNTED MOVIE TICKETS** — Limit now 10 per purchase. Carmike tickets are \$5 each with restrictions applying only to Sony DDS movies. Regal tickets are \$5.50 each and applicable restrictions are identified in the *Tri-City Herald* with a star. Yakima Mercy tickets are \$5 each with no restrictions. Regal and Carmike tickets are valid in Seattle and Spokane as well as the Tri-Cities. For Regal or Carmike tickets, send checks (no cash) made payable to HERO to Linda Meigs (H3-12), Linda Sheehan (T4-40), Nancy Zeuge (X3-74), Michelle Brown-Palmore (A7-51), Ginny Wallace (S7-03), Marta Caballero (S6-74) or Patti Boothe (T6-04). Sunnyside Movie Theater is now offering tickets for two admissions for one show, for \$10.50 with no show restrictions. These tickets are also good for Ellensburg and Walla Walla. For Yakima Mercy or Sunnyside tickets, send checks (no cash) to Nancy Zeuge (X3-74), Jim Hopfinger (S7-39) or Tricia Poland (T5-04).

**SILVERWOOD TICKETS ARE AVAILABLE** — The amusement park is now open through Sept. 28. The new Boulder Beach Water Park will open July 1. Discount ticket prices through HERO are \$22.50 for general admission (ages 8-64) and \$11 for children age 3 to 7 years and seniors 65 years and older. Ticket sellers are Linda Meigs (H3-12), Cheri McGee (N2-53), Nancy Zeuge (X3-74), Tricia Poland (T5-04), Marta Caballero (S6-74) and Ginny Wallace (S7-03). Please send your checks (made out to HERO) to any of these ticket sellers and your tickets will be sent back to you in the plant mail.

**GET READY TO RUMBLE** — Tri-City Raceway is offering discounted tickets to its racing event on Saturday, July 12. Adult tickets (normally \$11) are available to Fluor Hanford and Fluor Federal Services employees for \$7. The discounted ticket is good for July 12 only and a maximum of six tickets can be purchased per employee. Come join America’s fastest-growing spectator sport, NASCAR, as the Northwest Dodge Dealers present the NASCAR Big 3 (Late Models, Street Stocks and Mini Stocks) at the fastest half-mile tri-oval west of the Mississippi. Racing begins at 7 p.m. The Tri-City Raceway is located between West Richland and Benton City on

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# Regular Features



Highway 224 (Van Giesen St.). Tickets are on sale now; send your check (made out to HERO) to Alvin Keck (X4-06), Marta Caballero (S6-74) or Linda Meigs/Elizabeth Colbert (H3-12).

**MT. ADAMS GOLF OUTING** — Get your foursomes together for the second annual HERO golf outing at Mt. Adams. Join us for a fun-filled day of golfing in Toppenish at the country club on Sept. 26 (Friday off), with a shotgun start at 9 a.m. There is no need for handicap. The cost is \$55, which includes a barbecued burger lunch, greens fees, one-half cart, goodie bag and prize fund. To sign up, make your check out to HERO and send it along with your group's names to Jim Hopfinger at S7-39.

**COLUMBIA VOYAGER DINNER CRUISE** — On July 31, join us for a relaxing, three-hour dinner cruise down the Columbia River. The price is \$30 per person and includes the cruise and an all-you-can-eat dinner buffet featuring carved baron of beef, teriyaki chicken, desserts, non-alcoholic drinks, taxes and gratuities. A no-host bar is also available. Board at 6:30 p.m. at the dock behind the Red Lion Hotel in Richland. Slowly cruise to the Cable Bridge and return to the dock at 10 p.m. Seating is limited, so don't wait. Make your reservations now by sending a check or money order, made out to HERO, to Cheri McGee at N2-53.

**SIX FLAGS WILD WAVES/ENCHANTED VILLAGE TICKETS AVAILABLE** — The parks offer 70 acres of non-stop fun for everyone. After a short drive to Federal Way (near Tacoma), enjoy more than 40 exhilarating rides and attractions in Enchanted Village, and then cool down in one of Wild Wave's 14 thrilling waterslides. Ride the surf in the gigantic 24,000-square-foot wave pool! With two parks for the price of one, it's simply the most fun you'll have all year! Discounted tickets are available through HERO for \$21 per person (ages 2 and under are free). To purchase your tickets, send checks (made payable to HERO) to Linda Meigs at H3-12.

## UPCOMING TRIPS

• **Hood River Murder Mystery Dinner Train** — Aug. 16. Reserve your table for a sumptuous dinner and a murderously funny evening filled with entertainers. Dinner includes appetizer, salad, main course and dessert. The price of \$135 per person includes round-trip bus from Tri-Cities plus the dinner train. We are filling a second bus, so

hurry and send in your \$25 per-person deposit to secure your space. For more information, contact Linda Meigs (H3-12), Cheri McGee (N2-53) or call Marla of Carlson Wagonlit Travel at 783-4645.

• **Vacation of a lifetime, the French Riviera** — Oct. 6-15. The price is \$2,284 pp for twin, \$2,254 pp for triple and \$2,584 for single, which includes round-trip air fare from Pasco, \$120 cancellation insurance and \$85 in taxes and fees. Payment in full is due at signup. For those who have made a deposit, final payment is due July 23. Tour the French Riviera, Italian Riviera, Monaco, St. Tropez, Cannes, Grasse and Nice. We only have to unpack once as we will be staying in Nice and taking day trips to all the other exciting places. There will be free time also to do your own exploring. Included are seven breakfasts and five dinners. E-mail Nancie Simon at bearclanwa@aol.com or call 627-0657 for more information.

• **Disney World/Disney Cruise** — Oct. 19-26. The price ranges from \$1,302 to \$1,852 ppdo, depending on the type of room you want. The price includes four days in Walt Disney World with entrance into all the parks, a three-day cruise to the Bahamas and Castaway Cay (Disney's private island), taxes and transfers. Don't wait to send in a \$250 per person deposit to hold your spot. Contact Tricia Poland for more information.

• **Reflections of Italy** — Departure date is Nov. 3. \$2,782 ppdo includes airfare, lodging and 13 meals during this 10-day journey to Italy, beginning in Rome, "the Eternal City." A deposit of \$430 per person will reserve your spot, with final payment due Sept. 4. Contact Linda Meigs for details.

• **Switzerland** — Nov. 3-11. The price is \$1,879 pp including round-trip airfare from Pasco. Price includes 11 meals, tours, transfers and taxes. A \$250 deposit is due as soon as possible with the balance due Sept. 4. The medieval city of Bern is our host city. Highlights of the tour include the Swiss Parliament, the famous Bear Pit, the Rose Gardens, Lake Geneva and the medieval Castle of Chillon. Enjoy breathtaking Alpine views with a ride on the Panoramic Express Train to Gstaad. Then on to Interlaken, Grindewald, Zurich, Burgdorf Castle, Lucerne and an optional tour to Germany and the mystical Black Forest. Visit <http://apweb02.rl.gov/hero/activities.cfm> or contact Phyllis Roha at 376-6413 or by e-mail for more information.

• **Holiday in Lights cruise** — Dec. 5-7. Climb aboard the Fun Fleet of Coeur d'Alene Cruises for a holiday tour of the lighted displays featuring over a million lights.

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# Regular Features



**Employee  
Activities**

**H.E.R.O.**

**continued 2**

Package includes round-trip bus trip, two nights at the Coeur d'Alene Resort, breakfast both mornings, and a one-hour lake cruise. Depart Friday morning, Dec. 5, and stop at the Spokane Valley Mall for Christmas shopping, then it's off to Coeur d'Alene for your evening cruise. On Saturday, you can relax at the resort, pamper yourself at the spa, shop at additional shops close to the resort, take the bus back to Spokane for more shopping, or hop on a shuttle that runs to the casino in Worley, Idaho. The cost per person based on double occupancy is \$193 for an economy room, \$215 for a deluxe room, and \$238 for a premier room. A \$50 non-refundable deposit per person is due as soon as possible to reserve your spot. E-mail Phyllis Roha for more information.

• **San Antonio Christmas** – Dec. 9-13. The price is \$1,289 pp for twin, \$1,269 pp for triple and \$1,659 for singles. Includes round-trip airfare from Seattle, transfers, cancellation waiver, travel insurance and six meals. Highlights of the trip will be Paseo Del Rio, the Alamo, a Mexican marketplace, the LBJ Ranch, Cavern Carolers and Fiesta De Las Luminarias. A deposit of \$160 is due by Aug. 22. Contact Cheri McGee for details. ♦



## **VANPOOLS**

**Vanpool ads are run for two weeks. Ads must be resubmitted to run in subsequent issues of the *Hanford Reach*. The deadline for submission is Thursday, 10 days prior to publication.**

Day and Zimmermann Protection Technology Hanford reminds employees to wear their badges. Vanpool and carpool drivers are responsible for ensuring their passengers are badged. If a passenger forgets his or her security badge, access is denied at the barricade. The individual is required to go to a badging station for a temporary badge or go home to retrieve the badge.

## **KENNEWICK**

Looking for rider from Kennewick to 200W. Picks up at Albertson's on Edison and Clearwater and at the Richland airport. Stops at 222-S, 272-WA and WRAP. Call **Abe Garza** at 373-2898. 6/16

## **PASCO**

Vanpool No. 139 has two seats available for 8x9s, from Pasco and to 200E and 200W. Route runs from Road 100 to 200W with stops at the Federal Bldg. parking lot, 2101-M, WSCF, T-Plant and other places in 200W. Don't drive...take a nap! Call **Bruce Hey** at 373-7197 for more details. 6/23

Vanpool Express to 2750-E needs several riders, 8x9s. Monthly rate as low as \$35 per month with maximum of 14 in the van. Leaves former Hanford bus lot (across from 2440 Stevens) at 6:25 a.m. and drops off at 2750-E only. Contact **Dave Hedengren** at 373-5094. 6/23

## **RICHLAND**

Vanpool No. 216, needs one or two riders, 8x9s, 7 a.m.-4:30 p.m., door-to-door delivery in Richland. Van starts on the south end of Jadwin, winds its way up Thayer and Williams, over to George Washington Way and out to 2750-E and to 2704-HV (if new rider is a backup driver). Call **Michelle Calvert** at 376-5400. 6/16

Spacious seating is still available for several 8x9 riders to 200W aboard Van No. 117. Roundtrip from parking lot adjacent to 1019 Wright in Richland. The cost is less than that of a daily commute for one person in his or her own personal vehicle. Call or send an e-mail message to **Gary Bush** at 372-2531. 6/16 ♦