

Technologies installed to further cleanup along river

Deborah Dunn, *Fluor Hanford*

Technologically advanced equipment is in place for safer, more cost-effective and quicker deactivation of the highly radioactive hot cells in Hanford's 324 Building. The facility is in the 300 Area near the Columbia River, north of the Richland city limits.

The 324 facility was previously used for examining irradiated materials and developing waste-treatment processes. High radiation levels in the 324 Building hot cells prohibit human entry. Visibility is limited, and it's difficult for the 1960s-vintage manipulators and overhead cranes to reach all areas of the highly cluttered cells and reliably perform heavy-duty deactivation tasks.

A variety of remote-control technologies are used from outside the radio-chemical processing cells. The remote technologies are designed to handle heavier loads; use a broader set of cleanup tools; improve access to difficult-or impossible-to-reach spaces; and allow for remote visual inspection, radiological characterization, decontamination, waste handling and size-reduction.

Some of the more recent additions to the 324 Building "toolbox" include a large robotic work platform, a heavy-duty robotic manipulator arm, a crawler that can clean hot-cell floors and the lower areas of walls, a ventilation duct crawler and a rescue tool for size-reduction — a process for cutting apart large, radiologically contaminated equipment to remove it and dispose of it using a minimum of space. The toolbox also includes a 360-degree camera that is most commonly used in the real-estate marketing business. The camera enables virtual viewing in every direction within a given room or set of rooms. Also, a video "borescope" can snake through right-angle bends in process piping as small as a half-inch in diameter.

"The right tools for the job are in place and ready for use," said Tim Veneziano, director of 324/327 Buildings deactivation for the Fluor Hanford Central Plateau Remediation Project. "Cleanup work will not be delayed while we develop additional technological solutions. When the Shielded Materials Facility hot cell D&D is initiated under the upcoming River Corridor Contract, the technologies are ready to go."

The ARTISAN arm

A closer look at one remote technology provides insight into the challenges posed by old contaminated buildings and how they can be overcome by new technology.

During Fluor Hanford's earlier 324 Building deactivation activities, workers relied on the manipulators originally installed in 1965 for light-duty research tasks. The baseline manipulators can extend about 10 feet into the interior of a hot cell. The 324 Building's Shielded Materials Facility hot cells are arranged in an "L" shape. These hot cells are typically 16 feet wide and 18 feet tall. The original manipulator arms in those hot cells can hold 100 pounds when positioned vertically, but only 20 to 25 pounds when extended horizontally.



Mike Reid tracks movement of the ARTISAN telerobotic manipulator arm via a remote viewing monitor.

Technologies installed to further cleanup along river, cont.

Heavy demands during deactivation tasks in other 324 Building hot cells have resulted in frequent breakdowns. Each time a manipulator arm broke, it had to be removed through a 10-inch-diameter port in the 4-foot-thick concrete wall, moved to another portion of the building, decontaminated, repaired and reinstalled. The work-break-repair cycle caused increased radiological exposure precautions for repair workers, and the “down” time increased costs and slowed progress.

In 2000, a technology-transfer program between the Department of Energy Office of Science and Technology and a company called AEA Technology of Pittsburgh resulted in the development of a heavy-duty manipulator arm. The ARTISAN manipulator arm fits through the standard 10-inch-diameter hot-cell ports. Its reach is 11 feet and its payload capacity is more than 10 times that of the original manipulators — up to 220 pounds!

The ARTISAN (a registered trademark of AEA Technology) is hydraulically powered and controlled by a joystick and a touch-screen monitor. The heavy-duty arm has a “teach and repeat” feature to reduce the time necessary to accomplish complex or repetitive maneuvers. It is designed to be more robust than the standard manipulators and is expected to significantly improve the rate of progress in hot cell deactivation. The ARTISAN package also includes a specially designed A-frame support structure for installing the 1,100-pound heavy-duty manipulator into the various hot-cell ports.

Smooth operator

The ARTISAN arm was recently installed in the hot-cell mock-up training chamber in the 324 Building. Nuclear chemical operators Ron Holman, Deanna Judy, Mitch Marrott, Sam Morris and Mike Reid were trained by AEA representatives the week of March 2. During a training break, operators commented on the smooth operation and ease of fine-motion control offered by the ARTISAN. Supervisor Dewayne Smith noted the biggest difference between the ARTISAN and its predecessors is the use of joystick control.

“AEA Technology is proud to have been selected to provide the ARTISAN robotic system to the 324 facility, based on its proven versatility, heavy-lift capability and its modular design to provide state-of-the-art remote handling technology,” said Eric Clements, Richland general manager for AEA.



The heavy-duty robotic arm more readily handles the heavy demands of D&D work than the original manipulators installed in the 1960s for waste-treatment process studies.



Operator Mitch Marrott practices joystick control of the ARTISAN robotic arm.

Picture Pages



HOSTING THE DEPUTY SECRETARY: On a tour of the Hanford Site last Wednesday, Deputy Secretary of Energy Kyle McSllarrow (center) was photographed visiting the Cold Test Facility and being briefed on a new tank-cleanup technology by Roy Schepens (right), manager of the Office of River Protection, and Ed Aromi, president and general manager of tank-farm contractor CH2M HILL Hanford Group. In the foreground is the tank crawler, a remote-controlled machine for moving thick sludge inside Hanford waste tanks. As deputy secretary, McSllarrow is chief operating officer for the Department of Energy and also serves on the President's Management Council. During his Hanford visit, he presented a check to a local cancer victim who qualified for an award under the Energy Employees Occupational Illness Compensation Act (see page 3).

COMPENSATION GIVEN: Deputy Secretary of Energy Kyle McSllarrow, left, and Deputy Secretary of Labor Cam Findlay, right, present one of the first \$150,000 compensation checks for victims of radiation-related cancer to retired nuclear chemical operator Thomas Keefe of Richland on April 23. Keefe worked at the Hanford Site for 35 years. About 2,000 Hanford workers have filed claims for the lump-sum compensation under the Energy Employees Occupational Illness Compensation Program to those whose cancers are likely to have been caused by workplace exposure to radiation. The backlog of cases has resulted from the need to determine radiation doses from decades ago and have medical records reviewed by a panel of doctors with the National Institute for Occupational Safety and Health. Federal officials hope to rule on all Hanford cancer-related claims within the next year. Some claims have also been paid to beryllium-affected Hanford workers.



Picture Pages



CLEANING UP: Members of the Fluor Hanford Community Involvement Team were kept busy on April 19 during Community Cleanup Day, the Tri-Cities' observance of Earth Day. In a Central Plateau Remediation Project activity, Paul Pimentel of the Project Operations Center hauls bags of yard debris at the home of a senior citizen. Norma Jean LaRock (background) of the CP Project helps with yard cleanup. At right, Jeannette Hyatt picks up litter along Interstate 82 as part of the Adopt-a-Highway cleanup team from the Safety and Health organization.



PARKING-LOT SNOOZE: Last Tuesday, Craig Swanson of Fluor Hanford's Central Plateau Remediation Project snapped this photo of a duck and a drake napping in the parking lot of the 1200 Jadwin Building in Richland. The drake, obviously the perfect gentleman, "accorded" the female the warm trunk lid of the Honda Accord. "I guess they felt safe there on Earth Day," Swanson said.

100 care packages destined for military personnel

Deborah Dunn, *Fluor Hanford*

Employees of the Fluor Hanford Central Plateau Remediation Project and Project Operations Center donated, packaged and mailed 100 gift boxes for U.S. troops stationed in the Middle East.

“This was a great way to recognize U.S. military personnel for their service to our country,” said Larry Olguin, vice president of the Central Plateau Remediation Project. “The employees took the initiative to prepare packages for our troops, and this activity aligns with our company’s encouragement that we acknowledge U.S. military personnel.”

Paul Pimentel, of the Project Operations Center said, “Our employees have been very generous with their donations of food, personal-care items, packaging materials and money for postage, as well as notes and letters of encouragement.”



Pitching in on April 18 to help assemble 100 gift packages for members of the U.S. armed forces are Anita Hall (foreground), Larry Olguin and Laurie Ann Robinson of the Central Plateau Remediation Project.

The project started with Doug Wertz, Control Team manager for the Central Plateau Remediation Project and a U.S. Navy reservist. Anita Hall, a secretary for the CP Project, volunteered to coordinate the effort.

Wertz said 40 members of his reserve group — eight women and 32 men — were called into active duty in mid-February. They comprise a cargo-handling unit responsible for loading and off-loading cargo while serving on a bulk cargo-carrying ship, the *S.S. Cape Johnson T-AK 5075*. Ships haul 90 percent of the supplies and materials supporting military activities.

The 1950s-era ship was taken out of “mothballs” — protective storage — and placed back into active duty. It is operated by 18 merchant marines. The initial run, a military mission, was to a port in Iraq. The ship has since been moving back and forth across the Pacific Ocean, and as the degree of hostility decreases, Wertz said, its mission is shifting to providing humanitarian aid. He explained that the old ship lacks modern amenities — no store, and no satellite linkups for computers or e-mail.

“Letters from home are few and far between,” Wertz said. “You might get into port about every three weeks to receive mail. If we can send them something to break the monotony or save them from having to buy essentials, it really makes a difference.”

The care-package effort easily surpassed the goal of 40 — not only will each of the 40 reservists receive a package, but the merchant marines will too. The rest of the care packages are destined for ground troops in Iraq. Hall said two boxes, each containing a number of packages, were mailed to individuals — Mark Nobbs, the son of Jack Nobbs of Central Plateau; and Hall’s family friend Jeremy Asmus, serving on the front lines.

Continued on page 6.

100 care packages destined for military personnel, cont.

Military recommendations were used in preparing the packages. Security restrictions now require mail be sent to individuals; the former practice of mailing "to any serviceman" has been discontinued. In addition, various items are disallowed by cultural taboos.

On the list of acceptable and high-demand personal-care items were toothpaste, disposable razors, waterless hand sanitizer, and travel-size soap and shampoo. Edibles able to withstand lengthy shipping and desert heat are hard candy, licorice, chewing gum, pre-sweetened powdered juice mixes, herbal teas, pre-packaged cookies, condiments, and snack chips.

Recommended items and enough money to pay shipping costs of about \$5 per package were donated, and care packages were inspected to ensure compliance with military-security recommendations. Notes or letters were added.

The effort began April 2 and the packages were assembled for mailing on April 18. ■

Safety Expo 2003 schedule at TRAC

Tuesday, May 6 – 12-8 p.m. Family Night

Arena Events

1 p.m. — Opening Program

All local fire departments and law-enforcement agencies, U.S. military branches, Hanford Fire Department and Hanford Patrol will send representatives to participate in the color guard. The Richland High School Chorus will sing the National Anthem.

1:30 p.m. — Vehicle crash demonstration

6 p.m. — Vehicle crash demonstration

Atrium events

2:30 p.m. — Academy of Children's Theatre presentation, "No Body Gets Hurt".

6:30 p.m. — Tae Kwan Do exhibition

Pavilion events

Bicycle safety inspection — any time Expo is open

3:30-6:30 p.m. — Bicycle Rodeo

Wednesday, May 7 — 7 a.m-8 p.m. Family Night

Arena events

10 a.m — Vehicle crash demonstration (local high schools and driving schools are invited to attend this demonstration)

1:30 p.m. — Vehicle crash demonstration

6 p.m. — Vehicle crash demonstration

Atrium events

5:00 p.m. — Academy of Children's Theatre presentation, "No Body Gets Hurt"

6:30 p.m. — Tae Kwan Do exhibition

Pavilion events

Bicycle safety inspection — any time Expo is open

3:30-6:30 p.m. — Bicycle Rodeo

Thursday, May 8 — 7 a.m.-4 p.m.

Main building

7:30 p.m.-9:30 p.m. — PZAC meets in meeting room 4

Atrium events

1:30 p.m. — Tae Kwan Do exhibition

2:30 p.m. — Academy of Children's Theatre presentation, "No Body Gets Hurt"

Pavilion event

Bicycle safety inspection — any time Expo is open

Leading bioinformatics scientist joins PNNL



Michaels

George Michaels, an internationally recognized pioneer in bioinformatics, has been named director of bioinformatics at the Department of Energy's Pacific Northwest National Laboratory. He began his tenure on April 4.

Michaels will lead the growing portfolio of bioinformatics and computational biology research activities at the laboratory. He will oversee applicable systems biology and biotechnology research in PNNL's Biological Sciences and Computational Science and Mathematics divisions, as well as working closely with government and industrial clients.

"George has a strong record of building highly productive interdisciplinary teams and innovative scientific leadership in systems biology," said Reinhold Mann, associate laboratory director for PNNL's Fundamental Science Directorate. "We're looking forward to George leading the bioinformatics arm of our systems biology program."

Michaels' career spans nearly 30 years of technical and leadership contributions to his field. Most recently, Michaels held leadership positions at Monsanto in St. Louis, Mo., where he designed an integrated expression-profiling program. He also served as vice president and chief scientist of Genome Dynamics, a Maryland biotechnology startup company. While an associate professor at George Mason University in Fairfax, Va., Michaels founded one of the nation's first doctoral programs in bioinformatics and computational biology. He earned a doctorate in biochemistry and molecular biology, as well as a bachelor's degree in microbiology from the University of Florida in Gainesville.

PNNL's bioinformatics program is part of the Biomolecular Systems Initiative. More than 60 PNNL staff members are studying molecular and cellular activity on a systems level with funding from agencies such as the Department of Energy and the National Institutes of Health. ■

Firms sought for remedial technologies poster session

Fluor Hanford is seeking participants for a poster session regarding the 618-10 and 618-11 Burial Grounds. The session will be held June 9 at the Royal Hotel in Richland, and is part of a four-day remedial-design technical workshop sponsored by the Department of Energy.

Twenty-five firms will be selected to participate in the poster session, based on their ability to supply technologies for unsegregated transuranic-contaminated radiological and hazardous materials at the burial grounds and similar DOE sites. Technologies may address waste characterization, stabilization (for removal and handling), excavation, retrieval and segregation, treatment, packaging, transportation, and health and safety protection.

A team from the firm EnviroIssues will facilitate the workshop. For further information or a survey form, contact Christina Richmond at crichmond@enviroissues.com. Surveys, completed in table format, must be no more than one page per technology and must be received at EnviroIssues by 5 p.m. on May 9.

Table entries include the following information: 1) company contact information; 2) a description of the technology's applicability to remediation of the 618-10 and 618-11 Burial Grounds; 3) the technology's stage of development; 4) a history of previous technology deployment; 5) soil types to which the technology is suited; 6) regulatory hurdles restricting the technology's use; and 7) the technology's advantages, disadvantages, effectiveness and limitations. ■

Information Technology Day focuses on homeland security

On April 15, many people across the Mid-Columbia region had two tasks on their mind: send in their federal income tax return and attend Lockheed Martin's Third Annual Information Technology Day.

Held at the Pasco Red Lion Hotel, IT Day drew more than 600 people ranging from IT professionals and students to business, political and community leaders. Thirty local companies participated as exhibitors during the day-long event, sharing information about their products and services in areas such as hardware and software, telecommunications, systems integration, advanced technology, training, education and career opportunities.

Keynote presenter Congressman Doc Hastings kicked off the morning sessions by addressing the complex challenges facing federal, state and local government agencies and officials as they respond to the homeland security issues following the events of Sept. 11, 2001. Hastings noted the unique capabilities of the Tri-Cities, especially the Volpentest HAMMER Training Center, in assisting the region and country with critical first-responder training.

A panel discussion featuring industry and regional experts in homeland security followed, with panelists Ned Wogman, director of Homeland Security for Pacific Northwest National Laboratory, who presented a research and development perspective; Fluor Hanford's Karen McGinnis, director of the HAMMER/Hanford Training Center, who presented a training perspective; Ken Arness, chief executive officer of Chameleon Technology, who presented a secure infrastructure perspective; and Chip Schleider, program director for Homeland Security for Lockheed Martin Corporation, who presented a systems-integration perspective.

Major General Timothy Lowenberg, Washington State Adjutant General and homeland security advisor to Governor Gary Locke, addressed the luncheon audience. He is in charge of 8,000 National Guard troops, and he interfaces on a biweekly basis with U.S. Department of Homeland Security director Tom Ridge. The State of Washington is playing a key role in helping the nation prepare to defend against possible future attacks.

Technical sessions featuring speakers from Microsoft, Cisco, Lockheed Martin, Macromedia, Pacific Northwest National Laboratory and others rounded out the afternoon.

Information Technology Day is sponsored by Lockheed Martin Information Technology with the following supporting sponsors: Tri-City Industrial Development Council, Tri-City Herald, Columbia Basin College, Washington State University Tri-Cities, and the Washington Software Alliance.

"IT Day is a great way to give back to the community as well as hear from the community," said Frank Armijo, program director for Lockheed Martin Information Technology's West Coast Hub. "IT Day 2003 showed that IT is playing a major role in homeland security, helping track down terrorists, supporting our troops in the Middle East and affecting the Hanford cleanup mission and economic diversification. We look forward to sponsoring the event again next year." ■



Major General Timothy Lowenberg, Washington State Adjutant General and Homeland Security Advisor to Governor Gary Locke, was the keynote luncheon speaker for Lockheed Martin's Third Annual IT Day. Lowenberg's presentation addressed the various Homeland Security issues he, along with our state and national leaders, are focused on solving.

May 7 seminar to discuss trends in computing technology

Computers are getting smaller, more mobile and more prevalent. They are all around us, and will continue to affect and change our lives.

As part of the Community Science and Technology Seminar Series, David McGee, a computer scientist at Pacific Northwest National Laboratory, will present "Computing Everywhere: What's Next?" He will discuss trends in computing technology, the shift toward more pervasive information, and the impact this will have on the way we live. The seminar is scheduled for May 7 at 7 p.m. in the Columbia Basin College Theater in Pasco. The seminar is free and open to the public.

Computing devices are embedded in everything from automobiles to refrigerators, from barbecue forks and undershirts to unmanned airplanes and cockroaches. Almost like clockwork, computer hardware engineers are finding ways to rapidly diminish the size of computing processors while continuing to double the speed about every 18 months. Given today's advancements, even more amazing progress is soon to come. In spite of these advances, our ability to control computers, communicate with them and access information locked behind each display is limited almost exclusively to inventions from almost 50 years ago.

Researchers at PNNL are conducting research to break down these barriers, investigating how to develop Rich Interaction Environments that are capable of understanding people more naturally, adapting to individual users and groups of users and communicating with us.

McGee grew up in the Tri-Cities and has been a staff member at PNNL for 20 years. He is the acting chief scientist and leader of the Rich Interaction Environments effort. His research interests include multi-modal human-computer interaction, information and battlefield visualization, and multi-agent systems communication. McGee received his bachelor's degree from Washington State University Tri-Cities and a doctorate degree from the Oregon Graduate Institute School of Science and Engineering at the Oregon Health and Science University.

For more information about the seminar series, contact PNNL at 375-2599 or visit the Web site at <http://www.pnl.gov/speak/seminar/sem-index.html>.

The seminar is sponsored by PNNL and CBC with the support of the Columbia River Exhibition of History, Science and Technology and the local chapter of Sigma Xi, the international honor society of scientific and engineering research. ■



McGee

60 Hanford 1943-2003 Years

The Hanford Site
celebrates 60 years
of protecting America



NECESSITY IS THE MOTHER OF INVENTION: During World War II not too much went to waste, and at the Hanford Engineering Works, workers used this 1929 Plymouth for its motor power to operate a winch. John Galbraith, Edward Karan and Joseph Tedesco were three workers who employed the stripped-down automobile to help on construction projects at Hanford. In those days, most workers hailed from locations distant from Hanford — this car came from Spokane, Wash.

Photo from a 1944 issue of the Sage Sentinel, provided by the East Benton County Historical Museum, 205 Keewaydin Drive, Kennewick.

Take the Security Ed Challenge



Representatives of the Office of Safeguards and Security Evaluations, also known as OA-10, are at the Hanford Site conducting an independent evaluation of the effectiveness of safeguards and security policies and programs, including protection of special nuclear material, protection of classified and sensitive information and foreign visits and assignments.

The OA-10 staff will then develop and validate reports that identify findings, issues and opportunities for improvement. The OA-10 staff will also perform follow-up reviews to ensure that corrective actions are effective.

One area that the OA-10 staff will focus on is employee involvement with security, including employee knowledge of security requirements.

Take Security Ed's Challenge:

Which of the following is a false statement?

- A. Badges remain the property of the Department of Energy and must be surrendered whenever an individual is transferred or terminates employment or association, or the badge is no longer required.
- B. Access to classified matter requires a DOE Access Authorization (security clearance) and a need to know.
- C. Security badges are only required in Protected Areas, Limited Areas, or classified conference rooms.
- D. Employees are a vital part of the security program.

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

Congratulations to the winner of the April 14 Security Ed Challenge, Todd Ferguson of Fluor Hanford, who won a MiniMag Light for correctly identifying the three primary Security Areas at Hanford as:

- **Property Protection Areas** — Most locations at Hanford are identified as Property Protection Areas, or PPAs. The public is not allowed in PPAs and security badges are required for unescorted access.
- **Limited Areas** — Limited Areas have boundaries defined by physical barriers for the protection of classified information and Category III special nuclear material. A Department of Energy Access Authorization, or security clearance, is required for unescorted access.
- **Protected Area** — Protected Areas are defined by physical barriers to protect Category I & II special nuclear material, classified matter and/or to provide a concentric security zone surrounding a Material Access Area or a Vital Area. A DOE Access Authorization or security clearance is required for unescorted access.

Source: Security Operations Access Control page in the PHMC Safeguards and Security Intranet Web pages at <http://apweb02.rl.gov/rapidweb/phmc/SAS>.

Submitted By _____ Hanford ID No. _____

Mailstop _____



Regular Features



SHOEMOBILE

300 Area

along fence east of Wisconsin Street

May 5 noon-4p.m. Sound Safety

100K Area

parking lot south of MO-401

May 21 8-9 a.m. Iron Age

200 East Area

northeast gravel parking lot of 2101-M

May 6 7 a.m. - noon Sound Safety
May 21 11 a.m.-noon Iron Age

200 West Area

parking lot east of MO-281

May 6 1-4 p.m. Sound Safety
May 21 9:30-10:30 a.m. Iron Age



NEWS BRIEFS

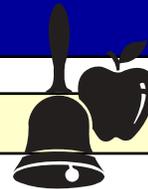
WSU Tri-Cities seeks adjunct faculty

Washington State University Tri-Cities is seeking to expand academic offerings in the fields of biology, chemistry, environmental science, mathematics and statistics. To increase its pool of qualified faculty, WSU Tri-Cities invites persons interested in teaching as adjunct faculty to submit their qualifications.

The minimum educational requirement is a master's degree in the specialty field. Preferred candidates will have a Ph.D. and university teaching experience. WSU Tri-Cities offers upper-division undergraduate and graduate courses. Adjunct faculty members are paid approximately \$1,000 per semester credit, dependent upon education and experience. Most courses are three credits. More detailed information may be accessed at www.tricity.wsu.edu. Click on "Faculty and Staff," then "Qualifications for Adjunct Faculty Appointment."

Qualified persons should submit a résumé and a brief cover letter outlining their teaching interests and availability to Ed Rykiel, Washington State University, 2710 University Drive, Richland, WA 99352-1671, or via e-mail at erykiel@wsu.edu. WSU is an Equal Employment Opportunity/Affirmative Action employer. Protected group members are encouraged to apply. ♦

CLASSES



PROTRAIN project-management software classes

Special pricing is available to all April and May attendees of either Primavera or Microsoft Project. To register, call 375-0414 or log on to <http://www.protrainsys.com/regs.htm>.

Primavera Project Planner classes will be offered April 28-May 2. Register now and save up to \$250 off the regular price.

- **Primavera 601, 602 and 603** (5 days) — \$1,795 per person (save \$250)
- **Primavera 601** (3 days) — \$1,095 per person (save \$125)
- **Primavera 602 and 603** only (2 days) — \$795 per person (save \$55).

Microsoft Project 2000 will be offered May 12-13. Register now and get the special price of \$348 per person (save \$50).

PNNL offers class on the technical document

The Scientific and Technical Information Department at the Pacific Northwest National Laboratory will present the class, "Constructing the Technical Document: Essential Strategies and Skills," April 29-30, 8 a.m.-4:30 p.m. in the Richland Room of the ROB. This course will equip you with strategies, skills and a set of tools for producing energized technical documents that satisfy readers and writers. For more information, check out the Web site at <http://workshops/techdoc.htm> or call Julie Fisher at 375-3981. To register, call Cory Rhoads at 376-7157.

Peak Performance offers courses at HAMMER

Instructors Rick Martinez and Larry Birckhead of Peak Performance Systems will offer two training sessions at the Volpentest HAMMER Training and Education Center. To register for either of the offerings below, contact Rick Martinez, 627-3273, or Libby Sickler via e-mail at Libby_J_Sickler@rl.gov, and provide student name and P-Card billing information.

- **Resolving Differences with Others** — April 30, 7:30 a.m.-4:30 p.m. in classroom 28 of the Administration Building. This one-day class provides the power and

Classes continued on next page.

Regular Features



CLASSES continued

tools of the professional mediator. The instructors have been certified by the Mediation Training Institute International (www.mediationworks.com). The cost is \$245 per person.

- **Cheetah Meetings: Good Meetings Guaranteed!** — May 2, 7:30-11:30 a.m., in classroom 15 of the Administration Building. Learn proven techniques for holding effective meetings that build teams and get the desired results. Included are all the forms, assessments and procedures your team will need to dramatically improve your meetings. The cost is \$150.

Presentations course scheduled April 30, May 14

The eight-hour course, “Effective Presentations,” will be presented by Joe Estey at the Hanford Training Center on April 30 and May 14. This course provides participants with the insights, skills and knowledge to speak inspirationally and confidently on any topic. The course, costing \$180 per person, is ideal for those wanting to improve their communication skills. To register, contact Joan Howard at 946-2102 or at jhoward@energxfanford.com or Lynn Collins at 946-9654 or at lcollins@energxfanford.com.

OSHA Region 10 classes

In conjunction with the annual conference of the Voluntary Protection Program Association Annual Conference, the Volpentest HAMMER Training and Education Center will offer the following Occupational Safety and Health Administration Region 10 classes on May 6.

- **Permit Entry Confined Spaces** — 8 a.m.-5 p.m. This course covers the duties of entrant, attendant, supervisory personnel and rescue team. Case histories are presented along with demonstrations of accidents. Testing and ventilation will be stressed. The cost is \$165. The presenter is Rick Gleason of Prezant Associates.
- **Sampling for Hazardous Materials** — 8 a.m.-5 p.m. This awareness-level course will address regulatory issues. Air, soil and water sampling, as well as sampling methodology, are covered. The cost is \$165. The presenter is Maura Doherty of Marine & Environmental Testing.

- **Homeland Defense - Bio-Terrorism** — 8 a.m.-12 noon. Using a risk-management approach, attendees will learn how to protect their companies from terrorist attacks. Students conduct a vulnerability assessment and threat analysis to determine possible dangers in their facilities. The cost is \$80. The presenter is Joseph Teeples of We’re Into Safety.

To register for any of these sessions, contact Christine Goody at 372-3692, or register by completing and faxing the registration form for VPP Workshops found at <http://apweb02.rl.gov/phmc/osh/docs/39/docs/VPPForm2.pdf>.

MicroShield course offered May 6-8

Project Enhancement Corporation will conduct a MicroShield course, all-inclusive level, at the Volpentest HAMMER Training and Education Center May 6-8. MicroShield is used for analyses involving gamma and X-ray radiation. The cost is \$1,050 per participant. The course offers 10 continuing-education credits for certified health physicists in the recertification program. To register, or for more information, contact Yvonne Miller at (240) 686-3059 or at ymiller@pec1.net.

Enterprise content management class offered May 12

Bob Boiko of the University of Washington will conduct the seminar, “Initiating an Enterprise Content Management Initiative,” on May 12, 9 a.m.-5 p.m. in the Snoqualmie Room of the NSB on the Pacific Northwest National Laboratory campus. Learn to analyze content, approach an organization and evaluate available technology to get an enterprise content management initiative off the ground. The cost is \$350. For more information contact Susan Widener at susan.widener@pnl.gov or at 376-6992, or visit <http://www.pnl.gov/insidepnnl/pdfs/boikoworkshop.pdf>. To register, contact Cory Rhoads at cory.rhoads@pnl.gov or at 376-7157.

Anti-terrorist on-site responder training offered

EnergX is facilitating a two-day anti-terrorist training course, which will focus on the preparations and planning senior management and on-site responders should undertake to optimize their response to a potential terrorist event. The training will include

Classes continued on next page.

Regular Features



C L A S S E S continued

participation in several terrorist- event simulations and will be held at the Volpentest HAMMER Training and Education Center. Instructors are Bill Hillar and Tom Steiner. Attendance is limited to 75 participants. The cost is \$495 and includes refreshments and lunches. To register, contact EnergX at 946-9654.

Intellectual property protection seminar held May 16

Businesses can learn how to protect intellectual assets at the seminar, "Intellectual Property Issues for High-Tech Businesses," presented by the Preston Gates & Ellis law firm on Friday, May 16, 7:30 a.m.-3 p.m. at the Environmental Molecular Sciences Laboratory Auditorium on the Pacific Northwest National Laboratory campus. The cost of registration through May 12 is \$75, \$80 thereafter. Space is limited. To register online, visit http://www.pnl.gov/edo/ip_issues.stm. For more information, go to the Web site or contact Gracie Downard at gracie.downard@pnl.gov or at 375-2803. ♦



C A L E N D A R

Northwest Technical Conference April 30-May 1

The Radiochemistry Society will host the Northwest Technical Conference on April 30 and May 1 at the Red Lion Hotel in Richland. The conference will include presentations on nuclear medicine, the environment, homeland security, decontamination and decommissioning of nuclear facilities and waste management. Other topics will include the use of radioisotopes for public benefit and the role of the Waste Treatment Plant in the region's economy. Featured speakers will include the senior managers from the Department of Energy Richland Operations Office, the Office of River Protection and Hanford contractors. Visit <http://www.nwtechnical.org/> for the conference agenda and registration information.

Volunteers needed to judge student business projects

Judges are needed to judge Pasco High School students'

business projects during Enterprise 2003, May 1 and 2. Enterprise 2003 is a week-long program in which all Pasco High School juniors form mock companies and learn to make decisions about product development, marketing and finances. Volunteers are needed to judge marketing presentations on May 1, 9:30-11:30 a.m. at the Trade, Recreation and Agricultural Center in Pasco; stockholder presentations on May 2, 8-10:30 a.m. at Pasco High School; and trade shows May 2, 11 a.m.-12:30 p.m. at TRAC. For more information, contact Kelly Greenhalgh at 547-5581, ext. 4612.

PUREX family reunion set for May 3

Former workers at the PUREX plant and their families are invited to attend a reunion and barbecue on May 3 beginning at 12 noon at the north end of Howard Amon Park near the boat launch. Bring something for the barbecue and a dish to share. Families are welcome. For more information, contact Deb Holway at 376-9980.

Mid-Columbia Symphony performs May 3

The Mid-Columbia Symphony presents its spring concert, "Family Carnival," on May 3, 8 p.m., at Pasco High School's Gregson Auditorium. Featured are percussion virtuoso James Bennett on xylophone, Haydn's "Farewell Symphony," Britten's "Young Person's Guide to the Orchestra" with narration, and winners of the 2003 Young Artist Competition. Tickets are \$27 for the gold section, \$21 for the silver section and \$12 for the bronze section. Tickets are available at the Battelle Performing Arts Business Center, 716 Jadwin, 943-6602 or 943-2787. The seating chart and concert information are available at www.midcolumbiasymphony.org.

Donate blood in May

Hanford workers will have two opportunities to donate blood in May.

- The American Red Cross will hold a blood drive on Wednesday, May 7, 9 a.m.-2 p.m. in the vehicle bay of the Al Alm Building at the Volpentest HAMMER Training and Education Center. Call Libby Sickler at 376-7117 to schedule an appointment.
- The ARC Bloodmobile will be at 2261 Stevens Drive

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Regular Features

CALENDAR continued

for a blood drive on May 20 from 9 a.m. to 3 p.m. To schedule an appointment to give blood, contact Kelly Layfield at 376-6785.

May 13 CHMM meeting features Norm Boyter

The May 13 meeting of the Eastern Washington Chapter of the Academy of Certified Hazardous Materials Managers will feature Fluor Hanford's vice president of the Spent Nuclear Fuels Project, Norm Boyter, as the speaker. The meeting will take place in the Gallery Room of the Richland Public Library and it is free and open to the public. The social and networking time begins at 6:30 p.m. and the presentation and business meeting begin at 7. During May, the chapter is holding a special membership drive. The cost to join the local chapter is only \$25 annually. You do not need to be a certified hazardous materials manager to join. If you are interested in joining, contact Mitzi Miller at 946-4985. Look for the EWC booth at the Health and Safety Expo 2003 May 6-8 at the Trade, Recreation and Agricultural Center in Pasco.

Leadership is the subject of May AQP/ASQ meeting

The May 13 meeting of the local Association for Quality and Participation and the American Society for Quality at the Richland Shilo Inn will feature Rado Harrington of Harrington Consulting Services. His presentation will focus on building success in the team development process by learning to serve others as a visionary leader. Check-in and networking begins at 5:30 p.m., the buffet dinner is at 6 and the presentation is at 7. The cost is \$16 for AQP and ASQ members, \$18 for non-members, or \$5 for the presentation only. Make your reservations by May 8 by calling 372-1442, by e-mail to lynn_l_gates@rl.gov or register via the AQP chapter's Web site at <http://www.3-cities.com/~gates/AQPQuest.htm>. Click on "What's Next" for more information about the program, speaker or the dinner menu.

Golf tournament May 14 for childrens' center

The Children's Developmental Center will hold a golf tournament on Wednesday, May 14, with two tee times — 7:30 a.m. and 1 p.m. — at the Canyon Lakes Golf Course in Kennewick. The tournament is sponsored by

the Fluor Corporation, Crazy Moose Casino and the Seattle Seahawks. The tournament features great golf, tee prizes, an auction, games and dinner provided by the Outback Steakhouse. Sponsorships are available for \$650 and \$475, and spots for individual golfers are available. The funds raised will help the Children's Developmental Center to continue providing early intervention for children from birth up to age 3 who have developmental disabilities and delays. The services provided at the Children's Developmental Center are available without charge to parents of affected children. For more information, contact Cathy Olson at 735-1062, ext. 249.

Luncheon for cancer survivors held May 17

The Tri-Cities Cancer Center and the American Cancer Society, in conjunction with the Relay For Life of Benton-Franklin Counties, are seeking cancer survivors to invite to the Survivor Luncheon that will be held 12:30-1:30 p.m. on May 17 at this year's Relay for Life in Southridge High School Stadium in Kennewick. May 17 is Survivor Day at the Relay for Life, which continues through May 18. Survivors will participate in the inaugural lap around the field and then have lunch. Each invited survivor may bring along one other person — both are the luncheon guests of the event organizers. Lunches are available for additional family members or care givers at \$3 for children and \$5 for adults. Cancer survivors have special needs and interests, and the luncheon will allow you to connect with other survivors and find opportunities to inspire and reflect. To sign up, call Kathy Kilgore at 737-3411.

Dinner and auction for Mid-Columbia Symphony

The Tri-Cities Wine Society presents the third annual "Perfect Harmony: A Fine Wine Auction and Dinner," benefiting the Mid-Columbia Symphony on Saturday, May 17 at 6 p.m. in the Lampson International Hangar in Pasco. The event will feature an auction of regional wine, original art and gift packages; a six-course gourmet dinner; and dancing to the Mancinelli Big Band. Tickets are \$90 before May 1 and \$120 thereafter. Tickets are available at the Battelle Performing Arts Business Center, 716 Jadwin, Richland, 943-6602. For more information, visit <http://www.midcolumbiasymphony.org/perfect.html>.

Calendar continued on next page.

Regular Features



CALENDAR continued

May 30 golf tournament to benefit MDA

Hanford Fire Department and the Muscular Dystrophy Association are holding their sixth annual golf tournament on May 30 at Canyon Lakes Golf Course in Kennewick. Proceeds from this event will help send local children with muscle disease to summer camp, provide research to find treatments and a cure, and assist in the purchase of wheelchairs and leg braces. The financial commitment is vital to many children and families in our community. The shotgun start is at 1 p.m. The entry fee is \$240 per foursome and includes greens fees and cart, free range balls, prizes and steak and salmon dinner after play. For more information, call Mark Cope at 373-1475.

Adopt a fish to support children's fishing derby

Safe Harbor Crisis Nursery is seeking donations to stock the Columbia Park Fishing Pond in time for a fishing derby on Saturday, June 14, for children up to 16 years of age. Derby registration is free. Help the Safe Harbor Crisis Nursery host this fishing derby by adopting fish for \$1 each. All donations may be sent to SHCN, 1111 N. Grant Place, Kennewick, WA 99336. All contributions are tax deductible and proceeds in excess of costs will be used to support SHCN. ♦



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.

POSITION ON THE HERO BOARD — The position of HERO 300 Area representative is vacant. If you would like to apply and have your manager's consent, send an e-mail message to Phyllis Roha.

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 (S5-14) or Patti Boothe (T6-04). Sunnyside Movie Theater is now offering tickets for two admissions for one show, for \$9.50 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).

UPCOMING TRIPS

• **Hood River Murder Mystery Dinner Train** — August 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. A \$25 per person deposit will secure your space. Final payment is due July 1. For more information, send an e-mail message to Linda Meigs 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 \$120 cancellation insurance and \$85 in taxes and fees. Payment in full is due at sign-up. 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 will fly round-trip from Pasco. 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.

Features continued on next page.

Regular Features



**Employee
Activities**

H.E.R.O.

continued

• **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 round-trip airfare from Pasco, 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 Jim Hopfinger 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 May 3 and the balance is 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.

• **San Antonio Christmas** — Dec. 8-12. 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. ♦



VAN POOLS

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. For more information visit the Safeguards and Security Web page at <http://apweb02.rl.gov/phmc/sas>.

KENNEWICK

Vanpool No. 97 seeks riders to 200E, 8x9s. Rate as low as \$54.20 per month. Starts in downtown Kennewick and picks up at Shopko at 6 a.m. and at the Federal Building at 6:10 a.m. Drops off at 2750-E and 2740-HV. Contact **Mike Bryden** at 373-4624. 4/28

Van No. 154, 8x9 shift, is looking for 2 riders. Van starts in southeast Kennewick (45th and Olympia), proceeds to Albertson's at Edison and Clearwater and travels to PFP and the mobile offices next to the Power House in 200 West Area. Contact **Bill Leonard** 373-1820. 4/28

RICHLAND

Low-cost vanpool to 200E needs riders. Picks up near Van Giesen and George Washington Way, near the Timbers Apartments on Jadwin and at locations between Fuller and George Washington Way and 7-Eleven. Other possible pick-up locations are along Benham between George Washington Way and Jadwin and on Jadwin between Benham and Coast. Drops off at 274-AW, 2750-E, 2704-HV and the Canister Building. Contact **Mandrake Pascual** at 372-0713 or **John Renholds** at 373-4248.

Van No. 117 to 200W has spacious seating for 8x9 riders. Round-trip from parking lot adjacent to 1019 Wright in Richland. We aren't the cheapest van, but riding our van costs less than if you drive yourself to and from work each day. E-mail or call **Gary Bush** at 372-2531. 4/28

Vanpool to 200E needs a rider, 8x9. Rate as low as \$33.50 per month. Leaves former Hanford bus lot (across from 2440 Stevens) at 6:25 a.m. and drops off at 2750-E and MO-276 (behind 2750-E). Arrives at bus lot at 5 p.m. on Mondays through Thursdays and at 4 p.m. on Fridays worked. Contact **Dave Hedengren** at 373-5094. 4/28

PASCO

Van No. 213 to 200E needs riders. Leaves Desert Ice, across from the Broadmoor Park Mall off of Road 100, at 6:10 a.m. Drops off at 2750-E and 2704-HV (or any place along the way). Willing to be a backup driver is good, but not necessary. Picks up in reverse order in the evening. Arrives back at Desert Ice around 5:20 p.m. E-mail **Douglas Bailey** at douglas_m_bailey@rl.gov. 4/21

WEST RICHLAND

Van No. 120 is looking for two riders, 8x9s, leaving Flat Top Park at 6:10 a.m. for the following destinations: 272-AW, MO-273, 2750, 272-B and 2727-E. Contact **Glenn Garman** at 372-0054 or **Curt Hedger** at 373-7935. Come sit back and enjoy the ride, and keep your gas bill down. 4/21 ♦

Regular Features



ERC announces employee performance awards

The Environmental Restoration Contractor team recognizes employee contributions and successes that are linked to job-performance excellence and the continuous-improvement objectives of the ERC. Awards associated with the various recognition levels include certificates, cash or cash-value awards and mementos.

There are four levels of awards:

The Gold Award, presented to individuals or teams whose accomplishments have an impact on ERC or are applicable to other Department of Energy sites

The Silver Award, presented to individuals or teams whose efforts have an impact at the project or function level

The Bronze Award, presented to individuals or teams whose efforts improve work-group activities or processes

The On The Spot Award, recognizing performance within the immediate workscope.

Winners listed are for the period January through March 2003.

Gold Individual Award

Jeff James

Silver Individual Award

Penney Sommers

Bronze Individual Awards

Laurie Rowse

Gayle Black

Gold Team Awards

The following employees were members of the three winning teams:

Jason Armstrong	John King
David Brehm	Monica Knappek
Joseph DeMers	Bill Mercer
Dennis Hill	Kathryn Robertson-DeMers
Tommy Houck	Loren Sahling
Steven Huddleston	John Tufford

Silver Team Awards

The following employees were members of the three winning teams:

Bruce Bennett	Donald Fugitt
Gary Bentley	Jeffrey LaPierre
Mike Cochrane	Nichol Wokajance
Jack Donnelly	Charles Young, Jr
Jonathan Fancher	

Bronze Team Awards

The following employees were members of the two winning teams:

Brandlelyn Cole	Dona Shiflet
Duane Frank	Leighton Teller
Steven Payzant	

On the Spot Awards

One hundred nine employees were recognized. ♦