

Chem-Bio News

- 1. BHOPAL TRIAL: EIGHT JAILED OVER INDIA GAS DISASTER:** "A court in the Indian city of Bhopal has sentenced eight people to two years each in jail over a gas plant leak that killed thousands of people in 1984."
- 2. PUMPING OF HANFORD TANK WASTE HALTED:** "Work started in January to remove 260,000 gallons of solids from Tank C-104, one of 142 leak-prone single-shell tanks at Hanford that still hold radioactive waste from the production of plutonium during World War II and the Cold War."
- 3. IRAN USING DUBAI TO SMUGGLE NUCLEAR COMPONENTS:** "In the latest deal, an Iranian company associated with the regime's nuclear programme has acquired control systems from one of Germany's leading electronics manufacturers. The deal was negotiated with a prominent Dubai trading company, which then sold Iran a range of electronic equipment for use at its Natanz uranium enrichment facility."
- 4. NEW AUTOMATED TOOL 'DEBUGS' NUCLEAR WEAPON SIMULATIONS:** "Purdue University researchers, working with high-performance computing experts at Lawrence Livermore National Laboratory, have created an automated program to "debug" simulations used to more efficiently certify the nation's nuclear weapons."
- 5. US ARMY CBRN DOCTRINAL PUBLICATIONS UPDATE:** A table showing the status of US Army CBRN-related publications.
- 6. HANFORD FIELD RESEARCH CENTER PROPOSED:** "Hanford officials are hoping to launch a field research center at the nuclear reservation in early 2011 to work on the problem of contaminated soil deep underground."
- 7. FBI AND SAVANNAH RIVER NATIONAL LABORATORY PUT SCIENCE TO WORK TO PROTECT THE NATION:** "The Federal Bureau of Investigation (FBI) and the Department of Energy's Savannah River National Laboratory (SRNL) today announced the opening of a major expansion of the FBI's facilities for the forensic examination of radiological material and associated evidence."
- 8. MONICA HELPS CHEMICAL UNITS SEE BEYOND AMMUNITION WALLS:** "Monica is a relatively new, remote case entry and sampling system that allows the team to drill a hole into the munition and insert a gas-tight, self-sealing probe. A sample can then be safely taken."

CB Daily Report

Chem-Bio News

BHOPAL TRIAL: EIGHT JAILED OVER INDIA GAS DISASTER

BBC

June 07, 2010

"A court in the Indian city of Bhopal has sentenced eight people to two years each in jail over a gas plant leak that killed thousands of people in 1984.

The convictions are the first since the disaster at the Union Carbide plant - the world's worst industrial accident.

The eight Indians, all former plant employees, were convicted of "death by negligence". One had already died - the others are expected to appeal.

Campaigners say the court verdict is too little too late.

Forty tonnes of a toxin called methyl isocyanate leaked from the Union Carbide pesticide factory and settled over slums in Bhopal on 3 December 1984.”

The full article can be found at: http://news.bbc.co.uk/2/hi/south_asia/8725140.stm
[Return to Top](#)

PUMPING OF HANFORD TANK WASTE HALTED

By Annette Cary
The TriCity Herald
June 06, 2010

“Work has halted to empty the only Hanford tank on which work has been under way to retrieve radioactive waste, but the Department of Energy and its contractor have ambitious plans for the remainder of the year.”

.....

“Work started in January to remove 260,000 gallons of solids from Tank C-104, one of 142 leak-prone single-shell tanks at Hanford that still hold radioactive waste from the production of plutonium during World War II and the Cold War.

But this spring the pump lowered into the tank to help remove waste hit an obstruction hidden in the sludge. It was a broken piece of an old pump that Washington River Protection Solutions had removed from the tank to make way for the pump used for waste retrieval.

"Since the waste in this tank was over 7 feet thick we had no way to see it and had to wait until we removed as much of the waste as possible before we could determine if it was going to interfere with our ability to complete waste retrieval," said Dave Saueressig, the contractor C Farm retrieval and closure manager, in a company newsletter.

Workers spent several weeks using sluicer nozzles unsuccessfully to try to move the obstruction out of the way so the working pump could be lowered further into the waste.

With a little more than 60,000 gallons of waste left in the 530,000-gallon capacity tank, Washington River Protection Solutions is working on a plan to remove the pump part and preparing to shift retrieval work to another tank.”

The full article can be found at: <http://www.tri-cityherald.com/2010/06/06/1042982/pumping-of-hanford-tank-waste.html>
[Return to Top](#)

IRAN USING DUBAI TO SMUGGLE NUCLEAR COMPONENTS

By Con Coughlin
The Telegraph (UK)
June 06, 2010

“n the latest deal, an Iranian company associated with the regime's nuclear programme has acquired control systems from one of Germany's leading electronics manufacturers. The deal was negotiated with a prominent Dubai trading company, which then sold Iran a range of electronic equipment for use at its Natanz uranium enrichment facility.”

.....

“But a detailed assessment of Iran's recent declarations to the International Atomic Energy Agency (IAEA) in Vienna has led Western officials to conclude that Iran has ended its self-imposed suspension, and has now resumed work on its military programme.

This would explain Iran's renewed attempts to smuggle banned equipment through Dubai. In the latest deal, details of which have been obtained exclusively by The Sunday Telegraph, high-grade German equipment including computers, controllers, communication cards and cables have been smuggled into Iran.

The equipment was sold to Iran without the knowledge of its German manufacturer by a Dubai-based intermediary using false end-user certificates for companies in Asia, even though the sale of technology that can be used in Iran's nuclear programme is banned under UN Security Council resolutions.

The equipment was delivered to Kalaye Electric, an Iranian company which is also subject to sanctions because of its close association with Iran's nuclear programme. Kalaye Electric is responsible for the procurement and development of the centrifuges that are used at Natanz to enrich uranium.”

The full article can be found at:

<http://www.telegraph.co.uk/news/worldnews/middleeast/iran/7805736/Iran-using-Dubai-to-smuggle-nuclear-components.html>

[Return to Top](#)

NEW AUTOMATED TOOL 'DEBUGS' NUCLEAR WEAPON SIMULATIONS

Science Daily

June 02, 2010

“Purdue University researchers, working with high-performance computing experts at Lawrence Livermore National Laboratory, have created an automated program to “debug” simulations used to more efficiently certify the nation's nuclear weapons.

The program, called AutomaDeD (pronounced like automated), finds errors in computer code for complex “parallel” programs.

“The simulations take several weeks to run, and then they have to be debugged to correct errors in the code,” said Saurabh Bagchi, an associate professor in Purdue's School of Electrical and Computer Engineering. “The error might have occurred in the first hour of operation, and if you had known about it you could have stopped it then.”

.....

“Recent research findings show AutomateDeD was 90 percent accurate in identifying the time “phase” when stalls and hangs occurred; 80 percent accurate in identifying the specific tasks that were the sources for stalls and hangs; and 70 percent accurate in identifying the interference faults.

The findings will be detailed in a research paper to be presented on June 30 during the 40th Annual IEEE/IFIP International Conference on Dependable Systems and Networks in Chicago. The paper was written by Purdue doctoral student Ignacio Laguna, Bagchi, and Lawrence Livermore scientists Greg Bronevetsky, de Supinski, Dong H. Ahn and Martin Schulz. The primary developers of the program are Bronevetsky and Laguna.

The full article can be found at: <http://www.sciencedaily.com/releases/2010/06/100601171725.htm>

[Return to Top](#)

US ARMY CBRN DOCTRINAL PUBLICATIONS UPDATE

U.S. Army Maneuver Support Center of Excellence
Army Chemical Review
Summer, 2010

The nomenclature of chemical, biological, radiological, and nuclear (CBRN) doctrinal publications will change in support of the new and ongoing Army doctrinal reengineering efforts to reduce the number of Army field manuals (FMs). The U.S. Army CBRN School will retain one Army FM and adopt the new Army tactics, techniques, and procedures (ATTP) doctrinal designator for other branch-specific manuals. Publications that essentially contain technical doctrine will become general subject technical manuals (GSTMs)."

Includes a table showing the status of US Army CBRN-related publications.

The full article can be found at: <http://www.wood.army.mil/chmdsd/pdfs/Summer%2010/Doctrine%20Update-final.pdf>

[Return to Top](#)

HANFORD FIELD RESEARCH CENTER PROPOSED

By Annette Cary
The TriCity Herald
June 06, 2010

"Hanford officials are hoping to launch a field research center at the nuclear reservation in early 2011 to work on the problem of contaminated soil deep underground.

It would tackle the problem at Hanford, but also would provide solutions for other Department of Energy sites with hazardous chemical and radiological contamination in the deep vadose zone, the area deep underground but above the water table."

.....

"It's not practical to excavate more than 60 feet below the ground's surface, but in central Hanford soil that's as much as 300 feet below the ground's surface is contaminated. The contamination spreads from the soil to the ground water and then moves through the ground toward the Columbia River.

Of primary concern are radioactive technetium 99 and uranium, said Matt McCormick, DOE assistant manager for central Hanford during a presentation to the Hanford Advisory Board. The waste comes from the PUREX and REDOX processing facilities and underground cribs where liquid was dumped to percolate through the soil.

Central Hanford also has deep vadose contamination from past spills and leaks from Hanford's underground tanks that hold 53 million gallons of radioactive waste."

The full article can be found at: <http://www.tri-cityherald.com/2010/06/06/1042985/hanford-field-research-center.html>

[Return to Top](#)

FBI AND SAVANNAH RIVER NATIONAL LABORATORY PUT SCIENCE TO WORK TO PROTECT THE NATION

Federal Bureau of Investigation Press Release
June 03, 2010

"The Federal Bureau of Investigation (FBI) and the Department of Energy's Savannah River National Laboratory (SRNL) today announced the opening of a major expansion of the FBI's facilities for the

forensic examination of radiological material and associated evidence. The FBI's newly expanded Radiological Evidence Examination Facility (REEF), located at the Savannah River National Laboratory near Aiken, South Carolina, provides a major enhancement in the FBI's ability to protect the nation from crimes involving radiological material and bring to justice those who would use these materials to harm the nation's citizens.

The first phase of the REEF opened at SRNL in 2006, providing facilities and equipment where trained FBI personnel can safely perform forensic examination on radiologically contaminated evidence. The new facility expands that original suite to about six times its original size and provides the capabilities for many more kinds of forensic examination. The new radiological forensic laboratory takes advantage of the long-standing security, safety and radiological protection capabilities already in place at SRNL while allowing the FBI to focus on forensic examination, in consultation with SRNL experts.

The expanded facility offers the FBI the ability to conduct the full spectrum of traditional forensic analysis on contaminated evidence. Working together, FBI and SRNL personnel have developed innovative solutions to adapt existing DNA, latent fingerprints, trace hairs and fiber, document exams, and forensic photography techniques for safe use in a radiation-controlled environment. For example, new microscope slide holders, as well as digital photography and x-ray capabilities have been developed. Digital fingerprint comparisons can now be conducted using secure computer terminals linked to the FBI's national fingerprint database. The REEF includes a fully functional FBI satellite office, where forensic examiners can securely share information via voice, data, or video with any other FBI office. The facility has a dedicated evidence storage room, where radiological evidence can be safely and securely stored to maintain its integrity for judicial proceedings."

The full article can be found at: <http://www.fbi.gov/pressrel/pressrel10/reef060310.htm>

[Return to Top](#)

MONICA HELPS CHEMICAL UNITS SEE BEYOND AMMUNITION WALLS

By R.J. Oriez
Army Chemical Review
Summer, 2010

"In today's world, when a suspected chemical munition is encountered, not only must the device be secured and people around it protected, but evidence must also be collected to determine who placed it there. That often requires the munition to be opened.

However, when the 110th Chemical Battalion, Fort Lewis, Washington, gets called to the scene of a suspected chemical munition, they can determine what is inside the round without having to open it. That is where the MK6, or monicaTM, comes in. Monica is a relatively new, remote case entry and sampling system that allows the team to drill a hole into the munition and insert a gas-tight, self-sealing probe. A sample can then be safely taken.

Monica is user-friendly, easy to operate, and easy to set up. It can be operated remotely from 300 meters away, so it's very safe. And, monica helps catch the "bad guys."

The full article can be found at: <http://www.wood.army.mil/chmdsd/pdfs/Summer%2010/Oriez-final.pdf>

[Return to Top](#)

END of CB Daily Report.

Send subscription requests, unsubscribing requests, questions and comments to:

Steve Tesko: Steve.Tesko@anser.org

Copyright 2008. *Analytic Services Inc.*

[Analytic Services Inc. DMCA Copyright Notice: http://www.homelandsecurity.org/bulletin/Draft_ANSER_DCMA_Copyright_Notice.htm](http://www.homelandsecurity.org/bulletin/Draft_ANSER_DCMA_Copyright_Notice.htm)

Use of these news articles does not reflect official endorsement.

In accordance with Title 17 (USC), Section 107, this material is distributed without profit or payment and is intended for nonprofit research and educational purposes only.

Reproduction for private use or gain is subject to original copyright restrictions.

PRIVACY POLICY

Content provided in the *CB Daily Report* does not reflect the viewpoint(s) of Analytic Services Inc. Analytic Services Inc. does not share, publish, or in any way redistribute subscriber email addresses or any other personal information.