

## Lab Stands Down to Consider Work Safety After Accidental Death; Most Activities, Facilities Permitted to Restart Late Monday

At 5:24 p.m. on Monday, June 23, after receiving verbal reports on the safety status of BNL's departments, divisions and offices, including the Lab's user facilities and construction sites, BNL's Interim Director Lyle Schwartz authorized "all BNL organizational units with no impediments to restart" to resume their activities and operations following a 3½ day safety stand-down ordered by the Secretary of the U.S. Department of Energy (DOE) Federico Peña on Friday, June 20.

Only five BNL activities — one within the Office of Environmental Restoration (OER), three within the Safety & Environmental Protection (SEP) Division and one within the Plant Engineering (PE) Division — did not resume Monday evening.

In addition, the Chemistry Department only resumed its research on Tuesday morning, following further safety discussions. When the Reactor Division incorporated safety debriefings following the completion of any planned work into its work-feedback process, it resumed its activities starting late Tuesday.

The Lab-wide stand-down had been ordered in response to the on-site accidental death of Bryan Schneck, a construction foreman employed by Bi-County Construction Corporation of Medford, which occurred shortly before 9 a.m. on Friday (see story right).

As a result of Peña's order, at approximately 2 p.m. on Friday, continuing through the weekend and the Monday workday, all scientific re-



Joe Rubino

**During BNL's safety stand-down on Monday, June 23, the Lab's contractors and their employees met to air their safety concerns and suggestions with Plant Engineering (PE) Division staff, including PE's Mike Schaeffer (center), Manager of Engineering & Construction Services.**

search, facilities operations and office work, as well as on-site construction, ceased while employees were gathered with their coworkers for safety discussions with their managers.

Martha Krebs, DOE's Director of the Office of Energy Research whom Peña sent to BNL on Monday to oversee the stand-down, explained to the press: "Every single unit [on the organizational chart] has found a way to meet today to talk about their work, what kind of hazards there are in their work, any imminent hazards that re-

ally affect the safety of their work and any near-term fixes, and anything else that requires attention."

She added that the time taken for

the safety stand-down "was a pause for reflection, a time to be thoughtful and have nothing else on your screen but your work and its interaction with safe practice. I personally have found these meetings very solid: People took them very seriously and are working over their problems in a responsible way."

Findings from organizational stand-downs were reviewed at 4 p.m. on Monday by Schwartz and his deputies, Peter Bond and Mike Bebon, at a meeting attended by not only BNL's department chairs, division heads and office managers, but also Paul Martin, who is the President of the Board of Trustees of Associated Universities, Inc. (AUI), and by Krebs and Tara O'Toole, DOE's Assistant Secretary for Environment, Safety & Health. O'Toole had been dispatched by Peña on Monday to oversee the start of a "Type A" investigation of the accidental death, to find its causes and make recommendations to prevent such future accidents.

As was reported to Schwartz and his deputies, because the construction (continued on page 3)

### BNL 50th Anniversary Distinguished Lecture

## Nobel Laureate Richardson to Talk On Discovering Superfluid Helium-3

When you're driving in the rain, you often see the raindrops flow upward on the car windshield.

Superfluids, however, can "climb" the walls of a container without being pushed by the wind: Their lack of internal friction allows them to flow without normal viscosity.

In 1972, while at Cornell University, three experimentalists discovered that the isotope helium-3, a rare form of helium, can become superfluid at the super-cold temperature of 0.002 on the Kelvin scale, which is about -460°F, or very close to absolute zero. This discovery not only generated great excitement within the scientific community, but also won experimentalists Robert Richardson and David Lee of Cornell University, and Douglas Osheroff of Stanford University the 1996 Nobel Prize in physics.

On Tuesday, July 1, at 4 p.m. in Berkner Hall, Nobel laureate Richardson will give a lecture on "The Discovery of Superfluid Helium-3."

In his talk, Richardson will describe the serendipitous finding of helium-3 superfluidity and review subsequent experiments that have revealed the element's properties, including comparatively large-scale effects providing information on the collective behavior of atoms in a quantum liquid. Future studies may give insight into cosmic strings.

Robert Richardson is the Floyd R. Newman Professor of Physics and Director of the Laboratory of Atomic &



**Robert Richardson**

Solid State Physics at Cornell. He joined Cornell in 1966, after earning a B.S. and M.S. in physics from Virginia Polytechnic Institute & State University and a Ph.D. in physics from Duke University.

Richardson, Lee and Osheroff's discoveries in superfluidity were recognized with the 1976 Simon Memorial Prize in low-temperature physics from London's Institute of Physics, and the 1981 Oliver E. Buckley Prize of the American Physical Society. A member of the National Academy of Sciences, Richardson was also elected a Fellow of the American Association for the Advancement of Science and of the American Physical Society.

## Foreman Bryan Schneck Killed in On-Site Construction Accident

The U.S. Department of Energy (DOE) is conducting a "Type A" investigation of the accidental death of Bryan Schneck, a 30-year-old construction foreman employed for the past ten years by Bi-County Construction Corporation of Medford. Schneck died shortly before 9 a.m. on Friday, June 20, while working in a remote area east of BNL's large water tower.

Schneck's death also resulted in Energy Secretary Federico Peña's ordering the Lab to stand down, thus ceasing its usual operations from Friday through Monday so work-site safety could be examined by all employees and organizational units (see story above).

"The entire Laboratory community is extremely saddened by the untimely death of Bryan Schneck, so I extend our deepest sympathy to his family and friends," stated Interim BNL Director Lyle Schwartz. "Investigations are now under way to determine how this accident occurred, which will help to ensure that such a tragedy never happens again at Brookhaven."

"On behalf of the U.S. Department of Energy, I extend my sincerest regrets to the family of Bryan Schneck," noted Dean Helms, the Deputy Executive Manager of DOE's on-site Brookhaven Group, who also extended his concern to Schneck's coworker involved in the accident.

Schneck was run over by a payload which was operated by another Bi-County employee. The vehicle is owned by Bi-County and had been used in on-site construction since early June. Schneck was setting the grade with a leveling stick when he was struck by the payload. He and the operator were the only workers in the area.

The accident happened east of a recharge basin that had been cleared at the end of May, as part of a sewer-pipe upgrade project being managed by BNL's Plant Engineering Division.

Using a cellular phone, the

payload's operator reported the accident via BNL's emergency extension 2222, which resulted in responses by the Lab's Police Group of the Safeguards & Security Division, the Fire/Rescue Group of BNL's Safety & Environmental Protection Division



**Bryan Schneck**

(continued on page 4)

### Moncton Declines Offer to Be Director

In an e-mail message sent on Friday, June 20, David Moncton, the Associate Director for the Advanced Photon Source (APS) at Argonne National Laboratory, informed all APS employees that he has declined the offer by Associated Universities, Inc. (AUI), to serve as BNL's Interim Director for the next four months, while the U.S. Department of Energy (DOE) seeks a new contractor to operate the Lab (see the Brookhaven Bulletin of June 20, 1997).

As Moncton noted in his e-mail, "I have informed [AUI] that I am declining their offer to become the [BNL] Director for the remaining contract period. I very much appreciate the confidence AUI showed in me to lead Brookhaven during this difficult period. However, after discussions with Laboratory management and staff, as well as DOE officials, I concluded that the prospective four-month duration of the appointment would not be sufficient to have substantial and lasting impact on the Laboratory."

## CCD Offers High-Tech Computing, Everyday Service

Deep inside building 515, in an air-conditioned room called "lab C," is a six-foot-tall blue metal cabinet with smoked-glass doors that contains the nerve center of BNL — a computer that joins the Lab to the rest of the world.

The computer is called a router — a state-of-the-art Cisco router, to be precise. A yellow plastic cord, about two millimeters wide, extends from the back of the machine. Inside the cord, which resembles an extension cord, is a microscopic fiber-optic cable that connects the Lab's computer systems to the Internet.

Mike O'Connor, Manager of Network Engineering at the Computing & Communications Division (CCD), oversees BNL's extensive computer networks, which converge in this room. "If this place goes down," O'Connor says, "The Lab is off."

With scientists processing ever-increasing amounts of information, Lab computing must keep pace, and CCD does: From installing PCs on desktops all over the site, to planning for the installation of one of the world's fastest supercomputers for an international collaboration in high-energy physics, CCD provides advanced technology, hands-on assistance and expert computing advice to all of BNL.

Headed by Ted Daniels, CCD comprises eight separate sections which, working together, meet the Lab's computing and communications needs.

### Computers Available, Anytime

Brookhaven Computing Facility Commons (BCF Commons) is the place where many BNLers take advantage of CCD facilities. It is open 24 hours a day, 365 days a year, with computing assistance available weekdays from 7 a.m. to 6 p.m.

The Commons has been modernized over the last several years, a process that is in its final phases.



In the Brookhaven Computing Facility Commons, Ed McFadden, Advanced Computer Analyst at the Computing & Communications Division (standing), reviews a three-dimensional image from CCD's visualization home page with Shain Edmonds, a summer student at CCD.

"BCF Commons represents the new look of CCD," says Ed McFadden, an advanced computer analyst.

Formerly known as the "Ready Room," the Commons houses three Apple Macintoshes and 16 X-terminals, where users can access Internet-connected computers called servers anywhere in the world. The X-terminals can also access the Sun minicomputers and the Pentium Pros at CCD, which operate under the Solaris operating system.

More powerful than PCs, these systems are used by physicists to simulate detectors and particle interactions, and by biologists to process genome sequencing data, among many other uses. "BCF offers computational power that people can't really have on the desktop or even in a small work group," says Tom Schlagel, CCD's Distributed Applications Section Head.

In addition to computers, the Commons offers three modern black-and-white laser printers and one color printer, all housed in a corner of the room called the "printer den." Soon, a new PC and a scanner will be added to the commons area: The scanner will be usable with a PC or a Macintosh and will be available any time of day.

Colorful posters, produced using the large-format color plotter, dot the wall in the Commons. For instance, the distribution of cocaine in the brain of an addict is represented by red cocaine plumes welling up and out of a bright green background; and the amino acids of the protein acetylcholinesterase snake through space as green coils, a red twisting sheet and blue string.

While the 3D pictures may look impressive, new visualization methods available at CCD go even further.

Inside the darkened 3D Visualization Theatre, visitors can watch large, colorful, 3D objects rotate in midair, seemingly suspended above the conference table. New technical developments and increased computing power allow even more: The objects can move because of 3D computer animation.

The cocaine in the addict's brain, for example, is shown in red as it pulses through the brain's blood vessels during the course of a high, then subsides.

"I think it is useful for the Lab to have a place where scientists, the public and students can gather to view their data sets on a large screen," says Ballard Andrews, a physicist in CCD's Advanced Technology & Planning Section. "Rendering scientific data sets that contain a lot of detail necessitates having a powerful graphics system."

### Bringing Colleagues Closer

Video conferencing was also once thought of as a luxury, but is becoming increasingly critical for some long-distance scientific collaborations. At CCD's Video Conferencing Facility, BNL scientists meet in real time with colleagues from all over the world.

When people are separated by eight time zones, however, they're not always equally alert during the confer-

ence. During one seven-way conference with physicists from BNL, other U.S. labs, Canada and Europe, "We had guys in their pajamas," says Chris Masullo, Technical Specialist.

A typical conference might last two hours, with documents and 3D models sometimes transmitted using the document camera. Video conferencing saves scientists tremendous amounts of time, McFadden says. "It eliminates the need for travel: That's the bottom line. It saves the Lab a lot of money."

### Faster Networking

At the Network Engineering Section of CCD, O'Connor's team maintains and improves the Lab's extensive computer network, but it also pushes the technology. The group is building a better Intranet, hoping the world will beat a path to its door. BNL has always been an Internet leader.

"We've been on the Internet since 1984, about the time it came into being," O'Connor says.

When the new National Science Foundation (NSF) network, called "Internet 2," is developed, universities will connect at speeds some 4,000 times faster than the typical modem. BNL is viewed as a valuable asset in the NYSERNET 2000 Internet proposal to NSF, O'Connor says.

When the network is developed, real-time audio and video conferencing will be possible at people's desktops, O'Connor adds. Also, because wiring will be more like conventional phone lines, data transmission will be more secure. "It will stop a lot of high-school kids from cracking passwords," he says.

Not content to simply speed up the Internet, the group also develops specialized applications. They are gearing up to handle the expected 1.5 petabytes, or 1.5 million megabytes, per year of data that the RHIC Project is expected to generate.

"Transport of these data will require completely unprecedented data rates," O'Connor says.

### A Dedicated Supercomputer

CCD is also providing a home for a massive, parallel-processing supercomputer that is being built by Columbia University researchers and CCD Hardware Services staff for the on-site RIKEN BNL Research Center, a U.S.-Japanese collaboration in high-energy physics led by Nobel Prize-winning physicist T.D. Lee.

When complete, the machine will be about the fifth-fastest supercomputer in the world, says Schlagel. It will have a single purpose: to perform calculations to describe forces that govern the behavior of quarks and gluons, thus describing fundamental properties of matter.

Though some sections of CCD push the envelope on high-speed computing, others focus on providing basic services to BNLers. O'Connor, from the Network Engineering Section, says the computer network is at least as important nowadays as the phone system. "We're treating it more like a utility," he says.

And Schlagel says that scientists should not have to worry about computers if they don't want to. Instead, they should be able to focus on their research. "Scientists should be doing science," he says. — Dan Ferber

## Hardware, Software, Video, Audio: What CCD Has to Offer BNLers

CCD offers a variety of computing and communications services to all BNLers, and its web site provides extensive information on the services available (<http://www.ccd.bnl.gov>). Just contact the CCD staff, who will gladly steer you in the right direction to help find the best technology for your computing needs. Any CCD service is available by dialing Ext. 5522 or contact the people listed below. The following are some of the services CCD provides:

- **Personal Computer Resource Center:** The place to go for PC advice. Helps BNLers and guests select, install, configure, upgrade and maintain personal computers (PC) and software for the following operating systems: DOS, Windows 3.x, Macintosh and Windows 95; helps maintain personal computer networks operating Novell Network 3.x or Windows NT. Dial the technical support line, Ext. 5444, which is open 8:30-12:00 and 1:00-5:00 p.m. on weekdays.

- **Network help:** The first point of contact for network problems is the Network Operations Center (NOC), Ext. 4159, open 7 a.m. to 6 p.m., Monday through Friday.

- **Hardware services:** Helps choose, install, configure and repair workstations, and install upgrades and peripheral equipment. Specializes in Sun, SGI and IBM workstations. Call Ext. 4145 for network and workstation problems; contact Ed Brosnan at [brosnan@bnl.gov](mailto:brosnan@bnl.gov) for other information.

- **Computer training:** CCD offers a variety of classes in UNIX and PC applications, as well as CAD training. Classes can also be arranged as needed by individual departments — see your department or division training coordinator or contact Pam Mansfield, CCD Training Coordinator, Ext. 7286, or e-mail [pam1@bnl.gov](mailto:pam1@bnl.gov).

You can also borrow a training video from the Documentation Store, room M1-28, Bldg. 515, to watch at home or in the PC training room. Software manuals can also be purchased at the store, which is open 8:30 a.m.-noon and 1-5 p.m. For more information, look up the CCD Doc Store on the CCD home page, or contact Marcia Swiss, Ext. 4144. In addition, interactive training compact discs can be obtained directly from Mansfield for use at CCD.

- **Specialty graphics:** Under special arrangement, Brookhaven Computing Facility offers a variety of specialty graphics for Lab users, including a color plotter which can make posters, a scanner and a CD writer. Contact Gordon Smith, Ext. 3216, for more information.

- **Telecommunications services:** Provides BNLers with high-quality, cost-effective, technologically current communications services, including voice mail, cellular phones, and ISDN data and Satellite Downlink services. Contact Ralph Trondle at Ext. 4171 or [trondle@bnl.gov](mailto:trondle@bnl.gov).

- **Visualization and multimedia:** 2D and 3D visualization techniques are available using state-of-the-art computer graphics. Contact Ballard Andrews, Ext. 2695, or send e-mail to [vis@bnl.gov](mailto:vis@bnl.gov).

- **Video conferencing:** Available to anyone who works at Brookhaven, for a fee of \$77.30 per hour, plus \$33.60 per hour for network connection and other miscellaneous charges. Phone the Video Conferencing Line, Ext. 8100; fill out a request form at the web site ([http://www.ccd.bnl.gov/video\\_conf/](http://www.ccd.bnl.gov/video_conf/)); or send e-mail to [videoconf@bnl.gov](mailto:videoconf@bnl.gov).

— Dan Ferber

With 3D glasses, CCD and NSLS staff are ready to view an image at CCD's 3D Visualization Theatre. To see the NSLS-produced image in 3D, bring it up to your eyes, focus on it, unfocus your gaze, then slowly pull it away until the images merge.



## Safety Stand-Down (cont'd.)

for OER's project to excavate 51 waste pits used from the mid-1950s to 1980 is similar to that in which the accident victim was involved, OER wished to delay the restart of that project. As it turned out, it was resumed on Wednesday, June 25, after OER went through a 13-page checklist with the contractor that Monday and had project workers spend Tuesday enhancing safety through equipment improvements and area modifications.

Also reported was the SEP decision to continue the stand-down at its instrumentation & calibration facility in Bldg. 348 until Tuesday, June 24, pending further clarification of the training and qualifications of its operators. Because one of the activities of SEP's personnel monitoring service uses a source within Bldg. 348, that activity was also suspended, pending a study of source procedures to be completed by July 15. In addition, SEP's analytical services laboratory would only resume operations by the end of the day Wednesday, "once its housekeeping is in order," stated Bob Casey, SEP Head.

According to PE Manager Ed Murphy, his division delayed the start of numerous construction projects until they could be individually inspected by teams of PE personnel. All construction with the exception of three projects were restarted by Tuesday afternoon. The remaining three were resumed Wednesday morning, after safety and housekeeping issues were corrected by the respective contractors.

### 'An Effective Day'

"This has apparently been a very effective day," stated Schwartz, "and it was important to hear the concerns of the people in the process. Some near-term issues must be addressed as soon as possible, and a few are sufficiently serious to delay the start-up of a particular program or facility. But, as an institution, we are going to get rolling again while addressing our individual and common issues."

"People, including our international users, took this very seriously," added Bond. "One common issue that has surfaced is the perception by some employees that upper management doesn't care about environment, safety and health [ES&H] — and we have got to change that" (see graph above). As Schwartz explained, many of the proposed solutions to the ES&H problems raised during the stand-down will not only be adopted, but will also be incorporated into BNL's Management Systems Improvement Program (see Brookhaven Bulletin, June 13, 1997).

Also during their summary session, the department heads, division chairs and office managers acknowledged their need to address such site-wide safety issues as: employees' low morale and emotional stress due to job-security worries in light of the search for a new BNL contractor, motor-vehicle speeding on site and traffic safety at the intersection of the Lab entrance with the William Floyd Parkway, and

## Concerns Raised During BNL's 1997 Safety Stand-Down



the very concept of acceptable risk and safety within the workplace.

"Safety is really hard to achieve," acknowledged O'Toole during this session. "It isn't compliance to the rules — it is thinking about how you work all the time, and it is a constant struggle. Safety isn't easy — it is a major intellectual task, especially given the advanced technology and the cutting-edge science going on at the Lab."

At the conclusion, O'Toole commented, "I am very impressed with the thoughtfulness that went into the day. What Secretary Peña intended wasn't a punishment or a [public relations] stunt, and it wasn't a vote of no-confidence in the science of the Lab: It was intended as a day to stand down and think about what it means to work safely."

### Letter to Secretary Peña

Following the management meeting that ended the stand-down, Schwartz and John Wagoner, Executive Manager of DOE's on-site Brookhaven Group, prepared a letter to Secretary Peña summarizing the results of the stand-down, which was to be delivered by Krebs, who departed for Washington, D.C., that evening.

As Peña had noted in a statement released to the press on Friday, "Activities will [not] continue until we are satisfied that everyone — from scientists to technicians to construction workers — fully understands the importance of following safety procedures, assessing risks and planning work to avoid accidents like the recent ones."

In addition to last week's fatality, Peña was referring to two other accidents on site that had occurred in June.

First, on June 3, six workers were accidentally exposed to activated material during the preparation for an experiment at the Brookhaven Medical Research Reactor; the highest dose received was the equivalent of the skin dose resulting from a dental x-ray. Then, on June 9, two workers were each contaminated with a single particle of radioactive cobalt-60 after handling mock fuel elements from the High Flux Beam Reactor (HFBR), which were found to be contaminated after the incident; the dose to each worker was extremely low.

On May 1, when Peña terminated AUT's contract with DOE to operate BNL following the discovery of a tritium leak from the HRBR's spent-fuel pool, "I sent a message to the leadership of the Laboratory that there will not be a trade-off between scientific research, and environment, safety and health. Today, I am sending the same message to all employees. We share responsibility for safety. We must change the way we do our work," he commented.

### Contractors Met by Trade

To change the way BNLers do their work, stand-down sessions were held at all organizational levels from Friday through Monday. During Monday morning, among the stand-down sessions that she and O'Toole attended, Krebs had sat in on meetings of the contractors and their workers, organized by PE in Berkner Hall.

Following discussions by six work-

ing groups organized by trade, the following general safety concerns emerged: time pressure due to unrealistic deadlines, contractors' use of questionably qualified labor, less-than-accurate maps of BNL utility locations, the lack of well-established work zones, insufficient job planning and supervision, and too little communication with those in the field.

Before they broke into the six groups, contractors and their workers sat through a general meeting, during which management's responsibility and individual responsibility for safety were discussed.

The six working groups by construction trade were: electricians; radiation decontamination and decommissioning workers; mechanical workers including heating, ventilation & cooling and sheet-metal workers, plumbers, steamfitters, etc.; site workers such as carpenters, masons, heavy-equipment operators, laborers, etc.; environmental remediation workers; and managers and owners of construction contracting companies.

According to PE's Training Coordinator Patti Bender, who facilitated the electricians' meeting, "The issue is often job performance versus job security — if you do a safe job, it often takes longer, and time is often the issue for both BNL and its contractors. Also, we have written procedures, such as on working 'hot,' but they aren't getting down to the workers." The electricians suggested enforcing and monitoring "toolbox" meetings, during which contract labor is briefed on topics related to its tradepeople.

PE's Project Coordinator Ove Dyling who mediated for the radiation workers, stated their conclusion that contractors must bring in qualified workers, and access to and the restrictions of radiation areas have to be better marked. The mechanical workers, according to PE's Project Coordinator Greg Flett, also requested better asbestos surveys and abatement before their trade enters areas.

### No Corner Cutting

PE's Construction Safety Inspector Al Schlendorf reported for the site workers that they want better safety training and work planning, and, specifically, a Lab-wide policy that more visible clothing be required to be worn while working with heavy equipment. And, Theresa Baker of the Office of Environmental Restoration presented the environmental remediation workers' need for better maps for off-site utilities.

As Mike Schaeffer, Manager of PE's Engineering & Construction Services, who oversaw the meeting and met with the contractors, concluded, "BNL's safety message is not trickling down from the contractors to the people in the field. We are willing to pay for safety, so we have to structure our contracts so we can ensure that we get what we pay for and that we don't reward contractors or their employees who cut corners. And we have to have better supervision and work planning."

— Marsha Belford

## Pianist Korevaar Plays Next BERA Concert



David Korevaar

Pianist David Korevaar will interpret music by Bach, Ravel and Beethoven in a concert on Wednesday, July 9, at 8 p.m. in Berkner Hall. The concert is open to the public and admission is charged.

On the program will be Bach's Prelude and Fugue #7 in E-flat major, as well as Prelude and Fugue #8 in E-flat minor, #9 in E major, and #10 in E minor, from "The Well-Tempered Clavier, Book 1"; Maurice Ravel's "Le Tombeau de Couperin"; and Beet-

hoven's Symphony #8 in F major, op. 93, transcribed by Liszt.

Since Korevaar's debut in New York in 1985, he has received wide critical acclaim. Currently head of piano studies at the University of Bridgeport and artist-teacher at the Westport School of Music, he has performed at, among other of the nation's most prestigious concert halls, Lincoln Center's Alice Tully Hall and the Kennedy Center.

A graduate of the Juilliard School, Korevaar studied with Earl Wild, the American virtuoso, and composer David Diamond. Korevaar has won top prizes in the William Kapell International Piano Competition and from the Peabody-Mason Music Foundation, as well as a special prize for his performances of French music from the Robert Casadesus Competition.

Tickets may be purchased at the door on the evening of the performance, or at the BERA Sales Office, from 9 a.m. to 1:30 p.m., weekdays. No seats are reserved, so come early to assure the best seats. Tickets cost \$14 for general admission, \$9 for seniors, and \$5 for students and youths under 18.

For a message about the concert, call Ext. 3550. Or, call concert committee chairman Otto Lazereth, Ext. 3448.

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## Free From OCAW: Hazwoper Training

The on-site Oil, Chemical & Atomic Workers Union (OCAW), under a grant from the National Institute of Environmental Health Sciences, will offer a free, 40-hour hazardous-waste training course for BNL and U.S. Department of Energy employees.

The course will be held twice — July 7-11 and August 11-15 — for up to 20 people per class. For more information, call Lou Evers or Steve Coleman, Ext. 4417.

## BNL's Environmental Cleanup, Budget On Agenda for Public Session

Employees, retirees, visitors, contractors, and their families and friends are invited to attend a public information session at BNL next Tuesday, July 1, from 6 to 9 p.m., in Berkner Hall.

Called "Cleanup and World-Class Science: A Vision for Brookhaven Lab's Future," the session will provide information on future environmental cleanup and protection issues, including cleanup schedules, priorities and budgets, within the context of BNL's science research mission.

At this public forum, John Wagoner, U.S. Department of Energy's (DOE) Brookhaven Group Executive Manager, will describe his vision for BNL over the next nine years, including the continuation of world-class scientific research and completion of most of the environmental remediation work at the Lab by the year 2006.

The session will allow attendees to learn about and comment on:

- **DOE Accelerated Cleanup Plan** for completing most of the Superfund environmental remediation projects at BNL by the year 2006.
- **the fiscal year 1999 environmental-management budget proposal**, which will set priorities for BNL's environmental cleanup, waste management and pollution prevention programs for that year.

Although the bulk of BNL's nearly \$400 million annual budget supports scientific research, about \$20 million is spent each year to clean up environmental contamination caused by past activities on the Lab site. This environmental remediation takes place under the federal Superfund program and is funded by DOE, which owns the Laboratory. Among the environmental issues now being addressed under Superfund are former waste-disposal areas and the plume of tritium-contaminated groundwater originating from the spent-fuel pool at the High Flux Beam Reactor.

General information on BNL's budget will also be presented at the session, and those attending may discuss budget, research and cleanup issues one-on-one with BNL and DOE employees at poster stations.

For more information, call 344-2252.

## Accidental Death (cont'd.)

and the Suffolk County Police Department. The U.S. Department of Energy was also informed, as was the victim's family.

Fire/Rescue's emergency medical technicians and ambulance arrived at the scene at 9:05 a.m. By 9:30 a.m., Suffolk County Police were at the scene, taking control of the investigation and notifying the county medical examiner, who arrived thereafter and declared the victim dead.

Because of the loss of a life, DOE initiated a Type A accident investigation. Tara O'Toole, DOE's Assistant Secretary for Environment, Safety & Health, appointed a six-person Accident Investigation Board, chaired by Edward Blackwood of DOE headquarters' Office of Nuclear & Facility Safety.

Having begun its investigation on Saturday, June 21, the board is analyzing the accident's causal factors, identifying the root causes and determining what needs to be done to prevent recurrences. The board's report

is expected to be completed by the end of July.

A resident of Blue Point, Bryan Schneck was graduated from Bayport-Blue Point High School in Bayport in 1985 and had attended New York Institute of Technology in Central Islip.

An avid sportsman, Schneck is survived by his father Henry Schneck, his brother David Schneck, his wife Jill Gierasch Schneck from whom he was separated, his paternal grandparents Adeline and August Schneck, all of Blue Point, and his maternal grandfather Milton Jackson of Johnson, Vermont.

Donations in his memory and that of his late mother Sandra, who had died of cancer, may be made to the Long Island Division of the American Cancer Society.

Bryan Schneck's death is the third on-site fatality of a worker in the 50-year history of the Laboratory: In October 1986, BNL steamfitters William Peterson and Stanley Dobzeniecki died of injuries sustained in an accident involving the Lab's steam-heat distribution system. — Marsha Belford

## Healthline Lecture In Self-Defense

A self-defense lecture and demonstration will be presented by Elizabeth Kennedy, who is the Executive Director of the American Women's Self Defense Association and an instructor in self-defense at the State University of New York at Farmingdale.

Sponsored by the Health Promotion Program of the Occupational Medicine Clinic, Kennedy's presentation will take place from noon to 1 p.m. on Wednesday, July 9, in Berkner Hall. All BNLers are invited.

To register, return the completed bottom portion of the Healthline flyer recently sent to all employees to Health Promotion Specialist Mary Wood, Bldg. 490, by Tuesday, July 8. For more information, call Ext. 5923.

### Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

## Tennis Tournament

Employees, guests, summer visitors and their spouses are invited to sign up now for the 1997 Tennis Tournament. To run from July 19 through August 15, the tournament may include men's singles and doubles, women's singles and doubles, and mixed doubles, depending upon the sign-up.

Sign up weekdays, 9 a.m. to 1:30 p.m., until noon on Tuesday, July 15, at the BERA Sales Office, Berkner Hall, where the tournament's rules are also available. The draw will be posted by Wednesday, July 16, at the BERA Sales Office and courtside. Matches may be played any time afterwards, but play must be completed by the scheduled dates.

For more information, call Jay Adams, Ext. 4994, or Joe Carbonaro, Ext. 5139.

## Don't Look Now

The Safety Glasses Office, Bldg. T88, will be closed on Wednesday, July 2. It will reopen on Wednesday, July 9.

## Summer Sunday Tours Once Again Feature Whiz Bang Science Shows

Summer is the season when BNL opens its doors to the public for Summer Sunday tours, which this year will feature the return of an old favorite — the "Whiz Bang Science Show."

Besides this Sunday's Community Open House, the Lab will be open to the public this summer for free tours on seven consecutive Sundays, from July 13 to August 24, between 10 a.m. and 3 p.m. Visitors may take guided bus tours of the site, browse a variety of science exhibits, and see the show, which will be held four times in Berkner Hall each Sunday: at 10:30 a.m., noon, 1:30 p.m. and 3 p.m.

The Whiz Bang Science Shows are led by Chris Ryon and Fred Sawicki, two teachers on summer staff of Museum Programs in the Public Affairs Office. The shows will feature lively, interactive demonstrations of basic scientific principles, for children and adults alike.

"We try to get as many kids as possible on the stage," says Janet Tempel, Museum Programs Supervisor.

Children can touch the Van de Graaff generator to learn about static electricity, listen to metal tubes resonate when heated over a burner, and see how liquid nitrogen shrinks an inflated balloon — and how fast it can freeze ice cream.

To learn about BNL's environmental problems and programs, visitors can watch a colorful tabletop demonstration of Long Island's groundwater aquifer, which shows the potential impact of pollution, and ask questions at a booth called "Ask Me," about the Laboratory efforts to clean up the environment and other current issues.

Guided bus tours of the Laboratory's physics, chemistry, biology and medical facilities will run continuously throughout the day.

Admission to Summer Sunday tours and the Whiz Bang Science Show is free and open to everyone; refreshments will be available for purchase until 2 p.m. at the cafeteria. For more information, call the Public Affairs Office, Ext. 2345.

**Jan Naidu, Safety & Environmental Protection (SEP) Division (third from right) demonstrates a tabletop model of groundwater flow and the effects of pollution in Long Island's aquifer — one of the many features of the Summer Sunday tours. The tabletop model was designed and built at BNL by Naidu**



Roger Stoutenburgh

**with: (behind table, from left) Frank Stepnoski, SEP; teacher Andrew Leonard; and college student Angela Tiganitakis. Leonard and Tiganitakis participated in summer programs offered by BNL's Office of Educational Programs.**

## In Memoriam

*The following retirees passed away recently:*

**Donald Mallory**, one of BNL's earliest employees, died on April 3. He was 90 years old. Mallory had been a post engineer at the U.S. Army's Camp Upton when it was transferred to the Atomic Energy Commission to become Brookhaven National Laboratory. So, on January 6, 1947, he became Superintendent of Buildings in BNL's Buildings & Grounds Division. He had retired on January 10, 1969, as Plant Maintenance Supervisor in the Plant Maintenance Division.

**Jacob Tillinger**, a technical specialist who had retired from the Instrumentation & Health Physics Department on April 17, 1970, died on April 19, at the age of 89. He had joined BNL on August 2, 1948, as a technician in the Physics Department.

**Marion M. Still**, who had retired from the Staff Services Division as Telephone Supervisor on December 31, 1972, died on May 11, at the age of 90. She had started at the Lab as a telephone operator on June 9, 1958.

**Edward Michaelis**, a senior accountant who had retired from the Fiscal Division on December 31, 1974, died on May 14. He was 87 years old. His first position at BNL was as a senior clerk in the Technical Services Division, beginning on December 1, 1947.

## Cashier's Hours 6/30

On Monday, June 30, the Cashier's office in Bldg. 134 will open 9:30-11:30 a.m. instead of 2-4 p.m., because the computer system of the Financial Services Division will be down.

IPAP, JCARS and Travel Systems will be available 7:30 a.m.-noon only, for the same reason.

## Deadline for BB Notices

A new deadline has been set for submitting items for publication in the Brookhaven Bulletin.

All items must be received in the Bulletin Office by noon on the Friday before the desired week of publication.

Or else!

## Free Shuttle Bus For Students, Visitors

The Lab will provide complimentary shuttle services for students and visitors living on site to local attractions on the following days in July and August:

7/4	Smith Point	noon-4 p.m.
7/12	Smith Haven Mall	10 a.m.-2 p.m.
7/19	Lab Picnic on site	no shuttle
7/26	Tanger Mall, Aquarium, Splish Splash	noon-4 p.m.
8/2	Port Jefferson	noon-4 p.m.
8/9	Tanger Mall, aquarium, Splish Splash	noon-4 p.m.
8/16	William Floyd Estate & Manor of St. George	10 a.m.-2 p.m.
8/23	Port Jefferson	noon-4 p.m.

The schedule may change due to the weather. Passengers will be picked up and dropped off in the Bell Avenue parking lot of Fleming House, Bldg. 180.

To reserve space on the shuttle, call Juanita Beatty, Transportation Office of the Administrative Support Division, Ext. 2535.

See Supplement for other news and for classified ads.

## Holiday Notes

In observance of Independence Day, the Lab will be closed on Friday, July 4. As a result, the following schedules will be in effect:

- **Brookhaven Bulletin** — There will be no Bulletin next week; the next issue will be published on Friday, July 11. The classified ad deadline for that issue is noon on Thursday, July 3. That issue, the first issue for July, will include ads for Services; Real Estate ads will run on July 25.
- **Credit Union** — The Teachers Federal Credit Union on site will be closed on Friday, July 4. The automatic teller machine in the foyer of Berkner Hall will be open throughout the holiday.
- **Food Service** — The Cafeteria will offer snack-bar service Friday through Sunday, July 4-6, from 9 a.m. to 2 p.m. The Brookhaven Center Club will be closed July 4-5; it will reopen on Sunday, July 6, 5-9 p.m.
- **Gym & Pool** — The swimming pool will be closed on Friday, July 4, through Sunday, July 6. The gymnasium, which is closed weekends throughout the summer, will also be closed Friday, July 4.
- **Omega Travel** — The office will be closed on Friday, July 4.
- **U.S. Post Office** — The service window at the Upton Branch of the U.S. Postal Service will be closed on Friday, July 4 and closed as usual over the weekend.

## Pool Schedule

The three-month summer schedule at the swimming pool will begin on Monday, July 7, and end on Tuesday, September 30. Purchase tickets at the pool during open hours:

### Open Hours\*

- **Monday through Friday**  
 11 a.m. - 1:30 p.m. employees only  
 1:30 p.m. - 2 p.m. speed swimming & training  
 2:15 p.m. - 3:15 p.m. children's lessons  
 3:45 p.m. - 8:30 p.m. employees, families & guests\*\*
- **Saturday & Sunday**  
 1 p.m. - 5 p.m. employees, families & guests\*\*

### Fee Schedule

- **Daily Admissions**  
 employee or family member \$2.00  
 guest \$3.00
- **Season Tickets** (fees not prorated)  
 Individual \$42.00  
 Family \$53.00

\* **The pool is closed on all Lab holidays.**  
 \*\* **Guest ruling:** All guests must be accompanied by the sponsoring employee. One guest per employee is permitted without prior arrangement. Advance arrangements for additional guests, up to five per employee at one time, must be made at the Recreation Office, Human Resources Division, Bldg. 185.

## Water Aerobics

Six weeks of water stretching-and-exercise classes will again be offered at the Lab pool, Bldg. 478, from 5:20 to 6:10 p.m., on Tuesdays and Thursdays. The first classes will be on July 8 and 10, respectively, for up to 25 participants per class.

Sponsored by the Health Promotion Program of the Occupational Medicine Clinic, water aerobics classes are free. Participants, however, must pay the \$2 daily pool fee or purchase a season pool pass. Employees and their spouses may sign up for one or both classes by calling Mary Wood, Ext. 5923 or Ext. 6251.

## Softball

### Results reported as of June 20

League E1		League M1	
Phoubars	8-0	Gour-Mets	6-1
Magnuts	6-1	Happy Hour	5-1
Blue Jays	3-4	Stingrays	5-1
Cleen Sweep	3-5	Hit 'n Run	2-4
System	3-5	OER Wellheads	1-5
Hammerheads	0-8	Good Timers	0-7
League E2		League M2	
Scram	6-1	Varmints	4-1
Phytinphytos	5-2	Skeleton Crew	2-1
Contaminators	4-2	Mixed Nuts	2-2
CCD	4-3	No Names	1-3
Gas House Gorillas	4-3	What's on 2nd	1-3
Hy Tech	4-3	League E3	
Feds	3-3	Bombers	4-2
Lights Out	3-4	Sure Fire	4-2
Phase Out	1-6	Sultans of Swat	3-3
Mesocyclones	0-7	Medical	1-5

## Registration due? License due?

Drop completed NYS Department of Motor Vehicle (DMV) forms at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m. to 1:30 p.m., for DMV pickup on Mondays and Thursdays. Turnaround time will be only 48 to 72 hours! Forms are available at the BERA Sales Office or in the lobby of Human Resources, Bldg. 185.

## Classified Advertisements

### Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status.

Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a complete list of all job openings; use a TDD system to access job information by calling (516) 344-6018; or access current job openings on the World Wide Web at <http://www.bnl.gov/JOBS/jobs.html>.

### LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 0087. OFFICE SERVICES POSITION - (part-time, term appointment) Requires an AAS or equivalent experience, and excellent oral and written communication skills. Experience using UNIX workstations and familiarity with editors and standard system utilities such as e-mail is highly desirable. Will assist the Protein Data Bank staff in processing newly deposited entries, prepare quarterly releases, edit entries, and assist in the preparation of manuals and documents. Biology Department.

DD 4545. ADMINISTRATIVE POSITION - Requires a bachelor's degree in business administration or equivalent, related experience, and knowledge of Lab administrative policies and procedures. Knowledge of LOTUS 1-2-3, EXCEL and/or PC databases also required. Will be responsible for NSLS operating budgets, including compensation, organizational burden account, as well as administrative tasks as assigned by the Deputy Department Administrator. National Synchrotron Light Source Department.

### OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 4115. P&GA CLERK B - (temporary) Under direct supervision and administrative direction, performs routine clerical functions in assigned areas of Photography or Graphic Arts. Requires proficiency in basic clerical skills. Works from written or oral directions. Requires high school diploma or equivalent plus prior work experience. Information Services Division.

DD 4054. ELECTRICIAN POSITIONS - (temporary) Under minimum supervision and in accordance with the national electrical codes or as otherwise directed, lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. May be required to perform similar duties on other-than-maintenance-division equipment and facilities. Plant Engineering Division.

DD 3104. TECHNICAL POSITION - (term appointment, reposting) Requires an AAS in electronic technology or equivalent and significant relevant experience. Will assemble, test and troubleshoot complex electronic circuits, including rf, analog and digital for the RHIC RF Group. Must work from schematics, mechanical drawings and verbal instruction. RHIC Project.

DD 3107 TECHNICAL POSITION - (term appointment, reposting) Requires an AAS in electronic technology or equivalent and significant relevant experience. Must work from wiring diagrams, schematics, mechanical drawings and verbal instructions. Will assemble, wire and test assemblies such as high-voltage power supplies, rf amplifiers and associated control circuitry. RHIC Project.

A BNL 50th Anniversary Celebration

## SIDEWALK ART SHOW

Sunday, June 29,  
noon to 6 p.m.\*

Come to view (and perhaps to buy) the works displayed by talented professional and amateur artists, sculptors and photographers at the Sidewalk Art Show sponsored by the BNL Art Society.

The show will be held around Berkner Hall if the weather is fine, or in the Brookhaven Center, if it is wet.  
 \*Artists: please register first at the Brookhaven Center, 10-11:30 a.m.