

## BNL's Quiet Jackhammer Wins Popular Science Award

*Popular Science* has chosen BNL's device for cutting concrete as one of this year's 100 most significant technological innovations.

Developed by researchers in the Energy Sciences & Technology Department (ES&T), the winning technology, RAPTOR (for rapid cutter of concrete), is a quieter, safer, more efficient and environmentally friendly alternative to the conventional jackhammer.

The awards were presented on November 9, in Manhattan. The award-winning inventions will be featured in the December "Best of What's New" issue of *Popular Science*.

Mano Subudhi, BNL's principal investigator on the project, commented, "We expect the device to be at least 25 percent faster than the jackhammer, and safer and more worker-friendly. Since it will be quiet enough to use at night, it should decrease traffic congestion during the day."

As well as Subudhi, the BNL RAPTOR team includes Gaby Ciccarelli, the lead inventor,

who has left BNL for Queens University, Ontario, but is a consultant on the RAPTOR project; Jim Higgins, Robert Hall, and Louis Gerlach, all of ES&T. James Powell, a retired nuclear engineer from BNL, conceived the original idea for breaking concrete with high-speed projectiles.

Since 1996, BNL researchers have been developing RAPTOR with the Gas Research Institute (GRI) of Chicago under a Cooperative Research & Development Agreement. GRI holds the license to the technology, which the company projects will be marketed within a year. Other RAPTOR sponsors are: Keyspan Energy/Brooklyn Union, Consolidated Edison Company, N. Y., and Southern California Gas Company.

RAPTOR also won a 2000 *Discover* magazine award for technological innovation in June. For more information, see the Bulletin of June 30, 2000, available on the World Wide Web at [www.pubaf.bnl.gov/bulletin.html](http://www.pubaf.bnl.gov/bulletin.html).

— Diane Greenberg

**Pictured with their prize-winning device are RAPTOR researchers (from left) Jim Higgins, Gaby Ciccarelli, Mano Subudhi and Louis Gerlach.**



## DOE to Compensate Sick Workers

In April of this year, Energy Secretary Bill Richardson announced a proposal to compensate workers made ill from chemical and radiation hazards associated with designing, testing and building nuclear weapons. This summer, Congress reached an agreement to provide a new entitlement program for workers who developed cancer and lung disease as a result of exposure to radiation, beryllium or silica.

The legislation applies to DOE employees, its contractors and subcontractors, companies that provided beryllium to DOE, and atomic weapons employers (defined as a private company that processed material that emitted radiation and was used in the production of atomic weapons). Also, DOE will assist workers with other occupational illnesses in filing state workers' compensation claims once agreements to do so have been entered into between DOE and the states.

Under the legislation, several thousand workers (or their survivors) will be eligible to receive \$150,000 plus prospective medical payments. Workers will also be able to apply for lost wage payments through state compensation programs.

According to DOE, most of the workers who would benefit from this proposal have worked at the department's Hanford Reservation (WA), Oak Ridge Reservation (TN), Savannah River Site (SC), Nevada Test Site, Rocky Flats Environmental Technology Site (CO), Pantex Plant (TX), Mound Plant (OH), Lawrence Livermore National Laboratory (CA), Los Alamos National Laboratory (NM), Fernald Environmental Management Project (OH) and the gaseous diffusion plants in Paducah, KY.; Portsmouth, OH; and Oak Ridge, TN.

For more information, go to <http://www.eh.doe.gov/benefits/index.html>, or call the DOE workers' compensation helpline at (877)447-9756.

## DOE Establishes Upton Ecological Research Reserve



**As children from the Ridge Elementary School received certificates for scientific achievement and environmental research from Secretary Richardson (back, right) and Senator Schumer (second from right), celebrating with them were (from left) Lab Director John Marburger and Longwood School District staff and administrators Martha Lackner, Candee Swenson, and Barbara Gerstenlaur. Later, Bellport High School staff William Griffiths, Lois Etzel, and Phyllis Decatur were also present as Bellport students received certificates.**

Secretary of Energy Bill Richardson dedicated 530 acres of land from BNL's site to the U.S. Fish & Wildlife Service at a ceremony held in Berkner Hall on Thursday, November 9. Accompanied by Manager of DOE's Chicago Operations Office Robert San Martin, U.S. Senator Charles Schumer, Laboratory Director John Marburger, Regional Director of the U.S. Fish & Wildlife Service Susan McMahon, and Executive Director of the Central Pine Barrens Commission Ray Corwin, Richardson announced the establishment of the Upton Ecological Research Reserve.

"Today Brookhaven will assume a new role. With the help of the U.S. Fish & Wildlife Service and Long Island communities, we are making a public commitment to preserve this land and make it available for educational activities

and ecological research," noted Richardson in a DOE press release about the event.

The Secretary also outlined plans to increase Brookhaven's environmental cleanup budget from \$22 million in FY 2000 to \$35 million in FY 2001 and beyond. This increase in funding will shorten cleanup completion from 2006 to 2004. Richardson's plan also includes an additional \$1.2 million to deploy new technology that will enhance reactor cleanup.

"I know that the community has been frustrated with the Laboratory in the past," said Marburger. "One of the reasons they [the community] want us to get this cleanup over with is because they would like us to get back to the business of science. We are very proud of what we do here. Brookhaven is a world leader in

(continued on page 2)

## 358th Brookhaven Lecture

### U.S. Helps Russia Enhance Nuclear Security

Following the breakup of the Soviet Union, economic difficulties in the successor countries and world incidents of terrorism caused concern that formerly well-guarded nuclear materials in Russia might be at risk. The U.S. and Russia started a joint program to upgrade controls on nuclear materials that could be turned into weapons.

Thus, since 1994, BNL and other DOE national labs have

been working together with Russian research institutes and production companies on what is called MPC&A — material protection control & accounting. The program is supported by the DOE Office of Defence & Nuclear Nonproliferation.

To describe some of BNL's work in this program, Leslie G. Fishbone, Department of Nonproliferation & National Security (NNS), will give the 358th

Brookhaven Lecture, on "Partnership for Nuclear Safety: the U.S. Helps Russians Help Themselves."

The talk will be held on Wednesday, November 29, at 4 p.m., when Joseph Indusi, NNS Acting Chair, will introduce the speaker.

As Fishbone will explain, BNL's long history of technical assistance with world nuclear safeguards, which dates back some 35 years, is an invaluable resource in the present work. BNL has emphasized the key role of procedural upgrades, particularly in determining the amount of nuclear material processed and on inventory.

Some of the equipment now used to check and verify materials, for example, was developed by Lab staff — one such device improved the accuracy of measurements of plutonium in solutions.

Fishbone earned his Ph.D. in 1972 from the University of Maryland, with a dissertation on black hole relativistic astrophysics. He joined BNL in 1977, and for the last 20 years, he has worked in the area of nuclear material safeguards. His first Brookhaven Lecture, given in 1988, also focussed on nuclear safeguards.

Refreshments will be served before and after the lecture. For information on accompanying the lecturer to dine off site that evening, call Maureen Anderson, Ext. 4227.



Leslie G. Fishbone

Roger Stoulenburgh CHN-13400

## Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall. It is open on weekdays from 9 a.m. to 3 p.m. For more information on BERA events contact Andrea Dehler, Ext. 3347 or M. Kay Dellimore, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the Laundry Room—both located in the apartment area
- The Recreation Building is located in the apartment area.
- Calendar events flagged with an asterisk (\*) have a longer story appearing in this week's Bulletin.

### \* Health Care, Dependent Day Care Reimbursement Accounts Deadline November 30

Enroll now in these accounts. Forms are available in Bldg. 185. For more information, contact the Benefits Office, Ext. 2877.

### Each Week

#### Tuesdays: Welcome Coffee

10-11:30 a.m. Recreation Bldg. Newcomers meet friends. Mimi Luccio, 821-1435 — Hospitality event.

#### Wednesdays: On-Site Play Group

9:30 a.m.-11:30 a.m. Recreation Bldg. Parents can meet while children play. Free, drop in any time. Monique de la Bey, 399-7656. — Hospitality event.

#### \*Wednesdays: Dance Club

Brookhaven Center North Room Latin & Swing Dance Club - Marsha Belford, Ext. 5053.

#### Wednesdays: Yoga Practice Sessions

Free, 12:10-12:50 p.m. Recreation Bldg. More information: Ext. 3924.

#### Tues. & Thurs.: Aerobic Dance

5:15 p.m., Recreation Bldg. \$4 per class or \$35 for any 10 classes. Pat Flood, Ext. 7886, Susan Montelone, Ext. 7235.

#### Mondays & Thursdays:

##### \*Christmas Concert Rehearsals

Come, sing at noon, Mons. & Thurs., 11/27 to 12/18, Berkner Hall. Liz Seubert, Ext. 2346, Bob Miltenberger, Ext. 2503.

#### Mon., Tues., & Thurs.:

##### Cardio Kickboxing

Day Classes: noon-1 p.m. Evening Classes 5:15-6:15 p.m. Mary Wood, wood2@bnl.gov.

## — THIS WEEKEND —

Saturday, 11/18

#### \*Thanksgiving Dinner

5:30 p.m. - Recreation Bldg. Bring family, friends, and a dish to share. Turkey and drinks will be provided. Contact Hospitality Chair Mimi Luccio, 821-1435 or Rumiko Taketani, Ext. 1004.

## — NEXT WEEK —

Mon. 11/20 - Wed. 11/22

#### \*Lab Community Art Show

11:30 a.m.-1 p.m., Berkner Hall 5-7 p.m., 11/20: Opening Reception, refreshments. Contact Bob Chrien, Ext. 3903 or Liz Seubert, Ext. 2346.

Tuesday 11/21

#### New Horizons Computer Training Information

11 a.m.-2 p.m., Berkner Hall.

## In Memoriam

Frederick Merritt, a senior technical associate in the Instrumentation Division when he retired on 8/31/1986, died at 72 years old on 2/18/1999. Having arrived on 2/27/1951, he had served BNL for 35 years.

Ruth Korsos, who came to the Medical Department on 2/24/1948 and retired as Supervising Nurse on 6/30/1971, died on 3/15/1999. She was 90.

Su Tang Lin, who joined the Physics Department on 7/8/1963, died at 93 on 4/23/1999. He had retired as an associate physicist on 6/30/1971.

Virginia Pond, who served for more than 40 years in the Biology Department, died on 8/22/1999. She was 73, and had used a wheelchair since having polio at age 9. She had retired as Biology Associate on 5/31/1991.

Dorothy Luther, who joined the Plant Maintenance Division on 8/18/1958, died on 8/30/1999, at the age of 78. As a laundry operator A, she had retired on 8/31/1985.

Norman Franklin joined the Physics Department on 3/12/1962, retired as a technical project supervisor from the Accelerator Development Department on 3/31/1991, and died on 10/12/1999. He was 70.

Robert Love, a physician who had joined BNL on 10/1/1947 and retired as Senior Scientist on 6/30/1978, died on 10/13/1999, at 86. He had served for 23 years as Division Head of the Medical Clinic: 1949-1951, and 1958-1978.

Robert Gallagher, who joined the National Synchrotron Light Source Department on 4/1/1984 after an 11-month guest appointment, died on 10/16/1999, at 73 years of age. A senior designer, he had left the Lab on 11/11/1988.

George Apelskog, who joined the Central Shops Division as a machinist on 4/8/1968, died on 11/28/1999, at the age of 74. He had retired as a tool and instrument maker on 7/31/1989.

John P. Blewett, who joined BNL in 1947 and retired as a senior physicist on 6/30/1978, died on 4/7/2000. He was 89.

Blewett played a significant role in developing the Lab's particle accelerators, helping in designing the Cosmotron and Alternating Gradient Synchrotron (AGS). He was the first to apply the principle of strong focusing to a linear accelerator.

In 1945, he had first observed, then experimentally verified, synchrotron radiation — a discovery that eventually resulted in experimental facilities such as the National Synchrotron Light Source, for which he made the initial proposal.

Blewett was AGS Deputy Chairman 1960-73. A Fellow of American Physical Society (APS), among other institutions, in 1993 he won the APS's Robert R. Wilson Prize for outstanding achievements in the physics of particle accelerators.



A group of BNL's United Way fund-drive captains preparing for this year's campaign.

Roger Stoutenburg CN1-17-00

Beth Blevins, chair of this year's United Way campaign at BNL, hosted the captain's kickoff breakfast on Monday, November 13.

if you have not received a form or if you have any questions. (See list of captains below.)

A holiday auction is planned for Tuesday and

Wednesday, December 19 and 20, in the Berkner Hall lobby, 11 a.m.-2 p.m. Items up for bid will include gift certificates to local merchants.

The United Way's Volunteer Days Program is also under way. A list of agencies currently seeking volunteers is available at [www.bnl.gov/bnlweb/unitedway.html](http://www.bnl.gov/bnlweb/unitedway.html). All captains have a list of agencies for volunteer hours as well as the specific details of the Volunteer Days Program.

At the conclusion of the breakfast, Laboratory Director John Marburger remarked on how appropriate this year's theme, "Hand in Hand, Reaching for the Stars" is for BNL.

"The theme symbolizes the everyday cooperation that is displayed here — from the cooperation between the Laboratory and its stakeholders to the cooperation of scientific collaborations working together — there is no question that some jobs are just too big for us to do by ourselves. The United Way reaches its goals by facilitating group effort," he said.

— John Galvin

#### This year's United Way Campaign Captains are:

Audrey Blake .....	Magnet
Tracy Blydenburgh .....	Safety & Health Services
Gail Brown .....	Energy Sciences & Technology
Sheila Bubka .....	Emergency Services
Lois Caligiuri .....	Chemistry
Diane Carlson .....	Occupational Medicine Clinic
Susan Cuevas .....	Budget Office
Debbie Doyle .....	Medical Department
Ray Dumont .....	Instrumentation
Lenore Dudzick .....	Environmental Sciences
Ann Emrick .....	Biology
Tirre Farmer .....	Plant Engineering
Maureen Fazzio .....	Business Systems Division
Sue Foster .....	Human Resources
John Galvin .....	CIGPA
Linda Hanlon .....	Energy Sciences & Technology
Marie-Louise Hobson .....	Financial Services
Betty Ivero .....	Environmental Sciences
Debbie Keating .....	Procurement & Property Mgt.
Claire Lamberti .....	Ctr. for Data Intensive Comp.
Maryann Larese .....	Energy Sciences & Tech.
Jack Laurie .....	Information Services
Elliott Levitt .....	Internal Audit Office
Karen Liebermann .....	Reactor
Ali Lopez .....	Energy Sciences & Technology
Christine Madonia .....	Collider Accelerator
Nancy Manning .....	Biology
Pam Mansfield .....	Information Technology
Lois Marascia .....	Director's Office
Mindy Markstaller .....	Safeguards & Security
Renee McNeil .....	Business Systems
Vera Meier .....	Staff Services
Eileen Morello .....	NLS
Barbara Roland .....	Energy Sciences & Technology
Barbara Royce .....	Environmental Services
Joanne Rula .....	Environmental Restoration
John Searing .....	SBMS, Training & Quality Mgmt.
Anna Seda .....	Environmental Sciences
Bonnie Sherwood .....	Physics
Barry Siskind .....	N&NS
Rich Spellman .....	Central Shops
Lori Stiegler .....	Collider Accelerator
JoAnn Totans .....	Information Services
Warren Voegelin .....	Waste Management

## Richardson Establishes Upton Ecological Reserve

(cont'd.)

science, and we would like to be a leader in sharing that science with the next generation. I feel as though all of these interests are coming together here today."

Referring to BNL as the "crown jewel of Long Island," Schumer described the Lab's environmental cleanup status as, "being on the last page of an unfortunate chapter in its history. The Lab and surrounding community are starting to look to the future."

Immediately following the announcements and dedication, Richardson and Schumer presented certificates of recognition to students from Ridge Elementary School and Bellport High School for scientific achievement and environmental research.

Richardson then toured the Upton Ecological Research Reserve site, which is located on

BNL's eastern boundary. The Energy Department has preserved over 200,000 acres of unique wild lands with important natural significance.

The latest example of DOE's commitment to protect the environmental assets of its sites, the Pine Barrens land in the Upton Reserve creates a unique ecosystem of forest and wetlands, home to more than 220 species of plants and 162 species of mammals, birds, reptiles, and amphibians. It provides habitat for approximately 27 endangered or threatened species, or species of special concern — including the endangered eastern tiger salamander and the state-threatened banded sunfish. Other wildlife of interest in the reserve habitat include wild turkey, red fox, eastern box turtle, and red-tailed hawk. — John Galvin

## Hospitality Events

*Thanksgiving Dinner, 11/18*

A Thanksgiving Dinner will be held at the Recreation Bldg. tomorrow, Saturday, November 18, at 5:30 p.m. Bring your family, friends, and your favorite dish to share. Turkey and soft drinks will be provided. For more information, contact Hospitality Chair Mimi Luccio, 821-1435, or, on site, Rumiko Taketani, Ext. 1004.

### Co-op Baby-sitting

Anybody interested in joining a new cooperative baby-sitting program, contact Nora Robles, 345-3204, atomsfamily@altavista.com.

## Noon Recital, 11/29 USB Opera at BNL

The Stony Brook Opera Ensemble will present a not-to-be-missed program of semi-staged opera scenes from well-known operas, sung in the original languages and accompanied by piano at noon in Berkner Hall, on Wednesday, November 29.

The ensemble features voice students in the Department of Music, USB. The program will include scenes from Verdi's *Rigoletto*, Offenbach's *The Tales of Hoffmann*, and Mozart's *Don Giovanni* and *Così fan tutte*.

Noon recitals are free and all are welcome.

## IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, November 27, at 6 p.m. in the Knights of Columbus Hall, Railroad Avenue, Patchogue. There will be a meeting for shift workers at 3 p.m. at the union office. The agenda includes regular business, committee reports and the president's report.

## New Retirement Funds

On January 1, 2001, eleven additional funds will be available for both the 401(a) and 401(k) retirement plans. Fidelity Investments and the Vanguard Group representatives will give an overview of these new funds on Tuesday, November 28, at noon in Berkner Hall. Anyone interested in attending this overview should complete the registration form and return it to Joyce Wund, Bldg. 185, by Monday, November 20. Check your mailbox for registration forms.

The new funds are: Fidelity Diversified International, Fidelity Overseas, Freedom Income Fund Freedom 2000 Fund, Freedom 2010 Fund, Freedom 2020 Fund, Freedom 2030 Fund, Freedom 2040 Fund, Vanguard Explorer, Vanguard Total International Stock Index, and Vanguard International Growth.

## BNL Gospel Choir Concert, 11/26

The BNL Gospel Choir will give a concert at the Long Island Museum at Stony Brook on Sunday, November 26, from 3 - 4 p.m. You can view the announcement on line at: [http://www.museumsatstonybrook.org/complete\\_listing.asp?ID=56](http://www.museumsatstonybrook.org/complete_listing.asp?ID=56). For more information, call Fran Ligon, Ext. 3709, or Nancy Manning, Ext. 5744.

## Donations Needed

Haven House, Brentwood, supports the homeless. They need baby and personal items, such as toothpaste and toothbrushes, combs, toiletries, garbage bags, etc. Drop your gift at the Cashier's Office, Bldg. 134, now through 12/15.

## Corrections

In the photo caption for the story "BNL collaborates on \$4.5-Million Protein Structure Study" in the Bulletin of November 3, the name of structural genomics team member Nancy Manning, Biology Department, seated fifth from left, was accidentally omitted.

The November 3 Bulletin and a Lab-wide broadcast announced that fencing would be extended around the Relativistic Heavy Ion Collider (RHIC) to close a portion of Thomson Road behind the Alternating Gradient Synchrotron (AGS). The notice should also have read that the closing is to ensure that under no circumstances will there be a possibility of having unwarranted radiation levels in an uncontrolled area. Local traffic will be able to use access roads to Bldg. 1006B and to the RHIC outer ring road.

## Lab Community Art Show Opens Monday, Berkner Hall

Sponsored by the BNL Art Society and BSA, the Lab Community Art Show will be held in Berkner Hall, Rooms B and C, from Monday to Wednesday, November 20-22, 11:30 a.m.-1 p.m. daily, with an opening reception on Monday, 5-7 p.m., at which wine, soda, and hors d'oeuvres will be offered. All are invited.

### View High School Artist's 'Discovery' Exhibit

Also on display at the show will be the winning entry of a local high school artist who has interpreted the theme of "Discovery." The work will have won a \$500 U.S. Bond given on behalf of BSA by the BNL Art Society at the 2000 High School Art Show sponsored by the South Bay Art Association in Bellport, November 17 and 18.



Wally Mangel of the Biology Department, pictured above, is one of the many BNLers, Lab guests, and their family members who will exhibit their art at the Lab Community Art Show next week. One of Mangel's works (right, center) that will be in the art show is entitled "Anne." It was done several years ago in Berkeley, California, entirely out of colored tape, the kind used in biochemistry laboratories. The other drawings are charcoal studies.

## Calendar

(continued)

Tues., 11/21 & Wed., 11/22

### \*BERA Book Fair

10 a.m. - 3 p.m., Berkner Hall

Sunday, 11/26

### \*BNL Gospel Choir Concert

3-4 p.m. at the Long Island Museum at Stony Brook. Contact Fran Ligon, Ext. 3709 or Nancy Manning, Ext. 5744.

—WEEK OF 11/27—

Wednesday, 11/29

### \*USB Opera at BNL

noon, Berkner Hall. Stony Brook Opera Ensemble will present opera scenes.

### Brookhaven Lecture

4 p.m., Berkner Hall. Leslie Fishbone, "Partnership in Nuclear Security: Helping the Russians Help Themselves."

Thursday, 11/30

### Bridge Club

7:15 p.m., Berkner Cafeteria contact Morris Strongson, Ext. 4192, mms@bnl.gov.

—WEEK OF 12/4—

Saturday, 12/9

### Radio City Christmas Show

BERA event — Sold out.

Monday, 12/11

### \*Peconic Poster Session

6-9 p.m., Berkner Hall.

Tuesday, 12/12

### \*Peconic Cleanup Workshop

8:30 a.m.-5 p.m., Berkner Hall.

Friday, 12/15

### \*Holiday Dinner Party

7 p.m., Knights of Columbus Hall, Patchogue. Tickets \$25, purchase by 12/8. Contact Charles Gardner, Ext. 5214, Louie Nieves, Ext. 4897, BERA Sales Office, Ext. 3347.

Saturday, 12/16

### \*Holiday Program

3 p.m., Berkner Hall. The Afro-American Culture Club Holiday Program features a BNL gospel concert, guest speakers and Santa Claus. Shelby Bowers, Ext. 4660.

## Water Key

At the BNL Water Quality booth at Healthfest, 303 BNLers participated in the drinking-water taste test. While the results will be published along with a wrap-up of all Healthfest activities in a future Bulletin, below is the key to the double-blind taste test:

sample	water supplier
A	Dix Hills Water District
B	SCWA
C	BNL
D	Aqua Cool

## Arrivals & Departures

### Arrivals

Richard M. Allingham  
Staff Services

Carl W. Eyler  
Information Technology

Timothy P. Lenahan  
Plant Engineering

David M. Masem  
Information Technology

### Departures

Alfonso A. Canedo  
Plant Engineering

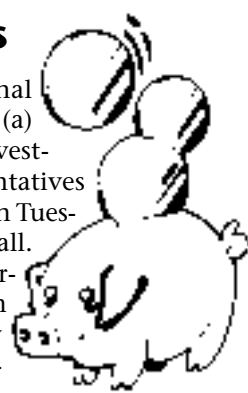
Richard W. Ibbotson  
Physics

Kurt Vetter  
Physics

## Outreach Program Set Limits With Your Child

Psychologist Anne Smith will present "Limit Setting With Your Child: Why it is Hard to do and Why it Matters," on Tuesday, November 21, noon-1 p.m., Berkner Hall. Smith's talk will include a discussion of why limit setting is often difficult for parents and how to develop the capacity to feel good about limit setting.

Look for registration forms in the mail. Participants may register at the door, space permitting. The program will be available on cassette in the Research Library.



## Calling Carolers!

Starting after Thanksgiving on Monday, November 27, all members of the Lab community, including guests and families, are invited to meet in Berkner Hall auditorium at noon sharp on Mondays and Thursdays to rehearse for the annual Christmas Concert in the Cafeteria, which will be held early in the week of December 18.

Singers are urgently needed for all parts: soprano, alto, tenor and bass. All who can sing in tune are welcome! It is not necessary to be able to read music. For more information, call Liz Seubert, Ext. 2346; Bob Miltenberger, Ext. 2503.

## BERA Notes

### Book Fair Next Week

BERA will sponsor a Book Fair in Berkner Hall on Tuesday and Wednesday, November 21-22, 10 a.m.-3 p.m. Books will be fun reading, ranging from children's stories to cookbooks to *New York Times* best-sellers. New, hardcover books will be in stock and sold at up to a 70 percent reduction.

Some gift items will also be available. Credit cards and checks will be accepted. For more information, call Andrea Dehler, Ext. 3347, or M. Kay Del-limore, Ext. 2873.

### Holiday Dinner Party Friday, December 15

Get into the holiday spirit — join with co-workers to attend the 3rd Annual BERA Holiday Party, to be held at the Knights of Columbus Hall in Patchogue, on Friday, December 15, at 7 p.m. All BNL and BSA employees, facility users, and their guests are welcome. Tickets are \$25 and must be purchased by December 8. Call Charles Gardner, Ext. 5214, Louie Nieves, Ext. 4897, or the BERA Sales Office, Ext. 3347.

### Islanders Tickets

Save up to \$9.50 on discounted tickets available at the BERA Store, Berkner Hall, for the following New York Islanders' games:

Sun., 12/3 vs. New Jersey, 1 p.m.  
Sat., 1/13 vs. Pittsburgh, 7 p.m.  
Fri., 2/9 vs Philadelphia, 7:30 p.m.  
\$39.50 tickets @ \$31  
\$28.50 tickets @ \$19.

## Watch Your Step



The Safety Shoe Office will be closed on Monday, November 27, and will reopen on Tuesday, November 28.

## Afro-American Culture Club Holiday Program

The Afro-American Culture Club is hosting a Holiday Program on December 16, at 3 p.m., in Berkner Hall. The program will benefit under-served community children of ages 12 and under.

The theme of the program is, "The Gift of Giving." BNL's Gospel Choir will participate. Santa will give each of the children a holiday gift. To make this program a success, the club would appreciate the sponsorship of children by BNL employees. Contact one of the following members if you would like to sponsor a child for this event:

Carol Bell, Ext. 2587  
Shelby Bowers, Ext. 4460  
Robert Brown, Ext. 4216  
Leon Lawrence, Ext. 2907  
Arlan Vanslyke, Ext. 4267  
Ralph Wilson, Ext. 3900.

## Holiday Notes

The Lab will be closed on Thursday and Friday, November 23 and 24 for Thanksgiving. As a result, the following schedules will be in effect:

**The Bulletin** — There will be no Bulletin next week; the next issue will be published on Friday, December 1. The classified ad deadline for that issue is noon on Wednesday, November 22.

**Credit Union** — The Teachers Federal Credit Union on site will be closed on Thursday, November 23, and will be open on Friday, November 24.

**Food Service** — The Cafeteria will be closed on Thursday, November 23 and will be open on Friday, Saturday, and Sunday, November 24-26, from 7:30 a.m. until 2 p.m. The Brookhaven Center Club will be closed for dinner on Thursday through Saturday, November 23-25, and will reopen on Sunday evening, November 26, 5 p.m.-9 p.m.

**Gym, Pool, Omega Leisure Travel Office, Recreation Hall, & Library** — Will all be closed from Thursday through Sunday, November 23-26.

**U.S. Post Office** — The service window at the Upton Branch of the U.S. Postal Service will be closed on Thursday, November 23, and will be open until noon on Friday, November 24.



## BNL Cats Need Homes Call Ext. 4305

## Defensive Driving

The training group of the Safety & Health Services Division will offer a six-hour defensive driving course at \$23 per person, on Saturday, December 2, 9 a.m.-3:30 p.m., in Berkner Hall, Room B.

The course is open to BNL, BSA and DOE employees, BNL facility-users, and their families, at \$23 per person. To register, send a check to Empire Safety Council, care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. All checks must be received by November 24. Include your phone number in case you need to be contacted.

## Classified Advertisements

### Placement Notices

The Lab'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 list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at [www.bnl.gov/JOBS/jobs.html](http://www.bnl.gov/JOBS/jobs.html).

**LABORATORY RECRUITMENT** - Opportunities for Laboratory employees.

DD7036. ADMINISTRATIVE POSITION — Requires a BA degree or equivalent experience, excellent demonstrated organization skills and excellent oral and written communication skills. Speed and accuracy for extensive database entry in addition to good Word and MS Outlook skills and the ability to act independently also required. Will act as backup to Official Point of Contact for foreign travel and will make administrative decisions for foreign travel when necessary. Responsibilities will include review and completion of DOE 1512.1s, follow-up and problem resolution. Will assist in the formulation of SBMS subject area, assist in overseeing implementation of DOE order for foreign travel, test new DOE system, review and comment on DOE order, and provide guidance for foreign travelers. Budget Office.

DD8772. SUPPLY AND MATERIEL CLERK — (term appointment) Under general supervision, performs clerical duties requiring thorough familiarization with the operation of a phase of a subdivision of the central stores facilities. As directed, assists and aids Senior Clerk in performance of specific functions. Typical duties include solving clerical problems, tracing errors, and collecting data. Procurement & Property Management Division.

DD8430. OFFICE SERVICES POSITION — Requires an AAS degree in secretarial science or equivalent experience, a thorough knowledge of BNL policies and procedures and knowledge of Microsoft Word and Excel. Position requires the ability to multi-task and work with changing priorities. Will provide varied secretarial/clerical support to the Division as needed. Environmental Restoration Division.

**OPEN RECRUITMENT** — Opportunities for BNL employees and outside candidates.

MK8696. ASSISTANT PHYSICIST — Requires a Ph.D. in accelerator physics with both theoretical and experimental capabilities, and a background in accelerator operations, especially polarized beam acceleration, operations with alternating dipole field excitations and experience with particle detectors. Under the direction of S. Peggs. Collider-Accelerator Department.

MK8695. ASSISTANT PHYSICIST — Requires a Ph.D. in accelerator physics with both theoretical and experimental capabilities. Experience in lattice design, particle losses and collimation, space charge effects and accelerator operations is essential. Will participate in the design, construction, installation and commissioning of the Spallation Neutron Source (SNS) accumulator ring

and transport system. Under the direction of J. Wei. Collider-Accelerator Department.

MK7977. POSTDOCTORAL RESEARCH ASSOCIATE — (reposting) To work in The Solar Neutrino Group [[www.chemistry.bnl.gov/solar.html](http://www.chemistry.bnl.gov/solar.html)]. The group's main research focus is searching for evidence of neutrino oscillations as a solution to the well-known "solar neutrino problem". The Group (1) is in the collaboration that operates the new Sudbury Neutrino Observatory (SNO) in a deep mine in Ontario, Canada [[www.sno.phy.queensu.ca/](http://www.sno.phy.queensu.ca/)], and (2) has joined a new collaboration to develop and build a Low-Energy Neutrino Spectrometer (LENS) at the Gran Sasso Underground Laboratory in Italy [<http://www.lngs.infn.it/>]. Candidates should have received a Ph.D. within the past four years in either nuclear chemistry, or radiochemistry, or analytical chemistry, or nuclear physics. Experience is highly desirable in experimental techniques such as preparation and handling of radioactive samples, chemical separations/studies of inorganic species in aqueous and organic media, nuclear detection methods, and complex data analyses. Successful candidates will be expected to spend extended periods of time at the underground laboratories away from BNL. Under the direction of R. Hahn. Chemistry Department.

MK9124. POSTDOCTORAL RESEARCH ASSOCIATE — Requires a Ph.D. and research interests in biophysical, physical, analytical, or materials chemistry with knowledge or experience in organic/inorganic synthesis. A background in surface science or optical microscopy/spectroscopy and experience with or willingness to learn scanning probe techniques is an advantage. The research program, in the Materials and Chemical Sciences Division, involves the synthesis and physicochemical characterization (using the AFM) of nanomaterials, including carbon nanotubes and colloidal nanocrystals. Under the direction of S. Wong. Environmental Sciences Department.

MK9057. POSTDOCTORAL RESEARCH ASSOCIATE — Requires a Ph.D. in physics, medical physics, or related engineering or biophysics field. Experience in medical imaging, synchrotron radiation instrumentation, x-ray optics, radiation dosimetry or radiation therapy will be an asset. Research program includes medical imaging and radiation therapy using synchrotron-generated x-rays as well as topics in mechanical bioengineering. Under the direction of A. Dilmanian. Medical Department.

NS8856. ENVIRONMENTAL COMPLIANCE REPRESENTATIVE — Requires a BS in science or engineering and a minimum of five years experience in evaluating and applying environmental regulations in a laboratory setting. Requires a general working knowledge of RCRA, CWA, CAA, SDWA, TSCA, and NYS and local environmental regulations, with expertise in at least one area. Demonstrated familiarity with population-prevention concepts, with strong process engineering skills and ability to analyze projects proactively to identify and eliminate compliance issues and wastes is also required, as are demonstrated problem-solving skills. Experience in life science and chemical research highly desirable. Familiarity with biological, medical, and bench chemistry research techniques and instrumentation is beneficial. Environmental Services Division.

NS8857. ENGINEERING POSITION — Requires a BS in engineering (environmental, chemical or civil), environmental science, health physics, or a related discipline, and a minimum of 3-5 years experience in the interpretation and application of environmental regulations to industrial and/or laboratory operations. Very strong interpersonal, communication, and writing skills are required. Must have working knowledge of Federal, State and local (Suffolk County Sanitary Code) environmental requirements applicable to wastewater, potable water, and storage tank management. Experience with environmental radiation programs and NESHAPs (radioactive emission sources) helpful. Knowledge of DOE Orders a plus. Responsibilities will include developing and providing regulatory guidance and technical support to departments and divisions to ensure compliance with regulatory requirements and guidance, especially in the area of storage tank management. Environmental Sciences Division.

DD8361. ENGINEERING POSITIONS — (reposting) Requires a BS in nuclear engineering; MS preferred, health physics or related science discipline, five to ten years operational experience in either nuclear power plant, accelerator, facility decommissioning, licensing or university health physics. Experience managing a diverse workforce and good communication skills also required. American Board of Health Physics certification desired. Will develop and implement ES&H programs for departments/divisions. Radiological Controls Division.

DD8936. PAINTERS - (term appointments) Under minimum supervision performs wide variety of interior and exterior skilled painting operations on buildings, furniture and laboratory equipment. Prepares surface, removes point, mixes paints and matches colors. Will use all methods of application as required. Must know use and application of paints, synthetics, bleaching materials, stains and similar products and proper use and care of painting equipment. Required to rig staging and scaffolding. Plant Engineering Division.