

## BNL Hosts Battelle Commercialization Council

Members of the Battelle Commercialization Council (BCC) were treated to tours of the Center for Functional Nanomaterials (CFN) — currently under construction and due to be completed in April 2007 — and the National Synchrotron Light Source as part of their business meeting at BNL on October 12 and 13. The BCC meets every two months at one of five sister laboratories managed or co-managed by Battelle. Lori-Anne Neiger, Interim Manager of BNL's Office of Intellectual Property, organized the recent meeting, hosted by BNL.

The BCC consists of technology licensing professionals from Battelle, Columbus, Ohio, and its internal laboratory, Battelle Science and Technology International, as well as Battelle's sister laboratories: BNL, Idaho National Laboratory (INL), National Renewable Energy Laboratory (NREL), Oak Ridge National Laboratory (ORNL), and Pacific Northwest National Laboratory (PNNL). The council coordinates and collaborates on commercialization projects, with a focus on exploring ways to work together with industry

on research projects.

"I think the meeting at BNL was very productive," said Neiger. "It is worthwhile for the sister laboratories to share ideas and work together to fulfill our mission to transfer technology out of the labs into the commercial sector."

Among the highlights of the meeting was a discussion of how to partner with Kodak of Rochester, NY, which is reaching out to laboratories and universities to supplement their in-house capabilities at a time when the photography industry is undergoing major changes. Also, the group discussed science and technology initiatives, such as nanostructured materials research, that are being focused on meeting the long-term development needs of Boeing and other companies.

"The BCC is enabling us to create multi-laboratory research alliances that address major technology challenges and support the market-driven needs of industry," said Alex Kawczak, Vice President of Nanostructured Materials & BioProducts at Battelle.

Alex Fischer, Vice President for Commercialization at Bat-



Roger Stoutenburgh D0611006

Ove Dyling, Plant Engineering Division (far left), leads a tour of the Center for Functional Nanomaterials for Battelle Commercialization Council members: (from left) Lori-Anne Neiger, BNL; Bob Quinn, ORNL; Alex Fischer, Battelle; Richard Chapas, PNNL; Cheryl Cejka, PNNL; Ray Barnes, INL; Casey Porto, ORNL; Kef Kasadin, Battelle; Tom Williams, NREL; Brett Bosley, ORNL; and Steve May, Battelle.

telle and head of the BCC, said, "It was great to have this meeting at Brookhaven. I was impressed with the renaissance at the Brookhaven campus, which is now anchored by the new nanocenter. The future looks very bright for Brookhaven."

Neiger concurs that in the

Office of Intellectual Property, the future looks bright. The office has a portfolio of 175 inventions, of which 53 percent are licensed for commercialization, and the office received over \$6 million in royalties in FY2006, a record annual amount for BNL. After expenses

are paid, and the inventors' share is distributed, 40 percent of these funds is given to the BNL departments where the inventions were created and the other 60 percent is distributed for research and development at the Laboratory.

— Diane Greenberg

## Setting the Record Straight

Last Sunday, November 12, an Op-Ed article written by former Shirley Resident Kelly McMasters appeared in the L.I./Regional section of *The New York Times*. While the writer does note the value of the science at the Laboratory, she also presents a significantly outdated and often inaccurate depiction of the environmental cleanup at BNL, its operational facilities, and health issues on Long Island. Below are some of the article's errors and inaccurate implications, followed by the facts. *The Times* is expected to run a correction this Sunday. The complete article can be found at [http://intranet.bnl.gov/newsclips/clips\\_read.asp?RecID=712](http://intranet.bnl.gov/newsclips/clips_read.asp?RecID=712).

**Claim:** Three tritium plumes, originating from "experiments involving one of the lab's nuclear reactors in the late 1990s, travel by groundwater east and south."

**The Facts:** The Lab is tracking three "plumes," or areas of groundwater contaminated with tritium. One of these is related to the High Flux Beam Reactor, which was permanently closed in 1999. The other two plumes are related to operations at the g-2 experiment and Brookhaven Linear Isotope Producer, respectively. All three of these plumes are located in the center of the Laboratory site, are closely monitored, and are expected to be reduced to less than the drinking water standard without ever leaving the center of the site. The sources of these plumes have been addressed, and their locations are well understood and do not affect on- or off-site drinking water wells.

**Claim:** A BNL map of 30 Operable Units and Areas of Concern "charts decades of accidental leaks and spills and intentional releases of radiation, most of which issued from the site's two decommissioned reactors. (Two other reactors remain operational.)"

**The Facts:** The map shows 30 areas included in an interagency agreement among DOE, the U.S. Environmental Protection Agency, and the New York State Department of Environmental Conservation that guides the cleanup. These areas include radiological releases from the reactors and associated operations, as well as chemical groundwater contamination that dates back to the early days of BNL and operations at Camp Upton, before the Lab was founded in 1947. Since 1992, DOE has spent more than \$353 million on the cleanup of these areas, and the Laboratory has instituted international standards through the ISO 14001 registration as well as an award-winning pollution prevention program to maintain its focus on environmental stewardship going forward. All aspects of the cleanup have been discussed and coordinated with the surrounding communities and other interested stakeholders.

In its history, the Lab has built and operated three nuclear research reactors, not four; all of those reactors are now shut down and their fuel removed.

The last operating reactor closed in 2000.

**Claim:** "A class action lawsuit has been filed against the Brookhaven Lab, and most of the plaintiffs are from the Shirley area."

**The Facts:** The class-action lawsuit to which the writer refers was filed by 16 Long Island residents (predominantly from Shirley) in 1996 to recover damages for personal injury and property damage alleged to be the result of various toxic emissions into their air, soil, and groundwater from the Lab. The writer should have noted that in June 2005, as reported in *Newsday*, State Supreme Court Justice Mary M. Werner found that since release of radioactive materials never exceeded federal limits, plaintiffs' causes of action based upon negligence and strict liability were dismissed. For the same reason, she dismissed plaintiffs' claims for emotional damages based upon the fear of health problems related to the emissions as well as any claim for medical monitoring. The court also dismissed plaintiffs' claim for a private and continuing nuisance on the grounds

that any exposure the plaintiffs experienced from BNL could not be characterized as intentional or unreasonable. Her ruling is under appeal.

**Claim:** "A children's cancer cluster — by 2000 there were 19 children in the area afflicted by a rare soft-tissue cancer — rings the lab like a necklace."

**The Facts:** When this concern was brought to the attention of local and state agencies, they conducted several investigations to look into rhabdomyosarcoma rates in the area. No links to BNL were found. In 2002, *Newsday* reported that "An analysis of rhabdomyosarcoma rates by the state health department has found that the rate in central Suffolk, where the laboratory is located, does not differ significantly from rates in eastern and western Suffolk, and that Suffolk's overall rate does not differ significantly from the rest of the state."

In 1998, a study released by the Suffolk County Environmental Task Force, a group that included some of the Laboratory's most ardent critics, found "there is no statistical evidence showing higher than normal rates in either Suffolk County or a 15-mile radius of the Lab. In fact, there were fewer cases of rhabdomyosarcoma in Suffolk County from 1979 through 1993 than there were on average in other New York State counties, including Nassau, Brooklyn and Queens." According to the New York State Health Department, for each million people under age 19, rhabdomyosarcoma occurred annually at a rate of 4.1 cases in Suffolk, 5.3 statewide, 5.6 in Nassau, 6.4 in Queens and 7.0 in Brooklyn.

**Claim:** "The Shirley case has been going on for more than a decade already. During that time, the lab has managed to clean up almost all of the nuclear and chemical pollution flowing east toward the Hamptons while largely ignoring Shirley."

**The Facts:** The primary focus of the Laboratory cleanup efforts has always been on protecting human health and the environment. Early investigations indicated that the biggest concern was chemical groundwater contamination moving in a southerly direction. While Suffolk County Department of Health investigations indicated that residents were not exposed to BNL contaminants in drinking water, DOE provided public drinking water to communities immediately south and southeast of BNL — the very area noted as being ignored. Since that time, the Lab has worked closely with residents to construct six treatment systems to clean solvent-contaminated groundwater in this area, spending approximately \$25 million on these systems and to eliminate source areas within BNL. BNL continues to keep the community informed and to work with regulatory agencies to ensure effectiveness of these systems.

**Claim:** "Cancer rates on Long Island have soared without explanation. For many of these cancers, including breast cancer, the only proven cause, aside from genetic predisposition, is exposure to radiation."

**The Facts:** The writer wrongly implies that the Laboratory could be responsible for an increase in cancer rates. Two studies (continued on page 2)

**BWIS Reception, 11/30  
Scholarship Presentation**

Brookhaven Women in Science (BWIS) invites the BNL community — employees, facility users, visitors, guests, and their families — to a Wine & Cheese Reception and presentation of the Renate W. Chasman Scholarship for Women, on Thursday, November 30, from 5:15 to 7 p.m. in the Physics Seminar Lounge, Bldg. 510.

BWIS holds the wine & cheese event annually to thank all who have helped with and supported BWIS programs, to welcome new members, and to introduce the new executive board to the Lab community. The group's primary mission is to promote the advancement of women in the scientific professions.

For more information, contact Loralie Smart, Ext. 2425.

**Service Anniversaries**

The following BNLers celebrated service anniversaries during August 2006.

— 40 Years —  
Richard Horwitz.....ITD

— 30 Years —  
Judith Williams ..... Env. Sci.  
Pavel Rehak..... Instrumentation  
William Pratt .....NNS  
William Lenz..... Physics

— 25 Years —  
Walter Shaffer..... C-A  
Susan Wells .....BSD  
Paul Zahra.....Rad. Ctrl.  
David Alexoff ..... Medical  
Richard Rossetti ..... SSD  
Dean Ince.....Magnet

— 20 Years —  
Peter Cameron..... C-A  
Frank Cetero .....NNS  
James Frank ..... Physics  
Norman Besemer..... Plant Eng.  
Antonio Mc Gill ..... Plant Eng.  
James Wright..... Plant Eng.  
John Carlson..... C-A

— 10 Years —  
Ruiliang Wang..... Medical  
Scott Seberg..... C-A  
Cheo Teng..... NSLS  
Peter Genzer..... CEGPA

**New Rules for U.S.  
Border Crossings**

BNL's Travel Office warns all travelers that new passport requirements have been established. Under new federal border security rules starting on January 8, 2007, Americans traveling by air to Canada, Mexico, the Caribbean, and Bermuda will need to present a valid passport to return to the United States. Consult the U.S. Department of State website for land crossing requirements, and the latest information, at [http://travel.state.gov/passport/passport\\_1738.html](http://travel.state.gov/passport/passport_1738.html).

**Medical Directories  
Available, Bldg. 185**

The 2007 medical provider directories are available in the Benefits Office, Bldg. 185. Employees who have a change in plan for 2007 may want to pick one up.

**CIGNA at BNL, Mondays**

On Mondays, 10 a.m.-1:30 p.m., Janice Petgrave, CIGNA, will be available by appointment only to assist CIGNA participants with claims issues that they have been unable to resolve themselves. To schedule a 30-minute appointment in Bldg. 185, call Linda Rundlett, Ext. 5126. Bring all pertinent documentation to the meeting.



**BNL Celebrates Veterans' Day  
With Traditional Ceremony**

Roger Stoutenburgh 00481106



Roger Stoutenburgh 00481106

A blue sky, shining sun, and the American flag flying in the crisp autumn breeze set the scene for the Lab's first Veterans' Day celebration last Thursday, November 9.

The event, coordinated by three of BNL's veterans: Donald Farnam, Radiological Control Division, and Michael Paquette and Peter Palamidis, Plant Engineering Division, drew over 100 employees as well as visiting veterans.

Farnam opened the program by thanking all veterans for their service. Mike Bebon, BNL's Deputy Director for Operations, then remarked on the importance of Veterans' Day and on the resolute dedication and loyalty of U.S. military men and women, both past and present. Bebon himself is a retired Air Force Colonel, having served a total of 28 years both on active duty in the NY Air National Guard and with the Air Force Reserve.

BNLers who are American veterans stood side-by-side wearing their associated military caps. Others present included employees who now

**AdoptaPlatoon Program at BNL**

Lorraine Barry and Ralph Rinello of the Human Resources & Occupational Medicine Division are organizing support for troops overseas through an organization called AdoptaPlatoon. Shipping expenses for the AdoptaPlatoon activity are being supported by the Lab's Volunteers in Partnership Program.

A national, nonprofit organization, AdoptaPlatoon was founded in 1998. It is managed by volunteer mothers to ensure that all deployed United States servicemen and women in all branches of the military are provided with letters and packages from "home." The Lab has been assigned a platoon that has been deployed to Iraq from Hawaii. The platoon has 15 people: 14 men and one woman.

Donated items can be left in the Human Resources Bldg. 185, in a receptacle in the lobby. A list of suggested items to donate is at [www.bnl.gov/HR/adopt\\_troop.asp](http://www.bnl.gov/HR/adopt_troop.asp). For more information, contact Lorraine Barry, Ext. 7814, [lbarry@bnl.gov](mailto:lbarry@bnl.gov); or Ralph Rinello, Ext. 4807, [rrinello@bnl.gov](mailto:rrinello@bnl.gov).

have family members serving in the military and visiting veterans wearing full uniform.

Joyce Fortunato of the Lab's Quality Management Office has a son in the U.S. Marine Corps who is serving his second tour of duty in Iraq. She stressed the importance of sending care packages to servicemen and women, some of whom receive no mail. "They share their care packages with each other," she

said. Fortunato also recommended the "AdoptaPlatoon" program supported by several BNLers (see notice above).

Aside from the salute to the flag and traditional music, perhaps the most poignant moment for participants came when Fred Lipinsky, a local music teacher, stepped outside the crowd and played Taps on a single bugle in true military fashion. The placement of an

**New BERA  
Veterans Club**

Any BNL veterans interested in joining the new BERA Veterans Club should contact Don Farnam, Ext. 8248, [farnam@bnl.gov](mailto:farnam@bnl.gov); Michael Paquette, Ext. 5891, [mpaquette@bnl.gov](mailto:mpaquette@bnl.gov); or Peter Palamidis, Ext. 2462, [palamidi@bnl.gov](mailto:palamidi@bnl.gov).

honor wreath and memorial flag marker by BNL veterans and visiting veterans was another highlight of the ceremony.

Farnam closed the program with a description of the birth of the American flag and what the stars and stripes stand for. He concluded, "Over centuries, our flag still remains the unwavering symbol of freedom, and that is why today we salute our veterans." — Jane Koropsak

**Employee Lunchtime Tour  
A Burning Lesson in Forestry, Today, 11/17**

Today, Friday, November 17, Tim Green, BNL's Natural & Cultural Resources Manager, will take BNL employees to the prescribed burn area on the Lab site, to show and explain the burn technique in forest husbandry. All the Lab community is invited to meet at Berkner Hall upper lobby at noon to join the tour. The group will be returned to Berkner by 1 p.m. No reservation is necessary. Call Elaine Lowenstein, Ext. 2400, for more information.

**Setting the Record Straight**

of cancer rates — one looking at rates within a 15-mile radius of BNL and the other at employee cancers — found no relationship between BNL and cancer. According to the 1998 report by the Suffolk County Environmental Task Force on BNL referenced above, "cancer rates of all types of cancers [the task force] studied are not elevated near BNL" for the years 1979-93. Task Force Chairman Roger Grimson, a biostatistician and an associate professor at the State University of New York at Stony Brook, concluded in a *Newsday* article at that time, "There is no link between Brookhaven National Lab and cancer."

Regarding breast cancer, the study found that, compared to the rest of Long Island, rates were rising significantly, and more quickly, on the Island's East End, on both the North and South Forks. As *Newsday* reported: "Concerning breast cancer, Grimson said, the study does not implicate Brookhaven National Laboratory or any other particular facility or cause and noted that the breast cancer rate in the area immediately surrounding the lab is lower than on the North and South Forks."

An assessment of cancer in BNL workers conducted by the State Department of Health in 2001 concluded that the

**Defensive Driving Tomorrow, 11/18**

Several places remain for the six-hour Defensive Driving (Point & Insurance Reduction) course to be held tomorrow, Saturday, November 18, in Room B, Berkner Hall, 9 a.m. - 3:30 p.m., at \$30 per person. The course is open to BNL, BSA, and DOE employees, facility-users, and their families. Register by leaving a message and phone number for Ed Sierra, 821-1013. For more information, call Sarah Wiley, Ext. 4207.

**Noon Recital, 11/29**

On Wednesday, November 29, at noon in Berkner Hall, Lab music lovers will be able to enjoy another performance from Stony Brook: "Cabaret" by Kurt Weill and his contemporaries, introduced by David Lawton. Sponsored by BSA, noon recitals are free and open to the public.

**Lunchtime English Classes**

A free six-week series of Monday lunchtime classes in English for Speakers of Other Languages (ESOL) at the intermediate level began on Monday, 11/13, 12:15-1:15 p.m., in Berkner Hall, Room D. All are welcome. To register, contact BNL's ESOL Program Coordinator Jennifer Lynch, [lynch@bnl.gov](mailto:lynch@bnl.gov) or Ext. 4894.

(cont'd)

overall distribution of cancers in past and present Laboratory employees for whom data were available is similar to the patterns of cancers found in three comparison populations: residents of upstate New York, those living in Nassau, and those residing in Suffolk.

"Of particular note," comments the author of the assessment report, Maria Schymura, Director of the New York State Department of Health Cancer Registry, is the fact that solid cancers that could be the result of radiation exposure "were not proportionally elevated" in the BNL population.

— Peter Genzer

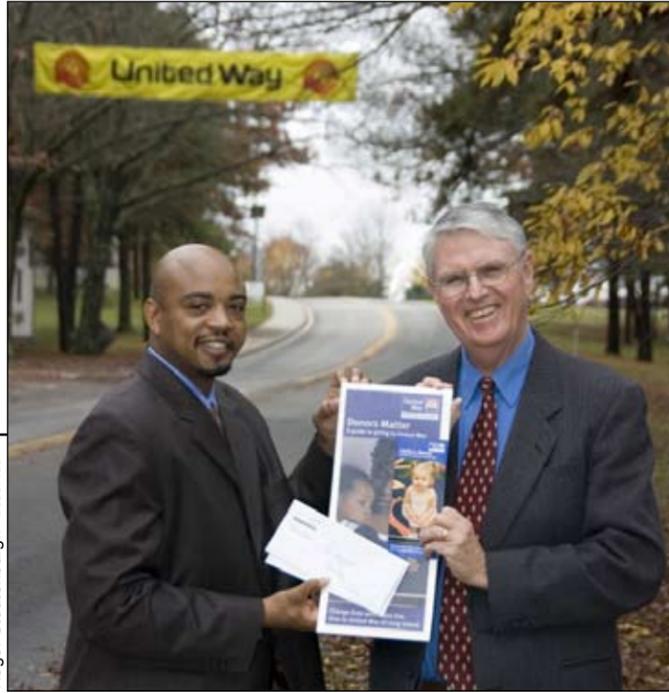
## This Year's United Way Campaign Theme: 'Show That BNL Cares

At the helm of the 2006 United Way Fund Drive is Human Resources & Occupational Medicine Division Director Bill Hempfling (at right in the photo) and Senior Human Resources Representative Terrence Buck (left).

Says Hempfling, "I am honored to serve as a co-chair with Terrence for this year's campaign. Over the years, our employees have distinguished themselves as generous contributors, so I have no doubt that this year's campaign will continue on trend and be successful. We hope to reach our contribution goal of \$120,000."

Each employee has received a pledge form via interoffice mail. Employees can either contribute a one-time gift or contribute via payroll deduction over the span of 2007. Directions for giving in either format are on the pledge form.

Employees who submit payroll deduction pledge forms by November 22 will be eligible to win two Southwest Airlines tickets.



Roger Stoutenburgh 00831106

### Upcoming United Way Events

**Volunteer Work Program:** BSA provides a generous \$20 donation to the United Way for every hour an employee does volunteer work, up to a ceiling of \$20,000. Contact Maria Beckman, Ext. 5483 or Mary Campbell, Ext. 3927 for additional information.

**Cake Sale:** Tuesday, November 21, Staff Services, Building 179B. Buy a chance to win one of four cheese-cakes or four carrot cakes. Chances are \$3 each or 2/\$5. Drawing, 2 p.m. To purchase raffle tickets contact Fran Smith, Ext. 2551.

**Holiday Auction/Yard and Book Sale:** Wednes-

day & Thursday, 12/6 and 7, 11 a.m. to 2 p.m., Berkner Lobby.

Take chances on beautiful theme baskets. Interested in donating a basket? Contact Joanne Rula, Ext. 8481, Lois Caligiuri, Ext. 5415, or Linda Sinatra, Ext. 6042. Winning names will be drawn December 7 at 2 p.m. Winners need not be present.

Purchase donated household items. Looking to donate your items to the yard sale? Contact Chris Johnson, Ext. 7636.

Purchase gently used books. Looking to donate books? Please deliver them to the Research Library, Bldg. 477, by December 1, or contact Madeline Windsor, Ext. 5069.

**Holiday Gift Wrapping:** December 19 - 21, 11 a.m. to 2 p.m., Berkner Lobby.

For a small fee you can have your holiday presents wrapped. Willing to donate your time to be a "wrapper?" Call Joanne Rula, Ext. 8481.

**Airline Tickets:** As a special bonus, Southwest Airline has generously donated four round/trip tickets to anywhere Southwest flies within the lower 48 states. As stated

above, one winner of two tickets will be drawn from the pool of employees who submit a payroll deduction authorization form by Wednesday, November 22. Another drawing for two tickets will take place during the holiday auction. Winners need not be present.

In addition, there will be 50/50 chances available during the holiday auction and yard sale.

### Roll Up Your Sleeve: Blood Drive, 12/14

The availability of blood on Long Island for accident victims, hospital patients, long-term outpatients, and others depends on the generosity of healthy people who care enough for their family and neighbors to give blood. As everyone knows who receives blood, no thanks are enough for this precious gift of life. Many donors give every year and some give several times a year: their commitment is priceless.

Please join the donors if you possibly can, at BNL's blood drive on Thursday, December 14, 9:30 a.m.-3 p.m. in Brookhaven Center. Donors must be from 16 to 75 years of age, in good health, and weighing over 110 lbs. Restrictions may apply to individuals from the United Kingdom and Europe. Donors should have photo identification and know their social security number.

To make an appointment, log on to the Human Resources webpage, [www.bnl.gov/HR](http://www.bnl.gov/HR), click on "Blood Drive" and select "Schedule an Appointment." For more information, contact Susan Foster, Ext. 2888, or Liz Gilbert, Ext. 2315.

### TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL Monday, 11/20; Tuesday, 11/21; Monday, 11/27; and Wednesday, 11/29; to answer questions about financial matters such as: the importance of protecting assets against inflation, finding the right allocation mix, TIAA-CREF retirement income flexibility, and comparing lifetime income vs. cash withdrawal options. For an appointment, call Arlene Lyons, (866) 842-2053, Ext. 4629.

### Happy Thanksgiving!

The Lab will be closed on Thursday and Friday, November 23-24, in observance of the Thanksgiving holiday. No Bulletin will be issued next week.

### BERA Holiday Party, 12/15

Tickets are now on sale at the BERA Store for the BERA Holiday Party, which will be held at the Brookhaven Center on Friday, December 15, at 5:30 p.m. Tickets cost \$35 per person and include hors d'oeuvres, 3 hours of beer, wine and soda, dinner buffet, desserts, and DJ entertainment. Door prizes will be awarded too. For more information, contact Christine Carter, Ext. 5090.

## Children's Research Hospital Benefit Performance Acoustic Guitar Music, Comedy, 12/1

The BNL Music Club will present a performance to benefit St. Jude Children's Research Hospital on Friday, December 1, at 6:30 p.m. in Berkner Hall. The evening of acoustic guitar music and comedy by local performers is open to all BNLers and the public. Visitors to the Lab age 16 and over must bring photo ID.

The featured performer will be Long Island singer-songwriter Bill Meehan, who delights audiences with his lyric imagery, soaring voice, and guitar prowess. In addition, Cary Guerriero will play acoustic blues guitar. Off-Broadway performer Ann Marie Dowling will perform her unique brand of comedy, and Master of Ceremonies Joe De Voe, Plant Engineering Division, will add his own humorous touch to the evening.

Tickets cost \$10 each and may be purchased in advance at [www.ticketweb.com](http://www.ticketweb.com) or at the door on the evening of the performance. Call BNL Music Club President Joe Vignola, Ext. 3846, for more information.



Bill Meehan

### BNL Community Art, Crafts Show, 11/20-22 With Free Reception, Monday, 11/20, 5-7 p.m.

All are invited to the Lab Community's Fall Art and Crafts Show Monday-Wednesday, November 20-22, in Berkner Hall's Room B and C. The show will be open daily from 11:30 a.m. to 1:30 p.m., with an opening reception on Monday, November 20, 5-7 p.m. Many beautiful exhibits will be displayed, some of which are for sale by arrangement with the artist or crafter. This free event is open to the general public. Visitors to the Lab of 16 and over must bring photo ID.

### Vanguard One-on-One Retirement Planning

The Vanguard Group invites you to spend 45 minutes one-on-one with a licensed Vanguard representative at BNL to talk about financial issues, on Friday, December 1. You may learn about: investing for long-term goals such as retirement; selecting funds for your savings; and making the most of the services and investment tools available to you. Schedule your session online at [www.meetvanguard.com](http://www.meetvanguard.com) or call 1-800-662-0106, Ext. 14500.

### Give Warm Coats

Gently used coats are being collected at Berkner Hall Cafeteria by Ray Hernandez, Food Service Director for Nayyarson Corp., as part of a local community service program sponsored by Longwood High School, where Hernandez's son Danny is a student, and BNL's United Way Volunteers effort. Drop coats of any size at the cafeteria between 8 a.m. and 4 p.m.

### Arrivals & Departures

#### - Arrivals -

Linda Barrett.....Fiscal  
Lawrence Carboni.....C-A  
Cheryl L. Donato.....NSLS  
Mikhail G. Fedurin.....NSLS  
Susan L. McCafferty.....HROM  
David Peter.....SSD  
Claudio Pica.....Physics  
Minhua Shao.....Chemistry  
Alina Sikar-Gang.....Biology

#### - Departures -

Norman Besemer.....Plant Engr.  
Gregory W. Bostic.....EP  
Gary E. Connell.....EP  
Fan Wu.....Chemistry

### Ads: Misc. Tickets for Sale

**BRIAN WILSON TICKETS** - 2 tickets for Brian Wilson (sold out) at the Beacon Theater on 11/21. Row V orchestra. Face value. Tom, Ext. 8244.

**HOLIDAY WONDERS TICKETS** - 6 tickets at Beacon Theatre (Broadway, NYC), 12/24, \$35/ea. George, Ext. 4033.

**TICKETS MET OPERA LA BOHEME** - P. Domingo, Mat. Sat., 11/18, balcony box, 2 tickets, orig. price \$40 ea., last-min. special \$30 ea. obo. Robert, Ext. 4637.

**OTHER CLASSIFIED ADS** had to be omitted due to lack of space. Check them out at: <http://intranet.bnl.gov/ads/displayAdsAll.asp>

## CALENDAR

### - THIS WEEKEND -

#### Friday, 11/17

\*Employee Lunch Tour, Forest Burn Noon, Berkner Hall. Visit burn area. See notice, page 2.

#### Saturday, 11/18

\*Defensive Driving Class 9 a.m.-3:30 p.m. Berkner Hall, Room B. Places remain. Contact Ed Sierra, 821-1013. See notice, page 2.

### - WEEK OF 11/20 -

#### Mon.-Wed., 11/20-22

\*BNL Community Art, Crafts Show 11:30 a.m.-1:30 p.m. daily, with free reception on Monday, 11/20, 5-7 p.m. Berkner Hall, Rooms B and C. All are welcome. Visitors to the Lab age 16 and over must bring photo ID. See notice, below, left.

#### Tuesday, 11/21

\*Cake Sale for United Way Bldg. 179B, Staff Services. Raffle tickets for cakes. See at left.

#### Thursday, 11/23

Thanksgiving Day Holiday Lab closed.

#### Friday, 11/24

Day After Thanksgiving Lab Holiday Lab closed, no Bulletin this week.

### - WEEK OF 11/27 -

#### Monday, 11/27

**IBEW Meeting** 6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

#### Wednesday, 11/29

\*BSA Noon Recital: Opera Scenes Noon. Berkner Hall. Cabaret program, scenes from works by Kurt Weill, more. Introduced by David Lawton. See page 2.

#### Thursday, 11/30

\*BWIS Reception, Scholarship 5:15-7 p.m. Physics Seminar Lounge Bldg. 510. Brookhaven Women in Science (BWIS) Wine & Cheese Reception, presentation of Chasman Scholarship. See page 2.

#### Friday, 12/1

\*Music & Comedy Benefit Show 6:30 p.m. Berkner Hall. Show sponsored by BNL Music Club to benefit St. Jude Children's Research Hospital. Acoustic guitar, comedy performed by popular local artists. \$10/person. See notice, below, left.

#### Saturday, 12/2

'Nutcracker' at NYC Ballet BERA trip to 2 p.m. show in NYC. \$80, buy at BERA Store.

### - WEEK OF 12/4 -

#### Wednes., Thurs., 12/6 & 7

\*United Way Auction/Yard/Book Sale 11 a.m.-2 p.m. Berkner lobby. See article above, left.

### - WEEK OF 12/11 -

#### Thursday, 12/14

**Blood Drive** 9:30 a.m.-3 p.m. Brookhaven Center. See notice above, left.

#### Community Advocacy Meeting

6:30 p.m., Berkner Hall, Room B. BNLers and members of the public are welcome to attend.

Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Enter information for each event in the order listed above (date, event name, description, and cost) and send it to [bulletin@bnl.gov](mailto:bulletin@bnl.gov). Write "Bulletin Calendar" in the subject line.

## 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 benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible 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. Access current job openings on the World Wide Web at [www.bnl.gov/HR/jobs/](http://www.bnl.gov/HR/jobs/).

### LABORATORY RECRUITMENT – Opportunities for Laboratory employees

**JH4281. HUMAN RESOURCES REPRESENTATIVE (A-4)** - Requires a bachelor's degree in human resources or business administration and 2 years' experience in human resources or administrative support. Knowledge of human resources functions and familiarity with human resources policy, procedures, and directives is required. Must possess strong skills in relationship building, influencing, motivating, negotiating, analysis, coaching, listening and presentation. Requires excellent verbal and written communication skills and time management skills. Must have experience with PeopleSoft HR and Travel and must be proficient in MS Word, Outlook, Excel, PowerPoint, and Visio. Prior experience in recruitment activities such as screening of applicants, interviewing, and advertising methods is required. Successful candidate will be a Human Resources Division staff member assigned to the National Synchrotron Light Source-II Project and will report to the NSLS-II Human Resources Manager. Responsibilities will include the recruitment and retention of a diverse and highly qualified project team; assisting with the development of NSLS-II personnel practices; assisting with NSLS-II workforce planning; and performing routine and non-routine administrative duties to include preparing reports and correspondence, coordinating meetings and interviews, processing requisition, hire, and transfer paperwork, and entering and maintaining data into PeopleSoft's recruitment module. Human Resources & Occupational Medicine Division.

**RM3622. SR. SECRETARY (CW-3, part-time, 50 percent)** - Requires a high school or equivalency diploma, plus a minimum of three years' relevant work experience. Under minimum supervision, will perform a variety of skilled and complex secretarial tasks for the Technical Survey Team Project Office involving both routine and non-routine administrative assignments. Typical assignments will include report and correspondence preparation, scheduling appointments, making travel arrangements, assisting in organizing and scheduling small conferences and meetings, and performing moderately complex word processing and/or assignments, utilizing the latest version of MS products, to include Outlook, Word, Excel, Access, and PowerPoint; and PeopleSoft products. Will have contacts within and outside the Laboratory. Knowledge of Laboratory policies, practices, and procedures is desirable. Must be a U.S. citizen and be able to obtain and maintain a DOE "Q" security clearance. Nonproliferation & National Security Department.

**RM3807. ADMINISTRATIVE SECRETARY (A-2 – part-time, 60 percent)**: Requires formal secretarial or office administrative training or equivalent and a minimum of four (4) years' relevant experience. Must be proficient in the use of Microsoft Office products, web-based tools, and Adobe Acrobat. Excellent verbal and written skills are essential. Must have the ability to work under pressure, balance priorities and perform multiple tasks. Knowledge of BNL's office procedures, processes, and tools, including PeopleSoft and the foreign and domestic travel systems desired. Will be responsible for providing administrative secretarial support to the Global Initiatives for Proliferation Prevention & Technology Center Manager and associated staff. Duties will include preparing correspondence, maintaining project files, tracking project expenses, data entry, preparing foreign and domestic travel authorizations and expense reports for associated staff, processing visa requests, interfacing with foreign visitors and domestic industry partners, and coordinating program review meetings both on and off site. Must exercise initiative and good judgment and function as a member of a team. Candidate must be a U.S. citizen and be able to obtain and maintain a DOE "Q" clearance. Nonproliferation & National Security Department.

**RM4251. LABORATORY SPECIALIST (A-2)** - Requires an AAS degree or equivalent

plus 4 years' relevant experience. A science background, knowledge of chemistry or familiarity with chemical naming and ability to work with customers is desired. Will work with the Chemical Management/Material Safety Data Sheet Systems (CMS/MSDS) in inventorying chemical containers, and maintaining records. Will maintain the Material Safety Data Sheet (MSDS) database, input new MSDS, and respond to inquiries for MSDSs. Must be able to operate independently. Responsibilities in support of the CMS program are database entry from multiple format sources, accessing information from existing databases, bar-coding chemical containers, manipulating the record database, and scanning of documents. Microsoft Access interfacing in data entry, database structure development, queries generation, report generation and macro development is required. Work will involve entry into shipping and chemical handling use areas. Additional computer programming knowledge and familiarity with creating PDF documents a plus. Safety & Health Services Division.

### OPEN RECRUITMENT – Opportunities for Lab employees and outside candidates

**JH4280. PHYSICIST - Interface Manager (S-3)** - Requires a Ph.D. in physics or a related discipline and 10+ years of relevant technical experience. Extensive experience within both the accelerator systems and experimental facilities divisions of a synchrotron facility is required, as well as experience in project management and in managing control systems. Ability to effectively communicate and interact with accelerator physicists and engineers and also with the user community is necessary. Selected candidate will define and manage the interfaces between the experimental facilities and the accelerator and conventional facilities. Will also be responsible for project management of areas within the Experimental Facilities Division, such as beamline construction and installation of the personal safety system and equipment protection system. Will manage and set the equipment and personnel protection systems and will oversee systems integration. Reports to the Experimental Facilities Division Director. National Synchrotron Light Source-II.

**JH4277. PHYSICIST - High Energy Resolution X-ray Optics Group Leader (S-3)** - Requires a Ph.D. in physics or a related discipline, at least five years' post-doctoral experience, a demonstrated ability to direct an innovative high energy resolution x-ray optics research program, and an international reputation in the field. Successful candidate will set-up and lead a new world-class high energy resolution x-ray optics group at Brookhaven National Laboratory. In particular, candidate will lead an R-D program to examine the issues associated with achieving ultra high energy resolution in the hard x-ray regime. The group will have a significant research budget and the successful candidate will be expected to make a number of hires in the field. The high energy resolution x-ray optics group will work closely with the inelastic x-ray scattering programs at NSLS-II. National Synchrotron Light Source-II.

**JH4278. PHYSICIST - High Spatial Resolution X-ray Optics Group Leader (S-3)** - Requires a Ph.D. in physics or a related discipline, at least five years' post-doctoral experience, a demonstrated ability to direct an innovative high spatial resolution x-ray optics research program, and an international reputation in the field. Successful candidate will set-up and lead a new world-class high spatial resolution x-ray optics group at Brookhaven National Laboratory. In particular, candidate will lead an R-D program to examine the issues associated with achieving ultra high spatial resolution in the hard x-ray regime. The group will have a significant research budget and the successful candidate will be expected to make a number of hires in the field. The high spatial resolution x-ray optics group will work closely with the nanoprobe programs at NSLS-II. National Synchrotron Light Source-II.

**JH4286. PHYSICIST - X-ray Microscopy Group Leader (S-3)** - Requires a Ph.D. in Physics and at least five years of relevant postdoctoral experience. Experience in x-ray microscopy is required and prior experience in managing the construction and operation of a beamline is preferred. Candidates must have excellent written and oral communications skills and be able to interact effectively with a diverse group of scientists, technical staff, and users. The selected candidate will be responsible for working with the user community to define the scientific mission and technical requirements for a state-of-the-art x-ray nanoprobe beamline and for its design, construction, and commissioning. The selected candidate will also be responsible for developing the user community for the beamline and for developing and managing a scientific research program based on the beamline. National Synchrotron Light Source-II.

**MK4031. POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in physics or engineering, experience in accelerator physics and/or microwave engineering, knowledge in the RF microwave design, including programs such as Microwave Studio or equivalent, and experience in niobium cavity technology and general accelerator physics. Research will involve the development of a high-current, high-brightness SRF Energy Recovery Linac which is under construction at the Collider-Accelerator Department re-

lated to electron cooling for RHIC, the eRHIC electron-ion collider and high-power FELs. Under the direction of I. Ben-Zvi. Collider-Accelerator Department.

**MK4138. POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in physics, physical chemistry, biophysics, or materials science, with experience in soft-matter physics. Technical hands-on experience in one of the following areas is highly desirable: neutron scattering, x-ray scattering, optical microscopy, or atomic force microscopy. The research project in the Soft-Matter Group (SMG) will focus on lipid membrane coated nanoparticles and the interactions of these particles with lipid membrane surfaces. The SMG (<http://www.solid.bnl.gov/~scmg>) is an interdepartmental, interdisciplinary effort, composed of scientists from the Condensed Matter Physics & Materials Science Department, the National Synchrotron Light Source Department and the Center for Functional Nanomaterials. The SMG uses synchrotron x-ray scattering, atomic force microscopy, and optical microscopy techniques to study fundamental properties of complex fluids, simple liquids, macromolecular assemblies, polymers, and biomolecular materials under confinement and on templates. Under the direction of M. Fukuto. Condensed Matter Physics & Materials Science Department.

**MK3596. POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in nuclear or high energy physics. Position is with the Nuclear Theory Group which has active programs in the theory of heavy ion collisions at the ultrarelativistic energies, spin physics and nuclear structures. Under the direction of D. Kharzeev. Physics Department.

**JH4275. MANAGER, NSLS-II Quality Assurance (M-1)** - Requires a bachelor's degree in engineering or a related discipline (advanced degree preferred) and 15 years' related experience including sufficient experience to have demonstrated capabilities of responsible quality assurance leadership. Prior project management experience or formal project management training is desirable. Candidate will report directly to the National Synchrotron Light Source-II (NSLS-II) Project Director. Responsibilities will include the planning, generating, and obtaining approval for QA requirements and documentation, including the Quality Assurance Plan. Will also provide reporting on the performance of the quality system, provide consultation and project-specific QA training to system managers, review the completion of QA-related milestones as provided in project schedules and perform QA surveillance and/or audits. Will work with the Project Director to prevent situations where completion of critical planned QA activities is compromised due to cost, schedule, or other constraints and make recommendations to the Project Director that work be stopped based on inadequate quality as defined in the QA plan. Candidate will also participate in vendor surveys, vendor qualifications and source inspections. Will supervise other Quality staff. National Synchrotron Light Source-II.

**NS3534. PROJECT ENGINEER I (P-9, reposting)** - Requires a BS in mechanical engineering with an MS degree preferred, or minimum of 10 years' experience with a successful track record in the engineering design and construction of experimental apparatus. Excellent communication skills and ability to develop affective technical procedures are required. Familiarity with the use of 2D/3D CAD, engineering drawing standards, dimensions/tolerance and experience performing engineering stress analysis and Finite Element Analysis is necessary, as is experience with project management tools such as MS Project in developing long-term project schedules that reflect tasks, durations, resource and cost scope. Candidate's role will be to plan, design, develop, and use new or improved engineering techniques or equipment, and accepted, proven techniques for the solution and completion of technical and research projects. Will maintain, develop, and employ capabilities to execute organization's plans and policies. Responsibilities will be to provide mechanical engineering leadership and management for the STAR Collaboration members and technical staff working in support of STAR Operations; provide supervision and management of technical support group staff to meet planned goals and responsibilities; develop and plan for effective mechanical maintenance and support of STAR specific facilities and detector components. Will be responsible for the administration, supervision, and safety of subordinates and must provide the necessary work planning and oversight to meet established safety policies and goals. Will take part in and conduct engineering design reviews of new collaborative projects or subsystem modifications. Will provide budgetary cost analysis and performance feedback for annual operational needs and project requirements. STAR Operations Group/Physics Department.

**TB3689. PHYSICS ASSOCIATE IV (P-1, reposting, ERAP Eligible - \$1K)** - Requires a BS in physics and excellent written and oral communication skills. Background experience in high power pulsed power supplies, digital electronics, computer controls and programming, as well as laboratory test and measurement techniques is desirable. Primary duties, as part of a rotating shift team, include the operation and troubleshooting of the Collider-Accelerator Complex for the

experimental physics program. Will be part of emergency response team while on shift. Collider-Accelerator Department.

**TB3253. SR. TECHNOLOGY ANALYST (I-5, term appointment, one year)** - Requires a B.A. or M.S. in computer science or related field, excellent programming skills in C, good knowledge of Java, JavaScript, SQL, database development and management, plus familiarity with Linux operating system and basic computer network knowledge. This position also requires familiarity with the EPICS/VME technology, the testing and development of instrumentation, interaction with users and user support, and flexibility in working hours. Will be responsible for developing and integrating the data collection and control software and the user support database at the X6A beam line at National Synchrotron Light Source. National Synchrotron Light Source Department.

**RM4244. PROJECT ENGINEER I (P-9)** - Requires a BSEE and specialty in power distribution and transmission engineering plus 10 years of in-plant electrical power engineering experience in heavy industry, consulting engineering, or power generation. Must have good communication skills and be self-motivated. Experience with electrical distribution systems and power plant electrical equipment involving voltages from 120V up to 69 kV is required. The ideal candidate should have a four-year ABET accredited BSEE. Candidate will be responsible for electrical design of building systems and plant distribution systems, specification development, and management of electrical construction projects. This individual will also be responsible for electric utility transmission system planning, protective relay settings, special studies, and implementing NFPA 70E into the Laboratory infrastructure. Professional registration or the ability to attain registration within six months is highly desirable. Candidate should be capable of performing engineering studies, electrical design, and troubleshooting of existing plant equipment. Candidate should be experienced in the incorporation of the National Electric Code as well as other electrical standards as referenced in the Building Code of NYS. Knowledge of Auto-Cad and Electrical Engineering analysis software is a plus. Plant Engineering Division.

**TB4255. PROJECT ENGINEER II / INDUSTRIAL HYGIENIST (P-7)** - Requires a bachelor's degree or higher in industrial hygiene (IH), chemistry, engineering, physical or life science, and at least seven years of experience in applying IH expertise in an industrial or a laboratory setting. Must be able to demonstrate proficiency in the use of routine IH instruments and be qualified to perform typical IH tasks such as ventilation measurements, noise surveys, and aerosol monitoring. Will be responsible for conducting inspections and investigations of a wide variety of work processes, operations, and environments in the workplace for compliance with OSHA and ACGIH exposure limits. Will be responsible for reporting and communicating recommendations on occupational health hazards, analysis of risk, and recommendations to prevent or eliminate worker exposure to hazards. Must have experience in word processing, spreadsheets, and databases. Safety & Health Services Division.

**NS3354. MEDICAL ASSOCIATE IV (P-1, term appointment)** - Requires a minimum of a bachelor's degree, master's preferable, and some experience in biological or biochemical research. Will be responsible for behavioral training and assessment of rat lines in the learned helplessness model of depression; the preparation of animals for imaging studies, including MR and PET studies. Changes in gene expression due to stress will be examined and ultimately the measurement of changes in methylation of DNA in different animal strains exposed to stressors will be determined. This requires a willingness to learn elements of behavioral biology as well as use a full range of molecular biology approaches. Some animal surgery and the stereotaxic placement of carbon electrodes for stimulation in the MR experiment will be done. The molecular work will require familiarity with the use of radioactive tracers and some neuropharmacological work will be carried out. Will also monitor equipment, order supplies and comply with data security requirements in studies done for pharmaceutical firms. Employment is contingent upon successful completion of a background check by the DEA (Drug Enforcement Agency). Medical Department.

**JH4282. DESIGN ENGINEER (T-5)** - Requires a BS degree in mechanical technology, mechanical drawing, or equivalent and 10 years' experience in 3D modeling of complex mechanical components and systems. Requires substantial knowledge of engineering materials, machine shop practices and vendor products, as well as demonstrated skill in developing engineering concepts into detailed 3D models and drawings. Considerable experience is required in managing layouts, parts, and assemblies in the drawing database as well as in specifying drive components such as motors, gears, bearings, actuators, switches, and connectors. Good interpersonal skills and strong self-motivation are required. Work experience in the design of ultra-high vacuum systems and RF systems is desirable. Expertise in 3D modeling with Autodesk's Inventor will be given preference. The NSLS-II Mechanical Design Engineer will have the following major

responsibilities: generating 3D models and 2D drawings of accelerator and beamline components such as magnets, ultra-high vacuum chambers, RF mechanical components, x-ray absorbers, diagnostics devices; developing conceptual designs to meet physics and engineering specifications; creating and maintaining mechanical layouts and assemblies of major subsystems; interpreting and ensuring conformance to applicable standards, codes and policies including ANSI Y14.5; conducting tolerance stack-up and interference analyses; document designing through detailed drawings including bill of material, ECN and catalogue items; and performing checking procedures as assigned by the immediate supervisor. May direct and coordinate the work efforts of other design personnel. Will report to the Design Room Supervisor. National Synchrotron Light Source-II.

**JH4283. SR. DESIGNER (T-4)** - Requires an AAS degree in mechanical technology, mechanical drawing, or equivalent and 10 years' experience in 3D modeling of complex mechanical components and systems. Requires good knowledge of engineering materials, machine shop practices and vendor products, as well as demonstrated skill in developing engineering concepts into detailed 3D models and drawings and in incorporating ECNs. Considerable experience in managing layouts, parts and assemblies in the drawing database, to include layouts of accelerator beamline components, vacuum chambers and magnets. Substantial experience is required in specifying drive components such as motors, gears, bearings, actuators, switches and connectors. Good interpersonal skills and strong self-motivation are required. Proficiency with Pro/E or Autodesk's Inventor will be given preference. Design work involving instrumentation and power supplies is a plus. The NSLS-II Sr. Designer will have the following major responsibilities: to generate 3D models and 2D drawings of accelerator and beamline components such as magnets, ultra-high vacuum chambers, support and alignment systems, x-ray absorbers, diagnostics devices, mirrors and monochromators; develop conceptual designs to meet physics and engineering specifications; interpret and ensure conformance to applicable standards, codes and policies including ANSI Y14.5; and document designs through detailed drawings including bill of material, ECN and catalogue items. Will report to the Design Room Supervisor. National Synchrotron Light Source-II.

**JH4284. SR. DRAFTING SPECIALIST (T-3)** - Requires an AAS degree in mechanical technology, mechanical drawing, or equivalent, and 6 years' experience in 3D modeling of complex mechanical components and systems. Requires knowledge of engineering materials, machine shop practices and vendor products, as well as demonstrated skill in developing engineering concepts into detailed 3D models and drawings and in incorporating ECNs. Considerable experience in managing layouts, parts and assemblies in the drawing database, to include layouts of vacuum chambers and magnets, and good interpersonal skills and strong self-motivation are required. The NSLS-II Senior Drafting Specialist will have the following major responsibilities: to generate 3D models and 2D drawings of accelerator and beamline components such as magnets, ultra-high vacuum chambers, support and alignment systems, x-ray absorbers, diagnostics devices, mirrors and monochromators; interpret and ensure conformance to applicable drafting standards including ANSI Y14.5; and document designs through detailed drawings including bill of material, ECN and catalogue items. Will report to the Design Room Supervisor. National Synchrotron Light Source-II.

**RM4245. DESIGN ENGINEER (Electrical-T-5)** - Requires an AAS in electrical technology and a minimum of eight years' experience or 12+ years of equivalent electrical design experience in commercial power distribution systems from 120 V to 13.8 kV. Proficiency in Auto-Cad, cost estimating, drawing and specification package preparation, and general computer use is a necessary requirement for this position. Good interpersonal skills and strong self-motivation is required. Candidate should be capable of performing field investigations of electrical equipment. Will be responsible for the development of one-line diagrams as well as detailed electrical specification and design drawings for the construction and alterations to electrical power distribution infrastructure at BNL. Candidate will work either independently or together with a Project Electrical Engineer in the execution of these tasks. Plant Engineering Division.

**NS3972. FIREFIGHTER/EMT-D** - Requires five years' progressive experience in a fire department, five years' experience as a New York State EMT-D, and Suffolk or Nassau County or NY State Certification as a motor pump operator on a Class A pumper. In descending order of importance, the following criteria will be used for selection in the event two or more individuals meet the above criteria: certified OSHA Hazardous Materials Technician; Certified in Confined Space Rescue; current line officer in home department; and possession of an associate degree or higher in fire protection technology. Must be willing to work shifts at the completion of training period. Emergency Services Division.