

Drug abuse remains one of the world's most challenging public health problems, causing enormous human suffering and taking a tremendous societal toll with a cost of \$484 billion per year in the U.S. alone. So it is only fitting that advances in understanding and mitigating the effects of drug addiction should take center stage at the premiere multidisciplinary gathering of scientists and science journalists from around the globe, the February 2007 annual meeting of the American Association for the Advancement of Science (AAAS) in San Francisco.

Hosted by BNL with financial support from the National Institutes of Health (NIH), the AAAS symposium, "Addiction and the Brain: Are We Hard-Wired to Abuse Drugs?" was held February 16, 2007, with a related press briefing sponsored by AAAS the day before. BNL convened a panel of world-renowned neuroscientists to present recent advances in brain imaging that have revolutionized our understanding of ad-

Addiction and the Brain: Are We Hard-Wired To Abuse Drugs?



Speakers and discussants at the symposium included: (from left) General Barry McCaffrey, Nora Volkow, Joanna Fowler, Charles O'Brien, Stephen Dewey, Edythe London, and Gene-Jack Wang.

BNL Hosted Expert Panel at AAAS News Briefing, Symposium

dition as a chronic, relapsing-remitting disease of the brain. Brain-imaging techniques such as positron emission tomography (PET) and magnetic resonance imaging (MRI) are a direct outgrowth of DOE's longstanding support of basic physics and chemistry research.

"These advances have changed the way we think of drug addiction," said Nora

Volkow, Director of the National Institute on Drug Abuse (NIDA), the lead presenter at the symposium. "They have enabled us to better understand the brain's reward circuitry, how it is rewired and becomes less sensitive in chronic drug use, and how it relates to learning and memory, drive, and control over impulses." Volkow also served

as the symposium moderator in the absence of Fritz Henn, BNL's Associate Director for Life Sciences, whose flight was cancelled due to bad weather.

Very brief summaries of talks given by Volkow and BNL researchers follow.

For the full report, go to www.bnl.gov/bnlweb/pubaf/pr/addictionSymposium-WrapUp.asp?Section=7.

Nora Volkow, Director, NIDA, spoke on "Understanding Drug Craving — and How to Block It." Volkow kicked off the program with a description of recent findings on dopamine's role in drug craving. Drug craving triggered by cues associated with a particular drug is central to addiction and often poses a significant obstacle to successful treatment. Using sophisticated brain-imaging techniques, such as PET, researchers have seen increases in specific brain activities that are linked to this experience. If we can understand the mechanisms related to cue-induced drug craving, we can develop more effective treatment strategies to counteract it, Volkow suggested.

Joanna Fowler, BNL's Director of the Center for Translational Neuroimaging, spoke on "Understanding and Treating Tobacco Addiction." Most studies on the effects of tobacco smoke on the brain have focused almost entirely on nicotine, the
(continued on page 2)

AAAS Annual Meeting Talk by Stephen Musolino — 'Responding to a Dirty Bomb Detonation'

If a so-called "dirty bomb" exploded in a populated area, first responders would have to make immediate decisions to lessen health impacts on people who might be exposed to radioactive material. Health Physicist Stephen Musolino of the Nonproliferation & National Security Department was among five speakers discussing aspects of a response to such a scenario at the 2007 annual meeting of the American Association for the Advancement of Science (AAAS) in San Francisco. During the session held on February 17, speakers offered guidance to first responders, planners, and other decision makers for protective actions during the first 48 hours after a dirty bomb — formally known

as a radiological dispersal device (RDD) — has been detonated.

With Sandia National Laboratories' senior scientist Frederick Harper, Musolino participated in a session titled "Coping with a Dirty-Bomb Detonation." Musolino discussed "Evacuate or Shelter in Place: A Dirty-Bomb Case Study."

"By the time it is known that an attack has occurred, most likely there will have been casualties, all the radioactive material will have been released, and it will have begun to disperse," Musolino said. "The goal of our research is to provide science-based response recommendations to the Department of Homeland Security to consider for use in community preparedness activities."

Over the past two decades, more than 600 explosive experiments were conducted at Sandia to determine how the radioactive material in a RDD would disperse in the environment through aerosolization, which forms a cloud of particles. The information gained was used to predict the dispersal of actual radioactive sources. The research was performed on many different forms of materials — including ceramics, metals, powders, and liquids — so that the dispersal characteristics of most realistic radioactive sources could be predicted accurately. Based on this research, funded primar-

ily by DOE and the Defense Department's Defense Threat Reduction Agency, Musolino and Harper published response guidance in a cover article in the April issue of the *Health Physics Journal*. The guidance was developed with funding from the Department of Homeland Security (DHS) and with DHS's coordinating the outreach effort with the first responder community.

Based on the experiments, Harper and Musolino recommended establishing a "high zone" with boundaries of 500 meters in all directions from the point of detonation. Responders are advised to evacuate this

"high zone" and control access to prevent uncontaminated people from entering the affected area.

"These new strategies will speed up lifesaving efforts to aid the injured victims and minimize the overall radiation dose to the public," Musolino said. "I hope a terrorist act with a RDD never happens," he continued. "But if it does, we want the first responders to have the best science behind the tough decisions they will make in those first critical hours."

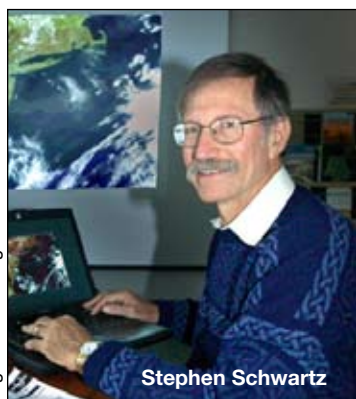
— Peter Genzer

For more details on this research, see www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=07-18.

Stephen Schwartz to Give Talk On Greenhouse Effect, 4/17

Stephen Schwartz of the Environmental Sciences Department will give a talk titled "The Greenhouse Effect and Your Family's Contribution to It" at the Laboratory's Berkner Hall on Tuesday, April 17, at noon. The lecture is one of several activities in April sponsored by the Lab's Environmental Services & Waste Management Division to commemorate Earth Day, April 22. The free lecture is open to the public, and no reservations are required. All visitors to the Lab age 16 and over must bring a photo ID.

The greenhouse effect refers to the increase in Earth's surface temperature that results from gases in the atmosphere, such as water vapor and carbon dioxide, which are transparent to visible radiation from the sun, absorbing infrared energy emitted at Earth's surface and re-emitting it. Some of this energy goes back into space, but some of it is again absorbed at the surface. The greenhouse effect is responsible



Stephen Schwartz

for the temperate climate of the planet. But, recently, the release of greenhouse gases has greatly increased because of human activities; this has led to global warming, which could profoundly affect life on Earth.

Human population quadrupled and energy consumption increased sixteenfold over the last century. The nine warmest years globally have occurred in the 1990s and 2000s, and global surface temperature is higher today than it has been for at least a millennium. Most scientists
(continued on page 2)

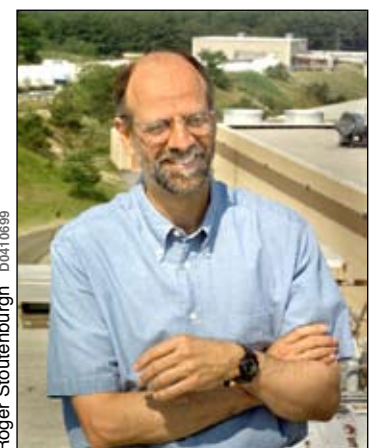
424th Brookhaven Lecture, 4/18 Musolino to Discuss Preventing, Dealing With Dirty Bombs

At the next Brookhaven Lecture, at 4 p.m. on Wednesday, April 18, in Berkner Hall, BNLers and the public will have the opportunity to hear Stephen Musolino, a health physicist in the Nonproliferation & National Security Department, talk on "Radiological Threat Reduction: Dealing With Dirty Bombs."

All are welcome to attend this free lecture, which is open to the public. Refreshments will be offered before and after the talk. Visitors to the Lab of 16 and older must carry a photo ID.

Musolino will base his lecture on the research on dirty bombs he and Fredrick Harper reported in the April 2006 issue of the *Health Physics Journal* and at the recent 2007 annual meeting of the American Association for the Advancement of Science (see accompanying story). He will focus on measures to prevent radiological terrorism and on emergency response should a dirty bomb be detonated.

In his talk, Musolino will describe programs BNL has supported to evaluate and also recommend upgrades for the security of industrial sources such as those used in medicine and industry. In another project, BNL researchers worked with the international police agency, Interpol, training front-line police officers in countries along traditional smuggling routes on how to use radiation detectors. The last project Musolino will discuss will be the guidelines de-



Stephen Musolino

veloped by BNL and Sandia National Laboratories for first responders, such as police or fire, to use during the first 48 hours after a radiological dispersal device has been detonated.

Stephen Musolino joined BNL in 1978. He has been one of the Radiological Assistance Program (RAP) Team Captains since 1982, where he has developed emergency plans and participated in numerous nuclear emergency exercises. Currently, he works with the National Nuclear Security Agency's Office of Global Radiological Threat Reduction. He received his M.S. in nuclear engineering from the Polytechnic Institute of New York, and Ph.D. in health physics from the Georgia Institute of Technology. He is certified in Comprehensive Practice by the American Board of Health Physics.

To join the lecturer for supper at a restaurant off site after the talk, contact Cheryll Christie, cheryllc@bnl.gov or Ext. 2852. — Liz Seubert

Employee Lunchtime Tour, 4/20**Visit BNL's Historic Trenches of WW I — A Here and Now 'Then & Now'**

Mark Davis, BNL's Cultural Management Director, is standing in one of the historic World War I trenches on site.

The physical contrasts of "Then & Now" at the Lab are still visible in many areas. And some "thens" were old even when BNL was new in 1947 — for example, the trenches of World War I that were built at Upton for troops to get trench-warfare training. As part of the Lab's 60th anniversary celebrations, the on-site trenches of World War I will be the focus of the next Employee Lunchtime Tour, on Friday, April 20, at noon. BNL's Cultural Management Director Mark Davis, one of the most knowledgeable people on site for Lab and pre-Lab Camp Upton history, will lead an expedition to the site. All interested employees are welcome to meet at noon in Berkner Hall lobby to be taken to the trenches, returning by 1 p.m. For more information, call Elaine Lowenstein, Ext. 2400.



This photo of a soldier standing in an Upton Reserve training trench was taken about 1918.

Anxiety Awareness & Screening, 4/19

On Thursday, April 19, the Employee Assistance Program is offering free, short screenings for the many different types of anxiety disorders. Call Ext. 4567 for an appointment.

Children's Swimming, 7/2- 8/24

BERA's non-camp swimming program for children will be held July 2 -August 24, Monday-Friday, 2:15 p.m. to 3:15 p.m. at the BNL pool. Children should arrive at 2 p.m. for preparation. Each child will have one swimming lesson a week, totaling eight lessons, with no make-up classes. American Red Cross certificates will be awarded to children who qualify. The cost per child is \$80.

Participants may be children or grandchildren of Lab employees, retirees, visitors and facility users. The child should be 42 inches tall, able to stand flat-footed in the shallow end of the pool, with mouth above the water. All children's dress code in the camp or swimming classes should be modest and in good taste. Female bathers are requested to wear one-piece bathing suits or wear a T-shirt or similar cover up over a two-piece.

To register, send your request to: Recreation Office, Bldg. 400, with an \$80 check payable to BERA. Full payment is due on or before June 1. For more information, call the Recreation Office, Ext. 2873, and see www.bnl.gov/bera.

Take Our Children to Work Day, 4/26

On Thursday, April 26, Lab community parents are invited to bring their children of ages 10 to 15 to the Lab to participate in Take Our Children to Work Day, a national event sponsored by the Ms. Foundation for Women. To register, fill in the form sent to all employees, or download it from Human Resources website. Return it to Susan Foster, Bldg. 400B. Contact Liz Gilbert, Ext. 2315 or gilbert@bnl.gov.

Help BNL Toastmasters Celebrate Sixteen Years as BERA Club

BNL Toastmasters are celebrating 16 years of the BNL Toastmasters Club on Tuesday, April 17, at 5:30 p.m., Biology Bldg. 463, Room 157. All are invited to help the Club members celebrate 16 years of building better speakers at BNL. Food, coffee, and tea will be served. For more information, call Beth Lin, Ext. 3372. To participate, RSVP by Monday, April 16. Also, check out toastmasters@bnl.gov and www.bnl.gov/bera/activities/toastmstrs/.

LIANS Dinner Meeting, 4/19

The next meeting of the Long Island Chapter of the American Nuclear Society (LIANS) will be held on Thursday, April 19, when Richard Lefferts of Stony Brook University's Department of Physics and Astronomy will talk on "Counting Teeth to Counting Nuclei: Dating (With) an Accelerator."

The meeting will be held at the South Shore Restaurant, Patchogue, on Rte. 112, just north of the NW corner of Sunrise Highway. Complimentary appetizers/cash bar will start at 6 p.m., dinner at 7 p.m., and Lefferts's talk at 8 p.m. The cost is \$25/person. Reserve by Monday, April 16, leaving a message with Arnie Aronson, Ext. 2606.

Ducks Tickets

Ducks tickets at \$10 each will be available on Wednesday, April 11, at the BERA Store (no phone calls), with a two-game maximum per person during the first week of sales. There are 72 regular season home games with eight seats per game located in section 205, Rows J & K, on the third base side. Pay at the time of purchase. Other ticket sales include Yankees and Mets games, NASCAR, fishing, Atlantic City coming up.

Blues/Rock Concert, 4/27

Blues/rock guitarist Andy Aledort and the Groove Kings, the Todd Wolfe Band, and singer/songwriter/guitarist Mark Newman will be the featured performers at "Pickin' at the Berkner," a concert to be held in Berkner Hall on Friday, April 27, at 8 p.m. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID. Buy tickets at \$15 each at the BERA Store or at www.ticketweb.com.

Celebrate National Library Week With the Research Library, 4/16-20

In celebration of National Library Week, all are invited to an Open House at the Research Library, Bldg. 477. Come to the library Monday through Friday, 10 a.m. to 3 p.m. for a general overview of information services available to BNL researchers. Also, the following special events are offered:

- **Inspec Workshop** — Monday, 4/16, 1-2 p.m. Physics Small Seminar Room, Bldg. 510A
- **CAS SciFinder Workshop** — Tuesday 4/17, 10 - 12 p.m. Chemistry Room 300, Bldg. 555
- **ISI Web of Science Workshop** — Wednesday, 4/18, 10-11 a.m.; 1-2 p.m. Research Library, Bldg. 477

Refreshments will be served during workshops and the open house hours. For more information, call the Research Library, Ext. 7761 or 3487.

TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Thursday, April 19th, and Wednesday, April 25, to answer employees' questions about their financial matters. For an appointment, call Suzanne Leone, (866) 842-2053, Ext. 4601.

Vanguard One-on-One Retirement Planning, 4/25

On Wednesday, April 25, the Vanguard Group invites you to spend 45 minutes one-on-one with a licensed Vanguard representative to talk on site about financial issues. Schedule your 45-minute session online at www.meetvanguard.com or call 1-800-662-0106, Ext. 14500.

Addiction and the Brain

major addictive component of cigarettes and other tobacco products. But brain-imaging studies conducted by Fowler have focused on monoamine oxidase (MAO), an enzyme that breaks down dopamine and other neurotransmitters associated with reward and mood. Using PET scanning, Fowler and her colleagues have demonstrated that brain MAO in smokers is reduced by approximately 40 percent relative to non-smokers and former smokers. These studies have also shown that smokers have reduced levels of MAO in other body organs such as the heart, lungs, kidney, and spleen.

Stephen Dewey, BNL Medical Department, spoke on "The Causes, Consequences, and Treatment of Inhalant Abuse." More than 2.1 million children between the ages of 12 and 17 have used an inhalant, or inhaled a volatile chemical, to get high, according to Dewey. Inhalants such as common household cleaners are readily accessible, tend to be drugs of first use, and are as popular as marijuana among young people. They can be highly addictive, and inhalant abuse is associated with serious health and social costs.

Gene-Jack Wang, BNL's Medical Department Chair, spoke on "The Addiction-Obesity Connection." The obesity epidemic, as evidenced by dramatic increases in the numbers of obese individuals in the U.S. and in many other countries, adds urgency to the need to understand the mechanisms underlying pathological overeating. Mounting evidence from PET research led by Wang indicates

that compulsive overeaters and drug addicts suffer from similar disruptions in brain circuitry.

Helene Benveniste, Department of Anesthesiology at Stony Brook University and BNL Medical Department, prepared a talk on "Maternal-Fetal Drug Transfer: Implications for Drug Abuse and Therapeutics," which was presented by Fowler because of Benveniste's weather-related absence. Women who suffer from chronic diseases such as hypertension and epilepsy and become pregnant must generally continue their medical treatment during pregnancy, but nearly all drugs potentially harm the fetus. Consumption of legal and illegal addictive drugs also continues through many women's pregnancies. Also, the detrimental effects of maternal alcohol abuse during pregnancy on the fetus have been shown in fetal alcohol syndrome. But scientists still do not understand how the fetal brain responds to most other drugs ingested by the mother.

In addition, **Edythe London**, University of California, Los Angeles, spoke on "Methamphetamine and the Brain: A Problem of Inhibitory Control," and **Charles O'Brien**, VA Medical Center/University of Pennsylvania, spoke on "Promising Approaches in the Treatment of Drug Addiction." Discussants were **Yasmin Hurd**, Mount Sinai School of Medicine, and **Barry McCaffrey**, retired U.S. Army General and former Director of the White House Office of National Drug Control Policy.

— Karen McNulty Walsh

(cont'd)

Schwartz Talks on Greenhouse Effect

(cont'd)

agree that the burning of fossil fuels for heat and electricity, as well as the burning of gasoline in vehicles, has led to an excess of carbon dioxide emissions that has contributed to global warming. Once this excess carbon dioxide is created, it stays in the atmosphere for decades — maybe a century.

Schwartz will discuss the science of global warming, as well as give some statistics about it. On a practical level, he will describe how an average family contributes to global warming and provide suggestions on how they can decrease their energy consumption to reduce carbon dioxide emissions. He will also briefly describe some of the research that is being conducted at Brookhaven Lab to gain a better understanding of this phenomenon.

Stephen Schwartz received a bachelor's degree in chemistry from Harvard University, in 1963, and a Ph.D. in chemistry from the University of California, Berkeley, in 1968. After postdoctoral research at the

University of Cambridge, England, Schwartz came to Long Island to join the Chemistry Department at Stony Brook University. He joined Brookhaven Lab in 1975. His current research interest centers on the influence of energy-related emissions on climate, with a focus on the role of atmospheric aerosols.

A Fellow of both the American Association for the Advancement of Science and the American Geophysical Union, Schwartz received the 2003 Haagen-Smit Award for an "outstanding paper" published in the journal *Atmospheric Environment*. In 2006, he received the BNL Science and Technology Award for distinguished contributions to the Laboratory's science and technology mission. Schwartz is one of some 300 scientists worldwide to be designated a "highly cited researcher" in geophysics by Thomson-ISI (formerly the Institute for Scientific Information). — Diane Greenberg

BNL Celebrates Earth Week, 4/16-20

Tickets will be issued to participants of each event, to be entered into a drawing for door prizes, which include a new bicycle. Winners will be notified on April 20.

Environmental Displays, 4/16-20

Berkner Hall lobby. Displays will be shown throughout Earth Week, including photos of on-site wildlife taken by Tim Green and environmental posters created by local elementary schoolchildren participating in BNL's annual "Your Environment" art contest.

Environmental Pledge Tree, 4/16-18

Berkner Hall lobby; 4/16 -20, Research Support Building, 11:30 a.m.-1:30 p.m. Small changes in daily life can ensure a better environment. This year's theme is helping to reduce greenhouse effects. Place your pledge leaf on the Environmental Pledge Tree and show your support then spin the prize wheel for some great prizes. Proceeds will be donated to the Foundation for Ecological Research in the Northeast (FERN) and used to conduct research within the Pine Barrens of Long Island.

Stephen Schwartz, Environmental Speaker, Tuesday, 4/17, Noon

Berkner Hall. Schwartz will talk on "Greenhouse Effect and Your Family's Contribution to It." This free lecture is open to the public. No reservations required. Visitors to the Lab of 16 and over must carry a photo I.D. See story, page 1.

Environmental Vendor Fair, Tuesday, 4/17, 11:30 a.m. - 1:30 p.m.

Berkner Hall lobby. Vendors include LI Greenbelt Train Conference, LI Sound Study-NY Sea Grant, U.S. Fish & Wildlife Service, National Wildlife Refuge Complex, Vesta Vapore, LIPA, Simple Green, Sylvania Light Bulbs, Green Thumb Farm, Organic Spa Products, and others.

Office Supply Swap, Tuesday & Wednesday, 4/17 & 18, 11:30 a.m.-1:30 p.m.

Berkner Hall lobby. By popular demand, this year's Office Supply Swap will be held for two days. Take this opportunity to spring clean — bring unwanted supplies to Berkner Hall lobby by 11:30 a.m. All supplies not swapped will be recycled.

LITM/NuRide Sign-Up, Tuesday, 4/17, 11 a.m. - 2 p.m.

Berkner Hall lobby. BNL employees, users, and guests can cut their commuting costs and help the environment by reducing air emissions. Just sign up for this highly flexible rideshare service, run by L.I. Transportation Management, in which participants can earn rewards for every ridesharing trip they take.

Annual Earth Day Awards Ceremony, Thursday, 4/19, 3:30-5 p.m.

Berkner Hall. All are invited to George Goode's presentation of the 2007 Environmental Stewardship Awards to BNL employees who have demonstrated outstanding contributions in areas of pollution prevention, recycling, waste minimization, energy conservation, compliance, or resource conservation. Jim Tarpinian will present the "Your Environment" poster awards to local elementary schoolchildren.

Hybrid Vehicle Display, Friday, 4/20, 10 a.m. to 2 p.m.

Berkner Hall front parking lot. Check out hybrid vehicles on display and learn about their benefits, such as emission reductions and increased fuel economy.

Heckscher Spring Festival, Saturday, Sunday, 4/21 & 22, 8:30 a.m. - 5 p.m.

Heckscher State Park. View displays hosted by the New York State Office of Parks, Recreation & Historic Preservation in honor of Earth Day. BNL's Environmental & Waste Management Services Division will be there with many interactive displays. All are welcome to attend and enjoy giveaways, music, food, and entertainment for children.



BNL's VIP Celebrates National Volunteer Month

The Volunteers in Partnership program (VIP), sponsored by Brookhaven Science Associates, seeks to support and acknowledge employees who volunteer in organizations outside BNL. To celebrate National Volunteer Month, in an effort coordinated by VIP member April Gray, four BNLers are coming to Berkner Hall lobby to share information about their volunteer work in a local community organization. Each Friday, the Bulletin will feature the volunteer and service organization of the following week. For more information on the VIP program, contact Barbara Blenn, Ext. 4458, or go to www.bnl.gov/community/vip/body.htm.

Learn About Little Flower Mentoring Program, 4/18

Next Wednesday, April 18, Terrence Buck of the Human Resources & Occupational Medicine Division will be in Berkner Hall lobby to discuss and give out information on the mentoring program for Little Flower Union Free School District. Buck and Tammy White of Little Flower founded this program six months ago.

Says Buck, "The students at Little Flower need caring mentors to help them become confident and successful young adults. The mentoring program is set up between Brookhaven and Little Flower to encourage one-on-one friendships so that each student involved can have a positive and stable role model.

"There's a great need for good mentors," continues Buck. "As you can understand, you have to be in it for the long term so that the student or students you get to know have time to trust you for any advice you give. It's a big commitment, but it is extremely worthwhile. When you put yourself in these students' place, you can imagine how hard it must be to know you have no family to depend on when you are out in the world. That made me realize that I would like to help if I could at this important time when they are discovering their strengths and making choices. These young people are our neighbors. I certainly hope that BNLers will stop by the information table next Wednesday to learn more about this mentoring program and how more of us can help them find the right future."



BNL's Terrence Buck and Little Flower's Tammy White look at a fold-out brochure on Little Flower programs.

Roger Stouhenburgh photo

CALENDAR

— NEXT WEEK —

Monday, 4/16

Step Into Spring Health Program
Step into Spring is a six-week pedometer walking program. Record your steps, work toward 10,000 steps/day. Space limited. Register with Michael Thorn, Bldg. 490, OMC, or mthorn@bnl.gov.

Mon.-Fri., 4/16-20

National Library Week
See notice below, left, for week-long schedule of workshops, events and open days at the Research Library, where National Library Week is being celebrated.

***BNL Celebrates Earth Week**
See events listed at left.

Tuesday, 4/17

***Schwartz on Global Warming**
Noon. Berkner Hall. See story, page 1.

Wednesday, 4/18

***424th Brookhaven Lecture**
4 p.m. Berkner Hall. Stephen Musolino, Nonproliferation & National Security Department, talks on "Radiological Threat Reduction: Dealing With Dirty Bombs." Free, open to public. See story, page 1.

Thursday, 4/19

***Earth Day Awards Ceremony**
3:30 p.m. Berkner Hall. See left.

Friday, 4/20

***Employee Lunchtime Tour**
Noon. Berkner Hall lobby. Meet the group to be taken on a tour of the World War I training trenches on site, with BNL's Cultural Management Director Mark Davis as guide. No reservation needed. The group will return to Berkner by 1 p.m. See photos, information, on page 2.

— WEEK OF 4/23 —

Monday, 3/26

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.

Friday, 4/27

***Dance Social - Swingin' Into Spring**
7 p.m.-midnight. Brookhaven Center, North Ballroom. Live band, 20-piece Bill Wilkinson & Orchestra, will play 8-11 p.m. Free dance lesson 7-8 p.m., digital DJ, 11 p.m.-midnight. Open to the public. Visitors of age 16 and over must bring a photo ID. Tickets, \$25 each in advance at the BERA Store. See left.

***Blues/Rock Concert**
8 p.m. Berkner Hall. "Pickin' on the Berkner," featuring Andy Aledort and the Groove Kings, the Todd Wolfe Band, and Mark Newman, sponsored by the BNL Music Club. Open to public. \$15. See www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=07-34.

— WEEK OF 4/30 —

Tuesday, 5/1

'Big-60' Photo-op Rescheduled
Noon. Police HQ field. All employees, retirees, facility-users, guests, contractors, and on-site residents are invited to join in the giant human "BNL 60" living logo to be photoed and videoed from the water tower to commemorate BNL's 60th anniversary. Weather prevented the photo's being taken on the original date of 3/21. Free T-shirts for all participants, while supplies last. Rain date, May 3. See also www.bnl.gov/60th/events/photo.asp.

Dance Social — 'Swingin' Into Spring,' 4/27

Bill Wilkinson & Orchestra will play at a dance social in the Brookhaven Center on Friday, April 27, 8-11 p.m., with a one-hour beginner dance lesson in East Coast Swing, 7-8 p.m., and dance music played by a Digital-DJ, 11-midnight. Sponsored by the BERA Social & Cultural Club, the event is open

to the public. All visitors of age 16 and over must bring a photo ID. Tickets cost \$25 in advance at the BERA Store; \$35 at the door. Cost includes a cold hero buffet, cookies, refreshments, etc. ASAP members are offered a 50 percent discount. Contact Rudy Alforque, Ext. 4733 or rudy@bnl.gov.

Classified Advertisements

Motor Vehicles & Supplies

03 HONDA ACCORD EX V6 - Dk blue, load-ed, Sirius ready, auto start, excel. cond. 82K mi. \$13,000/neg. Ext. 4298 or 928-7893.

03 HYUNDAI TIBURON - 6-spd man. trans., sports pkg., fully equipped, excel. cond. 30K mi. \$11,000. Ext. 5149 or 929-0961.

02 TOYOTA CELICA - GT, 2dr., 5spd., a/c, AM/FM, cass., cd, c/c, FWD, avail. 08/17. 82K mi. \$11,000/neg. Ext. 4924.

01 FORD TAURUS SES - red, 4-dr. sedan, leather int., many options, 50k mi., excel. cond., \$7,200/neg. Gary, 924-0593, Adam, 476-0627.

01 VW PASSAT - fully loaded, 1.8L, a/t, new tires, s/roof, CD, burgundy, 4dr, all pwr., primo. cond. 61K mi. \$10,500. 475-3415.

98 FORD EXPEDITION XLT - 4WD, 5.4 liter, 3rd seat, leather, 6 CD, loaded, white/tan, excel cond, KBB value \$8,570. 125K mi. \$7,400. Rich, Ext. 7294.

96 HONDA ACE VT1100C2 - mint, red/white, super well mant. cruiser, many extras, runs perfectly. 36K mi. \$4,500/neg. Robert, Ext. 4798.

96 GEO PRIZM - 4cyl., a/t, a/c, p/s, good cond., good mileage, runs well, am/fm/cass. 116K mi. \$2,500/neg. Robert, Ext. 4005 or 398-7601.

95 HONDA CBR1000F - V&H exhaust, smoked shield, tank bra, new tires, battery, chain. Immaculate cond. 24K mi. \$2,900. Rich, Ext. 7294.

90 OLDSMOBILE DELTA 88 ROYAL - Blue, lt blue int., excel. shape, orig. mi., 2nd owner. 63K mi. \$1,950/neg. Roy, Ext. 6392 or 433-0833.

86 HARLEY DAVIDSON SPORTSTER - 1100cc Evo, S&S carb. 5100 orig. mi., maroon & grey. 5100 mi. \$4,000. Ed, 286-0654.

Furnishings & Appliances

FREEZER - Sears Coldspot, large capacity, top loading, white, 4'x3'x2', excel cond, great for extra storage \$75. Rick, Ext. 3005.

HOUSEHOLD ITEMS - furniture/contents of house, to much to mention, inexpensive, prices very negotiable. Ext. 7007 or 473-9678.

Sports, Hobbies & Pets

GOLF CLUBS - A set of Titleist DCI oversized irons with graphite shafts (3-PW,GW,SW). New tour wrap grips. Ernest, Ext. 5735.

GOLF CLUBS - Hogan Edge Irons, 3-PW. New steel shafts & grips. #2 & #3 Hybrid clubs included with the set. Ernest, Ext. 5735.

POOL TABLE - 8 ft Imperial Eliminator, originally \$1,650, 5 yrs. old, excel. cond., you must move. \$500. Ext. 3789 or 751-5389.

Tools, House & Garden

RADIAL ARM SAW - Dewalt, good cond., Ask \$100 neg. Frank, 839-6327.

Miscellaneous

HOT TUB - Cal Spa, 7x7 ft., 40 jets, 7 person, great cond. New \$7,000. \$3,500 firm. Joann, 929-1981.

SLOT MACHINE - Triple Triple Diamond (9x, 81x). Actual Las Vegas casino slot machine. IGT. Accepts qtrs./bills \$850. Rick, Ext. 3005.

SMALL JEWELRY BOX - wood, 4 drawers, necklace hooks for hanging. Ask \$10. Barbara, Ext. 3431.

Community Involvement

BLOOD DRIVE - At Ridge F.D. Headquarters, Rt. 25, Ridge, 4/9, 3-8:30 p.m., For info, or to make appointment, call Jason, 739-7369.

Happenings

BREAKFAST/CHINESE AUCTION - Sat., 5/12, 8-12 PM Best Western Riverhead, N. Y. (Exit 71). Sponsored by Unity Baptist Church. Ext. 3571.

CHINESE AUCTION - Fri, April 20, 6-10 pm Knights of Columbus - 31 Montauk Hwy, Hampton Bays (Old St., Rosalies Church). Ext. 5191.

Free

PROM DRESS - size 14, pink, fitted bodice w/full skirt. David, Ext. 7277.

Wanted

AFGHANS OR COMFORTERS - not used, crocheted, knitted or quilted afghans to be donated to children's hospital, info avail. Maryann, Ext. 4705.

APARTMENT IN NYC - needed for 2 weeks in June, 6/1-14, Upper E. Side preferred, for family w/medical need. 821-2558.

BRICKS - need free used red bricks, will pick up. Denise, Ext. 3406.

DESKS - for elementary school students, for free or to buy. Jangho, Ext. 4021.

GOLF CLUB SET FOR SMALL CHILD - Golf club set for small child/beginner set. (age 6-10). Carol, Ext. 7686 or 878-0897.

REFRIGERATOR - white, top or bottom freezer, 18-21 cu ft., energy star rated, gd. working cond. Bill, 395-9610.

SUMMER HOUSING - 2 bdrms., furnished, close to BNL, need for June-Aug. '07, may be extended. 603 7107.

TRUCK CAMPER - Call with details. Michelle, Ext. 4905.

YARD SALE ITEMS/DONATIONS - for yd sale, 6/2, to raise \$ for restoration/upkeep of abandoned cemeteries in Patchogue. Steve, Ext 2496, or Donna, Ext. 2826.

On-Site Services

ENTERPRISE RENT-A-CAR - Stop by the on-site office at Bldg. 355, 50 Brookhaven Ave., to check weekend specials, daily rates. Or call Ext. 4888 or see www.enterprise.com.

ON-SITE SERVICE STATION - All vehicle services, NYS inspections, new batteries, tires, timing belts, repairs, etc., done while you are at work. Ext. 4034.

NAYARSONS DINING at BROOKHAVEN CENTER - full menu dinners 5-8 p.m.; specials 5-6:30 p.m. 3-course, wine/soda, coffee, \$10.95 or \$9.95 (no take out); Weds. rib-eye steak, veg., Bud. \$11.95, all plus tax.

For Rent

BROOKHAVEN - charming house in Brookhaven Hamlet, very quiet area, use of kitchen, washer dryer, rent incl.all. \$520/mo. 286-4028 or (516) 314-3528.

CENTER MORICHES - Waterfront, 50' blkhd., 3/4 bdrm., 2 bath, 2-car detchd. heated gar./rec. rm., new kit., ss appl., carpet, sidg., roof, elec. serv., w/d, hrd. wd. flrs. \$2,200/mo./neg. Ext. 5288.

Arrivals & Departures

— Arrivals —

Paul Decker NSLS II
Jinying Gou Biology

— Departures —

Jason Cunha..... Physics
Johnny Cintron Plant Eng.
Kab Seok Kang..... Comput. Sci.

CENTEREACH - 2 bdrms., close to stores, transp., businesses, use of yard, no pets/smkg., incl. all. \$1,275/mo. 546-8600.

N. MYRTLE BEACH, SC - 1 bdrm condo, sleep 4, new bath, rugs & w/d, clean, near beach, great location. \$300/wk. 929-1981.

RIDGE - 1-bdrm. cottage, 3 miles S Wm. Fldy. Pkwy to BNL. One person & one car only, nonsmoker, no pets, 6 mths. lease, extendable. \$750/mo./neg. 678-6455.

ROCKY POINT - 1-bdrm. bsmt. apt., share laundry area, pvt. ent., own thermostat, a/c, kitchenette, temp ok, furn/urnfurn., pets ok. \$750/mo. 398-8024.

ROCKY POINT - 1-bdrm. apt., kit., l/r, bath, pvt. drway/ent., no smkg./pets, 1 mo. sec., utilities not incl. \$850/mo. 821-3287.

SAYVILLE - lg., 1 bdrm., l/r, with f/p, all renov., grd level. \$1,100/mo. 256-6353.

SHOREHAM - mint studio apt., sep. ent., kit. & bath, big yard, sep. therm, cable TV, avail. May 2007, 7 min. to Lab, no pets/smkg. \$750/mo. 747-3495.

For Sale

CENTER MORICHES - Waterfront, 50' blkhd., 3/4 bdrm., 2 bath, 2-car det. heated gar./rec. rm., new kit., ss appl, carpet, sidg, rf, elec. serv., w/d, hrd. wd. flrs. \$499,000/neg. 775-0724.

MANHATTAN - Timeshare, any 7 days per year. Across from Carnegie Hall. Sleeps 4, 1 bath, kitchen. \$23,500 OBO. Gerhart Friedlander, 631-650-3222.

MANORVILLE - Manorville Schools, remod. 3-bdrm, 1-bath ranch, full bsmt., new kit. & bath, 1-car gar., 290x75 prop. backed by acres of woods. \$319,000 516-503-5836.

MEDFORD - BlueRidge Condo devel, indr, outdr pool, tennis, golf, updated 3 BR, 1.5 bath, l/r, d/r, kit., 2-level deck, landscaped on 6th hole. \$334,900/neg. Eileen, Ext. 3995 or 696-4366.

MILLER PLACE - 3300 sq ft Post Modern Col., 5 bdrms. 2.5 bths .79 fenced acre, CAC, den w/fplc. hdwd flrs, 2 car-gar, bsmt. \$779,999/neg. Frank, 642-8043.

PALENTOWN - 3 Catskills acres, 2 bldg sites clear, 2 hrs. n of NYC, owner financ. 5% w/\$20,000 down, see <http://tinyurl.com/2kxgew>. \$52,000/neg. Ext. 2922 or 845-750-6909.

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/.

The Deputy Director has exempted the following positions from the freeze:

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

KH3257. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics or materials science. Experience with synchrotron x-ray diffraction is highly desired. Research involves a joint project with BNL Condensed Matter Physics/Materials Science Department and the Hebrew University to study high-temperature superconducting epitaxial films. Synchrotron x-ray techniques, including the coherent x-ray electron density mapping technique (COBRA), will be applied for a complete structural characterization of the epitaxial films, their surface and interface with the substrate. The films will be prepared using a unique atomic-layer-to-layer Molecular Beam Epitaxy system newly acquired by BNL. The goal of the project is to correlate the detailed x-ray structural measurements with RHEED, AFM, and transport measurements to better understand the physics underlying high-temperature superconductivity. Under the direction of R. Pindak. Interested candidates should send their CV with a list of publications and contact information of three references to Dr. R. Pindak at pindak@bnl.gov. National Synchrotron Light Source Department.

KH4591. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in condensed matter physics or chemistry and familiarity with scientific computing and programming. Selected candidate is expected to conduct theoretical investigation of the self-assembly of correlated electronic nanomaterials and their optical, magnetic, and transport properties, using computational "first-principles" methods and quantum many-body techniques. The project also includes developing novel state-of-the-art theoretical/numerical approaches to properly treat strong electronic correlation, in close collaboration with several other world-leading groups within the DOE Computational Materials Science Network. Available parallel computing resources include DOE supercomputer centers and local Beowulf clusters. Under the direction of Dr. Wei Ku. Condensed Matter Physics and Materials Science Department.

NS8569. ASSISTANT LABORATORY DIRECTOR FOR FACILITIES & OPERATIONS (M-5) – Qualified candidates will possess a relevant technical degree, and 15 years of progressively responsible leadership and financial management experience in a complex organizational setting. Five years' experience within the DOE complex or other federal or military organizations, and experience managing organized labor employees or contractors is required. An advanced degree, professional registration in architecture or engineering, experience in managing operations in scientific research institutions, and familiarity with risk communications and media interaction is highly desirable. The ALD, F&O will be an individual of integrity with high personal and professional ethics, strong written and oral communication/presentation skills, and a demonstrated commitment to team-work, innovation, collaborative decision-making, community outreach, and diversity. Candidates must be able to obtain and maintain a DOE "Q" security clearance. This position reports to the Laboratory Deputy Director for Operations and is a senior member of the Laboratory's leadership team. The ALD, F&O provides the leadership and vision for the management of site master planning, construction, facilities operations & maintenance, security, fire protection, emergency planning, building management, administrative services, and mechanical fabrication, at the Laboratory. The scope of responsibility includes a \$62 million annual operating budget, a \$33 million construction and capital budget, and 540 employees. The ALD, F&O develops and implements policies and procedures for key aspects of the Laboratory's performance-based management system. The ALD, F&O also serves as a Laboratory

Emergency Manager and Spokesperson as required. Director's Office.

NS4371. SENIOR CONTRACTS SPECIALIST (A-8) Requires a BA in business administration or equivalent experience plus ten years' directly related experience. MBA and/or Professional Certification is desirable. Must have knowledge of Federal Acquisition regulations for fixed price contracts and experience with procurement of high tech electronic equipment. Must be well versed in all aspects of procurement in a government environment including drafting RFP's, proposal evaluation, cost and price analysis, negotiation, drafting of contracts and modifications. Experience in teaming with technical requestors and quality assurance personnel in a scientific or high-tech environment is highly desirable. The ability to interface between scientist and commercial vendors while obtaining customized equipment, in addition to protecting the government's rights in a competitive contracting environment is an essential quality for this successful candidate. Familiarity with Microsoft Word and Excel is preferred. Will be responsible for obtaining desired equipment and services through contractual agreements with minimal supervision. In addition, will be responsible for contract administration functions including monitoring of progress, receipt of deliverables and invoice approval in coordination with contract administration representatives, technical representatives and contractors. Procurement and Property Management Division.

TM4305. PROJECT ENGINEER I (P-7) – Requires an advanced degree or equivalent capabilities in electrical engineering or physics and ten (10) years experience in the design and analysis of high power RF systems. The candidate must demonstrate expertise with system analysis tools such as Pspice, MatLAB or equivalent. Expertise with test and measurement equipment, in particular network and spectrum analyzers is required. Experience with klystron amplifiers and high voltage supplies is highly desirable. Excellent communication skills and the ability to develop detailed technical design and procedures are required. The NSLS-II RF group is responsible for the development of RF systems for a 3 GHz s-band linac, 500 MHz normal conduction cavity for booster synchrotron and superconducting cavity systems for the storage ring. The selected candidate's responsibilities include analysis, design and commissioning of a broad range of RF systems for the NSLS-II complex including S-band linac, 500MHz normal super-conducting cavities powered from 80 - 300kW CW inductive-output-tube (IOT) and klystron amplifiers. The selected candidate will be required to work closely with the electrical and mechanical engineering groups in the integration of the RF systems into the accelerator complex. National Synchrotron Light Source-II.

TM4463. PROJECT ENGINEER I (P-7) – Requires an advanced degree or equivalent capabilities in electrical engineering or physics and ten (10) years experience in the design and analysis of high speed analog and digital electronics. The selected candidate must demonstrate expertise with design analysis tools and laboratory measurement techniques. Experience with the design of FPGA based signal processing and controls is highly desirable. Excellent communication skills and the ability to develop detailed technical design and procedures are required. The ideal candidate will have experience in the design of RF systems for particle accelerators including low noise RF sources and detectors, frequency up/down conversion and digital baseband signal processing. The candidate is expected to work closely with the accelerator physics and controls groups in the integration of the RF systems into the overall accelerator controls system. Supporting the NSLS-II RF group, the selected candidate is responsible for the development of RF systems for a 3GHz s-band linac, 500MHz normal conducting cavity for booster synchrotron and superconducting cavity systems for the storage ring. National Synchrotron Light Source-II.

TM4605. SENIOR DESIGNER (T-4) – Requires an AAS degree in electronic technology, electrical drawing or equivalent and ten (10) years experience in the design of high density multi-layer printed circuit boards (PCB) and schematic capture. Candidate should have a demonstrated skill in designing precision analog, RF and high speed digital layouts using PCB design software packages. Proficiency with P-CAD and/or Mentor Graphics systems will be given preference. AutoCAD experience is also desired. Good interpersonal skill and strong self-motivation skills are required. The Senior Designer will report to the Head of the Electrical Engineering and will assist in setting up the electrical design group for NSLS-II. Responsibilities also include the overall PCB design and schematics for various electrical systems used in NSLS-II. The Senior Designer may coordinate and check the work of Drafting Specialists as required. National Synchrotron Light Source-II.

TM4609. PROJECT ENGINEER II (P-7) – Requires a BS in electrical engineering and a minimum of ten (10) years experience with a successful track record in the engineering design and construction of power distribution and electrical cable routing systems. The candidate should have a strong

knowledge of the National Electrical Code and OSHA regulation as it pertains to large electrical systems. It is highly desirable for the candidate to have experience in designing electrical systems used in large accelerator facilities. Experience resolving complex problems such as conflicting design requirements, unsuitability of conventional materials and managing difficult coordination requirements is a must. Excellent communication skills and the ability to develop detailed technical design and procedures are required. Candidate must possess strong interpersonal skills with the ability to interact with a diverse group of scientist and technical staff. Experience with project management tools such as MS Project in developing long term project schedules that reflect tasks, durations, resource and cost scope is required. Reporting to the Head of Electrical Engineering, the selected candidate will be responsible for the planning, budgeting, scheduling and coordination of various engineering projects for NSLS-II. The selected candidate will supervise designers, technicians, electricians, and others who assist in project specific assignments for power distribution and electrical cable routing systems. National Synchrotron Light Source-II.

TM4608. SENIOR DRAFTING SPECIALIST (T-3) – Requires an AAS degree in electronic technology, electrical drawing or equivalent and six (6) years' experience in the design of high density multi-layer printed circuit boards (PCBs) and schematic capture. Candidate should have a demonstrated skill in designing precision analog, RF and high speed digital layouts using PCB design software packages. Proficiency with P-CAD and/or Mentor Graphics systems will be given preference. AutoCAD experience is also desired. Good interpersonal skills and strong self-motivation are required. The Senior Drafting Specialist will report to the Head of Electrical Engineering and will be responsible for PCB design and schematics for various electrical systems used in NSLS-II. National Synchrotron Light Source-II.

TM4612. RESEARCH ENGINEER II (P-7) – Requires a BS degree in electrical engineering and a minimum of ten (10) years experience with a successful track record in the design, development of complex precision analog and digital control systems for use in high precision power supplies. The candidate should know how to use electronic circuit analysis software to make models of precision analog and power semiconductor circuits. Also the candidate should be familiar with hardware development systems for FPGA and micro-controllers. Ability to utilize new or improved engineering techniques, procedures or equipment is preferred. Strong trouble shooting skills are a must. Selected candidate must have excellent communication skills and the ability to develop detailed technical design and procedures. The ideal candidate will possess strong interpersonal skills with the ability to interact with a diverse group of scientific and technical staff. Reporting to the Head of Electrical Engineering, responsibilities will include developing and evaluating plans and criteria for a variety of electrical engineering projects for NSLS-II. National Synchrotron Light Source-II.

TM4631. MECHANICAL ENGINEER (P-9) – Requires an advanced degree in Mechanical Engineering and ten plus (10+) years of relevant experience. Experience in thermal, structural analysis as well as mechanical design is required. Knowledge or experience in ANSYS® and Inventor® is highly desirable. The candidate must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientists, technical staff and users. The selected candidate will report to the NSLS-II Mechanical Engineer Group Leader and will be assigned to the Insertion Device Group. The responsibilities will include designing the mechanical system for NSLS-II insertion devices. The selected candidate will provide technical expertise in the R&D, design, installation, and commissioning of NSLS-II insertion devices. National Synchrotron Light Source-II.

TM4615. SENIOR PROJECT ENGINEER (P-10) – Requires an advanced degree in mechanical engineering and a minimum of fifteen (15) years experience in RF, cryogenic systems and vacuum technology for particle accelerators. Work experience in a synchrotron radiation facility will be given preference. The successful candidate will have strong analytical and problem-solving skills, considerable knowledge of machine design and manufacturing processes as well as a record of completing engineering projects on schedule and within budget. Strong communication skills and the ability to work closely with a diverse group of scientists and engineers are essential. Considerable experience in the use of CAD, drawing standards and engineering codes is required. The candidate will be responsible for the specification, cost-estimates, schedules, procurement and installation of the NSLS-II cryogenics systems for all auxiliary mechanical systems for superconducting RF cavities. National Synchrotron Light Source-II.

TM4617. RESEARCH ENGINEER (P-9) – Requires a BS and MS in mechanical engineering and a minimum of 10 years' experience with a successful track record in the design, engineering and construction of particle accelerator ultra-high vacuum systems.

Familiarity with the use of CAD, engineering drawing standards, dimensions/tolerance, and experience in performing engineering stress analysis is essential. Selected candidate must have excellent communication skills and the ability to interact effectively with a diverse group of scientists and technical staff. Ability to develop detailed technical design and procedures are required. Reporting to the Vacuum Scientist, responsibilities will be to develop the overall vacuum system design and to provide mechanical engineering support of detailed vacuum chamber design and fabrication while interfacing with accelerator physics and other storage ring sub-systems. National Synchrotron Light Source-II.

TM 4619 PROJECT ENGINEER (P7/P9) – Requires a BS in mechanical engineering (an MS degree is preferred) and a minimum of ten (10) years' experience with a successful track record in the engineering design and construction of ultra-high vacuum chambers. Familiarity with the use of CAD, engineering drawing standards, dimensions/tolerance and experience in performing engineering stress analysis is essential. Excellent communication skills and the ability to develop detailed technical design and procedures are required. Experience with project management tools such as MS Project in developing long term project schedules that reflect tasks, durations, and resource and cost scope is required. Responsibilities will include providing mechanical engineering leadership in support of NSLS-II detailed vacuum chamber design and fabrication as well as to provide the necessary work planning and oversight to meet the project goals and the established safety policies. The selected candidate will take part in and conduct engineering design reviews of the vacuum chambers and the associated components. National Synchrotron Light Source-II.

TB4370. BUYER (A-4) – Requires a bachelor's degree, preferably in business, or equivalent, and familiarity with the Federal Acquisition Regulations, Uniform Commer-

cial Code Walsh Healey, and the Buy American Act. Must be well versed in all aspects of cradle-to-grave procurement including pre- and post-award activities, i.e., preparing solicitations evaluating prospective subcontractors quotes and bids, analyzing prices, negotiating, and awarding purchase orders, change orders, and modifications. Experience in purchasing goods and services in a government-purchasing environment is highly desirable. Under minimum supervision, will be responsible for the economical and efficient procurement of a variety of goods and services in a high volume environment. Procurement & Property Management Division.

RM3807. ADMINISTRATIVE SECRETARY (A-2 – part-time, 60 percent, reposting) – 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 and 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 moales@bnl.gov, referring to Position No. RM 3807.

Participate in (Anonymous) ISSM Survey

BNL has implemented an Integrated Safeguards & Security Management (ISSM) program to integrate safeguards and security principles systematically into all management processes and work practices at all levels, so that the Lab's missions are accomplished securely. The program and its goals have been promoted through a series of communications, including several Monday Memo and Bulletin articles.

Please complete the following survey to help the Safeguards & Security Division determine the effectiveness of these communications and ISSM awareness in general. Please return all surveys through interoffice mail to Mike Delph, Bldg. 50. Those who already took part in the online version of the survey should not participate.

- | | |
|---|--|
| <p>1. Do you wear your badge while on site?
O yes O no</p> <p>2. Do you protect your badge against unauthorized use?
O yes O no</p> <p>3. Do you secure your work area when you leave it during work hours?
O yes O no</p> <p>4. Do you password protect your computer when you leave your office, as required?
O yes O no</p> <p>5. Is your work area secured after hours and on weekends?
O yes O no</p> <p>6. Is the BNL property and equipment you use stored and secured at the end of use or the end of the work day/week?
O yes O no</p> <p>7. Which of the three items below would be considered to be Personally Identifiable Information (PII)?
a. Social Security Number
b. Mother's maiden name
c. Medical records
d. All of the above</p> <p>8. What documentation must BNL employees obtain to authorize taking government property (laptops, etc.) off-site?
a. Signed note from manager
b. Property pass and export control form
c. Registration form
d. All of the above</p> | <p>9. Have you properly registered your privately owned vehicle on site?
O yes O no</p> <p>10. What is the maximum speed limit on BNL property?
a. 30 mph
b. 40 mph
c. 45 mph</p> <p>11. Which is the correct way to wear your identification badge?
a. In your pocket
b. Attached to your pants
c. Above your waist on your outermost article of clothing
d. Any of the above</p> <p>12. Do you know what actions to take in the event you...
a. See a stranger in your area asking personal/private questions? O yes O no
b. Find a suspicious package or briefcase in your area? O yes O no
c. Receive a bomb threat call? O yes O no</p> <p>13. Do you know whom to contact to report suspicious activity? O yes O no</p> <p>Additional Comments:</p> |
|---|--|