

## BNL Named Drug Addiction Study Center

Building on decades of forefront research into addiction, BNL scientists in the Lab's Center for Imaging & Neurosciences announced on October 14 that they will soon open a new medical research center to study the biochemical roots of drug abuse.

Research at the center will focus on drugs such as cocaine, heroin and nicotine, using imaging techniques to "see" how they affect the brain's chemistry and cause addiction. Such work is expected to help in the development of drug-addiction treatments.

Several agencies have joined to fund

the new center, including the White House's Office of National Drug Control Policy (ONDCP), which sponsors a Counterdrug Technology Assessment Center; the National Institute on Drug Abuse (NIDA) of the National Institutes of Health; and the U.S. Department of Energy's (DOE) Office of Health & Environmental Research.

ONDCP head Barry McCaffrey said, "We chose Brookhaven because its team of scientists has an impressive track record. It was the first to demonstrate that cocaine impacts the brain physiologically, not just psychologically."

McCaffrey continued, "We hope that this top-notch team of scientists, newly armed with the best technology available, will be able to unlock mysteries of the brain that in turn will lead the way to the creation of new medications against addictive drugs. This advanced brain research will give the nation new hope for victories in the struggle against drug crime and addiction."

Said NIDA director Alan Leshner, "This state-of-the-art imaging technology gives scientists an exciting vantage point for studying the essential biological bases of addiction. We are now able to understand how drugs of abuse affect the intricate systems of our brains and, in turn, how the affected systems can produce addiction."

"We are proud to accept the challenge of fighting drug abuse through better understanding of the chemical origins of addictive behavior," said Nora Volkow, Medical Department Chair and a lead researcher on the



**Nora Volkow (left) and Joanna Fowler, two of the lead researchers at the center for addiction research to be established at BNL.**

center's scientific team.

"Addiction is a major public health problem affecting many millions of people in the United States and be-

(continued on page 2)

## Ted Daniels Now Heads CCD

Ted Daniels, who had served as Acting Head of the Computing & Communications Division (CCD) since June 1995, was named Head of CCD, effective October 1.

In a September 12 memo announcing Daniels' appointment, then Deputy Director Martin Blume said, "Ted came to Brookhaven from Bell Telephone Laboratories in 1967. He had a series of increasingly responsible positions in the Applied Mathematics Department [AMD] and CCD... and has demonstrated his understanding of the Laboratory's problems and potentialities in this very important area. I am confident he will continue to use his good judgment and expertise to further the ongoing development of computing services at BNL."

With a staff of 75, CCD operates BNL's computing facility and communications networks, including both the telephone system and the data-communications network.

Daniels commented, "CCD strives to provide the very best computing tools and services to Brookhaven scientists, engineers and administrators, so that they are better prepared to carry out the Laboratory's mission. Our support model is continually redesigned to meet users' needs and make them successful. CCD professionals are actively participating in the scientific environment so that they may better understand the problems of scientists and offer solutions."

During Daniels's term as Acting Head, CCD installed BNL's new digital telephone system with over 5,000 connections, replacing a system that had been in place since 1981. Also installed was a major upgrade to the Lab's computer network and a network-management system, which allows CCD experts to pinpoint problems before they occur, route traffic optimally and upgrade the network in an orderly fashion. Another popular new service is an Internet connection between the Lab and the homes of nearly 1,000 of its 3,200 employees, used on a time-shared basis.

CCD also recently designed a "visualization theater" and installed it in Bldg. 515 as a user-facility that provides researchers with unique digital 3-D images of data on a large screen in stereo.

This "virtual reality" view of real objects is used, on a demonstration basis, for such projects as: determining the depth of brain tumors for bo-

ron neutron capture therapy, an experimental technique developed by BNL's Medical Department for treating certain lethal types of brain tumors; viewing proteins and other macromolecular structures available from BNL's Protein Data Bank; and locating small pools of oil trapped in porous rock, which researchers from Mobil and GTE Corporation use to supplement data from high-resolution imaging at the National Synchrotron Light Source.

CCD also runs extensive training programs for BNL's computer users. "We have trained more than 650 people in the past fiscal year by running as many as four training programs per day," Daniels said. "For employees to be successful, they need more than the latest technology: They need expert training."

Daniels holds a B.S. in management from Saint Joseph's College in Patchogue. After joining the Lab as a senior technician in AMD, he rose to become a technical supervisor in CCD in 1976, and, by 1993, he had become Manager of Distributed Computing Services.

— Diane Greenberg



**Ted Daniels**

## County Appoints Task Force On BNL and Public Health

On October 15, Suffolk County Executive Robert Gaffney and County Legislators Mike Caracciolo and Fred Towle introduced the 14-member BNL Task Force, set up by the county to do an objective, scientific evaluation and analysis of allegations of health risks due to groundwater and air contamination in communities surrounding the BNL site.

The county task force includes members of academic institutions, regulatory agencies and activist groups, as well as private citizens.

In nine months' time, the task force is expected to submit to the County Legislature and the County Executive a written report, together with any recommendations for action.

"This kind of study is complicated and time-consuming, and nine months is a tight deadline," says Sue Davis, BNL Associate Director for Reactor, Safety & Security, "but the Lab will cooperate fully in what must be a fair and impartial study."

BNLers may recall that, already, the federal Agency for Toxic Substances and Disease Registry (ATSDR) has begun a public health assessment of BNL (see Brookhaven Bulletin July 19, 1996). ATSDR will review data on contamination at BNL, pathways by which the public can be exposed to contaminants, community-health data and concerns of area residents. The ATSDR assessment is expected to take two to three years to complete and is required under Superfund Law for each one of the more than 1,200 Superfund sites nationwide.

Mona S. Rowe

## BNL Hosts Forum Focusing on Pine Barrens



As BNL ecologist Jan Naidu (center) points at the tree-lined banks of the Peconic River, which flows through Long Island's pristine pine-barrens forest, his fellow organizers of the October 4 Pine Barrens Research Forum at BNL look on: Henry Bokuniewicz (left), Long Island Groundwater Research Institute (LIGRI), and Ray Corwin, Central Pine Barrens Joint Planning & Policy Commission. The three are referring to an ecological map of the river that was presented at the conference, which drew 190 participants from government, academia and environmental groups. Among the topics discussed were: the pine barrens' recovery from the drought and wildfires of 1995, the importance of the pine barrens in protecting Long Island's groundwater, the distribution of rare plant and animal species in the 100,000-acre central pine barrens area, and BNL's emissions to the Peconic. Suffolk County Executive Robert Gaffney and Laboratory Director Nicholas Samios delivered opening remarks, stressing the importance of protecting the pine barrens and its underlying sole-source aquifer for future generations. The conference, the first of its kind, was sponsored by the Pine Barrens Commission, LIGRI and BNL. Its success has prompted plans for future such conferences on the BNL site, which is mostly forested and represents 5 percent of Long Island's central pine barrens.

— Photos in this issue by Roger Stoutenburgh



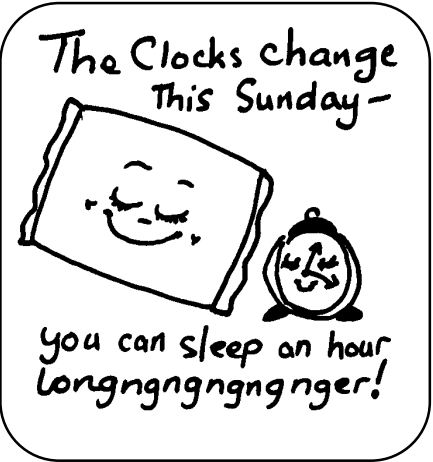
Show Your Crafts!

Craftmasters — get weaving, crocheting, quilting, metalworking, knitting, sewing, macraméing, woodworking — or whatever you do that will result in an exhibit for the upcoming 8th BERA Craft Show.

Sponsored by the BERA Art Society, the show will be held at Berkner Hall, Monday through Wednesday, November 25-27, daily from 11:30 a.m. to 1:30 p.m., with an evening reception from 5 to 7:30 p.m. that Monday.

BNL employees, their family members 15 years and older, retirees and guests of BNL may all contribute. More than one piece may be entered by an exhibitor, to be shown as space permits.

Exhibits for the show will be collected on Friday, November 22. So that a catalog can be compiled, complete two forms for each work to be entered and return them no later than Friday, November 15, to Robert Chrien, Bldg. 510A. Forms are available at the BERA Store at Berkner Hall, or see the September 27 issue of the Bulletin. Copies are acceptable.



Addiction Study (cont'd.)

yond,” Volkow continued. “Our past research has identified specific biochemical changes in the brains of drug addicts, but we have just scratched the surface; so much still needs to be learned.”

BNL’s Addiction Research Feats

In 1987, BNL became the first research institution to use PET and other medical imaging techniques to investigate the brain mechanisms underlying drug addiction.

BNL scientists were pioneer developers of PET technology and the radiotracer drugs that can be tracked by PET scans as they move through the brain. These radiopharmaceuticals include cocaine for addiction studies and a form of glucose now used in hospitals and research institutions worldwide to make images of brain function and diagnose cancer.

Using the cocaine radiotracer, BNL scientists made the first images of cocaine in the brain and the first studies linking cocaine’s effects on brain function to the compulsive use of the

Corrections

In last week’s Brookhaven Bulletin:

- the article “BNL Wins R&D 100 Award for Plasma Window” stated that Ady Hershovitch was the only scientist at BNL to win two R&D 100 Awards. But before they were known as R&D 100 awards, they were called I-R 100 awards and Dmitri Stephani, Instrumentation Division, had won them in two consecutive years, 1985 and 1986, for preamplifiers he had developed for high-energy physics detectors.
- the article “NASA-Sponsored Radiation Biologists Return for Second AGS Run” said that the AGS has been a high-energy heavy-ion accelerator since 1992. That was the year the AGS began accelerating gold ions for the first time, but the first heavy-ions — oxygen — were accelerated in the AGS in 1986.

Sorry, Gotham! We’ve Got Batman!



**Holy Halloween, Batman! Remember this scene from last year’s “haunting” of BNL? That was the ninth year of the tableau tradition that was begun in 1987 by Ann Fort, Jeanne Madaia and Kathleen Nasta, and has expanded to include more and more of their Department of Advanced Technology (DAT) colleagues. Last year, Batman paused in his perennial pursuit of pranksters and petty thieves to pose for this photo with friends and foes: Surrounding Batman (Mary Anne Corwin) and the Batmobile are: (from left) Robin (Nasta), Catwoman (Patricia Van Gorp), the Joker (Fort), King Tut (Sonja Santos), the Penguin (Donna Storan), the Riddler (Madaia) and Batgirl (Pamela Ciufu). Even though Fort has retired, she’s still planning to come to BNL next Thursday, Halloween, to join the others in DAT who will again be taking vacation time to spread fear and cheer around the Lab as . . . ? Holy surprise, Batman! You’ll just have to wait to find out!**

IBEW Meeting Next Monday

Local 2230, IBEW, will hold its regular monthly meeting on Monday, October 28, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. The agenda includes regular business, committee reports and the president’s report. There will be a meeting for shift workers at 3 p.m. at the union office.

drug. These efforts led to the first documentation of stroke-like changes in the brains of cocaine abusers, and the beginning of studies to map the biochemical and anatomical changes responsible for drug-addiction.

One recent study at Brookhaven compared the behavior of cocaine and the psychostimulant drug methylphenidate, more commonly known as Ritalin, in the brain, in an effort to evaluate different approaches for treating addiction.

Another study showed that smokers have a marked decrease in a brain enzyme that breaks down brain chemicals involved in pleasure and reward. “Since this enzyme is not affected by nicotine, we need to look beyond nicotine in trying to understand smoking addiction,” said another lead BNL researcher, Joanna Fowler, Chemistry Department.

A Range of Research Planned

Volkow and Fowler have outlined an ambitious research plan for the center:

- **Cocaine and related drugs** — Researchers will study cocaine addicts’ altered brain chemistry, the drug’s

toxic and addictive properties, and other drugs with similar effects on the brain, including methylphenidate and experimental addiction treatments.

- **Heroin and opiates** — Opiates are highly addictive among illegal drug users, but are also used legally to manage patients’ pain. A better understanding of how the drugs work on the brain may help optimize their beneficial use, while providing information on how to combat addiction.
- **Tobacco, alcohol and marijuana** — Studies are also planned on these substances, to improve understanding of addictions and other health effects. A PET tracer for nicotine has been made at BNL, while one for marijuana is being developed.

Volkow also expects the center’s studies to have an impact on other areas related to drug addiction. “Since certain drugs affect the immune system,” she explained, “they make addicts more vulnerable to increased risk of infection from disease agents such as the AIDS virus. Anything we can do to fight addiction will also fight the spread of disease.”

The addiction studies center will build on BNL’s existing Center for Imaging & Neurosciences, which includes both high-field magnetic resonance imaging (MRI) and single-photon emission computed tomography (SPECT) scanning facilities.

Collaborations with other institutions will play a large part in the new addiction-studies center. Scientists at Columbia University, North Shore University Hospital, the State University of New York at Stony Brook, the Veterans Administration Medical Centers at Northport and Manhattan, New York University, the Research Triangle Institute of North Carolina and Emory University are all new or existing collaborators.

The studies, which must be approved by several institutional review boards, will involve healthy volunteer subjects and drug-addicted patients

BWIS Wine & Cheese

All are invited to the Brookhaven Women in Science (BWIS) Wine & Cheese Party, on Friday, November 1, from 5:15 to 7 p.m. in the Recreation Building.

BWIS holds this free, informal get-together annually to acquaint prospective BWIS members — women and men — with the group and its accomplishments, which have benefited the entire Lab community.

**This Weekend:**

**Star Trek Talk & Physics Fun**

The BNL community is invited to two free events happening tomorrow, Saturday, October 26, at Berkner Hall: a talk on “The Physics of Star Trek” and a physics demo show. The talk, at 10 a.m., will be given by Lawrence Krauss, author of a book of the same name. The show, at 8 p.m., will feature demonstrators Dick and Rae.

Both events are part of the 7th Annual Northeast Regional Physics Conference for high school and college physics teachers. For more information, call Bill Lynch, 585-2563, or e-mail [lynch@bnl.gov](mailto:lynch@bnl.gov).

**Pianist in Concert**

Pianist Jacques Després will lead off the 1996-97 BERA Concert Series on Sunday, October 27, with a 4 p.m. concert in Berkner Hall. Tickets are \$14 for adults, \$9 for seniors and \$5 for students and youths under 18. Purchase tickets at the door or in advance from M. Kay Dellimore, Bldg. 185, Ext. 2873.

from the Northport, Manhattan and Bronx Veterans’ Administration hospitals, and the areas around the North Shore and Columbia hospitals.

— Kara Villamil

Scholarship Alert

Application forms are now available for a new scholarship being offered this year for the first time to children of BNL employees: the Gorman-Metz Scholarship.

The Gorman-Metz Scholarship is a one-time, \$5,000 award for a student who has a

disability, as defined by the Americans With Disabilities Act, and who is matriculating at an accredited institution to pursue a graduate or professional degree, with preference given to studies in science, engineering and math. If approved by the Gorman-Metz Scholarship Committee, other courses of study may be deemed eligible. Likewise, undergraduates may apply and will be considered if there are no graduate applicants.

Qualified applicants are: children of BNL employees who begin regular, full-time or regular, eligible part-time employment no later than this November 1, and who are employed by BNL when the award is announced; or children of retired employees or employees who died while in regular service at the Lab. Stepchildren are eligible if the employee regularly claims the child as a dependent for income-tax purposes, or if the stepchild has resided in the employee’s household for the two-year period immediately prior to application.

The application deadline is March 1, 1997, and results of this competition will be announced next May.

For applications or more information, contact the Diversity Office, Bldg. 185A, Ext. 3318.

# Tennis Tourney Triumphs

The Lab's 1996 tennis tournament season concluded with a party on September 25, when awards were presented to the tournament winners shown here: (from left) Ken Perkins and Joe Carbonaro, who took the men's doubles title; the husband-and-wife team of Frank and Rita Kito, the mixed doubles champs; and Om Singh, who is men's singles champion.



## MRI Volunteers Needed

Volunteers who are over 18 years of age are required for baseline studies of Magnetic Resonance Imaging (MRI). There is no payment for participation. For more information, call Noelwah Netusil, Ext. 8032, after 9:30 a.m.

# Employees Can Benefit From Discounts Offered by Local Merchants

For years, the Brookhaven Employees Recreation Association (BERA) has been offering discounted merchandise to BNL employees. For instance, at the BERA store, low-cost film processing, United Artists Theater discounted movie tickets, discount passes for many amusement parks and more are available.

And, for years, many local merchants have given discounts to BNL employees who purchase their goods or services.

However, not all Laboratory employees have been aware of these discounts — so, many BNLees could not make their hard-earned dollars stretch farther when making certain purchases.

- **Discounted tickets\***  
Broadway show twofers  
Metropolitan Opera, NYC\*  
United Artists Theaters
- **Discounted admission\***  
Action Park, NJ  
Busch Gardens, FL, VA & elsewhere  
Catamount Ski Resort, Hillsdale, NY  
Disney, CA, FL & local stores  
Great Adventure, NJ  
Great Gorge, NJ  
Hershey Park, PA  
Universal Studios, CA  
Sea World, FL  
Sesame Place, PA
- **Discounted participation\***  
defensive driving course, on site\*  
smoking-cessation workshop, on site\*  
Weight Watchers, on site\*

- **Discounted services**  
film developing\*  
Fleet Bank, Shirley  
health & fitness clubs, local\*  
Liberty Mutual Ins., Middle Island  
National Car Rental, nationwide  
Premier Car Rental, Long Island  
Radisson Hotel Islandia  
SPRINT Spree calling cards\*
- **Discounted merchandise**  
balloons & greeting cards\*  
BNL souvenirs\*  
BNL athletic wear\*  
books\*  
Borders Books & Music, Lake Grove  
Estee Lauder, Hauppauge  
McDonald's, Ridge  
Money magazine\*  
Mr. McGoo's, Rocky Point  
NYNEX Bell Atlantic cellular phones\*

Therefore, to keep Brookhaven employees up to date on all the discounts available to them as another benefit of working at BNL, Recreation Supervisor M. Kay Dellimore has compiled the following list of goods and services available to all.

"In many cases, to obtain a discount [from the merchants listed below], all you have to do is show your BNL ID card," explains Dellimore. In other cases, you need the merchant's discount card or other information, which can be obtained weekdays, 9 a.m. to 1:30 p.m., from Andrea Dehler at the BERA Sales Office, Berkner Hall, Ext. 3347. Or call Dellimore, Ext. 2873.

- Peconic Scuba, Riverhead  
Pudgies', Long Island  
Showboat Florist, Shirley  
Tanger Outlet Center, Riverhead
- **Memberships available**  
B.J.'s Wholesale Club  
Price Costco  
Sam's Club
- **Discounted group trips\***  
Atlantic City, New Jersey  
Disney World, Florida  
Great Adventure, New Jersey  
LIRR, Patchogue to NYC, Wednesdays\*  
LIRR, Patchogue to NYC, 3rd Sat./Mon.\*  
Roseland Ballroom, NYC  
Splash Splash, Riverhead  
U.S. Open Tennis, NYC
- **Perks Discount Card\***  
All Pro Auto Parts, Shirley & Mattituck  
American Floral, Ridge  
Avis, worldwide  
Busy Body's Workouts, Shirley  
Carpet Express, Mastic  
Center Moriches Veterinary Hospital  
Cop\*A\*Tan, Wading River

- Enrico's Jewelry Exchange, Shirley  
Future Graphics, Shirley  
Garsten Motors, Riverhead  
Kaufold's Sheds & Gazebos, Ridge  
Meineke, Riverhead  
Middle Island Pizza  
Ramada Inn, Riverhead  
SAS Bikes, Shirley  
Sir Richard's Limousine  
State Farm Insurance, Middle Island  
Structural Technology, Shirley  
Tower Dry Cleaners & Tailors, Shirley  
The Weight Room, Moriches  
Tung Hoi Kitchen, Mastic  
W.E.S. Trailer Sales, Wading River

\* Available through the BERA Sales Office, Berkner Hall, Ext. 3347.  
@ Offered periodically, watch Bulletin for announcements.  
# Sponsored by the Safety & Environmental Protection Division, Ext. 7132.  
+ Sponsored by the Health Promotion Program, Ext. 5923.  
£ For dates & reservations, call Diane Weid, 475-2394.  
\$ For dates & reservations, call Patchogue-Medford Library, 654-4700, Ext. 20.  
© Must be presented in addition to BNL ID cards.

## Service Awards

The following employees celebrated their service anniversaries during October:

- 35 Years**  
David R. Brady.....Physics  
John P. Scharpeger.....Admin. Support
- 30 Years**  
Russell S. Dunn.....Safety & Envir. Prot.  
Thomas P. Lanigan.....Reactor
- 25 Years**  
Yong Y. Lee.....AGS  
Joseph P. Roberge.....Physics  
George J. Virtes.....Physics
- 20 Years**  
Benjamin Burr.....Biology  
Michael D. Rowe.....App. Science  
Richard J. Scheidet.....Plant Eng.  
Neva C. Setlow.....Biology  
Gerard Shepherd.....Safeguards & Sec.  
Manomohan Subudhi.....Adv. Technology  
Ronald P. Webster.....App. Science
- 10 Years**  
Susan C. Anderson.....Reactor  
Sara L. Dawson.....Physics  
John S. Haggerty.....Physics  
Leonard Masi.....Reactor  
John M. Tranquada.....Physics  
Chan-Chuan J. Weng.....Fin. Services

## Water Aerobics

Water aerobics classes will again be offered at the Lab pool, from 5:20 to 6:10 p.m., on Tuesdays and Thursdays. The first classes will be on November 5 and 7, respectively.

Sponsored by the Health Promotion Program of the Occupational Medicine Division, the classes are free, but participants must pay the pool fee of \$2 a session or show their season pool pass. Employees and their spouses may sign up for one or both classes by calling Mary Wood, Ext. 5923.

## Arrivals & Departures

- Arrivals**  
Andrew J. Marr.....Chemistry
- Departures**  
This list includes all employees who have terminated from the Lab, including retirees:  
Wolfgang A. Caliebe.....NSLS  
Edmund B. Laviano.....Physics  
Yuksel Parlatan.....Advanced Tech.  
Huan Zhou.....Advanced Tech.

## Celebrate Diwali — Festival of Light

Diwali, the festival of light, will be celebrated by the BERA Indo-American Association (IAA) on Saturday, November 9, from 3 p.m. to 9 p.m. in Berkner Hall. The function will include dancing, and instrumental and vocal music by local performers, followed by an authentic Indian dinner.

Advance tickets for this event cost \$8 for adults and \$4 for children, and may be purchased before November 7 from: Anand Saxena, Ext. 4844 or 689-9771; Piyush Joshi, Ext. 3847 or 281-1077; or Animesh Jain, Ext. 7329 or 474-0056. There is a 20 percent discount for IAA members. If available, tickets purchased at the door will cost an additional \$1 per person.

## Bowling

Week of October 14

### Purple and White League

R. Raynis 235/198/194/627 scratch series, Doug Fisher 243/186, N. Besemer 233/188, S. Logan 205/185, J. Zebuda 196/195, P. Wynkoop 224, A. Warkentien 205, S. DiMaiuta 205, M. Guacci 203, P. Baker 200, G. Mehl 193, M. DiMaiuta 192, E. Sperry III 186, Diana Fisher 180, Donna King 176, J. Addressi 5/7 split, P. Fewell 5/10 split.

### Red and Green League

R. Wiseman 240/231/214/685 scratch-series, E. Sperry IV 236/223/218/677 scratch, R. Raynis 264/203/663 scratch, R. Mulderig Jr. 223/211/612 scratch, J. Goode 225/221/617 scratch, E. Larsen 203/203, E. Meier 288/622 scratch, N. Besemer 230, A. Pinelli 223, J. Griffin 218, B. Guiliano 213, H. Arnesen 214/605 scratch, D. Fisher 202, K. Asselta 201, G. Mack 200.

### Wanted: Two Good Men

The Men's League, which bowls at 6:30 p.m. every Tuesday at Port Jeff Bowl, is in desperate need of two bowlers. So, any male bowlers who want to join the fun and competition may call Debbie Botts, Ext. 3888.

## Volleyball

Standings as of October 17

Open League		League I	
Death Volley	3-0	Bikers 'n Spikers	3-0
Shank, Carry & Throw	3-0	Rude Dogs	3-0
Pass, Set & Crush	2-1	Net(e)scapers	2-4
Far Side	1-5	Scared Hitless	1-2
Spikers	0-3	Set to Kill	0-3
League II		League III	
Fossils	3-0	Group Sets	3-0
Spiked Jello	3-0	Just 4 Fun	3-0
Lift, Carry, Throw	2-1	Silver Bullets	3-0
Monday Nite Live!	2-1	Upton Ups	3-0
Jao-About-That	1-2	Court Hogs	0-3
Night Court	1-2	New Comers	0-3
Jolly Vollies	0-3	OER	0-3
Nuts & Bolts	0-3	Over-in-Three	0-3

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1997 BNL Holidays		
Holiday	Holiday Observed:	
New Year's Day	Day	Date
Floating Holiday	Wednesday	January 1
(Martin Luther King Jr. Day)	Monday	January 20
Presidents' Day	Monday	February 17
Memorial Day	Monday	May 26
Independence Day	Friday	July 4
Labor Day	Monday	September 1
Veterans Day	Tuesday	November 11
Thanksgiving Day	Thursday	November 27
Day After Thanksgiving	Friday	November 28
Christmas Eve	Wednesday	December 24 (1/2 day)
Christmas Day	Thursday	December 25
Floating Holiday	Friday	December 26

Classified  
Advertisements

Placement Notices

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

Each week, the Human Resources Division lists new placement notices, first, to give employees an opportunity to request consideration for themselves through Human Resources, and second, for general recruiting under 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, or call the JOBLINE, Ext. 7744 (344-7744), for a complete listing of all openings.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "http://www.bnl.gov/bnl.html", then, under "Information," select "Jobs." For scientific staff openings, select "Scientific Personnel Openings"; for all other vacancies, select "General Personnel Openings."

**SCIENTIFIC RECRUITMENT** - Doctorate usually required. Candidates may apply directly to the department representative named.

**SCIENTIST** - Physician with an interest and board certification in radiation oncology. Research interest in radiobiology and experimental radiotherapy is desirable. Will join the BNCT program, which includes preclinical basic research and clinical trials. Various boron transport agents, including boronated porphyrins, continue to be evaluated. Contact: Darrel Joel or Arjun Chanana, Medical Department.

**POSTDOCTORAL RESEARCH ASSOCIATES / JUNIOR STAFF** - The High Energy Theory Group expects to have positions available at the Postdoctoral Research Associate or Junior Staff levels, with initial appointments beginning October 1, 1997. The group has active programs in electroweak physics, collider and QCD phenomenology, lattice gauge theories, and finite temperature field theory. Contact: William Marciano, Physics Department.

**POSTDOCTORAL RESEARCH ASSOCIATE** -Trained in physics, biophysics, physical chemistry or related discipline. Experience with molecular biophysics and/or synchrotron radiation is required. Research includes x-ray circular dichroism of biological materials using the National Synchrotron Light Source, and involves both beam-line development and biological experimentation. Contact: John Sutherland, Biology Department.

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

**DD 4019. ELECTRICIANS** - (term appointments) Will lay out, construct, install, maintain, repair and operate in accordance with the National Electrical Codes, or as otherwise directed, electrical systems, equipment, controls and related devices. May be required to perform similar duties on other than maintenance division equipment and facilities. Plant Engineering Division.

**DD 4021. STATIONARY ENGINEER, SR.** - (temporary appointment) Under minimum supervision operates, maintains and repairs any heat-generation equipment, facilities, and auxiliary and related equipment. May be required to assign, direct or check the work of other personnel in connection with assigned responsibilities. Plant Engineering Division.

**DD 5021. TECHNICAL POSITION** - (term appointment) Requires an AAS with a concentration in the sciences (math, biology, chemistry) or equivalent work experience. Duties will include preparation of samples for radiological and non-radiological analyses, which involves tasks such as weighing, drying and aliquotting matrices, such as soil and vegetation. Will also log in samples as necessary and maintain computer documentation of sample log-in. May also assist in transfer documentation between BNL and contractor labs. Safety & Environmental Protection Division.

**NS 3570. ACCOUNTING POSITION** - Requires a bachelor's degree in accounting, finance or business administration, several years of professional accounting experience and knowledge of Generally Accepted Accounting Principles. Knowledge of spreadsheet programs (Lotus/Excel) and proven analytical skills are essential. Will analyze complex accounting transactions, schedules and statements; assist in special studies and projects; prepare financial reports; maintain and control routine records; and be responsible for BNL reconciliations. Financial Services Division.