

At the NSLS: AIDS Virus Seen In Action



Based on data obtained at BNL's National Synchrotron Light Source (NSLS), this computer-generated image shows the AIDS virus as it makes contact with a human cell. The mass at the top of the image depicts the gp120 protein portion of the virus, and the ribbon-like structure at the bottom depicts the cell receptor known as CD4. The research is reported in the June 18 issue of *Nature* and the June 19 issue of *Science*. (See story on page 2.)

Marburger: Possible FY 1999 Force Reduction; Sees Lab's Financial Picture Improve in FY 2000

BNL Director John Marburger told employees during two meetings in Berkner Hall last Friday that job reductions and financial constraints are expected during fiscal year (FY) 1999.

However, Marburger added that he expects significant improvement in the Lab's financial picture in FY 2000 and beyond, as the Relativistic Heavy Ion Collider (RHIC) begins operating and contributing to BNL's operating funds.

In addition, the Lab Director outlined Lab and program initiatives that are being invested in now with expected pay-off, in terms of more jobs and lower overhead, in future fiscal years.

Four of the Lab's leading initiatives are to establish: a deep ultraviolet free electron laser research facility, a center for data-intensive computing, an environmental-carbon observatory and the Lab's own human proteome project. Some of the program starts that were discussed included: the third-phase upgrade of the National Synchrotron Light Source, a Booster-applications facility, and a physics-simulation center for RHIC.

Marburger attributed the FY 1999 financial difficulties to the increased costs associated with environment, safety, health and community involvement obligations in BSA's contract with the U.S. Department of Energy and an anticipated FY99 budget shortfall.

The size of the reduction in BNL's labor force has not been determined at this time, according to Marburger, but he said that it will be less than the 300 to 600 people that have been rumored around site.

In addition to a force reduction, another FY99 reality is an increase in the overhead rate, which is the percentage of grant money needed to cover administrative costs: It will increase from 35 to 37 percent, which is the highest overhead rate in the history of the Lab.



Roger Stoutenburgh

Laboratory Director John Marburger

"It won't go any higher, and I hope it will go down," commented BNL's Director, who also stated that cost-savings were likely to be generated by combining the (continued on page 2)

Scott Mallette Joins DOE Brookhaven Group As Senior Environmental Advisor

On Thursday, June 18, Dean Helms, Executive Manager of the U.S. Department of Energy's (DOE) Brookhaven Group, announced the appointment of Scott Mallette as the Senior Environmental Advisor of the DOE's on-site Brookhaven Group.

In his new position, Mallette will provide advice and assistance to the Brookhaven Group Manager on environmental restoration, waste management and environmental compliance programs.

His responsibilities include assessing the contractor's environmental priorities to ensure consistency with regulatory and public health concerns, as well as interacting with regulators and members of the community.

"I am delighted to have a person of Scott Mallette's experience and capability in environmental management join the Brookhaven Group team," said Helms. "He will help us meet our com-

Scott Mallette (right), who joins the U.S. Department of Energy Brookhaven Group as Senior Environmental Advisor, is visiting BNL's Waste Management Facility with Michael Schlender, Assistant Laboratory Director for Environmental Management.



Roger Stoutenburgh

mitment to the community in addressing the environmental challenges at Brookhaven."

Said Mallette, "BNL has many new

environmental challenges ahead. Based upon the dedicated professional staff that I have met here at the Lab, I have no doubt that we will succeed in

meeting the high expectations placed upon us."

Mallette, who comes to the job with 16 years of environmental management experience, has served since 1990 as the Environmental Project Manager for the Parsons Corporation of Pasadena, California, at two DOE facilities: the Savannah River Site in Aiken, South Carolina, and the Fernald Environmental Management Project in Fernald, Ohio.

Previously, while working for the U.S. Department of Defense's Wright Patterson Air Force Base, he had been the environmental manager and point of contact for both state and regulatory agencies and the media.

After receiving B.Sc. degrees in environmental engineering and environmental science from Purdue University in 1981. Mallette earned a M.Sc. in engineering management at the University of Dayton in 1986.

BNL Brain Cancer Trials to Advance With \$1.4 M Medical Reactor Upgrade

A promising brain tumor therapy now in clinical trials at BNL will have added cancer-treatment potential, thanks to a \$1.4 million award to improve the facility used to deliver the therapy.

The upgrade is being funded by the U.S. Department of Energy's (DOE) Office of Energy Research.

Once the improvements are made at the Brookhaven Medical Research Reactor (BMRR), physicians in the Medical Department will be able to deliver seven times more intense radiation directly to patients' tumors than can currently be delivered, while sparing the healthy brain tissue surrounding the tumors.

The design, construction and installation of the innovative neutron-

shutter system that will make this possible is being carried out by the Reactor Division. It is expected to be completed in 18 months to two years.

"Many cancer patients want to see the Laboratory deliver on the promise of this treatment. This funding will enable continued progress in exploring this important therapy. I'm glad the Department of Energy was able to provide these funds, and I congratulate the Brookhaven scientists on their achievements so far," said Secretary of Energy Federico Peña.

"Even with the small number of patients treated to date, we see indications that this treatment, boron neutron capture therapy [BNCT], can give brain tumor patients a comparable or somewhat longer life expectancy and

a better quality of life than they would have had with conventional treatments," said Arjun Chanana, Medical, who leads the BNCT team.

"Now," he continued, "we look forward to exploring the potential benefits of this therapy for deeper and larger brain tumors, and for tumors in other organs."

BNCT Against Cancer

BNCT is a two-part therapy that enhances the effect of radiation on cancer cells, while minimizing the effect on nearby healthy cells.

Inadvertant damage to non-cancerous tissue is a major side effect of conventional radiation therapies, especially in treating brain tumors. Conventional radiation therapy also re-

quires several bouts of treatment, an inconvenience for many patients.

BNCT uses radiation from BNL's medical reactor and a BNL-developed drug containing the element boron.

Called BPA for boronophenylalanine, the drug is injected into the patient and travels through the bloodstream, concentrating preferentially in tumor tissue. By itself BPA is harmless, but, when exposed to a beam of neutrons from the reactor, the boron atoms "capture" neutrons, creating effects that kill cells in the immediate vicinity.

Clinical trials of BNCT have been under way at BNL since 1994. Other locations in the U.S. are conducting related research.

Preliminary research results from (continued on page 2)

Medical Reactor (cont'd)

the first ten patients in the BNL study have already been published in peer-reviewed medical journals.

So far, BNL has treated 38 patients diagnosed with a lethal form of brain cancer known as glioblastoma multiforme, which strikes more than 7,000 people in the U.S. each year. The disease is usually treated with conventional radiation alone or in combination with chemotherapy, approaches that require multiple treatments and result in many side effects, including hair loss and nausea.

The BNCT clinical trials are carried out with the State University of New York at Stony Brook's Health Sciences Center and with the Beth Israel Medical Center in New York.

A Reactor Made for Medicine

The BMRR was built in 1959 for the first BNCT clinical trials, which were not successful. But the facility, specifically designed for medical use, was used for several decades for non-clinical research on the therapy, as well as other scientific work. It is similar in size and power to research reactors found at universities around the world.



The Brookhaven Medical Research Reactor.

When clinical trials of BNCT were ready to began again, the reactor was improved using new technology to produce a better beam of neutron radiation that could penetrate to the tumor without giving a significant radiation dose to healthy tissue.

BNCT requires neutrons of a certain low range of energies which can

reach tumors after passing through the skull. The new improvements will go even further toward increasing the amount of neutrons with desirable energies, increasing neutron density sevenfold, and producing fewer unwanted beam contaminants, such as neutrons that are too energetic.

— Kara Villamil

All Are Invited To Bid Farewell To Dean Helms

By mid-July, Dean Helms, who has been the Executive Manager of the U.S. Department of Energy's Brookhaven Group since last August 1 after three months of serving as Deputy Executive Manager, will have returned to his full-time duties as the Site Office Manager at the Thomas Jefferson National Accelerator Facility in Newport News, Virginia.

"BNL owes Dean Helms an enormous debt of gratitude," says Laboratory Director John Marburger. "He came here in a time of immense stress and has worked tirelessly to help the Lab get back on its feet. If we have made any progress today in improving our relations with the community, DOE and our other regulators, and government officials, then it is because of Dean's skillful and diplomatic approach to problems."

All those who know and have worked with Helms are invited to bid him farewell at a reception on Tuesday, June 30, beginning at 4:30 p.m. in the North Ballroom of the Brookhaven Center.

ioning new gp120 crystals to provide ammunition for a targeted, multi-pronged attack against the virus.

Another coauthor, Joseph Sodroski, professor of pathology at the Dana Farber Institute, concluded, "This first structure will provide a foundation for people to look at this protein as the basis of a vaccine and to modify it to optimize it. It will stimulate a lot of new work."

— Diane Greenberg

Dosimetry badges will be changed on Thursday, July 2. Please place your badge in its assigned rack space before leaving work that day.

AIDS Virus (cont'd.)

Working at the National Synchrotron Light Source (NSLS), researchers from Columbia University and the Dana-Farber Cancer Institute in Boston have been able to create computer-generated pictures of the outermost portion of H.I.V.— the virus that causes AIDS — as it attaches itself to the receptor from a human cell.

Among the information shown within the image is a human antibody that can block H.I.V. entry into a cell.

The researchers used x-ray crystallography to take their unprecedented three-dimensional look at the process of AIDS infection on the atomic scale.

Said Craig Ogata, Howard Hughes Medical Institute, who heads NSLS

beam line X4A where the research was done, "Crystals of that structure are small and changeable and don't diffract well, so ordinary x-rays would not be sufficient to get this picture. The NSLS provides a much stronger x-ray source."

The AIDS virus is coated with what are called glycoproteins, which are a group of proteins heavily modified with carbohydrate units. Known as gp120, these AIDS-virus glycoproteins attach themselves to human immune cells when an individual is infected with AIDS.

The picture of gp120 as it attaches itself to a receptor known as CD4 at the surface of a human cell has brought researchers closer to a cure and/or a vaccine for the widespread disease by providing insight on the mechanism

of infection and how to combat it.

As Wayne Hendrickson, a professor of biochemistry and molecular biophysics at Columbia University and a Howard Hughes Medical Institute investigator, explained, "The crystal structure tells us how the virus is able to bind to the receptor at the same time that it remains sufficiently changeable to avoid immune detection. There is the potential for the information to be used to design compounds that interfere and block that interaction."

Hendrickson coauthored the study with Peter Kwong, associate research scientist at Columbia, who commented, "Knowing the structure down to the atomic details will provide valuable clues for vaccine design."

The researchers are currently fash-

Marburger on Lab (cont'd.)

central and departmental overheads.

Marburger, however, sees job reductions and higher overhead as part of a one-time, short-term approach to controlling the budget; in the long-term, he is determined "to grow the business," that is, increase the number and magnitude of funded projects at the Lab. As a result, he projects that the staff will grow and, by controlling the costs associated with administrative, support and contractual function, overhead can be lowered in the future.

"My approach is not to cut back, but to grow this Lab for the future — that is the right solution in the long run," Marburger added. "We can do this, but there will be a delay before increased business and decreased costs kick in."

The Director went on to dispel other rumors circulating around site, including those of an impending salary freeze and benefits cuts.

First, there is no plan to freeze salaries. "I don't favor a salary freeze," said Marburger, who explained that, if necessary, he will defer increases instead of eliminating them entirely for a year.

Second, regarding benefits, the only plan is to look into why the cost of the medical plan provided to Lab employees is more expensive than plans offered by comparable employers on Long Island. Other than that, no change in benefits is anticipated, said Marburger.

Additional FY98 Funding

To close this fiscal year's budget

gap, Marburger said, DOE has provided \$5.5 million in additional funds to reduce the impact to the Lab of unexpected cleanup and other environmental costs during the year, particularly at the Brookhaven Graphite Reactor.

The additional dollars were sent from Washington to help pay for the cleanup of the tritium plume and legacy waste uncovered this fiscal year.

The Director thanked Martha Krebs, who is Director of DOE's Office of Energy Research, who had helped obtain the emergency funds, for understanding "that certain things shouldn't have to be paid with overhead dollars."

In reply to a question about former Energy Secretary Federico Peña's promise in May 1997 that no reduction in force would result from the change in contractors, the Lab Director said, "Secretary Peña couldn't speak for the indefinite future. DOE is working to help us out during FY98 and made Secretary Peña honest for that year. FY99 is the year after, and it isn't easy to see what the future will bring."

Marburger acknowledged that the Lab is also receiving "increased cooperation from elected officials," particularly from U.S. Senator Alfonse D'Amato (Republican-New York) and Congressman Michael Forbes (Republican-First District).

Specifically, the two have been working on "reprogramming" \$2.5 million in appropriated FY98 funds to help pay for environmental cleanup. Senator D'Amato also arranged for

an extra \$5.7 million in the Senate version of the FY99 budget.

Setlow, Grahn to Retire

At the meetings, Marburger relayed that, in addition to Hank Grahn, another member of the Directorate will be retiring this summer: Richard Setlow, who has been BNL's Associate Director for Life Science since 1986, will be stepping down this July. Grahn's retirement as Assistant Director for Finance & Administration has been common knowledge around the site.

While a national search is on for Setlow's replacement, no interim director will be named. However, Special Assistant to the Director Peter Bond will take over administration of the human-subject studies and laboratory animal functions now handled by Setlow.

During the search for a new Assistant Director for Finance & Administration, Greg Ogeka, who is the Manager of the Administrative Support Division, will serve as interim. Marburger anticipates that there will be some reorganization within that directorate, but that it will not be completed until Grahn's replacement has joined the Lab.

Another person to be leaving the Lab is Dean Helms, the Executive Manager of the on-site Brookhaven Group of the U.S. Department of Energy since last August (see box above).

More Involved

The Director cited new community-involvement and communications activities, including: a new homepage for BNL on the World Wide Web, an

envoy program involving employees who already serve within community organizations, and the Lab's first community advisory council.

Marburger also shared his thoughts on the badge debate now ongoing among employees: "The badge policy is, and has been for some time, that everyone should carry their badges with them at all times when on the site and should wear them in restricted and designated areas," said Marburger. "It is that simple."

Another point that he clarified for the audience was whether he, as both the President of BSA and the Director of BNL, has the same conflict of interest in holding both jobs as did Lyle Schwartz, who is AUI president and had briefly served as BNL's Interim Director.

While AUI also operates the National Radio Astronomy Laboratory, Marburger explained, "BSA's only interest is BNL, so I don't feel that there exists the same conflict. [BSA and BNL] are not separate organizations. In fact, the board set up this structure so I can have more contact with it and it can be more responsive" to his requests on behalf of the Lab.

While answering questions asked by the audience, as well as some of those submitted beforehand (see below), the Director invited employees to e-mail him with their suggestions and concerns.

Editor's note: Questions asked by employees before last Friday's meetings with Lab Director John Marburger and answers by him have been posted on the World Wide Web at <http://www.pubaf.bnl.gov/internal.html>.

Computer Training

Some seats are still available in the following classes to be offered by the Computing & Communications Division (CCD) in July:

Date	Class
7/8	EXCEL, beginner
7/9	EXCEL, intermediate
7/10	Windows 95
7/14	EXCEL, beginner
7/15 & 17	ACCESS, beginner
7/16	Word, beginner
7/21	Word, intermediate
7/22 & 24	ACCESS, intermediate
7/23	PowerPoint, beginner
7/27, 28 & 29	Visual Basic programing
7/30	HTML programming
7/31	Word, intermediate

The training fee for Visual Basic is \$590; for HTML, \$210; for ACCESS, \$322; and for all other classes, \$161.

To register, send an ILR for the appropriate amount and a training request form to Pam Mansfield, Bldg. 515. For more information, contact Mansfield at Ext. 7286, or e-mail pam@bnl.gov.

C Programming Class

CCD is scheduling a five-day class in C programming, Monday-Friday, August 31-September 4, to be held in the seminar room, Bldg. 515. Class size will be limited. To register, send an ILR for \$555 and a training request form to Mansfield by July 15.

Saturday Sitar Concert: Time Changed to 5 PM

Tomorrow's sitar concert, announced last week as taking place in Berkner Hall at 3 p.m., has been changed to a 5 p.m. start. The concert of original, nationally known music, to be presented by Rash Behari Datta, is sponsored by the BERA Indo-American Association. Tickets are \$10 at the door.

Weight Watchers

Weight Watchers is again offering the new 1-2-3 Success Weight Loss Plan, which is easy to follow and flexible in food selections. Registration for the next on-site, lunchtime Weight Watchers series will be held on Wednesday, July 1, from noon to 1 p.m. in the south dining room of the Brookhaven Center.

The class will meet for the first session on Wednesday, July 8. The \$89 per-person fee includes ten sessions. For more information, call Health Promotion Specialist Mary Wood, Ext. 5923 or 6251.

Arrivals & Departures

Arrivals

Terence M. Higgins.....	RHIC
Theodore Lelle.....	RHIC
Lawrence Lee.....	RHIC
Michael D. McGuigan.....	CCD
Tara M. McKeon.....	AGS
Sravan K. Morishetty.....	Finan. Services
William J. Von Elm.....	CCD
Desong Zhao.....	Instrumentation

Departures

John W. Baum.....	Adv. Technology
Frances C. Bernstein.....	Biology
Ludwig Feinendegen.....	Medical
Mei-Ling Shek-Stefan.....	NSLS
Peter Stefan.....	NSLS
Jane Throwe.....	Physics

Thanks, BNL Speakers & Tour Volunteers

Thanks to the enthusiasm and commitment of the BNL volunteers who serve as speakers or guides for college and VIP site tours arranged by the Museum Program of Community Involvement & Public Affairs, the Lab becomes better known to the community. Attending the luncheon held to honor these volunteers were:

(front, from left) Anne Marie Luhrs, Yan Shi, Anh Pham, Sue Monteleone, Victor Gonzalez, Linda DiPierro, Museum Program Head Janet Tempel, Program Coordinator Elaine Lowenstein, Dorrie Tooker, Susan Cuevas, Yousef Makdisi, Graham Smith; (second row, from left), Vincent LoDestro, Liz Mogavero, Jackie Mooney, P.K. Feng, Gail Schuman, Bonnie Sherwood, Ruth Fernow, Andy Feldman, Marge Lynch, Peter Paul, Pete Genzer; (back, from left) Conrad Foerster, Bill Christie, Joe Skelly, Dave Comstock, Ralph Brown, Tom Dickinson, Victor Gutierrez, Thomas Sheridan, Stuart Kern, Dave Schlyer, Frank Dusek, Peter Bond, Bob Howe and Gerhard Redelberger.



Roger Stoutenburgh

Where's Waldo? Find Waldo in Picture, Win Free BNL T-Shirt!

Last week, the official T-shirts picturing the historic BNL 50th-anniversary human formation went on sale at the BERA Sales Office.

This week, you may enter a contest to win one such T-shirt — by finding where's Waldo!



Waldo, for those of you who are not in the know, is a children's book character, an intrepid traveler to be found in crowded,

well-drawn scenes throughout history, mythology and the world.

Created by artist Martin Handford, Waldo wanders through books, comic strips, cartoons, etc., and some 30 million Waldo books translated into 20 different languages have been sold worldwide.

Unbeknownst at the time by the photograph's organizers, Waldo — or, rather, a facsimile thereof — wandered onto the field next to BNL Police Headquarters on December 15, 1997, and got his picture taken with all the BNLers who made history right then and there.

So now, it is up to you to find where's Waldo!

To enter this contest, identify Waldo's location by circling his location on the above picture (or the one in last week's Bulletin or on the cover of the Bulletin of December 19, 1997) or by describing his location in a note (for instance, if you think he's at the far right end of the horizontal leg of the L, then note that). Send that along with your name, Lab address and extension to: the Brookhaven Bulletin, Bldg. 134, by Friday, July 17.

The person who submits the first correct answer that is selected at random from among the correct answers received by the due date will win an official BNL-50 T-shirt! If the winner was also in the BNL-50 photo — and can find him or herself in the picture — then two T-shirts will be awarded!

In the meantime, bring \$10 to the BERA Sales Office, Tuesday through Friday, 9 a.m. to 1:30 p.m., to buy your 100-percent cotton, limited-edition, one-size-fits-most, extra-large BNL-50 T-shirt — so you can wear Waldo!

Farmers' Market

Great news! Home-baked-goods will join the veggie, fruit, jam, jewel, plant, flower and more choices at the BNL Farmers' Market, held on Wednesdays, 11:30 a.m.-1:30 p.m., in the parking lot off Brookhaven Avenue behind Bldg. 438.

Free Shuttle Service For Students, Visitors

Beginning Saturday, July 4, the Lab will provide complimentary shuttle service between 12:30 and 4:30 p.m. on the following Saturdays to local attractions for students and visitors living on site:

July 4	Smith Point beach
July 11	Smith Haven Mall
July 18	William Floyd Estate, Manor of St. George
July 25	Tanger Mall, Aquarium, Splish Splash*
Aug. 1	Port Jefferson Village
Aug. 8	Tanger Mall, Aquarium, Splish Splash
Aug. 15	Smith Haven Mall
Aug. 22	Port Jefferson Village

This schedule is subject to change due to the weather. Passengers will be picked up and dropped off in the Bell Avenue parking lot of Fleming House, Bldg. 180. To reserve space on the shuttle, call Juanita Beatty, Ext. 2535.

* discount tickets for Splish Splash trip on 7/25 may be purchased at the BERA Sales Office, Berkner Hall, Tuesday-Friday, 9 a.m. to 1:30 p.m.

BERA News

For more information, contact Recreation Supervisor M. Kay Dellimore, Ext. 2873, or Andrea Dehler, Ext. 3347.

Summer Splash!

Eat, dance and relax with friends and coworkers at the first annual BERA Summer Splash! to be held, rain or shine, on Friday, July 31, from 5:15 to 11 p.m. on the Brookhaven Center Patio. The cost of \$5 per person includes admission, two hot dogs, a soda and music by deejay E.T. Tickets will be on sale from next week at the BERA Sales Office in Berkner Hall Tuesday-Friday, 9 a.m. to 1:30 p.m.

Last Call for Disney

Time is running out to sign up for BERA's eighth annual trip to Walt Disney World in Orlando, Florida. The seven-day, six-night trip will be from Thursday-Wednesday, October 22-28. BNL and BSA employees, retirees, guests and on-site contractors and their families are eligible to participate.

MRI Volunteers Needed

Healthy volunteers ages 21 through 45 years are wanted to participate in a magnetic resonance study of the human brain. Candidates should have no medical or psychiatric conditions such as cardiac disease, hypertension requiring medication, seizures, pacemaker, metallic implants or claustrophobia (anxiety in cramped spaces).

Participants will receive \$20 per hour. Interested volunteers may call J. Pan, Ext. 3708.

New BNL Directory: By 7/17, Update Phone, Fax & E-mail

As BNL prepares to publish its new telephone directory, follow these simple steps to make sure that your listing will be correct. The deadline for all changes is July 17 — and you have been warned!

1. Check your current listing with your telephone representative and add a fax number if you want.

Each department and division has a telephone rep who can make changes to your phone book listing. To find out who your rep is, visit the Web page inform.bnl.gov/BNL_ONLY/phone_reps.html. This year, you can ask your rep to specify a fax number next to your name.

2. Register for Labmail if you have e-mail because only Labmail addresses will be listed in the new phone book.

Labmail is an e-mail service that gives you a simple, easy-to-remember e-mail address, but lets you keep your address on any BNL machine. It also makes it possible for you to receive BNL news and information via e-mail.

It is easy to tell if you have Labmail. If your e-mail address looks like "yourname@bnl.gov", with no characters between the "@" and the "bnl.gov," then you already have Labmail. If there are any characters between the "@" and the "bnl.gov," for example "yourname@bnldag.bnl.gov," then you need to register for Labmail.

You can register by sending an e-mail message to the address register@bnl.gov, and include your full name, your life or guest number, an alias or nickname that you'd like to use, and any alternate aliases. For example: Robert Smith, Life # 00000, bobsmith, robert smith, bsmith.

For more information on Labmail, visit the Web page www.ccd.bnl.gov/mail/labmail.html.

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Holiday Notes

- In observance of Independence Day, the Lab will be closed on Friday and Monday, July 3 & 6. As a result, the following schedules will be in effect:*
- **Brookhaven Bulletin** — There will be no Bulletin next week; the next issue will be published on Friday, July 10. The classified ad deadline for that issue, including ads for Services, is noon on Thursday, July 2.
 - **Credit Union** — The Teachers Federal Credit Union branch on site will be open 8:30 a.m. to 4:30 p.m., on Friday, July 3, and Monday, July 6. The automatic teller machine in the foyer of Berkner Hall will be available throughout the holiday.
 - **Food Service** — The Cafeteria will be open Friday through Monday, July 3-6, from 9 a.m. to 2 p.m. The Brookhaven Center Club will be closed July 3-5; it will reopen on Monday, July 7, 5-9 p.m.
 - **Gym, Pool, Omega Leisure Travel Office, Recreation Hall & Research Library** — All closed from Friday through Monday, July 3-6.
 - **U.S. Post Office** — The service window of the U.S. Postal Service, Upton Branch, will be open on Friday, July 3, and Monday, July 6, 8 a.m.-noon.

Classified
Advertisements

Placement Notices

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

Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication.

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

The following vacancies are exempt from the Director’s hiring freeze.

SCIENTIFIC RECRUITMENT - Doctorate usually required. Candidates may send C.V. to M. Kipperman, Bldg. 185.

MK7550. ASSISTANT SCIENTIST - to conduct research within two ongoing experimental radiation therapy programs: Microbeam Radiation Therapy (MRT) Program and Boron Neutron Capture Therapy (BCNT) Program, which are aimed predominately at central nervous system cancers. Will assist Medical in developing new research programs in radiobiology and become involved in other research programs in Medical and Biology. Requires a Ph.D. in cell biology, and at least seven years of postdoctoral and other research experience in field of radiobiology and neurobiology. Experience should include cancer research and radiation therapy of brain tumors, such as signal transduction of apoptosis. Desired experience includes: in vivo and in vitro research in a clinically oriented environment, and background in growth factor signal transduction in glial and neuronal cells. Under the direction of N. Volkow, Medical Department.

MK7551. ASSISTANT SCIENTIST - to work in program developing and applying methods for measuring metabolism in the in vivo human brain using NMR spectroscopy and spectroscopic imaging. Will develop all pulse programs and analysis routines to be written in C or C++, and develop and implement these algorithms on Varian INOVA 4T and Bruker ADVANCE 2T systems for use with patients having epilepsy and multiple sclerosis. Requires Ph.D. in chemistry, physics, biochemistry or other related discipline with focus on development and/or application of NMR spectroscopy or imaging methods. Also requires experience in developing and implementing homonuclear and heteronuclear editing or multiple quantum filtering methods for measurement of brain metabolites in vivo, and automated non-iterative shim adjustment methods. Under the direction of H. Hetherington. Medical Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD7890. SECRETARIAL POSITION - (term appointment) Requires an AAS degree in secretarial science or equivalent experience, and demonstrated organization and administrative skills. Will provide secretarial support for Y2K Project and Management Plan. Duties will include maintaining spreadsheets, project schedules and contact lists, preparing presentation materials, correspondence and reports, undertaking site-wide PC inventory, and maintaining supplies. MSWord experience required, familiarity with Excel, Powerpoint, Access and Microsoft Project highly desirable, and technical expertise a plus. Director’s Office.

DD7015. ADMINISTRATIVE/SECRETARIAL POSITION - Requires an AAS in secretarial science, excellent oral and written communication skills, as well as strong organizational skills, the ability to work well under pressure and experience with WordPerfect 8 or MSWord. Will perform a variety of secretarial duties including filing, answering phones, scheduling appointment and meetings, and preparing correspondence. Will provide support to the Community & Government Relations Office and will assist with the coordination of the Community Request & Response Program, and the Citizen Advisory Council. Community Involvement & Public Affairs Office.

Summer Sunday Tours Start 7/12

This year, BNL has expanded its Summer Sunday tours to offer visitors an inside look at a different Laboratory facility each week.

In addition, the “Whiz Bang Science Show” — popular with both adults and children in summers past — will be shown every Sunday during the summer program.

Said Janet Tempel, head of Museum Programs in the Community Involvement & Public Affairs Office, “BNL employees, retirees and their families will enjoy the ‘Whiz Bang Science Show,’ and a chance to visit some of the facilities that will be open. Our thanks to all the mini-tour volunteers. We hope to have lots of visitors.”

The Lab will be open for tours on eight consecutive Sundays, from July 12 to August 30. Tour hours are between 10 a.m. and 3 p.m. Admission is free and no reservations are needed.

Guided bus tours of the Laboratory site will run continuously throughout the day. Some of the sites viewed on the narrated tour will be the Laboratory’s biology, chemistry, medical and physics facilities.

In addition to the bus tour, mini-tours will run continuously each Sunday. The mini-tour schedule follows:

- **July 12, Medical Department** - See how BNL fights cancer, and learn about boron neutron capture therapy, a promising experimental treatment for a type of brain cancer.
- **July 19, Relativistic Heavy Ion Collider** - Take a look inside BNL’s next world-class accelerator before it begins probing the birth of the universe. You’ll also get to see one of the huge detectors that physicists will use to study tiny subatomic particles.
- **July 26, Tandem Van de Graaff Accelerator** - Watch how scientists bring outer space down to earth to test parts for satellites and the Mars Rover.
- **August 2, High Flux Beam Reactor** - See the interior of this unique facility, which has been used by scientists from all over the world for research in chemistry, biology and physics.
- **August 9, Waste Management Facility** - Find out how Brookhaven Lab protects the environment and prevents pollution.
- **August 16, Biology Department** - Learn how our scientists investigate DNA, the molecule that carries the genetic code, and see one of the world’s most powerful microscopes for imaging biological specimens.
- **August 23, Communications & Computing Division** - Take a 3-D virtual-reality trip and see some of the Lab’s cutting-edge computers in action.
- **August 30, Firehouse** - Take a look at Brookhaven Lab’s high-tech emergency-response equipment when you visit the firehouse.

The “Whiz Bang Science Show” will be offered at 10:30 a.m., noon, 1:30 p.m., and 3 p.m. in the Lab’s Berkner Hall.

Both children and adults will enjoy lively interactive demonstrations of basic scientific principles. How does a “Bernoulli blower” float a beach ball in thin air? What’s a corrugaphone and how does sound travel through it? How fast can you freeze ice cream with liquid nitrogen? Find out the “gee whiz” answers to these and other intrigues!

In addition, various exhibits will be on display in Berkner Hall, including a tabletop model of Long Island’s aquifer, which shows how groundwater flows and the potential impact of pollution on it.

For more information about the Summer Sunday tours, call the Community Involvement & Public Affairs Office at Ext. 2345.

— Diane Greenberg