

New Funding, New Location for Fast-Growing Protein Data Bank

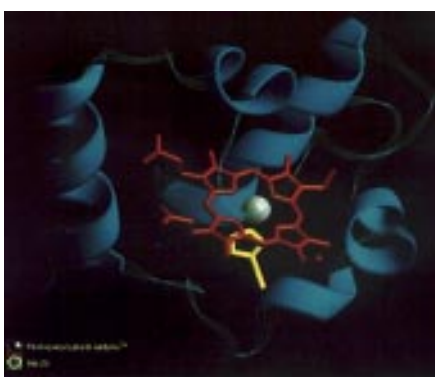
BNL's Protein Data Bank (PDB) — a unique international resource for managing three-dimensional structural information about proteins, nucleic acids and other biological macromolecules — had a tiny archive of seven protein structures when it was established in 1971. By 1989, it had grown to contain 300 structures. Today, it has increased its holdings to almost 5,000 structures.

Recently, there has been tremendous growth in the number of structures deposited in the PDB, as well as the number of scientists accessing the information — currently over one per minute on the World Wide Web (WWW).

This dramatic growth and the crucial role played by the PDB in biological research have spurred the National Science Foundation (NSF) to provide operating funds using a cooperative agreement, a significant change from the standard renewable NSF grant used to fund the PDB since 1971.

The new award to Brookhaven, granted after an open competition, took effect May 1 and is funded by the NSF and three other federal agencies — the U.S. Department of Energy, as well as the National Institute of General Medical Sciences and the National Library of Medicine, both components of the National Institutes of Health. The NSF will administer the award and oversee the operation of the PDB to assure its effectiveness. The combined funding for fiscal year 1996 is \$2.5 million.

Joel Sussman, a Senior Scientist in the Biology Department and a Professor at the Weizmann Institute of Science in Israel, has been head of the PDB since January 1994. "On



This image from BNL's Protein Data Bank (PDB) shows the structure of cytochrome C5, a member of the electron-transport chain of the nitrogen-fixing bacterium *Azotobacter vinelandii*. The PDB entry 1CC5 was determined by Daniel Carter and C. David Stout at the University of Pittsburgh and is part of the Swiss-3DImage collection created by Manuel Peitsch, Glaxo Institute for Molecular Biology, Geneva, Switzerland. It is available through the PDB's World Wide Web site.

behalf of BNL, I am eager to accept the challenge of keeping the PDB a vital international resource for research institutions and industry," he said. "We expect this new cooperative agreement will facilitate the efficient operation of the fast-growing facility."

An Invaluable Research Aid

Since the first crystallographic structure of a protein was solved in 1958, the field of structural biology has grown tremendously, and, today, scientists around the world contribute structures to the PDB and use it on a daily basis. The scientific community depends on convenient access to this information as an invaluable aid to its research, because the exact three-dimensional arrangement of these molecules determines their biological function.

Within the last decade, the development of synchrotron light sources and powerful computers has made solving macromolecular structures easier, faster and more accurate. Also, the rapid growth of genetic-engineering technology makes it possible for scientists to make large amounts of synthetic proteins for this research. Previously, researchers were limited to studying proteins in the minute quantities obtained from natural sources.

The PDB has become a major resource for research in a wide variety of areas besides structural biology, including better understanding of the molecular basis of certain diseases and the design of new therapeutics. The structural (continued on page 2)

Pegram Lecture Series

Editor Emeritus of *Nature* to Speak On 'Science and the 21st Century'

The 125-year-old, London-based journal *Nature* publishes approximately 1,000 papers each year in all scientific fields and boasts a worldwide circulation of 55,000. Sir John Maddox, who had been editor of the prestigious publication for 22 years until his retirement last December, has been hailed as "the breaker and maker of science."

Now Editor Emeritus at *Nature*, Maddox is still active as a writer, editor and lecturer — and he will be visiting BNL next week to deliver this year's George B. Pegram Lecture Series. On Tuesday, Wednesday and Thursday, June 11, 12 & 13, Maddox will speak on "Science and the 21st Century: New Issues and Old Questions." Each talk will begin at 8 p.m. in Berkner Hall. Light refreshments will follow each lecture in the lobby.

In the series of talks, Maddox will identify important problems in basic science that remain to be solved in the 21st century and describe research that will be necessary for their resolution. He will also discuss changes in the organization and funding of sci-

ence that have already started to occur, as well as those that are likely to be forced on the research community in the future. And he will speculate on the consequences of those changes.

The three talks will be given as follows:

- **"Perspective and Prospect," Tuesday, June 11** — Maddox will review the wealth of scientific discovery and innovation that has changed the world in the 20th century, and reflect on the most important problems in physical science that still need to be addressed, for example: How did the universe begin? What is the nature of matter?

dressed, for example: How did the universe begin? What is the nature of matter?

- **"Understanding Living Things," Wednesday, June 12** — Maddox will discuss the strides made in biology over the past century, as well as the questions that still remain to be answered. While the discovery of the structure of DNA provided a framework for the understanding of all living processes, the goal is far from being attained. For example, scientists still do not comprehend the origin of life, the process of biological species formation or the working of the human brain.

- **"Improving on the Real World," Thursday, June 13** — In discussing what he foresees as the technologies of the 21st century, Maddox will suggest that the machines and devices developed in the century ahead will depend increasingly on analogies with biological structures. He further predicts that physical science will become increasingly occupied with environmen-

(continued on page 2)



Sir John Maddox



Roger Stoutenburg

The planning committee for the 1996 NSLS Users' Meeting: (from left) Chi-Chang Kao, NSLS; Boris Sinkovic, New York University; David Hanson, State University of New York (SUNY) at Stony Brook; Eva Rothman, NSLS; NSLS Users' Executive Committee Chairman Peter Stephens, SUNY at Stony Brook; and Linda Feierabend, NSLS. Missing is Michael Dudley, SUNY at Stony Brook.

Users Assured of NSLS' Position In U.S. Synchrotron Community

As the cost of science escalates with the scale of its projects and as the federal budget for science comes under the axe, the focus is shifting from the lamplighters, or discoverers, to the toolmakers, or builders — "such as those who built the NSLS," according to Malcolm Browne, the *New York Times* science reporter who was the keynote speaker at the 1996 annual Users' Meeting of the National Synchrotron Light Source (NSLS), held at BNL on May 20-22.

"Since we have gotten to the point where better means bigger and prohibitively expensive, we are focusing on the toolmakers who are building smarter, not bigger," Brown explained to an audience of approximately 400 users and staff.

However, with the advent of the two newest and brightest U.S. synchrotrons at Argonne National Laboratory (ANL) and Lawrence Berkeley National Laboratory (LBNL), the battle lines are being drawn between light-source toolmakers.

The first transparency shown during the annual meeting was a page reproduced from the news in the 9 May 1996 issue of *Nature*. It stated: "In the view of some congressional staff, [the Advanced Photon Source at ANL and the Advanced Light Source

at LBNL] ought to replace the existing radiation synchrotrons at Brookhaven National Laboratory on Long Island, New York, and at the Stanford Linear Accelerator Center in California."

This transparency was displayed by Peter Stephens of the State University of New York at Stony Brook, who is Chairman of the 1996-97 NSLS Users' Executive Committee. "It is now up to us to make the case for synchrotrons as productive as the ones we are using now at the National Synchrotron Light Source," he commented.

2,000 Users, 600 Papers

In addressing the users meeting for the first time since he became NSLS Department Chairman in September 1995, Michael Hart made it clear, "Third-generation light sources in Europe [which are the same technology as those at ANL and LBNL] have made no difference to the number of users and scientific output of the second-generation sources," which are the same technology as the NSLS' x-ray and vacuum ultraviolet rings.

The reason, according to Hart, is that the science utilizing the photons from existing light sources is not limited by source brightness; rather, users are limited by their detectors, (continued on page 2)

Coming Up

Serban Protopopescu, a physicist in the Physics Department, will give the 317th Brookhaven Lecture on Wednesday, June 19, in Berkner Hall. His talk on "The Route to the Top: Search for the Last Quark" will begin at 4 p.m.

Pegram Lecture (cont'd.)

tal problems, including the threat of global warming.

In this final talk, Maddox will also focus on the organization and funding of research worldwide, and the social and economic benefits likely to follow from scientific research in the 21st century.

Maddox was Editor of *Nature* in two intervals — 1966-73 and 1980-95. He interrupted his editorship to become Chairman of Maddox Editorial Ltd., 1973-75, and then Director of the Nuffield Foundation, 1975-80.

Educated in chemistry and physics at King's College, London, and Oxford University, Maddox's first position was Assistant Lecturer in the Theoretical Physics Department at the University of Manchester, 1949-55. Then he switched careers, becoming a science correspondent for the *Manchester Guardian*, 1955-64. For the next two years, he was Assistant Director for the Nuffield Foundation before he became Editor of *Nature*.

The Pegram Lecture Series was established in 1959 by the Trustees of Associated Universities, Inc. (AUI), to provide an opportunity for distinguished scholars to examine the interaction between science and other aspects of culture and society. The series honors the late George Braxton Pegram, who played a key role in BNL's founding. Pegram became one of the incorporating trustees for AUI in 1946 and remained an active trustee for a decade. — Diane Greenberg

Protein Data Bank (cont'd.)

data on proteins and nucleic acids will also help scientists use the information generated by the international Human Genome Project to increase their understanding of human biology and to improve human health.

New Quarters, New Name

In April, the PDB and its 18-member staff moved from BNL's Chemistry Department to the second floor of a newly constructed 7,200-square-foot annex to Bldg. 463, which houses the Biology Department. According to Sussman, given the department's research programs in structural biology, molecular genetics and DNA sequencing for the Human Genome Project, it is an ideal location for the PDB. Also, many molecular biologists and crystallographers use the PDB in conjunction with Brookhaven's High Flux Beam Reactor and National Synchrotron Light Source.

With its new award, the PDB will also get a new name. "While it isn't finalized yet, the new name is expected to be 3DB, for Three-Dimensional Database of Biomacromolecules, which emphasizes both the three-dimensional nature of the data and that we archive other biomolecules besides proteins," Sussman said.

He further stressed that information contained in the PDB is available to anyone who has access to the WWW at <http://www.pdb.bnl.gov>. Transfer of information across the WWW is sometimes slow, so to improve the service to the international community, "mirror" copies of the PDB information are now available at a number of sites around the world. Mirror sites are running at the Weizmann Institute; Peking University, China; and the European Molecular Biology Laboratory Outstation — the European Bioinformatics Institute in the United Kingdom. — Diane Greenberg

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

Hail, Columbia, Hail, Ken Goldstein!



Every spring for the last 25 years, Columbia University Journalism School professor Ken Goldstein (front row, third from left) has led his class of promising young science writers from Morningside Heights to BNL for two days of reporting on Brookhaven research. Equipped with this kind of practical training and their master's degrees from Columbia, his charges have gone on to write for *Scientific American*, major newspapers and other publications. But now, Goldstein has decided to retire, ending a longtime connection with BNL. During his final visit to Brookhaven, April 15-16, with members of the J-school's Class of '96, Goldstein paused for a moment to accept the good wishes of his students and the BNLers who have welcomed him over the years. Museum Programs College Tour organizer Elaine Lowenstein (front row, second from left), Public Affairs Office (PAO), capped 12 years of planning Goldstein's Brookhaven itinerary by giving him a BNL cap, T-shirt and pencil. Also on hand was one of Goldstein's former students, Kara Villamil (front row, third from right), who went from Goldstein's 1993 science writing class straight to BNL, first as a summer student in PAO and now as a member of the Public Affairs staff. After the presentation, the students continued on their day of learning about BNL research ranging from boron neutron capture therapy to environmental cleanup.

NSLS Users' Meeting (cont'd.)

beam-line optics, and the stability and reliability of the beam.

So, as the NSLS Chairman related, the number of Light Source users is up to 2,200 annually — or more than half the nation's light source users — and the scientific output in terms of papers published in refereed journals remains steady at about 600 annually. In recognition of this, "There has been an increase in funding in real terms: After its having been level for five or six years, funding for this fiscal year has gone up by \$4-5 million," reported Hart.

"The bad news is that the President has requested 2 percent less for fiscal year '97 than for fiscal year '96," remarked William Oosterhuis, who is Team Leader of the Solid State Physics & Materials Chemistry Branch of the Material Sciences Division of the U.S. Department of Energy's Office of Basic Energy Sciences (BES). BES's Material Sciences Division and its Division of Chemical Sciences provide the majority of the NSLS's funding.

Real Increase in Funding

However, Oosterhuis added, "The good news is that the Scientific Facilities Initiative is expected to continue funding activities in FY 97 that were started this year." The basic energy-science user-facility initiative passed by Congress last year provided the NSLS with increased funding for this fiscal year, the first real increase in five years.

He elaborated, "The user community is to be congratulated: The scientific facilities initiative was passed in its entirety by Congress last year, which proves that, if you have a compelling case and have the leadership and constituency to make that case to Congress, then you can succeed even in a tough budget climate."

Initiative funds are used to support increased operations and development of new and improved instrumenta-

tion. As Oosterhuis pointed out, "Since the NSLS runs as much as it can, it has always paid the price in terms of instrumentation." With over 5,000 hours a year of operations already paid for, the NSLS was able to use initiative funding to double spending on repair, maintenance and hardware upgrades.

What this has resulted in is a 20 percent increase in beam-line support staff, and upgrades to the injection system, computer controls, water supply and other support systems. Work is under way to improve the rings themselves, including replacement of all four radio-frequency cavities of the x-ray ring.

More Insertion Devices

As second-generation sources, the NSLS storage rings were designed to have devices called wigglers and undulators inserted into their straight sections to produce more intense light, and seven were installed. But, as Hart pointed out, advances in the performance of the storage rings now permits the use of insertion devices with very small magnetic gaps — allowing two more devices to be installed within the rings.

Hart outlined the particulars of the new insertion-device program now going on. For instance, the first time-varying elliptically polarized wiggler recently installed in the X13 straight section will allow researchers to detect circular dichroism and other effects associated with the left- or right-handedness of molecules.

Regarding the NSLS' research and development of a free electron laser as a fourth-generation light source, Oosterhuis stated, "We have provided small but not insignificant funds to do the initial R&D, but now is not the time to build such a device, as [DOE's] first concern is to provide better neutron sources."

Evolution of PRT Concept

To enable the NSLS to dedicate certain beam lines to specific purposes,

Outreach Workshop Perfectionism — A Blessing . . . Or a Curse?

If you want everything in your professional and/or personal life to be perfect, then when does striving for flawlessness in your work, your avocations and/or your children go to far?

To answer that question, clinical psychologist Jonathan Hoffman will discuss "Perfectionism: A Blessing or a Curse?" at the next Outreach workshop.

Sponsored by the Employee Assistance Program (EAP) of the Occupational Medicine Clinic, the talk will be given on Tuesday, June 11, at noon in Berkner Hall. All are invited, and the talk will be available afterward on audiocassette in the Research Library, Bldg. 477.

Jonathan Hoffman, Ph.D., is Associate Clinical Director of the Institute for Bio-Behavioral Therapy and Research in Great Neck.

Author of a workbook on obsessive-compulsive disorder and addiction, Hoffman works extensively with clients with anxiety disorders and is involved in research on the treatment of schizophrenia and schizoaffective disorder.

To register for this workshop, return the completed bottom portion of the Outreach flyer recently sent to all employees to EAP Staff Psychologist Dianne Polowczyk, Bldg. 490, by Monday, June 10. For more information about EAP and its Outreach workshop series, call Ext. 4567.

such as x-ray absorption fine structure or macromolecular crystallography, and to allow general users to have more and better supported access to beam lines, the participating research team (PRT) concept is evolving. As Oosterhuis commented, "PRTs have evolved in terms of structure and support to the point where there has to be a stronger partnership between the NSLS and its PRTs."

According to Hart, PRT tenure is based on documentation of its scientific membership and output, and management structure, which each PRT supplies the NSLS science advisory committee by the end of August.

So, beginning in fall, "We will take this opportunity to determine how each PRT's program fits into the NSLS' program and how well each PRT is doing its job. As a result of our assessment, the communities within the NSLS will grow and evolve in different ways, so as to increase the productivity of the beam lines and the groups using them," Hart concluded. — Marsha Belford

Money Talks The Seven Steps

Don't just let your money sit there: If you have to work, then have your money working for you at the same time.

If you don't have a lot of experience with investing but would like to learn how to get the most from your money, then the next Money Talks seminar sponsored by the Human Resources Division is for you. Entitled "Seven Steps to Successful Financial Planning," it will be given by a representative from American Express Financial Advisors, Inc., from noon to 1 p.m. on Thursday, June 13, in Berkner Hall.

To register, return the completed bottom portion of the green Money Talks flyer recently sent to all employees to Denise DiMeglio, Bldg. 185, by the end of today. For more information, call Ext. 7516.

Book Fair Returns

On Thursday and Friday, June 27 & 28, from 10 a.m. to 3 p.m., BERA will again sponsor a book fair in Berkner Hall. Ranging from children's stories to *New York Times* best sellers, new hardcover volumes will be available for immediate purchase at 50-75 percent off retail. A book list will be available in the near future. For more information, call Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Vacation Travel Show

On Tuesday, June 11, from 11:30 a.m. to 2 p.m. in Berkner Hall, the Omega Leisure Travel Office will hold its first vacation travel show — and all are invited to come to find the right vacation. Representatives from hotels, airlines and cruise ships will be on hand to answer questions about vacation destinations — and ways of getting there in style. For more information, call Omega Leisure Travel representative Carol Zaza, Ext. 5918.

1996 BERA Bowling Champions



Photos by Roger Stoutenburgh

The Odd Balls got even with other teams by sailing past the Clearwaters to win the 1996 Purple & White League championship. The Odd Balls are: (from left) Carol McNulty, Mike Guacci and Donna King. Missing is Don King.



These Four Guys — (from left) Doug Fisher, Walt Powell, Bob Geib and Fred Wahlert — were tough enough to extinguish the Sparks and win the 1996 Red & Green League championship.

Blood Drive Crazy for First-Time Donors

First-time blood donors could win a "crazy" night as part of BNL's upcoming Blood Drive.

The Gateway Playhouse in Bellport has donated ten tickets to the play *Crazy for You* to entice first-time donors. The Blood Drive will be held Wednesday, Thursday and Friday, June 19, 20 and 21, from 10 a.m. to 3 p.m., at the Brookhaven Center, and the drawing for five pairs of tickets will take place before the drive starts.

"We are really trying to encourage those who haven't given before," explained BNL's Susan Foster, who has organized the blood drive for 12 years.

Most of the blood donations come



from people who give regularly, but Foster said many local companies have had layoffs and cannot sustain the blood supply in the area as they have in the past.

Kathy McGoe, data coordinator at the New York Blood Center, finds what keeps most people from donating is fear: fear of contracting AIDS, fear of needles, fear of passing out or fear of seeing their own blood.

"We tell them that everything is taken out of sealed bags right before their eyes," McGoe said. "We have never had a case of a person getting AIDS from donating blood."

Many fears about donating are unwarranted, Foster remarked. "People think they are going to be too tired to play tennis that afternoon or that they will be more susceptible to colds," she explained. "It is relatively painless, and the total time required to donate is approximately one hour."

Some people say if a family member had an accident they would donate, Foster said, but if there is an

immediate need for blood the processing time required prior to transfusion would not allow a dedicated donation.

To overcome these fears, Foster suggested using the buddy system when donating. "We encourage the people who already donate to bring someone with them who hasn't donated," Foster said. "We can schedule them together if they let us know."

McGoe said first-time donors could request that the charge nurse take their blood. Usually this nurse has had more experience dealing with people who are afraid or who have tough veins. She also suggested eating a healthy, low-fat meal about an hour before donating and drinking plenty of fluids before and after donating.

As part of the blood drive, BNL employees are eligible to become part of the National Marrow Donor Program. A small amount of the blood from the normal donation will be tissue-typed, then put into a national registry to help people with fatal blood diseases.

There is a severe shortage of donors who are African-Americans, Asian/Pacific Islanders, Hispanics and Native Americans, so federal funding is available for tissue-typing of members of these groups — who are strongly encouraged to register. Associated Universities, Inc. pays for tissue-typing of other BNL employees.

To sign up for Brookhaven's blood drive, send in the blood donor pledge card recently sent to all employees or call Susan Foster at ext. 2888.

— Andrea Widener

Sarah Gilbert and Andrea Widener are this year's summer students in the Public Affairs Office.

Service Awards

The following employees celebrated AUI/BNL service anniversaries in May:

- 40 Years**
 - Hugh N. Brown.....AGS
 - 35 Years**
 - Arnold Esper.....AGS
 - 30 Years**
 - William J. Brynda.....Reactor
 - Lillian S. Kouchinsky.....Director's Off.
 - Robert Thomas.....Director's Off.
 - 25 Years**
 - Walter F. Hulak.....Central Shops
 - 20 Years**
 - Jack M. Preses.....Chemistry
 - Robert J. Kennett.....Adv. Technology
 - Lawrence I. Kleinman.....App. Science
 - Arthur J. Coone.....Admin. Support
 - Brian D. Mayo.....Admin. Support
 - Frederick C. Molone.....Admin. Support
 - Zaida Rosado.....Plant Eng.
 - Richard A. Kayte.....Plant Eng.
 - Nancy M. Schneider.....Adv. Technology
 - John F. Carew.....Adv. Technology
 - James Yerry.....Saf. & Env. Prot.
 - James L. Durham.....Plant Eng.
 - 10 Years**
 - Schuchen F. Feng.....NSLS
 - Lynette G. Bennett.....NSLS
 - Stephen L. Dewey.....Chemistry
 - Donna M. LeDoux.....AUI
 - Martin Fallier.....Plant Eng.
 - Stephen R. Springston.....App. Science
- Note:** In April's service awards, Andrew T. Como, who celebrated 30 years of service and works in CCD, was incorrectly listed as being in Physics.

Kids' Swim Lesson Applications Due

Completed applications for children's summer swimming lessons are due next Friday, June 14. Applications are available at the BNL pool, Bldg. 478; the Human Resources Division, Bldg. 185; or the BERA Sales Office, Berkner Hall. For more information, call Head Life-guard Susan Dwyer, Ext. 3147; or M. Kay Dellimore, Ext. 2873.

Explore the Web

Offered by the Personal Computer Resource Center of the Computing & Communication Division (CCD), the demonstration "Exploring the World Wide Web With Netscape" will be repeated on Thursday, June 13, from 2 to 3 p.m. in the CCD Seminar Room, Bldg. 515. For more information, contact Laurie Pearl, Ext. 5520, or e-mail pearl@bnl.gov.

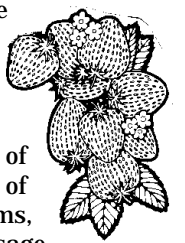
Get Caught Red-Handed . . . Picking Strawberries

Pick-your-own strawberry season is a little late this year because of the cool weather and rain. Local farmers have started picking strawberries for their stands, but say that there won't be enough for pick-your-own until the weekend of June 15.

If the weather is nice, pick-your-own is great way to spend the morning outside and get some fresh, ripe strawberries for about \$1.25 per quart. A number of pickers get carried away and eat what they can't fit in their container. But this requires good table manners because leaving the fields with red lips can be embarrassing.

Pickers can bring their own quart containers or purchase them for a few cents. Picking in the

early morning is recommended because the weather is cool and more strawberries are available. For a listing of the names and hours of area pick-your-own farms, call the automated message system of the Cornell Cooperative Extension (369-2100 in East Suffolk, 854-1450 in West Suffolk) and press 0302.



Pick-your-own is expected to last a few weeks, possibly into July. A telephone call to farms is recommended to find out if the berries are ready. And remember, try not to get caught red-lipped.

Here's is a brief sample of some of the local farms:

- **Anderson Farms:** Route 58, Riverhead. To call the stand, 727-2559. To call the Andersons, 727-1129. Open seven days a week, 9 a.m. to 6 p.m.
- **Berenzy's Farm Stand:** South Avenue and Northville Turnpike, Riverhead, 722-3823. Open seven days a week, 9 a.m. to 5 p.m.
- **Ken Glover Farms:** 633 Horseblock Road, Brookhaven, 286-2226 or 286-7876. Open seven days a week, 8 a.m. to 6 p.m.
- **Lewin Farms:** Sound Avenue, Wading River, 929-4327. Open Mondays and Tuesdays, 9 a.m. to 4 p.m., Wednesday to Sunday, 9 a.m. to 5 p.m.
- **May's Farm:** Route 25A, one mile north of William Floyd Parkway., Wading River, 292-6654. Open seven days a week, 8:30 a.m. to 5 p.m.
- **Rottkamp's Fox Hollow:** 2287 Sound Avenue, Calverton, 727-1786. Tuesday to Thursday 9 a.m. to 4:30 p.m. Closed Wednesday.

— Sarah Gilbert

ANS Meeting

At the next meeting of the Long Island Section of the American Nuclear Society (LIANS), John Leonard Jr., Vice President of engineering & construction of the Long Island Lighting Company (LILCO), will speak on "Long Island Energy Issues," and follow with a discussion of Long Island's high electric rates and the Long Island Power Authority's proposal to take over LILCO.

The meeting will take place on Wednesday, June 12, at the Three Village Inn, Stony Brook. After cocktails at 6 p.m. and dinner at 7 p.m., the speaker will be introduced by LIANS Vice President Frank Patti of BNL's Reactor Division. To make reservations, call Vera Meier, Ext. 7702, by Monday, June 10.

LUG Meeting

At the next meeting of the Upton Local Users Group (LUG), on Tuesday, June 11, at 11 a.m., in Room B, Berkner Hall, Paul Kessler, Acting Section Head of the Computing & Communications Division's Distributed Computing Services Section, will present an update on distributed computing services at BNL. After discussing such topics as current UNIX support, the status of VAX to Alpha migration and future plans, Kessler will answer questions. In addition, users who attended the recent national DECUS meeting in St. Louis are invited to update attendees on the Alphas.

This is the last LUG meeting until fall. For more information, contact LUG Chairperson Zohreh Parsa, ext. 2085, or e-mail LUG@bnl.gov.

BROOKHAVEN BULLETIN

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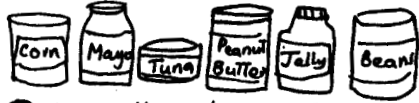
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But, before investing in that wedding gift for your aunt's third cousin's second-favorite niece... Please give generously to the

BNL FOOD DRIVE



Pickup all next week. Or, send personal checks to: BNL Food Drive, 40 R. Kito, Bldg. 460; D. Wadman, Bldg. 599.

No Sales 6/10-14

The BERA Sales Office in Berkner Hall will be closed the week of June 10. It will reopen on Monday, June 17, resuming its usual weekday hours of 9 a.m. to 1:30 p.m.

Cooking Exchange

The Cooking Exchange will hold a potluck luncheon from noon to 1:30 p.m. on Thursday, June 13. Weather permitting, it will be held at the apartment area picnic grounds near the playground; in case of rain, it will take place in the Recreation Building.

All are welcome to bring a favorite dish to share. Last time, there were many delicious specialities from various countries. For more information, call Marlies Prechtel, Ext. 1013.

Darkroom Lessons

The BERA Camera Club is offering a series of classes on black-and-white film developing and printing. The first class will be held on Monday, June 10, at noon, when a one-hour instructional video on black-and-white darkroom techniques will be shown in Room C, Berkner Hall.

Future classes will offer participants hands-on experience in the darkroom, and subjects to be covered include: choosing film, paper and developers; loading film; using an enlarger, safelights and test strips; and burning and dodging. For more information, call Ripp Bowman, Ext. 4672.

Arrivals & Departures

Arrivals

Anthony L. DiBono.....Central Shops
Pamela J. Giggie-Accetta.....Fin. Serv.
Stephen H. Klerk.....Central Shops
Laurie A. Mercanto.....NSLS
John P. Rosso.....Reactor
Freddy R. Severino.....AGS

Departures

This list includes all employees who have terminated from the Lab, including retirees:

George E. Bozoki.....Adv. Technology
Ann C. Fort.....Adv. Technology
Sharon L. Goode.....Adv. Technology
Hsienjen Lian.....App. Science
Florence C. O'Brien.....Adv. Technology
Charles J. Ruger.....Adv. Technology
Arthur G. Tingle.....Adv. Technology
Wen-Shi Yu.....Adv. Technology

Softball

Standings as of May 31

League E1		League E3	
Phoubars	4-0	Bombers	2-0
System	4-0	Mesocyclones	2-1
Ice Men	2-2	Pick-Up Sticks	1-2
Magnets	2-2	Medical	0-2
Blue Jays	2-3	League M1	
Titans	1-4	Good Timers	3-1
Cleen Sweep	0-4	Gour-Mets	3-1
		Snake Bites	3-1
League E2		Stingrays	3-1
Contaminators	4-0	Parke Avenue	0-4
Hy Tech	4-0	OER Wellheads	0-4
Lights Out	3-1	League M2	
Phase Out	2-2	Skeleton Crew	2-0
CCD	2-2	Varmints	2-0
Hammerheads	2-2	No Names	1-1
Feds	1-3	Monday Nite Live	0-2
Scram	0-3	Stray Cats	0-2
Sure Fire	0-3	What's on 2nd	0-2
Phytinphytos	0-4		

Note: The address for the World Wide Web page of the BNL Softball League is <http://pubweb.bnl.gov/~l2ball/>.

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. The purpose of these listings is, 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 select "Scientific Personnel Office" for scientific staff openings or "Employment Opportunities" or "BNL Human Resources Division" for all other vacancies.

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

POSTDOCTORAL RESEARCH ASSOCIATE, trained in molecular biology, with experience in crystallographic structure determination. Experience in cloning, protein purification and crystallization is highly desirable. The research program is concerned with protein-nucleic acid interactions. Contact: Joel Sussman, Biology Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

MK 8027. REGISTERED NURSE - (part-time) Requires a NYS license: experience in occupational health nursing highly desirable. Will be responsible for direct clinical care, outpatient evaluations, initial treatment of medical problems, triage and first aid. Will assist with physical examinations and assist physicians as needed. Occupational Medicine Clinic.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS 0584. TECHNICAL POSITION - (term appointment) Requires a BS degree or equivalent experience and an extensive background within a production environment. Experience understanding and following engineering drawings and associated production tooling and equipment, as well as debugging and modifying production tooling and equipment, is necessary. Prior supervisory experience required. Will be involved in the construction, inspection and preparation for installation of high-precision superconducting magnet assemblies for RHIC. RHIC Project.