BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

BNL Breaks Ground for New Waste Management Facility

Under crisp white tents set against a backdrop of white pines, BNL held a ground-breaking ceremony on Tuesday, May 30, for the new Waste Management Facility.

The $16-million facility, funded by the U.S. Department of Energy (DOE), will be located on an 18-acre site between East Fifth Avenue and Rutherford Drive, at the eastern end of BNL's central campus. Oversight for the design and construction of the Waste Management Facility rests with the Plant Engineering (PE) Division, and the facility will be operated by the Safety and Environmental Protection (SEP) Division.

Speaking at the Tuesday ceremony, Congressman Michael Forbes, who represents eastern Long Island, congratulated J. Kokolakis, a Rocky Point company, for winning the primary contract of $13.3 million to construct the facility. Merrick Engineers and Architects, of Los Alamos, New Mexico, designed the facility under a $1.4 million contract. Additional subprojects bring the total to $16 million. Construction is expected to be completed by September 30, 1996.

The new facility will replace an existing waste-handling area that has been in use since the Lab was founded in 1947. BNL generates chemical and radioactive waste in the normal course of operation. Prior to off-site disposal, waste is cataloged, sorted, packaged and stored according to strict local, state and federal guidelines that protect public health and the environment.

Breaking ground for the new Waste Management Facility were: (from left) M. Sue Davis, BNL Associate Director for Reactor, Safety and Security; Jerome Hudis, Vice President for Programmatic Affairs, Controller and Secretary, Associated Universities, Inc. (AUI); Carson Nealy, Manager of DOE's Brookhaven Area Office; Cherri Langenfeld, Manager of DOE's Chicago Operations Office; Congressman Michael Forbes; and BNL Director Nicholas Samios. In the background are (from left) William Casey, Head of the Safety and Environmental Protection Division; and Leland Willis, AUI Vice President for Environment, Safety and Health. —Photos in this issue by Roger Stoutenburgh

According to PE's Martin Fallier, Project Manager, construction of the new facility reflects DOE's strong commitment to managing waste with concern and respect for the environment. "The new facility will offer better protection for the environment and more efficient management of the waste stream," said Fallier. He explained that paving, curbing, containment systems and underground lining in critical areas will provide physical barriers to prevent contamination of the environment in the event of accidental spills.

Fallier also pointed out that the new location is about twice the elevation of the old location, making it that much further removed from groundwater. Additionally, because of its more central location, the new facility can be serviced by a full complement of utilities. "It has many environmental, engineering and economic advantages," he said. (continued on page 3)

NSLS Users Updated on Light Source Budget, Operations

During the 100th-anniversary year of the discovery of x-rays, the National Synchrotron Light Source (NSLS) held its 14th annual users meeting in its 15 years of existence: On May 9 &10, 350 attendees were updated on how well the NSLS is faring despite the reality of tight federal budgets, the talk of corporatizing the national labs (see story below), and the commissioning of "third-generation" synchrotrons.

Users heard the good news about the pending fiscal year 1996 (FY96) federal budget for basic energy sciences, which includes general funding for the NSLS operations, plus special funds that may come from a proposed user-facility initiative. In addition, the participants were told how those funds would be put to use to increase current in the x-ray ring and the energy of the vacuum ultraviolet (VUV) ring.

It was also reported to the users that, although the newest U.S. synchrotrons at Argonne National Laboratory and Lawrence Berkeley Laboratory are brighter, the great majority of NSLS experiments are not limited by the NSLS' flux, and, in fact, the NSLS competes well with the newer sources in terms of flux.

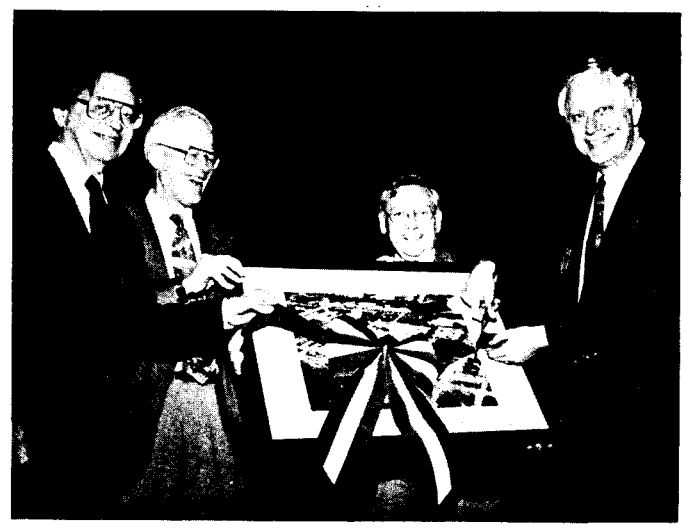
"With our facilities and our staff, the NSLS will continue to be a user-friendly, cost-effective synchrotron source for the foreseeable future," reported Denis McWhan, who has been the NSLS Department Chairman since 1990, but was named BNL Associate Director for Basic Energy Sciences in January 1995. McWhan is also serving as acting NSLS chair until his replacement is appointed.

Before the 1995 users meeting got under way, five parallel workshops were held on May 8, so experimental capabilities and research results in catalysis, buried interfaces, powder diffraction, biomedical applications and infrared science could be discussed. In addition, the structural biology addition, which was begun a year ago, was dedicated during the users' meeting (see photo above).

The Budgetary Outlook

The NSLS' actual operating budget for this fiscal year (FY95) totals $23,325,000, while the total capital and accelerator additions & modifica-

(continued on page 2)



Held on May 9, during the NSLS Users' Meeting, the dedication of the structural biology addition to the National Synchrotron Light Source (NSLS) had to be moved indoors to Berkner Hall, due to inclement weather. The rain, however, did not dampen the spirits of those who attended the ceremony, which was transformed into a ribbon cutting over an aerial picture of the NSLS featuring the new addition; the picture was then presented to Ove Dyling, Plant Engineering (PE) Division, in thanks for his work as the project's manager and for PE's efforts to complete the project on time and within budget. (From left) Laboratory Director Nicholas Samios holds the ribbon and Associate Director for Basic Energy Sciences Denis McWhan and Biology Department Chairman William Studier hold the picture, while the honor is done by Roland Hirsch of the Office of Health and Environmental Research of the U.S. Department of Energy, which funded the $1.8-million, 6,000-square-foot project. By adding eight labs on the experimental floor, the new section of the NSLS enables structural biologists to prepare their fragile samples near the beam lines they use to determine the crystal structure of biologically active molecules.

Brookhaven Tops Galvin's List Of National Laboratories

Robert Galvin addresses the 1995 NSLS Users' Meeting.

Following his keynote address to a packed Berkner Hall audience during the 1995 National Synchrotron Light Source (NSLS) Users Meeting (see main story), Robert Galvin was posed this one last question: Would he make an offer for Brookhaven National Laboratory?

The answer was of interest, as Galvin is not only Chairman of Motorola's Executive Committee, but also Chairman of the Secretary of Energy's Task Force on Alternative Futures for the Department of Energy National Laboratories. This February, after a ten-month study, the task force issued its conclusions in a report, in which it urged that, over a year or two, the national laboratories should be "corporatized," that is, operated like private-sector laboratories without the "prescriptive Congressional management and excessive oversight by the [U.S.] Department [of Energy]."

And, as Galvin elaborated in his talk, the goal of corporatizing the national labs now is to prepare them for their eventual privatization.

According to Galvin, the national labs are (continued on page 2)

It's in the (Time)Cards: New Way of Accounting for BNL Labor Costs

The weekly or monthly tradition of filling out a time card is getting a new face for BNLers, with the advent of a new system for recording employee hours and leave, which takes into account the project or projects that the employee is working on.

The new system for labor cost distribution is mandated by an article in the pending BNL prime contract between Associated Universities, Inc. and the U.S. Department of Energy (DOE).

All Lab personnel — exempt and nonexempt, weekly and monthly — will soon start recording both their hours of effort and their leave time, such as vacation and sick time, on a new style of all-in-one time card. The new cards, still color-coded to employee status, are larger than the currently used cards and have two detachable sections.

For the majority of BNLers — those whose work responsibilities come under a single project account — the only change from the former system will be to mark in their hours of effort as well as leave.

And, for those who work on more than one project at a time, the new system streamlines the time-card process. It replaces existing small-scale labor cost-distribution systems, previously developed by several scientific departments, with a uniform, Labwide system that can be customized to each area's needs.

The new labor cost distribution system is already up and running in several departments and divisions, where it has worked well. All BNL organizations will switch to it by the end of this summer, for a test run in which problems can be worked out. And, by October, the entire Lab will be reporting hours and leave in the new way.

The new system was devised over the last year by a Labwide committee headed by Richard Melucci, Department of Applied Science.

In the long run, the new system may help departments and divisions reduce costs and paperwork and be more responsive to their funding agencies.

At the Management Information Systems (MIS) Division computer room where data from the new labor cost-distribution system will be collected are the members of the committee that devised the system: (front, from left) Barbara Crothamel, Department of Advanced Technology; committee chair Richard Melucci, Department of Applied Science; Sheryl Golden, Reactor Division; (back, from left) Gary Utz, MIS; Edward Byrne, Budget Office; Ray Duffield, MIS; Brenda Riddle, MIS; and Frank Terrano, Chemistry Department. At front, on the desk, are the three varieties of time cards, one for each employee pay status, that are used under the new system. Missing committee members are: Mark Israel, Fiscal Division; Susan Perino, Fiscal; and Anthony Romano, Director's Office.

One of the largest changes will come in the area of accounting for paid absences, such as sick, vacation, occupational injury and other leave. Under the old system, paid absences were charged directly to accounts. Under the new system, they'll be distributed across the Laboratory, as a percentage of labor costs charged to accounts. "One benefit is that an employee's extended illness will not burden a particular program," Melucci explained.

Also, the new time-card system will minimize the use of the "108" form, which is used to record changes in employee status, including changes in the account number to which their hours are billed. Now, employees will record the time worked on each task during the pay period on their time card, so a "108" won't be necessary.

And, said committee member Anthony Romano, Director's Office, "With the reports that this system can generate, organizations like the Department of Advanced Technology or DAS will have an easier time keeping track of information on the many projects that their employees work on." Such reports are useful, for example, when scientific investigators are reporting to their funding agencies.

Melucci gave the example of a DAS oceanography technician preparing for a research cruise supported by as many as five funding agencies. "We intend to set up project accounts, so that everything charged there gets distributed to the funding agencies in proportion to funding," he said. Such an account will make life easier for the employees, too.

Employee-Driven System

Among DOE's national labs, BNL is actually one of the last to implement this kind of labor cost-distribution on a large scale. Several of the Lab's scientific departments already had local systems for keeping track of time worked on specific projects, and such practices are common in industry.

The Labwide system is, as required by DOE, employee-driven and supervisor-concurred. That is, employees keep track of how they spend their hours, and their supervisors verify the information. Then, secretaries or administrative personnel enter data from the bottom portion of the time card via computer software to a computer in the Management Information Systems Division. For now, the Payroll Office will still enter leave information from the detached top part of the card.

Another advantage of the new system is the elimination of a time card conundrum for monthly employees: estimating leave time for the final week of the month while filling out a time card on the 21st, and making leave corrections in subsequent periods. Now, the reporting period for both leave and effort reporting will be from the 21st of one month to the 20th of the next month, and cards will be collected on the 21st of the month.

Except for this schedule change, Melucci emphasized that the new labor cost distribution system doesn't change any existing Lab policies, including those involving personnel, payroll and leave. — Kara Villamil

NSLS Users Meeting (cont'd.)

tions budget is some $2.3 million. For FY96, the President has proposed to Congress to spend some $27 million for NSLS operations and some $5.21 million for NSLS capital equipment, and, as was reported to the users, the budget for basic energy sciences, out of which the NSLS is funded, is holding up to Congressional budget-cutting efforts.

"Basic energy sciences are seen as important, so will continue to be in business under DOE or a new department of science," stated William Oosterhuis, who is Chief of the Solid State Physics & Materials Chemistry Branch of the Material Sciences Division of DOE's Office of Basic Energy Sciences (BES), which funds the NSLS.

In fact, a $57-million basic energy science user-facilities initiative proposed by DOE for FY96 has been "well received in Congress and is an example of what can be done when Congress is presented with a good case," commented Oosterhuis. If passed, that initiative would, according to the branch chief, "double the output" of the four synchrotrons, including the NSLS, and the four neutron sources, including BNL's High Flux Beam Reactor, operating at the national labs with funding through BES.

Oosterhuis commended the NSLS staff for its "smooth operations": "Of more than 5,000 hours of operation, you have had less than 5 percent down time; your user community continues to grow; and, to make the NSLS even better, you have made strong R&D efforts in many different areas."

McWhan examined the operation of the NSLS over the past five years, 1990-95, during his tenure as department chairman. After reviewing a list of past NSLS chairmen and informing the users that a prioritized short list of candidates for the job has been forwarded to Lab Director Nicholas Samios, McWhan credited the NSLS staff for keeping "the facility moving," regardless of who is chairman.

The vacuum ultraviolet (VUV) and x-ray synchrotrons have been "running as flat out as we can," commented McWhan. As a result of a number of upgrades to the synchrotrons, overseen by NSLS Deputy Chairman Samuel Krinsky, "the percentage of downtime has been reduced over time," McWhan reported. The rate is now 3 percent for the VUV ring and 4 percent for the x-ray ring.

Over 14 beam lines have been upgraded or brought on line during the past five years. As examples, McWhan commented that the VUV ring is "being turned into an infrared facility by NSLS Physicist Gwyn Williams," who established an infrared (IR) microscope on beam line U2 and an IR spectroscopy line on U12, in addition to Williams' original U4IR beam line; and that the "hottest beam line around" is X25, a hybrid wiggler beam line developed by NSLS Physicist Lonnie Berman for high momentum-resolution x-ray scattering experiments.

As McWhan pointed out, with the recent completion of the addition to the x-ray ring floor, not only do experimenters get 12 new laboratories, which brings the total of labs on the experimental floor to 50, but the rings' operators now have a new control room.

McWhan also updated users on the status of the proposed phase III general upgrade around the rings, which would include: replacing mirrors on the x-ray ring to increase the beam throughput by a factor of five, replacing two radio-frequency cavities, installing a small gap wiggler on X25 to increase the brightness, converting VUV beam lines from torodial grating monochromators to spherical grating monochromators to increase resolution, and adding some offices on the second floor of Bldg. 725.

After reviewing the NSLS' efforts to increase the performance of the x-ray ring and to develop a new, future-generation light source, McWhan asked, "Where do we think we are going?" He answered by saying, "I think we are becoming more user friendly: We hope to make user operations more efficient by forming confederations of the participating research teams performing similar work, so as to standardize equipment and share maintenance; we will be adding more NSLS staff to the beam lines, to help users with their operations, maintenance and upgrades; we will be forming equipment pools; and, by next year, we will be accepting form submissions for user proposals, safety approvals and the like electronically."

— Marsha Belford

Galvin's Keynote Address (cont'd.)

"now worth nothing." As he elaborated, "Corporations wouldn't want to afford the purchase of the national labs now because of what has been imposed upon you unnaturally due to the micromanagement oversight of the federal government. But, if you get ready to privatize the labs over the next 15 years by making them attractive, efficient and affordable enough, there will be enough $100-billion corporations, such as Motorola, by the year 2015 that would be interested in acquiring them.

"This is abhorrent to some," Galvin admitted, "but I believe it should be inspiring and invigorating because, in spite of the federal impositions upon you, you at Brookhaven are already so damn good at producing quality, and you have the spirit and operating freedom. So just think how much better you could be if your rights to do that were respected.

"Corporatization is not a political reality now," Galvin concluded, "but in five to ten years from now, it will be, and we are glad we introduced it. It will go further, to privatization, and, when that occurs, watch how together we can really make this lab sing."

So, in answering the question about buying BNL, Galvin gave a "semiserious answer": "If the people of Brookhaven National Lab were to determine that they would like to be party to such an experiment in the future, that is, if it provided a better opportunity for you, and if the national labs were allowed to make themselves more efficient, and if their leaders were allowed to run them the way they know how, and if the other folks got out of your way and let you do it, then Brookhaven would be on the top of my list of the ten national laboratories." — M.B.

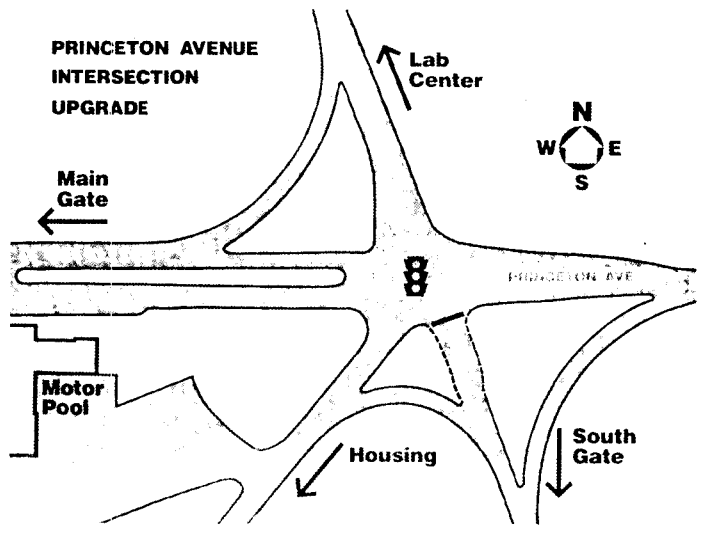
New Traffic Control System Slated to Start June 14

It doesn't compare to rush hour on the Long Island Expressway or midtown traffic in Manhattan, but Upton's main intersection at the traffic light about one-quarter mile east of the Main Gate is very busy at peak traffic hours.

In fact, according to a 1988 survey by Vollmer Associates, a Manhattan consulting firm, between 8 and 9 a.m., an estimated 1,200 vehicles enter the Main Gate, and from 4:30 to 5:30 p.m., some 525 leave via the Main Gate and 405 exit from the South Gate.

To facilitate the flow of this traffic, preparations are now under way at the intersection to put in service — beginning Wednesday, June 14, at noon — a new vehicle-actuated traffic control signal system, which will feature loop detectors underneath the pavement. The detectors will sense vehicles in all lanes as they approach the traffic light and automatically adjust the timing of the traffic signal based on traffic volume.

When the new traffic control system goes into effect, those exiting the South Gate from the east can use the new bypass from East Princeton Avenue to Upton Road South. Drivers headed for the South Gate from the Child Development Center or the housing area can use the Yale Road bypass to Upton Road South. All others must exit through the Main Gate or North Gate. And some drivers will use the two new turning lanes: A lane for left turns from Upton Road North heading east to Princeton Avenue, and a lane on Princeton Avenue for westbound traffic headed toward Yale Road.



The traffic signal will actually be four multifaced signals with dual traffic signals in each direction, and each turning lane will have its own turning signal. Pedestrians and cyclists must also obey the traffic signals.

Only four-sided signals are necessary as the intersection has also been redesigned from five points to four by eliminating direct access to Upton Road South, except for emergency vehicles, by adding two bypass roads (see diagram) and two turning lanes.

Also, during peak rush hour, from 4:30 to 5:30 p.m., certain regulations will be in effect to avoid traffic delays and to enhance safety:

- Left turns from Upton Road North will be prohibited.
- Traffic heading east from the Main Gate and Yale Road cannot travel eastbound on Princeton beyond the intersection, the same as at present.
- Upton Road South will be barricaded. All traffic exiting through the South Gate must use the new bypasses.

Additional improvements at the intersection include installing new traffic control signs, new pavement markings made of thermoplastic and refractory materials, and more street lights for safer driving at night.

The new traffic control system will operate during the peak traffic hours at the Main Gate: from 7:30 a.m. to 9 a.m., 11:30 a.m. to 1:30 p.m., and 4:30 p.m. to 5:30 p.m. At other times, the traffic light will revert to a flashing signal, as it does now. The North Gate will remain open during the morning and evening rush hours, and the South Gate will be open during the evening rush hour, as they are now.

James Wright, Plant Engineering Division, who is responsible for the design, installation and testing of the new system, said, "This type of state-of-the-art control system is used at major intersections. We will test it for one week before it's put into use, and it will be adjusted to accommodate traffic loads as effectively as possible."

Wright explained that the system has been designed so that it is flexible as well as dependable. It has a manual override that allows the BNL police to change signals in emergencies. In addition, BNL rescue and emergency vehicles will have a strobe light-emitting device that will change the signal to green from up to 1,800 feet away, so that emergency vehicles may go through the intersection unhampered by traffic. Also, if the traffic-control system ever fails, it would automatically revert to flashing signals to alert drivers to proceed with caution.

The new system will eliminate the need for a BNL police officer to control traffic, although there will be one standing by during the new system's initial operation to observe its efficiency in controlling traffic.

Russel Reaver, Manager of the Safeguards & Security Division, said, "The Princeton Avenue intersection is inherently dangerous. There have been several incidents when a police officer's safety was in jeopardy while directing traffic there. The new traffic control system will correct this safety problem."

— Diane Greenberg

Waste Management (cont'd.)

Also part of the PE team overseeing the construction project are: Alan Raphael, construction manager; James Wright, electrical engineer; Gary Barnett, mechanical engineer; Ove Dyling, project architect; and Peter Boyle, construction-inspection supervisor.

To make sure the new facility meets SEP's needs, PE has been working closely with key people in the existing waste-handling area. They are: Peter Kwaschyn, group leader; Michael Clancy Jr., operations manager; Michael Van Der Karr, resident environment, safety and health advisor; Michael Greaves, quality assurance engineer; and George Goode II, regulatory specialist.

Len Emma, SEP's Section Head for Environmental Management, said that BNL each year generates approximately seven to ten thousand cubic feet of low-level radioactive waste and 60 tons of chemical waste. "BNL's waste stream is typical of what's generated by industry, hospitals and universities," said Emma. He said, however, that many institutions handle only a few types of materials, and, "We have more of a variety than the average institution — small quantities of everything, but a large variety."

The new Waste Management Facility will contain an operations building for personnel, a reclamation building for handling and minimizing radioactive materials, a mixed-waste building and a chemical-waste building.

When SEP switches its waste-management operation to the new facility, the old one will be shut down. Because of existing environmental contamination there, environmental restoration will be done under the Comprehensive Environmental Response, Compensation and Liability Act, commonly known as Superfund. That activity is being managed by BNL's Office of Environmental Restoration, under an interagency agreement among DOE, the Environmental Protection Agency and New York State. As the federal agency with jurisdiction over the BNL site, DOE is responsible for cleanup costs.

— Mona S. Rowe

Healthline Lecture: Mind-Body Connection in Heart Disease

Since 1977, physician Dean Ornish and his colleagues have been investigating whether comprehensive changes in a person's lifestyle can slow down or reverse heart disease, and they have demonstrated that, in heart-disease patients who adopt a low-fat vegetarian diet, take up moderate aerobic exercise, practice stress management and, if applicable, stop smoking, coronary artery blockage can be slowed or reversed — without resorting to cholesterol-lowering drugs or surgery.

Ornish's findings will be the subject of the next Healthline lecture, on Tuesday, June 6, from noon to 1 p.m. in Berkner Hall. Sponsored by the Health Promotion Program of the Occupational Medicine Clinic, "Demystifying the Mind-Body Connection in Coronary Artery Disease" will be presented by cardiologist Roberto Roberti, who is in charge of the Dean Ornish lifestyle-intervention program for heart disease patients at Beth Israel Medical Center, New York City.

To register for this lecture, return the bottom portion of the Healthline flyer recently sent to all employees to Mary Wood, Bldg. 490. For more information, call Ext. 5920.

Circulate Your Blood!

A two-day blood drive will be held Wednesday through Friday, June 21-23, from 10 a.m. to 3 p.m. in the Brookhaven Center.

Two pledge cards will be sent to each employee so that friends or relatives may also join the BNL campaign. Please sign up as soon as possible. For more information, contact Susan Foster, Blood Drive Chair, Ext. 2888, or the Blood Program Captain for your department or division (see list):

Dept.	Captain	Bldg.	Ext.	Dept.	Captain	Bldg.	Ext.
AGS	Anna Petway	911A	7752	Instr.	Joseph Mead	535B	2148
	Millie Laster	911A	3775	ISD	Maria Apelskog	477	3138
AUI	Elliott Levitt	134A	2495		Jack Laurie	197B	7640
Bio.	Richard Sautkulis	463	3386	Med.	Marta Nawrocky	490	3592
CCD	Ronald Yuhas	515	4144	MIS	Mike Seidman	459	2242
Chem.	Jean Petterson	555A	4302	NSLS	Pat Powers	510E	4828
CSD	Christine King	462U	5033		Kathy Loverro	725C	7188
	Anthony Ievolella	479	3499	OMC	Maureen Sacker	490	3671
DAS	Pat Taylor	179A	2452	PE	Marilyn Johnson	134C	2546
	Claire Lamberti	318	3051		Marilyn Zane	134C	5075
	Arlean Vanslyke	490D	2387		Tirre Farmer	452	3288
	Maryann Larese	480	3508		Ron Mulderig	326	3084
	Eileen Morello	815	4519	Pers.	Marsha Kipperman	185	2871
	Fran Donnelly	526	4835	Phys.	Sandy Asselta	901A	4550
	Corinne Messana	318	7398		Liz Mogavero	510A	3940
	Barbara-Jean Carreres	815	2418	Reac.	Nick Houvener	750	4436
	Altak Mubaraki	426	5936		Eileen Kelly	120	2399
DAT	Kathy Nasta	130	2267		Julie Teuber	703	2513
	Kara DeCastro	475B	3643	RHIC	Ginny Waterman	1005	5663
	Maryann Reynolds	197C	2908		Mary Campbell	1005	2719
	Linda Hanlon	475B	7517	SEP	Donald Dains	535A	7494
	Marjorie Chaloupka	475C	2746		Michael Carroll	599	2351
	Maria Beckman	703M	2301		Sheila Bubka	51	3144
	Laura Ayres	830	3807	SMD	Michael Guacci	211	2976
DCP	Jo Ann Reed	355	7009	SSD	Jane Guido	179B	2553
	Debbie Botts	355	3159	S&SD	Sharon Jones	30	2493
DO	Janet Sillas	134	2345		Ted Heuer	703	5645
DOE	Clare Appleton	464	7812		Mindy O'Sullivan	50	2280
Fiscal	April Donegain	134A	2459		Tom Gilbert	50	2235

C/W Dance Next Week

The BNL Country/Western (C/W) Dance Club will hold a C/W dance on Friday, June 9, from 7 to 11 p.m. in the North Room of the Brookhaven Center. There will be dance instruction from 7 to 8 p.m. with Joel Piereth and Elise Prado, and open dancing from 8 to 11 p.m.

Tickets are $10 per person, which includes hot and cold hors d'oeuvres. A cash bar will be available, and door prizes will be awarded.

Tickets are now available from: Carmen Falkenbach, Ext. 2663, Bldg. 460; Lois Marascia, Ext. 3315, Bldg. 460; or Ginny Morante, Ext. 3555, Bldg. 460.

Equipment Demo

Representatives from Galileo Electro-Optics Corporation of Sturbridge, Massachusetts, will be in Room D, Berkner Hall, from 11 a.m. to 4 p.m., on Wednesday, June 7, to answer questions on Microchannel plate-based applications and talk about new technology available from Galileo.

Contact Mark Dykstra, (508) 347-4345, for more information.

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Brookhaven Highlights

The 1994 Brookhaven Highlights were delivered to employees this week. If you did not get a copy, please ask your department/division office for one or contact Public Affairs, Ext. 2345.

Toastmasters

The BNL Toastmasters will present "The Art of Effective Evaulation" at its next meeting on Tuesday, June 6, at 5:20 p.m. in the large conference room, Bldg. 475. Since Toastmasters uses speech evaluation instead of instructors to improve its members' speaking skills, it is vital to learn to evaluate as effectively as possible. Therefore, Ronnie Evans will present this special workshop, on behalf of the BNL Toastmasters. All are welcome. For more information, call Ext. 2851.

Summer Swim Lessons for Kids

Registration is now being taken for summer swim lessons for children of all Lab employees. Sponsored by the Brookhaven Employees Recreation Association (BERA), lessons will begin on Wednesday, July 5, and end Tuesday, August 29:

- **Lessons**: Each child will be scheduled for one lesson each week for a total of eight lessons. American Red Cross certificates will be awarded to children who qualify.
- **Time**: Monday through Friday, 2:15 to 3:15 p.m., but children must arrive by 2 p.m. so they may have time to prepare for class.
- **Fee**: $45 per child upon registration; in addition, each child must pay the $2 daily admission fee or present a season ticket for each lesson.
- **Height requirement**: For his or her safety, each child must be a minimum of 42 inches tall.
- **Registration**: Applications may be picked up at the Personnel Office. Bldg. 185, 8:30 a.m.-5 p.m.; the BERA Sales Office, Berkner Hall, 9 a.m.-1:30 p.m.; or the swimming pool, Bldg. 478, during its open hours. Mail or deliver applications with checks covering the registration fees payable to BERA to the Recreation Office, Bldg. 185, no later than Friday, June 16.

UNIX Training

If there is enough interest, CCD, through the end of the fiscal year, will be organizing the following classes:

Course	Fee
C++ Programming	$500
Introduction to UNIX	$250
Perl Programming	$250
Solaris System Administration	$1,050

For more information and to receive course outlines, call Ed McFadden, Ext. 4188, or Pam Mansfield, Ext. 7286. To register, send an ILR for the appropriate fee to Marcia Swiss, Bldg. 515.

Cafeteria Menu

Monday, June 5	
Soup: Spicy potato & kale	.90/1.20
A la Carte: Pasta w/sausage marinara	3.50
Lite: BBQ chicken	3.95
Deli: Baked ham & beans	3.20
Grill: Reuben	3.30
Tuesday, June 6	
Soup: Chicken noodle	.90/1.20
A la Carte: Herb-roasted chicken	3.95
Lite: Herbed-crusted pork loin	3.85
Deli: Corned beef & cabbage	3.20
Grill: French dip	3.30
Wednesday, June 7	
Soup: Broccoli & cheese	.90/1.20
Display Cooking: Chicken Caesar	4.75
Deli: Turkey w/stuffing	3.20
Grill: Tuna melt	3.30
Thursday, June 8	
Soup: Beef vegetable	.90/1.20
A la Carte: Lasagna w/focaccia	3.65
Lite: Hickory-grilled steak	3.95
Deli: Roast beef & mashed potatoes	3.20
Grill: Spanish omelet	3.30
Friday, June 9	
Soup: New England clam chowder	.90/1.20
A la Carte: Liver w/bacon & onions	3.85
Lite: Italian fish roll-up	3.95
Deli: Cured pastrami Dijonnaise	3.20
Grill: Meatball hero	3.30

Be Screened For Skin Cancer

Those employees who want to be checked for skin cancer are invited to make an appointment for the next skin cancer screening, to be held on Thursday, June 22, from 9 a.m. to noon in the Occupational Medicine Clinic, Bldg. 490. Only 40 appointments can be made, first-come, first-served.

To make one, send your name, extension and building number to Health Promotion Specialist Mary Wood, Bldg. 490, Ext. 5923. She will confirm your appointment by mail.

Hospitality Committee

During the next Hospitality Committee get-together, on Tuesday, June 6, at 9:30 a.m. outside the Recreation Building, future activities will be planned. Spouses of Lab employees and guests are welcome. Bring the children, but also bring a toy or two. Coffee and cookies will be served.

Film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

Arrivals & Departures

Arrivals

Michael A. Arpino.....RHIC
Bruce E. Miller.....RHIC

Departures

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

Louis Coppa.....RHIC
Srinivasan Kasturi.....Adv. Tech.

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 Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, 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 (282-7744), for a complete listing of all openings.

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

NUCLEAR ENGINEER - With at least three years' experience in the nuclear industry with emphasis on safety analysis and technical training. Experience with safety codes and authoring software is also required. Familiarity with probabilistic risk assessment, human reliability assessment and regulatory systems in the United States and abroad is desirable. The successful candidate will join the Engineering Assessment & Technical Training Group of the Engineering Technology Division. Contact: Jerry Cadwell or Robert Hall, Department of Advanced Technology.

PHYSICIST - With a strong record in accelerator physics and accelerator-beam instrumentation. Experience with operational accelerator systems, as well as design and construction of accelerator projects is required. The successful candidate will join the RHIC Polarized Proton Project where work will include accelerator performance calculations and evaluation, development of accelerator-beam instrumentation, development of methods for experimental testing of components and acceptance criteria, and systems testing and commissioning. Contact: Satoshi Ozaki or Michael Syphers, RHIC Project.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

LS 3802. TECHNICAL POSITION - (temporary appointment) Requires an AAS in computer science or equivalent, with experience in PC hardware configuration, DOS, RAM/memory optimization, Windows configuration and applications, and HP printers. Networking experience a plus. Responsibilities include upgrading division PCs to the latest revisions of software, troubleshooting PC problems, configuring systems for division networking, and maintaining printers. Must have good interpersonal skills and be able to work independently. Safety & Environmental Protection Division. (reposting)

Motor Vehicles & Supplies

83 MAZDA PICKUP - 5-spd., new brakes & clutch, good tires, bed cover, carpeted, tool box, radio, tune-up, $1,000. Dick, Ext. 4640.

83 FORD F250 - 4wd, many new parts, black/silver, best offer. Kevin, 732-3713.

82 BUICK CENTURY - v.g. running cond., body in v.g. shape, $895. Jeff, Ext. 2703.

79 DELTA 88 - runs well, needs work, $300. Mauro, Ext. 4234.

76 VOLVO 242 DL - m/t, good running cond., $900 or best offer; '77 244 DL parts car, not running, good body, $300 or best offer. Steve, Ext. 3018 or 369-5181.

74 FORD ECONOLINE 300 - V-8, rebuilt, a/t, locking rear compartment, fully insulated & heated, overhead, roll-up tailgate. Pete, Ext. 5105.

72 INTERNATIONAL RACK BODY DUMP TRUCK - 48k mi., dual piston hdy., $2,000 neg. Rich, 363-6845.

RACK - Thule, gutter-mount, 50" bars, $50. Fred, Ext. 5032.

TIRES - 4, radials, P195/75R14, $60. 878-1617.

TIRES - Firestone FR721, P185/80R13, $50/4. Rich, Ext. 5725.

Boats & Marine Supplies

25' CHRIS CRAFT - 1973, fg, new eng., VHF, sleeps 4, full head, stereo, many extras, $6,000 neg. Chuck, Ext. 2351 or 821-1525.

23' CHAPPARAL - 1984, UHF radar, o/riggers, DF, L/well, f/canvas, d/btrys, bunks, extras, mint, reduced to $9,500. Marilyn, Ext. 2259 or 878-0939.

19' CRUISERS - 115-h.p. Johnson, trailer, p/winch, $2,200. Jim, Ext. 3372 or 821-0253.

17' KAYAK - two person Folbot, good cond., $400; paddles & floats extra. Nick, Ext. 2490.

12' CATAMARAN AQUACAT - w/trailer, good sail, new tramp., $600 neg. Ron, Ext. 4553.

JET SKI 300 - 1987, excel. cond., great for beginners, $1,000. Ext. 4662.

PROPS - OMC SST 13"x19", fits up to 140-h.p. outboards, $45; Merc., 13"x15", new, $25. Bart, Ext. 2005 or 929-6761.

Tools, House & Garden

CHAIN - hoist/puller, heavy-duty, 1½-ton cap., $50. Charlie, 475-8211.

COUNTERTOP - 75", butcher block & Formica; 21" s/s sink, Delta faucet w/sprayer; 30" beige range hood w/fan, all excel. cond., $90/all. Hans, Ext. 4584.

DAHLIAS - whole root clumps, mostly white, $1/ea. Joe, Ext. 2898.

EDGE CUTTER - Black & Decker, $80. Ext. 6869 or 744-0537.

FILTER - pool, sand, 5-gal., s/s tank, ½-h.p. motor, hoses, $50. Fred, Ext. 5032.

LATHE - metal, $550; table saw, $40; disk/belt sander, $35; band saw, $15; grinder, $15. 331-2298.

LAWN MOWER - Murray, 20", good cond., works well, difficult to start, $8.50. Seltzer, 286-8849.

LAWN MOWERS - Sears craftsman, 22", push, side-discharge, $55; Aircap, 20", push, side-discharge, $60. Bart, Ext. 2005 or 924-6761.

LAWN MOWER - rider, 11-h.p., 33" cut, double rear bagger, headlights, hitch, 4-spd., w/reverse, $800. Tony, 286-1212.

LAWN MOWER - Locke Reez, neg.; pull-behind lawn roller, like new, $70. Roger, Ext. 2382.

LITTLE TYKES - Wave Climber, outdoor gym, wavy 4' slide, $50; Moses basket for infants w/extra bumpers. Leslie, 286-7127.

RIDE-ON MOWER - 1985 Honda, 13 h.p., water cooled twin cylinder engine, 36" cutting deck w/bag catcher, excel., $1,300 neg. Rob, 727-7404 eves.

TRENCHING MACHINE - Ditch Witch, 12-h.p., digs 5', excel. cond., $1,200. Rich, Ext. 3354 or 589-9103.

TRACTOR/MOWER - Speedex Hydrostatic, 16-h.p., Kohler w/hydraulics, 4' mower deck, asking $1,400. Rob, 727-7404 eves.

PICNIC TABLE - 7', 2 benches, $75. Marie, 589-3020.

SCREENING - 11 screen/storm panels, alum. frames, good for screening in deck, carport, etc. 289-3586.

STORM DOOR - 36", white alum., cross buck, w/ screen, $25. Sue, Ext. 7235 or 399-7997.

STOVE - wood/coal, access., airtight, stove pipe, $100. George, Ext. 5288 or 878-8177.

TREES - Japanese maples, $10-$45+. 265-6542.

WEED WACKER - & hand-held tiller; small chipper/grinder, $40/ea. or $100/all. Paul, Ext. 7577.

WINDOW - steel casement, 37"x53", heavy gauge, industrial type, $25. Connie, 727-1403.

Sports, Hobbies & Pets

BIKES - 2, girl's, 20", $20 & $10. Bart, Ext. 2005 or 924-6761.

EXERCISE BIKE - $15; elect. kettle, $6; hair dryer & curler, $9; hand-blender, $8; hand mixer, $6; vaporizer, $12. Robert, Ext. 3736 or 341-1032.

GOLF CLUBS - men's, RH, w/bag, great for beginner, $75. Paula, Ext. 4619 or 928-7769 after 5:30 p.m.

GUITAR - acoustic, 12-string, Yamaha, good cond., $85. Paul, Ext. 7577.

PUPPY - yellow Labrador retriever, male, champion lines, male. 924-5505.

SAMOYED - 5½ yrs., champion blood line, excel. w/ children, housebroken, looking for loving home. Donna, 924-9282.

US OPEN GOLF - 1 admission packet for parking, 6/12-6/19, sell complete only, $200. Ext. 3338.

Free

LAWN MOWER - 20" Murray push, needs work. Scott, Ext. 7110.

PUPPIES - mother chow chow, father unknown, 5 avail. 6/2. need good homes, male & female. Steve, Ext. 7936.

Yard & Garage Sales

MILLER PLACE - 6/3, crib, dressers, riding mower, dryer, baby's items, knickknacks, bikes, toys. 2 Bluff View Ct.

ST. JAMES - 6/3, 9 a.m.-3 p.m., household items, tables, pictures, etc., 14 Fifty Acre Rd., off Edgewood Ave.

WADING RIVER - multifamily, 6/3, 9 a.m., toys, furniture, gift items, handmade crafts, children's clothes, more, 26 Long Bow.

Car Pools

LIE EXIT 36 - fourth needed. John, Ext. 5181.

Lost & Found

FOUND - encoded key card. Ext. 4432.

FOUND - Sears garage-door opener, on Weaver Drive. Pat, Ext. 5156.

Wanted

BABY-SITTER - my Ridge home, 3 children, 5 mo.-2½ yrs., mid-afternoon to dinner time, Mon.-Thu., experience a must. Stephen, Ext. 4406 or 924-3944.

DOUBLE STROLLER - w/reclining seat for infant, good cond. only. Leslie, 286-7127.

HEWLETT-PACKARD CATALOGS - any year. Scott, Ext. 7110.

HOMES FOR BNL VISITORS/GUESTS - furn. apt., condos, houses, short-term rentals. Marie, Ext. 4489.

JUNK CARS - trucks, machinery, alum. boats, removed free. Rich, Ext. 3354 or 589-9103.

PEOPLE - to watch the film *Jesus*, 6/7 & 6/14, Snyder Seminar Rm., Bldg. 911, noon. Ext. 5839.

SCUBA - diving gear, tanks, regulator, etc. Roger, Ext. 2382.

Services

*Services are listed in the first **Bulletin** of every month as a courtesy to BNL employees. They are neither screened nor recommended by the **Bulletin**. Services forms are available in the **Bulletin** lobby, Bldg. 134.*

BABY-SITTER - available on site or at your home, competent, experienced, convenient. Rian, 341-1024.

BRICKWORK - masonry, patios, walks, swimming pools, retaining walls, landscaping ties, Belgium block, 25 yrs. exp., Lab disc. Tony, 698-9274.

CHILD CARE - by licensed, loving mother, impeccable refs. from BNL employees. Robin, 345-0298.

CHILD CARE - conscientious, caring mom will care for your child in my Ridge home, meals and snacks provided. Cindy, 744-4816.

CHILD CARE - mature, responsible mother will care for your child in my Wading River home, pt/ft. Mary, 929-8613.

COMPUTERS - installations, repairs, tutoring, reasonable, all done in your home. Steve, 698-5260.

DJ - all occasions, specializing in Latin & old school music, starting at $200, Lab disc. Robert, 467-2790.

ELECTRICIAN - quality work, reasonable rates, 3 Village-Port Jeff. area, lic./ins. Tim, 331-4683.

ELECTRICIAN - lic./ins., any size job, free estimates, 24-hr. emergency service, BNL disc. Chris, 395-3809.

FINANCIAL - evaluation of your life insurance and retirement program options for future pension maximization, tax savings. Rich, 744-4816.

GHOSTWRITER - exp. editor will perfect papers, reports and resumes; converting awkward, technical text into concise English is my specialty. 366-0984.

HAIRCUTTING - barber, 50+ years exp., lic., retired, avail. for haircuts at your home, painless shaves too, Greek-speaking. Chris, 475-8242.

HOME IMPROVEMENTS - carpentry, complete service, roofing, siding, windows, doors, decks, oak-flooring, bsmts., lic./ins. Joe, 399-0828.

HOME IMPROVEMENTS - carpentry, drywall, spackling, painting, plumbing, ceramic tile, electrical, free estimates, Lab disc. Don, 744-2921 after 5:30 p.m.

HOUSE CLEANING - reliable, honest, hardworking, reas., refs., avail. Cathi, 281-0360.

JEWELER - special orders, repairs, honest, affordable, no job too large or small. Kelly, 821-5239.

KAYAK LESSONS - coastal touring, river playboats, $85/5 hrs., equip. supplied, intro. to kayaking, $30/2 hrs. Ernie, 281-7873.

LAND CLEARING - trees/stumps/brush removed, topsoil graded and raked w/450 loader, $70/hr. Tom Muller, 878-1060.

LANDSCAPING - free estimates on grass cutting and cleanups, etc., 286-5403 after 4 p.m.

LETTERING - pinstriping, airbrushing, land & sea vehicles, clothing, helmets, storefronts, window splashes, paper signs. Gary, 549-9113.

OFFICE CLEANING - by responsible couple, reliable, thorough, reasonable. 475-8242.

PAINTING - wallpaper-hanging specialist, int./ext. painting, free estimates, 20 yrs. exp. John, 277-3805.

PAINTING - int./ext., sheetrock, tape, spackle, wallpaper, stain, powerwash, refs., ins. James, 399-4912.

PAINTING - wallpaper hanging, lic./ins., free estimate, BNL disc.; powerwashing, decks, houses, cedar restorations, free est., lic./ins. Bob, 331-4336.

PARTY TENTS - we set up & take down, different sizes & combinations. Fred Kuehl, 588-2268.

PARTY TENT - 20'x30' w/side curtains, we set up and take down, $250/38 hrs. 321-2889.

PARTY - cabaret-style, Middle Eastern dance or Hawaiian Polynesian, live entertainment for your party, professional costumes. Sabiha, 399-1237.

PC TRAINING - Windows & DOS applications, from accounting to word processing. Gina, 929-3649.

PIANO TUNING - and repairs. 298-9560.

POWER WASHING - window cleaning, painting, decks, vinyl & alum. siding, brick, carpet & upholstery cleaning, puffbacks, flood damage. 467-6964.

SCUBA LESSONS - NAUI-certified instruction, classes now forming, private or group. Rex, 929-3235.

SHEETROCKING & SPACKLING - free estimates. Kevin Tisch, 567-6621.

SKIN CARE & BEAUTY CONSULTANT - nail care, facials, men's line, body care, free first-time facials. Babara Jean, 929-3235.

VIDEOGRAPHER - capture those precious moments on video, will tape weddings, parties, all occasions. Larry, 281-7240.

WINDOW CLEANING - all work squeaky clean, reliable, courteous service, free estimates. 928-3189.

In Appreciation

Thanks to BNL's Fire/Rescue Group for the life-saving work you did on 3/9 and for letting us know you care. God bless you. — Wenzel Rowan

Ads left out of this issue due to lack of space need not be resubmitted to appear in the next issue.