BROOKHAVEN BULLETIN
Vol. 45 - No. 9 March 1, 1991
BROOKHAVEN NATIONAL LABORATORY

At the "cake-breaking" ceremony for the new wing of Bldg. 515, Computing & Communications Division (CCD): (from left) BNL Deputy Director Martin Blume, CCD Head Arnold Peskin, and Frank Crescenzo, Acting Deputy Manager of the Brookhaven Area Office, U.S. Department of Energy.

New Wing Started for CCD

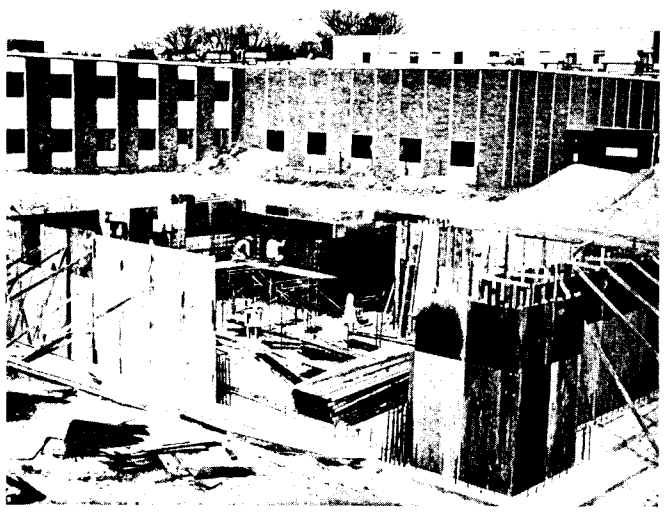
To break ground ceremonially for a $1.7-million addition to Bldg. 515, which houses BNL's Computing & Communications Division (CCD), a "cake-breaking" ceremony was held in the CCD seminar room last Friday, February 22.

Actually, excavation for the construction of the 9,000-square-foot addition began in January. Due to the weather, however, the formal ground breaking was postponed and then turned into an afternoon cake break for invited guests and CCD staff.

"The CCD addition represents the expansion of computing and communications taking place at the Lab," stated BNL Deputy Director Martin Blume, who spoke to the gathering. "In turn, we anticipate that more parts of the Lab will make great use of CCD services, which will then be further expanded."

This addition is the first expansion of Bldg. 515, which was completed in 1966 as quarters for the then Applied Mathematics Department. Designed by architect Christopher Jung of BNL's Plant Engineering Division, the two-story wing is being attached to the east side of Bldg. 515's lobby and will resemble the existing west wing. With 6,300 square feet of usable space, the new wing will contain offices, electronics laboratories, CAD/CAM terminal rooms and a conference room.

Scheduled for completion by September, the addition will allow all of CCD's functions to be housed under one roof and will alleviate overcrowding in the existing building.



A view of the new west wing of the Bldg. 515, Computing & Communication Division, under construction.

Photos in this issue by Roger Stoutenburgh.

Healey Picked to Manage Contracts & Procurement

Mary-Faith Healey assumed the management of the Division of Contracts & Procurement (DCP) on February 14, when she became the first woman to oversee that function at Brookhaven since the Lab's beginnings.

In announcing Healey's appointment, E. Parke Rohrer, Associate Director for Management & Physical Plant, noted, "Mary-Faith came to the Laboratory in September of 1976 and for the past five years has done an excellent job as Assistant Manager of Contracts and Procurement. I am sure she will continue in her fine tradition of excellent performance in her new position as Manager."

As Manager, Healey sees her division's primary role as "providing support for the Lab's research in the best way that we possibly can." Towards this end, Healey has initiated a program of "going out into the field — meeting with the departments to reacquaint them with the procurement process." Last week, for example, Healey and members of the DCP staff met with members of the RHIC Project. Other groups will be scheduled in the near future.

The most important message that Healey hopes to get across through this program is that planning is critical. As she explains, "The biggest complaint we get from researchers is: 'You make us go low bid, and I have to be stuck with a difficult supplier.' This complaint could be alleviated if requisitioners would bring us on board early. Then we could work with them, which would save them time and energy for their research."

Lead time is important because DCP has to consider the needs of the entire Laboratory, not just the individual. In fiscal year 1990, the division coordinated BNL's total expenditure of $83.5 million. Healey said that this total will increase this year, now that the Relativistic Heavy Ion Collider (RHIC) has been approved as a construction project.

"We buy everything from nuts and bolts and pencils to multimillion dollar contracts for RHIC magnets," said Healey. And it's not just the materials needed for BNL's laboratories, experiments, offices and residences: DCP handles purchasing for on-site services, such as the cafeteria, and issues contracts for such things as the operation and construction of the Child Development Center.

Handling all of this are approximately 30 people — contract specialists, buyers and clerical support staff, whom Healey called "a group of really hard working, dedicated professionals."

After obtaining her B.A. in Economics/English at the State University of New York at Stony Brook in 1975, Healey first came to BNL, joining the secretarial pool. She left in January 1976 to begin the lawyer's assistant program at Adelphi University, but returned to the pool in July 1976.

Mary-Faith Healey

In September 1976, Healey became a regular BNL employee in the Department of Applied Science's Conservation Programs Management Group (CPMG). As an administrative assistant with CPMG, she "did a lot of procurement-type work, monitoring programs for DOE and sending out solicitations."

With this experience, Healey transferred to DCP as a contracts specialist in April 1978. In May 1983, she completed the National Contract Management Association's (NCMA) program in contract management, and, in February 1984, she became

(continued on page 2)

Women at Brookhaven: At the Pivotal Juncture

March was first designated Women's History Month in 1987, when a joint resolution of Congress produced public law 100-9. But women's history, like all other history, begins as current events — and, in terms of current events, these are pivotal times.

For instance, as the war in the Persian Gulf has underscored, women have become such an integral part of the American armed forces that it is inconceivable to think that the U.S. effort could go on without them.

Less highly publicized but equally pervasive is the extent to which women have become an integral part of the BNL work force.

Certainly, there have always been remarkable women at BNL, from the Lab's first female employee and second hire Mariette Kuper, who helped set up the fledgling laboratory; to renowned nuclear physicist Gertrude Scharff-Goldhaber, who has specialized in studying nuclear excitations in a wide range of nuclei; to the late physicist Renate Chasman, whose work was the basis for the design of the storage rings at BNL's National Synchrotron Light Source and other synchrotron radiation sources.

Today, there is a higher percentage of women at Brookhaven than at any other time in the Lab's history. Women make up approximately one quarter of the BNL work force, and they can be found in all major job classifications. They are engineers and secretaries, technicians and scientists, police officers and accountants, administrators and custodians. Along with their male colleagues, they help keep Brookhaven at the forefront of science.

"Significantly for BNL's research program, there has been some growth in recent years in the numbers of women scientists and engineers on staff, including recent doctoral graduates in the Laboratory's Research Associate ranks," said Women's Program Coordinator Virginia Brown, Personnel Division. "At present, some one quarter of these Research Associates are women, which puts more women in the 'pipeline' for achieving future leadership positions in research programs."

Overall, only about 15 percent of the employees working on BNL's research and development staff are women. Part of the reason for this low representation, said Brown, "lies in the fact that the numbers of qualified women in the specialties in which BNL recruits are in short supply. Out of the total available candidates, the number of women ranges from about 5 percent for Ph.D. engineers to 30 percent for life scientists and computer scientists.

"The proportion of female representation in these fields at BNL mirrors the availability in the work force and is similar to other DOE laboratories for which data are currently available," Brown continued. "Nevertheless, not only is it critical that BNL recruit vigorously in these areas, but also that the Lab play a role in increasing the supply of women in the work place through educational efforts, such as the Career Day for Women planned for April 20."

At this pivotal juncture in women's history, a number of forces are converging so that the percentage of women on the BNL work force can only increase — especially in job classifications where women are now underrepresented.

One of these forces is demographics. The number of young people

(continued on page 2)

Women at BNL: At the Pivotal Juncture

(continued from page 1)
entering the work force is declining and the proportion of white males who have traditionally dominated, scientific and engineering fields, is shrinking. Given these facts, said Brown, "The only way that BNL and similar organizations will be able to replenish their work forces as relatively large numbers of employees retire is to include larger number of previously underrepresented groups such as women and minorities."

That may sound simple, but there are major impediments to this scenario. One is the continuing low number of women and minorities entering these professions. Another is the "skills gap," the inadequate skills that new workers bring to an increasingly technical work place.

The U.S. Department of Energy (DOE) and other major employers in such fields as science and engineering are extremely concerned about these trends. "DOE has recognized the critical role that the national laboratories can play in education and training of the work force," Brown explained. "The Secretary of Energy, Admiral James Watkins, has launched an education initiative, part of which is to increase educational programs and professional opportunities for women."

With this force in play, Brown projected, "The next few years at BNL may see an accelerated growth in efforts to recruit and retain women through a variety of programs and policy changes. An important step is to recognize the vital role being played by women who are already on the Brookhaven stage and who are not waiting for that next act: They're making their contributions now."

Since women can act as role models to other women and to female students who are making career choices, the Bulletin is taking the opportunity offered by Women's History Month, to profile some of these players in BNL's scientific drama — a range of women in science and technology.

This series starts by profiling two women scientists at BNL, each with a Ph.D. and a focus on materials science.

— Anita Cohen

Alison Davenport sets up the new scanning tunneling microscope in a Department of Applied Science laboratory.

Geraldine Lamble, Light Source

At materials science EXAFS beam line X11 of the National Synchrotron Light Source (NSLS) the beam is on — and so is Geraldine Lamble.

As the resident beam-line scientist at X11, Lamble is on duty and on top of things — overseeing the line's operation and development, and fielding the myriad of questions that come her way from other researchers collecting data during this run.

"I really enjoy interacting with all these people," says Lamble. But another good aspect of her position — "the carrot," as she calls it — is that she has her own beam time to do research.

The X11 beam line is designed to use a technique called Extended X-Ray Absorption Fine Structure or EXAFS, which yields structural information about a great variety of materials. Recently, Lamble's research there has involved the investigation of metal-metal multilayers, in which she is looking particularly at interface regions.

Lamble became familiar with EXAFS while pursuing her Ph.D. in surface sciences at Liverpool University in her native England, where she also obtained her B.Sc. in physical chemistry in 1980. After finishing her doctoral studies in 1986, she did a short postdoctoral stint at the synchrotron radiation source at the Daresbury Laboratory near Liverpool.

In 1987, she accepted a postdoc position with North Carolina State University for X11 at the NSLS. After becoming a research associate at BNL, she was named beam line scientist/operations manager in 1990. Last month, she became an NSLS associate scientist.

Lamble thinks highly of her collaboration. "It's a very forward-thinking group," she says, "they make no gender-based judgements. You can be who you are, and everyone's contributions are valued."

She acknowledges that this is not always the case in scientific research. "There have traditionally been real psychological barriers for women coming into science, as a male-dominated field. They encounter stereotypical male attributes, such as aggression and competitive spirit, that women are not encouraged to display through their education. Likewise, there's no high value placed on such stereotypical female attributes as creative thought processes, perception, insight and empathy — which can be assets in science."

Part of the problem, Lamble feels, "has been the lack of women in science, the lack of role models." As a student, she recalls having no women faculty to look up to. Further, as an undergraduate, she was one of eight women students in her undergraduate class of 60, and in her Ph.D. program, she was the only woman in a research group of 15.

She sees that changing. "I see more and more women students coming in all the time," Lamble says. "I think society is undergoing some very encouraging changes: Stereotypes are being broken, roles are being shared and resources are being combined. If there's a barrier for women in science, society loses out too because it's not tapping into a large pool of talent." — Anita Cohen

At National Synchrotron Light Source beam line X11, Geraldine Lamble adjusts the vertical slits of the x-ray beam.

Alison Davenport, Applied Science

For most people, an interest in rust might well be considered one of the more unusual reasons to come to the United States.

But for a materials scientist like Alison Davenport, whose special interest is corrosion research, the U.S. offers some of the best career opportunities. At big facilities such as the National Synchrotron Light Source (NSLS), advanced techniques help provide new insights into the impact of corrosion on materials.

So, after finishing her B.A. in 1983, then her Ph.D. in 1987, both in materials science at Kings College, Cambridge, Davenport applied for research posts at several U.S. scientific institutions. She accepted a postdoctoral offer in BNL's Department of Applied Science (DAS). Two years later, in 1989, she became an assistant scientist and now works in DAS developing new techniques to study the early stages of corrosion.

Said Davenport, "I find it especially interesting to be able to do fundamental research on what are very practical problems. For example, one problem is the replacement of chromates, which are widely used both as corrosion inhibitors and in corrosion-resistant coatings. But they are toxic and using them means coming under ever-stricter environmental controls. So we are trying to find some nontoxic replacements."

To find possible nontoxic replacements for chromates, Davenport and her colleagues are studying the chemistry of chromates using x-ray absorption techniques at the NSLS. She explained that most surface analytical techniques have to be used in a vacuum, but x-rays can be used in the wet environments where corrosion takes place.

"Since x-rays are not yet widely used for corrosion research, we have a great advantage with the NSLS here on site," said Davenport. "And now we've just got a scanning tunneling microscope and an atomic force microscope in the lab," she continued. "So we'll be able to study corrosion effects in wet environments with atomic precision."

Davenport has always wanted to be a scientist. "I had a lot of help in high school from some very enthusiastic science teachers, most of whom were women," she recalled. "My earliest favorite subjects were biology and biochemistry. But in choosing what to do at university, most school-leavers thought that the only options were biology, physics and chemistry. I decided on chemistry."

Once at Cambridge, Davenport found out about materials science. "I thought I'd like its multidisciplinary aspect, so I switched," she said. "Later, I became interested in corrosion, which brought in a good deal of my original choice of chemistry."

Davenport said that she has never felt discriminated against as a woman. In fact, she has received "much encouragement" from male colleagues, "though I am aware that being one of the very few women in my field makes me more conspicuous than a man of my age doing the same work. This can be an advantage or the reverse — depending on how the work is going."

Typically, though, Davenport said, "If you ask most men, they'll say there should be *more* women in science." — Liz Seubert

Healey

(cont'd)

a contracts administrator. Healey was recognized by the NCMA as a certified professional contracts manager in November 1984. Named Assistant Manager of DCP in October 1986, Healey became Acting Manager in November 1990.

But Healey has been doing even more than rising steadily through the ranks of DCP. Taking advantage of BNL's Tuition Refund program, she returned to school in September 1988, entering the four-year, evening law program at Touro College in Huntington. Attending classes four nights a week, Healey expects to attain her law degree in May 1992.

Arrivals & Departures

Arrivals

Do-Hyung Lee.....App. Science
Robert R. Gaschott.....S&EP
Yongseog Jeon.....App. Science

Departures

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

Mary Ann Drapkin.....Nuc. Energy
Joseph P. Sullivan.....Cent. Shops

Outreach Workshop
Parenting Your Parents

Often, about the time that children move out of the house to become independent of their parents, their grandparents move in to become the new dependents. So the parents of the house must take on a new role — parenting their own elderly parents.

Emotionally, taking care of an aging parent is more demanding a job than caring for a child because, while a child will grow increasingly independent, an aging parent can only become more dependent.

"Caring for Elderly Parents or Loved Ones" will be the topic discussed at the seventh Outreach workshop sponsored by BNL's Employee Assistance Program (EAP). To be presented by Maureen Dervin, C.S.W., the two-part workshop will take place on two Tuesdays, March 5 and 12, from noon to 1 p.m. in Room B, Berkner Hall. Bring your lunch. To encourage open discussion, the program will not be audiotaped.

Dervin will outline the physical, financial, social and emotional tolls that aging and chronic illness take on individuals and their families.

She will examine adult children's feelings of being overwhelmed, having to do it all for aged parents; of guilt, as they carry out other responsibilities besides elder care; and of being alone, with no support services or advice. Encouraging open communication between adult child and elderly parent, she will explore ways that the two can become partners in the care process, thereby promoting the elderly parent's self-sufficiency as much as possible.

A certified social worker as well as a registered nurse, Maureen Dervin is a counselor and psychotherapist in private practice in Southampton. In addition to her expertise on the care of the elderly, disabled or ill, Dervin has extensive experience working with children, adolescents, individual adults and families having other developmental problems.

To register for this workshop, return the bottom portion of the white Outreach flyer that was sent to all employees last week to Staff Psychologist Donna Friedman, Bldg. 490. For more information about EAP and its Outreach program, call Ext. 4567.

Special Blood Drive Slated

Declaring a victory for the U.N. coalition, President Bush announced on Wednesday night that all offensive operations against Iraq in Operation Desert Storm have been suspended. Some six hours later, Saddam Hussein declared a cease fire for his Iraqi troops as well.

Long before this announcement, Long Island Blood Services had scheduled a special, one-day blood drive, to be able to respond immediately to any emergency call for whole blood or blood components that may be needed for American service men and women wounded in the Persian Gulf.

Should the war resume, more blood may be needed for the wounded. But in any case, the blood will be welcome and will be used. There is always a chronic need locally for types O and B blood, as well as for platelets.

This special blood drive will take place on Monday, March 11, from 10 a.m. to 3 p.m., in the Brookhaven Center. Appointments for this special campaign are a must, and they must be obtained from Blood Drive Chairperson Susan Foster, Ext. 2888, by Wednesday, March 6.

The goal is to draw approximately 225 pints of blood. Those who last gave during BNL's regular December blood drive or more than eight weeks ago may give again.

Adult Swim Lessons

Adult swim lessons will be given at the BNL swimming pool for eight weeks beginning Wednesday, March 6. These beginner and intermediate classes cost $25 for eight weeks of lessons on successive Wednesdays, from 5:15 to 6:15 p.m. Register at the pool on the night lessons begin.

Equipment Demo

The lines of medical and office equipment and supplies represented by Diversified Trade International will be displayed in Berkner Hall, on Thursday, March 7, from 10 a.m. to 3 p.m.

These product lines include: safety equipment and supplies; gloves; pharmaceutical and over-the-counter drugs; syringes; identification bracelets; Puritan products; examination tables, lamps and chairs; and illuminators and imaging accessories.

Trip to U.S. Open

The BERA Tennis Committee has scheduled a repeat of its popular bus trip to the U.S. Open Tennis Championships at the National Tennis Center in Flushing. On Tuesday, September 3, the bus will leave from the Lab tennis courts parking lot at 8:30 a.m. and make one or two stops at Park & Rides on the Long Island Expressway. The bus will depart from the National Tennis Center at 7 p.m.

The cost of the trip is $33 per person, which includes one $20 ticket for the day session and the round-trip bus fare. Paid reservations are now being accepted at the BERA Sales Office, Berkner Hall. Sign up early, as there are only 49 seats available on the bus.

Some Seats Left For Atlantic City

A few seats are still available for the BERA-sponsored bus trip on Saturday, March 9, to Trump Castle Hotel and Casino on the Marina in Atlantic City. The initial cost is $20, but the hotel/casino will give a $12.50 coin return, $4 towards food and a $5 deferred-return bus voucher.

Tickets can be purchased at the BERA Sales Office in Berkner Hall. For more information, call Louisa Barone, Ext. 3347.

In Memoriam

BNL retiree **Karl Peterson** died last Friday, February 22, at the age of 75, following a one-car accident in Islip. He was buried in Calverton National Cemetary on Tuesday, February 26.

Peterson joined the Lab's Central Shops Division in July 1968 as a machine maintenance mechanic. He was promoted to machine tool rebuilder in October 1969 and then named a machine tool rebuilder group leader in April 1977. Peterson retired from BNL on January 30, 1981.

A Port Jefferson resident, Peterson is survived by his wife Vera, and two daughters, Iris Barosa and Sonia Fordham.

Coming Up

The Mannes Trio will appear in concert at 8 p.m. in Wednesday, March 13, in Berkner Hall. Their program will include Beethoven's Trio in E-flat major, Op.1, No.1; contemporary composer Rebecca Clarke's Trio; and the Trio by French composer Maurice Ravel.

Tickets can be purchased at the door for $12, general admission; $9, students and people over age 65; and $5, children under 18.

Pick a Student

Applications for two summer programs run by the Office of Educational Programs (OEP) are available for review through March 8, from 9 a.m. to 4:30 p.m., in the Solarium, Bldg. 490, Medical Department. Use the Clinical Research Center entrance and follow the signs.

- **Summer Students** — Junior and senior undergraduates receive 10-week research appointments, June 10 to August 16. OEP pays individual stipends of $200/week and round-trip transportation. Sponsoring department pays housing at $75/week.
- **Summer Interns** — Similar to above except appointments are offered to students who have participated in prior High School Honors Programs conducted by DOE. Generally, students are finishing freshman year of college, but may be recent high school graduates. OEP pays all costs associated with these students.

For more information, call OEP, Ext. 4503.

Inside Info

Scientist **Jeffrey Coderre**, Medical Department, was honored with an "Award for Excellence in Research" by the Sidney Melanoma Foundation last December, at the fourth International Symposium on Neutron Capture Therapy for Cancer in Sidney, Australia.

A one-time award, the certificate was presented to Coderre in honor of the success that he has so far enjoyed during his young career as a biochemist in the field of experimental radiotherapy.

In 1989, Coderre received a three-year, nuclear-medicine research grant from the U.S. Department of Energy's Office of Energy Research, to ascertain the clinical feasibility of boron neutron-capture therapy (BNCT) as a treatment for human malignant melanoma.

Specifically, Coderre is testing the boron-containing compound called p-boronophenylalanine (BPA), which he synthesized for BNCT of melanoma. BPA is one of the most promising tumor-specific compounds developed for BNCT to date.

Hospitality News

"Speaking With Your Doctor" will be the topic of the next Hospitality Committee get-together on Tuesday, March 5, at 9:30 a.m., in the Brookhaven Center. Registered Nurse Maxine E. Wofse, who is a clinical instructor and the Wellness Coordinator in the Department of Nursing Education and Research at Brookhaven Memorial Hospital Medical Center, will be the guest speaker.

Wofse's talk will cover such topics as physician selection, pre-visit preparation and patient-doctor communication.

Join us for this informative presentation. Spouses of Laboratory employees and guests are welcome. Coffee, tea and danish will be served; baby-sitting will be provided free of charge.

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

BROOKHAVEN BULLETIN

Published weekly
by the Public Affairs Office
for the employees of
BROOKHAVEN NATIONAL LABORATORY

ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor
LIZ SEUBERT, Reporter

35 Brookhaven Ave., Upton, N.Y. 11973
(516) 282-2345

Softball Captains

There will be a softball captains' meeting on Friday, March 22, at noon, in Berkner Hall, Room B. All preliminary rosters must be turned in at this meeting. Anyone interested in forming a team or finding a team on which to play should call Martin Leach, Ext. 3813; Tirre Farmer, Ext. 3288; Bob Brown, Ext. 3569; Andrea Epple, Ext. 4424; or Denise Miesell, Ext. 5873.

Bowling

Red/Green League

A. Pinelli had a 257, C. Scarlett 247, R. Mulderig 243, R. Larsen 223/212/208 for a 643 scratch series, H. Arnesen 218, W. Powell 217, S. Dimaiuta 214, P. Ouvrard 213, K. Asselta 208, R. Wells 206, A. Warkentien 204, C. Bohnenblusch 201.

White League

Paul Callegari had a 215, Andy Warkentien 213/200, Ken Batchelor 203, Debbie Keating 202, Jim Petro 202, Lynne Warkentien 201, Ken Riker 200, Fran Brown 194, Ellie Adams 190, Jeanne Penoyar 181, Annamarie Spira 180.

Purple League

Rich Larsen had a 224, Rich Scheidet 212, Pat Manzella 207/188, Joe Ferrante 200, Sharon Smith 194, Nancy Erickson 181, Karen Jacobs 180.

Cafeteria Menu

Monday, March 4	
Soup: Chunky chicken noodle	.75/.95
Entree: Oven-roasted turkey divan & 1 veg.	3.10
Entree: Sauteed veal Marsala	3.10
Fitness: Chef's choice & 1 veg.	3.10
Carvery: Hot pastrami sandwich	2.85
Grill: Grilled chicken cutlet	2.85
Tuesday, March 5	
Soup: Corn chowder	.75/.95
Entree: Crispy fried chicken & 1 veg.	3.10
Entree: Braised beef Bourguignon & 1 veg.	3.10
Fitness: Stuffed shells w/marinara sauce	3.10
Carvery: Hot roast beef sandwich	2.85
Grill: Grilled Monte Cristo	2.85
Wednesday, March 6	
Soup: Puree of split pea	.75/.95
Entree: Salisbury steak & 1 veg.	3.10
Entree: Baked potato w/broccoli & cheese sauce	(each) 1.50
Fitness: Chicken cacciatore & 1 veg.	3.10
Carvery: Hot Black Forest ham sandwich	2.85
Grill: 3-D burger	2.35
Thursday, March 7	
Soup: French onion	.75/.95
Entree: Creamy seafood linguine & 1 veg.	3.10
Entree: Deluxe vegetable quiche & 1 veg.	3.10
Fitness: Chicken fajitas & 1 veg.	3.10
Carvery: Hot corned beef sandwich	2.85
Grill: Spicy sloppy Joe on bun	2.35
Friday, March 8	
Soup: Spicy Manhattan clam chowder	.75./95
Entree: Baked fish & 1 veg.	3.10
Entree: Braised beef tips a la Deutsch & 1 veg.	3.10
Fitness: Cheese enchiladas & 1 veg.	3.10
Carvery: Hot turkey sandwich	2.85
Grill: Tuna melt	2.35

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.

The vacancies listed below have been exempted by the Director's Office from the current freeze on open requisitions.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

LL 8549. ENGINEERING POSITION - Requires a BS degree in civil engineering with a minimum of five years' related experience, as well as knowledge of applicable federal, state and county codes and regulations is essential. A PE license is desirable. Will be responsible for civil engineering and related environmental responsibilities of the Laboratory site, including groundwater monitoring, surface-water management, and site sanitary sewer and storm sewer improvement projects. Responsibilities include preparation of preliminary sketches, working drawings, specifications, estimates and field inspection services. Plant Engineering Division.

Motor Vehicles & Supplies

89 HONDA ACCORD LX - 4-dr. sedan, 19k mi., ext. warr., excel. cond., $12,500. Jerry, 363-6908.

89 T-BIRD - full power, 32k mi., 100k mi., warranty, excel. cond, $10,000. Jeff, Ext. 5262.

88 MUSTANG GT - all options except moonroof, garaged, alarm system, excel. cond. Ext. 2981.

88 FORD F 250 4x4 PICKUP - heavy-duty, p/s, p/b, a/t, metal cap w/tool boxes, am/fm cass., $8,000 neg. 696-0813.

87 NISSAN STANZA GXE - ac, loaded, good cond., $5,000. Ext. 2610 or 924-5272 eves.

87 FORD RANGER XLT PICKUP - 4wd, long-bed, sunroof, sliding rear window, V-6 EFI, blue, pinstriped. Charlie, Ext. 7749 or 325-0968.

87 DODGE D150 4x4 PICKUP - snowplow, a/t, more, $7,500 neg: '87 Ford F250 4x4 pickup, a/t, 54k mi., V-8, more, $8,500 neg. Harry, 395-4039.

87 BRONCO II XLT - 5-spd., ac, cruise, p/w, 30k ext. warr., visor, running boards, alarm, more, excel. cond., $9,000. Susan, Ext. 5149.

86 CHRYSLER NEW YORKER - turbo, white/vin., leather int., 4-dr., full spare, cruise, more, excel. cond., $6,300. Jim, Ext. 4040 or 289-0876.

86 HONDA ACCORD - 2-dr., a/t, ac, am/fm cass., 46k mi., excel. cond., $6,995. JoAnn, Ext. 4120 or 689-7963.

86 COLEMAN POP-UP - Columbia, sleeps 6, gas stove, excel. cond., $2,200. Tom, Ext. 4439.

85 SUBARU XT - 5-spd., am/fm, sunroof, light blue, good cond., 757-1973.

85 FORD LTD WAGON - 6-cyl., ac, a/t, 68k mi., excel. cond., $3,800. Barbara, Ext. 2456.

85 NISSAN PULSAR - 5-spd., ac, p/s, p/b, am/fm stereo, sunroof, 77k mi., excel. gas mileage, v.g. cond., asking $2,700. Kathi, Ext. 7661.

84 OLDSMOBILE FIERENZA - 2-dr. h/b, a/t, p/s, am/fm, 2-tone white/beige, runs well, $600. Phil, 286-1348.

83 FORD ESCORT - good body, runs, good for parts, leaks oil, $200. Henrique, Ext. 5089 or 928-8280 eves.

83 OLDS DELTA ROYALE - metallic brown, a/t, p/w, cruise, fully loaded, 80k mi., orig. owner, $2,500. Chan, Ext. 4059.

82 CHEVETE - 4-dr., h/b, needs work. Ken, 924-6893.

82 PLYMOUTH HORIZON - 4-spd. trans., h/b, runs well, good cond., $600 or best offer. Alan, Ext. 4714 or 744-5093.

80 CHEVY SUBURBAN - 4wd, 403 Olds engine w/60k mi., no rust, $4,000. 929-4027.

80 FORD E-250 VAN - heavy-duty suspension, a/t, p/s, p/b, windows, new tires & brakes, good work van, $900. Jim C., Ext. 4150.

79 BUICK - s/w, clean in & out, low mileage, $1,200. Duke, Ext. 2957 or 289-3586.

79 DATSUN 210 WAGON - a/t, 73k mi., excel. mech. cond., very reliable, some body rust, asking $800. 821-6321.

79 FORD F-100 - 6 cyl., no rust, in good shape, $1,000 or best offer. 281-0832.

79 JEEP WAGONEER - runs well, high mileage, very clean in & out, $2,000. Mike, 467-8393.

78 MERCURY ZEPHYR - 84k mi., good tires, good cond., would make nice local car, asking $600. Keith, Ext. 5295.

78 THUNDERBIRD - body in good cond., rebuilt trans., new tires, $750. Vincent, 567-1168.

78 PLYMOUTH VOLARE - 4-dr., 6-cyl., p/s, p/b, a/t, clean, runs well, am/fm radio, asking $550. 924-8213 after 5 p.m.

78 FIREBIRD - reliable transportation, $500. Rich, Ext. 2043.

76 FORD CLUB VAN, new custom int., captains' chairs, sink & cooler, no rust, low orig. mileage, excel. cond., $3,500 neg. 878-4825.

76 BUICK WAGON - new tires, good cond., $500. Bob, 689-7963.

76 PLYMOUTH VOLARE - looks good, needs work, any reasonable offer over $200. Janet, Ext. 2345 or 929-3910 after 5 p.m.

62 CHEVY NOVA - 4-dr., 6-cyl., runs well. Bob, Ext. 4428 or 467-4222.

HEADLIGHT BEZEL - '40 Ford, $20; two hub caps, $10. Dan, Ext. 4987 or 698-7322.

CARBURETOR - rebuilt, for Ford club van, $35. 878-4825.

CAMPER CAP - for 7' bed truck, excel. cond, $150. Stan, 475-0532 or 475-3555.

Boats & Marine Supplies

19' BOWRIDER CRUISER - 1972, w/1976 115-h.p. Johnson, canvas, trailer, w/elec. winch, $2,500. Frank, Ext. 2314 or 567-5131.

16' MFG - with older 75-h.p. Johnson ob., Gator tilt trailer, needs some work, must sell. $295. Paul, Ext. 7697.

MOTOR - 40-h.p. Johnson ob., long-shaft, elect. start, excel. cond, $250. Bart. Ext. 4446 or 924-6761.

Furnishings & Appliances

ANTIQUE FURNITURE - from 1920 to 1938, mint cond., no reasonable offer refused, must sell. Tony, 698-0654.

CHAIRS - 2, walnut, $20; upright vacuum, $20; Victorian plant stand, $20; TV VCR cabinet, $20. Kathy, 744-2203.

COUCH - living room, good cond., $100. Ext. 2610 or 924-5272 eves.

COUCH - living room, Ethan Allen, dark oak. Peter, 475-0831.

DINETTE - chrome & glass table, w/4 upholstered chairs, stained glass ceiling light, $100/both. Donna, 563-1940.

DINING ROOM - maple oval table w/3 leaves, 2 armchairs, 4 side chairs, $500; china closet, $375, or $800/both. Arleen, Ext. 4519 or 924-6051.

BED - double w/headboard & shelf, with or w/o mattress, dresser. 928-6930 after 4:30 p.m.

DRESSER - 5-drawer, 39"x30", knee-hole desk, 30"x40", Formica tops, antique, green matching chair, good cond., $100 neg. 588-3999.

REFRIGERATOR - Sears Kenmore, 21 cu. ft., white, frost-free, $100. Carol, Ext. 3325 or 3315.

REFRIGERATORS - Caloric, almond, 14.3 cu. ft., frost-free, 1½ yr. old, $250; GE, 15.5 cu. ft., frost-free, 3 yr. old, $275. Connie, 277-0335.

SINK/STOVE/REFRIGERATOR - combo for small apt.; Singer sewing machine, wood cabinet; 6 Thomasville chairs. 399-1868.

WASHING MACHINE - Sears Kenmore, full size, almost new, $150; drafting table, white, almost new, $25. Bettie, Ext. 3046.

WINDOWS - 5, good, $25; tabletop wine press, $50; Spanish upright cabinet, w/stereo, 8-track, RP, $30; 2 end tables, excel., $25/pair. 878-6637.

Tools, House & Garden

CIRCULAR SAW - Black & Decker, 7¼", like new, $30. Al, Ext. 7588.

FIREWOOD - seasoned, hardwood, cut, split, delivered, $125/full cord. Dave, 331-4629 leave message.

FIREWOOD - seasoned, split, delivered locally, $130/full cord. 924-2035.

GENERATOR - Winco, 2,000W, excel. cond., $300. Bart, Ext. 4446 or 924-6761.

KEROSENE HEATER - Sears Kenmore, 12,500 Btu/hour, 1.6 gal. tank capacity. $75; ceiling fans, Codep, w/light fixtures, $65/ea. Bettie, Ext. 3046.

KEROSENE HEATER - KeroSun Omni 105, $65. Jeff, Ext. 5262.

LAWN MOWERS - Snapper, 21" cut, w/bag, $175; Snapper, 21" cut, w/out bag, $125; Jacobsen super bagger, $150. Dan, Ext. 4987 or 698-7322.

LAWN TRACTOR - Sears, ride-on, 10-h.p., 38" cut, $225. Neal, Ext. 2254.

OPTICAL FLAT - 5", good both sides, Micro Tone, w/case. Peter, 475-0831.

SAW - Milwaukee Sawsall, brand-new, extra blades, w/case, $150. Janet, Ext. 2345 or 929-3910.

WORK BENCHES - heavy duty, 72"x30", hardwood top, steel legs, $30; Sears revolving work station, $50. Bill, Ext. 4986 or 563-1940.

WORKBENCH - 8', 1½' pipe legs, 2 drawers, 2" solid top, $50; 15' wood extension ladder, $20. Peter, 475-0831.

Sports, Hobbies & Pets

WEIGHT BENCH - Weider Bodyblaster, leg ext., incline/decline, like new, $75. Jeff, Ext. 5262.

EXERCISE BIKE - Aerobic Point 25, $25. Peter, 475-0831.

RUNNING TRACK - Sears Lifestyler, motorized, variable speed, variable incline up to 15 deg., orig. $1,000, asking $600. R. Karol, Ext. 5272.

GOLF CLUBS - color computer monitor; leather weight-lifting belt; fish tank; racquetball racquet. Georgia, Ext. 2384.

GUITAR - classical w/hard case & extras, $150. Russell, Ext. 7539.

SKI LIFT PASSES - 2 for Stratton, 1 for Sunday River, Maine. Raka, Ext. 4727.

SKIS - Kneissel, cross-country, 180cm, w/poles, excel. cond., $80. Les, Ext. 2920.

HOME SPA - Whirlpool, like new, used three times, $30. Pat, Ext. 3807.

Audio, Video & Computers

COMPUTER - Commodore 64, printer, color monitor, like new, best offer. G. Williams, 286-3863 eves.

COMPUTER - Aquarius, w/data recorder, printer, word processing., finance management software, 2 game cartridges, $45/all. Ext. 2679 or 472-6922.

JACK LALANNE MEMBERSHIP - Gold Card lifetime, dues paid through 1992, $850 value, best offer. 665-0331.

COMPUTER - IBS-640 memory, 2-floppy drives, printer. 399-1868.

SPEAKER - 15", Stevens Tru-Sonic, mint cond., w/horn tweeter, $125. Bart, Ext. 4446 or 924-6761.

TV - 41" pro screen, NEC stereo, 3 yr. old, excel. cond., warranty, $1,700. Jeff, Ext. 5262.

VCR - VHS, Emerson, AC/DC slimline, w/infrared remote control, used only 6 mo., $150. Cora, Ext. 7681.

Miscellaneous

HIGH CHAIR - baby's, good cond., $30. Ext. 2582.

OPERA TICKETS - 2, Metropolitan, Monday, April 8, 8 p.m., Mozart's *La Clemenza Di Tito*, 3rd row balcony, $27/ea. Carmen, Ext. 4135.

OPERA TICKETS - 2, Metropolitan, Saturday, March 30, matinee, rear orchestra, *Il Puritanni*, $53/ea. Joyce, 289-5770 eves.

Lost & Found

FOUND - woman's glove, gray, in Bldg. 426. Maggie, Ext. 3275.

Yard & Garage Sales

BOHEMIA - Sat. & Sun. March 2 and 3, moving to Florida, 440 8th St. 567-1168.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed, sex or national origin of the applicant.

For Rent

HOLBROOK - 1-bdrm. apt., eik, full bath, l/r, priv. ent., partially furn., 20 min. to Lab., new flooring, $550/mo. incl. util. + sec. 472-0430.

HOLTSVILLE - large studio w/fp, kitchen, bathroom, cable, priv. ent., no pets, driveway parking, $600/mo. all. 472-3254.

LAKE PANAMOKA - 2-bdrm. ranch, deck, large property, eik, d/r, l/r w/fp, full bsmt., w/d, priv. beach rights, 5 min. to Lab., avail. Mar. 3, $750/mo. + util. 929-3407.

MASTIC - 2-3 bdrm. large apt., d/r, eik, priv. ent., gar., city water, avail immed. $700/mo. Jim, 281-2849.

MEDFORD - 1-bdrm. apt., l/r, eik, deck, priv. ent., full bath, no children or pets, 15 min. to Lab., w/w, cable, $575/mo. + electric. Bobbie, Ext. 2456, 654-1993 after 5 p.m.

N. SHIRLEY - 1 bdrm., l/r, full bath, kitchen, priv. ent., $525/mo. incl. util. Peter, 981-1232 days or 395-4749 eves.

PATCHOGUE VILLAGE - 1-bdrm. apt., furn. or unfurn., walk to town, use of fenced-in yard. 289-7902, leave message.

PORT JEFFERSON STATION - 1-bdrm. apt., l/r, eik, bath, quiet area, 30 min. from Lab., priv. ent., single pref., $500/mo. all. 757-1973.

SHIRLEY - 3-bdrm. house, 1 bath, quiet area, near Smith Point bridge, fenced yard, $825/mo. + util. 757-1973.

SOUND BEACH - 1-bdrm. apt., full bath, kitchen-l/r combo, cable, priv. ent., $600/mo. incl. all; also, 2-bdrm. apt., bath, l/r, eik, near all, $675/mo. + elec. Ext. 2671 or 744-3284 after 4 p.m.

SOUND BEACH - 3-bdrm. ranch, full fin. bsmt., 2-car gar., 1½ baths, deck, fenced yard, all appl., Miller Place SD, 15-20 min. to Lab., $1,000/mo. + util. 744-4185.

YAPHANK - 4-bdrm. restored Victorian, patio, 5 mi. to Lab, large treed property. Ext. 4342, 924-4872 or 924-3066.

CLAREMONT, NH - 2-bdrm. condo, 40 mi. to Killington, Okemo, Magic Mt., Mt. Sunappe, $300/wk., $225/wknd. Frank, Ext. 7749.

CATSKILLS - 3-bdrm. chalet w/sleeping loft, full furn., near Hunter & Windham Mts., great for skiing. Kay, Ext. 4501 or Bea, Ext. 3642.

HILTON HEAD, SC - 2-bdrm. condo on golf course, avail. Mar. 30-Apr. 6, sleeps 6, spa, golf, tennis & pool. Pat, 698-4372 or 914-923-1108.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, 2 baths, beach, pool, tennis, golf, Feb. $250/wk; Mar., $450/wk. 689-5378.

N. MYRTLE BEACH, SC - 1-bdrm. condo, sleeps 4, tennis, fitness in/outdoor pool, 3 golf courses, beach rights, March/April, $250/wk. Joann, 472-6742.

For Sale

BOHEMIA - Connetquot SD, 10-rm. house, large deck, $200,000, no brokers. 567-1168.

CENTEREACH - 3-bdrm. Cape, country eik, new bath, w/w, Andersens, recessed lighting, bsmt., full fenced, gar., agp, low taxes, family neighborhood, walk to all, $125,000. 588-9452.

CORAM - Les Jardins, 1-bdrm. co-op, 5 appl., den, 2nd floor balcony, walk to shopping, 15 min. to LIRR Ronkonkoma, 20 min. to Lab., $78,500. Rich, Ext. 5540.

CORAM - Strathmore East, 4-bdrm. ranch, 2 baths, cathedral l/r, 2-car gar., gas heat, fenced corner lot, $120,000. Ext. 3791 or 928-7154.

MASTIC BEACH - 3 bdrm., stone fp, walk to beach & marina, $95,000. 399-1249.

MIDDLE ISLAND - 3-bdrm. ranch, eik, den w/fp, d/r, l/r, 1½ baths, screened porch, patio, full bsmt., wooded ½ acre, $149,500. 924-6051.

RIDGE - 2-bdrm. house in adult community Leisure Knoll, ac, newly carpeted & decorated, walking distance to rec. hall, pool, tennis, lots of extras, 5 mi. to Lab, $135,000. 744-3366.

BALLSTON SPA, NY - 4+ bdrms. restored Victorian, l/r, d/r, eik, 1½ baths, shy ½ acre, 5 min. from Saratoga & track, agp, dead-end street, $94,900, also rent. Doug, 928-6848.

Wanted

BASKETBALL BACK - hoop & net, pref., wall attachment. Peter, Ext. 5983 or 878-4080.

HOUSEMATE - room in a 4-bdrm. house, Ridge, 4 mi. from Lab., $350/mo. + ¼ util. Mike, Ext. 2671 or 924-2865.

HOUSEMATE - to share 2-bdrm. house, share kitchen, bath, l/r, den, w/d, cable incl. $400/mo. 395-3408 after 6 p.m.

LAWN MOWERS - old, complete, for parts and to repair. Dan, Ext. 4987 or 698-7322.

MOTHERS & TODDLERS - to meet every Wed., 9:30-11:30 a.m. in Rec. Bldg., all welcome, esp. those w/young children. Terry, Ext. 3009.

NORDIC TRACK EXERCISER - reasonable. Carol, Ext. 3325 or Ext. 3315.

REPAIRMAN - Fuji camera closure, reasonable. Bettie, Ext. 3046.

SLIDE RULES - and related items. George V. Ext. 4584 after 6 p.m.

TOYS - gently used for donation to BNL mother and toddler group. Vivienne, Ext. 3011 or Terry, Ext. 3009.

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.*

ALARMS - computerized, residential, installed, fire/burglar/central station monitoring, also painting, wallpapering, free est. James, 395-6055.

AUTOMATIC LAWN SPRINKLERS - free est., prof. layouts, repairs, alterations & additions, prompt, courteous service. Lou, 928-7042.

BACKHOE SERVICE - town water lines installed inside & out, dry wells & trenches w/small machine, low rates, free est. 929-8876.

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

CARPENTER - 18 yrs. exp., all phases, seeking small jobs, sheds, decks, etc. Kevin, 758-2653.

CARPET/UPHOLSTERY CLEANING - spot, pet stains, odor removal, auto interior, fabric protector, free est., Lab discount. Jerry, 924-6019, days.

CERAMIC TILE - installation, baths, kitchens, foyers, etc., quality work, cheap prices, all types of tile. Patrick, 475-8504.

CHILD CARE - Calverton-Riverhead area, reasonable rates, refs., upon request. Darlene, 369-9884.

CHILD CARE - Middle Island mom will provide love and care to your child, 5 min. to Lab., refs., reasonable. Cathy, 924-2205.

ELECTROLYSIS - certified, chin, lip, back, etc., very private, serious calls only. 821-3305, leave message.

FACIALS - non-surgical facelift, take 2-10 years off your face. 399-1868.

FINANCIAL - maximize retirement benefits, informative free seminar on individual basis throughout March. Rich, 744-4816.

FLOOR COVERING & REPAIR - custom work, stripes, borders, printing in carpet. Mark, 981-9075.

HANDYMAN - all phases of home improvement, licensed & insured. Ed, 928-7539.

HOME IMPROVEMENTS - complete carpentry service, roofing, siding, decks, windows, extentions, licensed & insured. Joe, 399-0828.

HOUSE CLEANING - in business 6 yrs., weekly, bi-weekly, residential, commercial, refs. Dina, 924-3915.

LAND CLEARING - excel. rake on 450 loader, $70/hr. w/operator. Tom, Ext. 4507 or 878-1060.

LANDSCAPING - construction, clean-ups, shrubs & trees, decks, RR-tie walls, masonry, brick patios, free estimates. Dennis, 395-6055.

LAWN MOWER - and small engine repair, all types, reasonable rates. Dan, 698-7322.

LOCKSMITH - sales & service, 10% Lab discount, keys cut during lunch. Pete, Ext. 5105 or 399-2813 after 5 p.m.

NURSING CARE - certified nursing assistant, companionship, housekeeping, quality care. Lorraine, 929-6433.

PAINTING - interior, exterior, spackling, wallpaper. James Gibbs, 399-4912.

PAINTING - exp., carpentry, decks, sheds, water sealing, shingle repair, etc. Peter, 475-8406.

PARTY TENTS - 20'x20' w/side curtains, we set up and take down, $250/38 hr. 321-2889.

PHOTOGRAPHY - black & white/color professional portraits, copy work, restorations, location work. Michael, 447-6413.

ROTOTILLING - Troybilt, custom service, gardens & lawns, 25 yrs. exp. Bob, 732-9517.

SHEETROCKING & SPACKLING - free estimate. Kevin, 563-9855.

SKYLIGHTS - complete, prof. service, cleaning, preventive maint., installations. Joseph, 924-6019.

TAXES - income taxes prepared, BNL discount. 395-5713.

TAXES - prepared by top consultant, your home or mine, reasonable, servicing Lab people for over 15 yrs. John, 732-2472.

TREE SERVICE - pruning, removal, stump grinding. Bob, 727-2346.

TRUMPET OR CORNET LESSIONS - reasonable rates, taught by experienced, advanced student musician. Bill, 399-0676.

TUTOR - certified in special ed., elementary ed, social studies, teach learning strategies, study skills, reasonable rates. Donna, 821-3739.

TYPING - complete desktop publishing, 20 yrs. exp., Lab discount. 281-0268 until 9 p.m. daily.

WATER TREATMENT - If your water tastes funny, has an odor, treat it easily, economically, ecologically, no chemicals. Marilyn, 878-0939.

WINDOW CLEANING - all work squeaky clean, reliable, courteous. 928-3189 after 4 p.m.

In Appreciation

We would like to thank everyone for their thoughtfulness upon our departure from the Lab. We will never forget, nor replace, the memories and friends we've made while at Brookhaven. We will miss you all. — Bettie & Cosmore Sylvester

We would like to thank all our BNL friends for their expression of sympathy during our loss of Dad. — Chris & Pam

Classified Ad deadline is 4:30 p.m. Friday for publication Friday of the next week.