BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Brookhaven Begins Multipatient Clinical Trial of BNCT

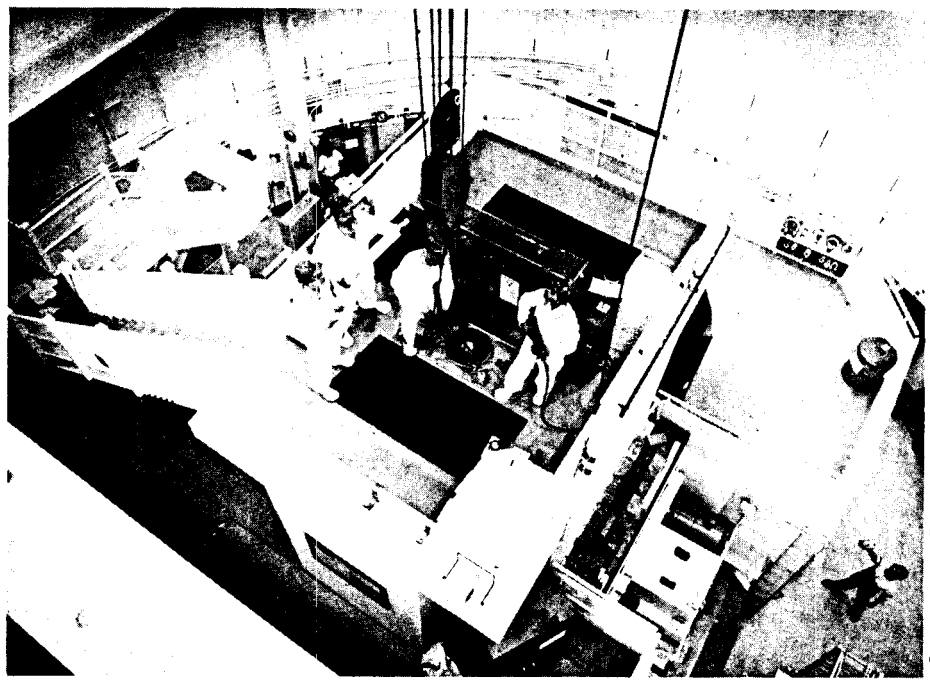
Continuing its ongoing research on boron neutron capture therapy (BNCT), Brookhaven's Medical Department has begun a multipatient clinical trial on patients with glioblastoma multiforme.

A type of brain cancer, glioblastoma multiforme affects about 7,000 Americans each year. Life expectancy is limited, with only a few percent of patients surviving beyond five years.

Under the protocol sanctioned by the U.S. Food and Drug Administration, which became effective this month, Brookhaven will administer BNCT to a total of 28 patients, and the trial is expected to take about a year to complete. Collaborating with the Lab on this project is Beth Israel Medical Center in New York City.

Darrel Joel, Chairman of BNL's Medical Department and a member of the BNCT research team, said that a primary objective of this study is to determine whether BNCT, under the conditions administered, is a safe treatment for glioblastoma multiforme.

Previously, BNL's approach had been applied to a patient on September 13, 1994, under a single-patient FDA-sanctioned protocol.



Roger Stoutenburgh

Atop the Brookhaven Medical Reactor, where boron neutron capture therapy is done, (from left) Hungyuan Liu, Michael Niewiarowicz, Robert Brugger and Henry Hauptman prepare the epithermal neutron beam.

BNCT: A Radiation Therapy

In BNCT, a compound containing the element boron is administered intravenously to the patient, in whom it accumulates preferentially in malignant tumor tissue. The tumor is then irradiated with low-energy neutrons produced by a nuclear reactor. Some of the boron atoms react with neutrons and then self-destruct, releasing powerful but very short-lived radiation selectively in the tumor.

Because the boron concentrates preferentially in the tumor cells, researchers hope that the cancer can be destroyed without the radiation's seriously affecting adjacent normal brain tissue.

BNCT History

BNCT is not new. It was pioneered at BNL in the 1950s, and the Brookhaven Medical Research Reactor (BMRR) was built specifically to test the therapy. Clinical trials at Brookhaven and at another reactor at the Massachusetts Institute of Technology were halted in 1961 because the results were disappointing. The boron compound used at that time did not preferentially accumulate in the tumor. Also, the low-energy neutron beam did not penetrate deeply enough into the patient's head to destroy the tumor without harming surrounding healthy tissue. Out of the 63 terminally ill people who volunteered for the treatment, most died of their tumors and several actually died one or two months earlier than expected from radiation-induced damage to their brains.

Though clinical trials ceased, BNL researchers continued to explore the promise of BNCT. It was the late Ralph Fairchild, said Joel, "who was the principal driving force that kept BNCT alive at BNL through the 1960s and 70s, and he was the key player in the design and testing of the first epithermal neutron beam at the BMRR."

That beam has been further enhanced recently and is one of two new developments that have improved BNCT. The other is a new boron compound called BPA, which has been developed for use in treating malignant brain tumors principally at BNL.

The new combination — an epithermal neutron beam and BPA — has been very successful in animal studies, leading BNL researchers to try again using BNCT in clinical trials with humans.

BNCT of brain tumors is also being studied in Japan, where a limited number of patients are treated each year in an experimental program, and in Europe, although researchers there have not yet applied the therapy to humans. The boron compound BSH is used in Japan and is the compound presently being considered for BNCT in Europe. Brookhaven's research with animals has suggested that BSH may be less effective than BPA for BNCT.

The Clinical Trial at BNL

Because BNCT is considered experimental, Brookhaven's multipatient study is designed to establish the safety, the potential adverse effects and possibly the effectiveness of the therapy.

Patients eligible to participate in the clinical trial must meet certain criteria: At a minimum, they must be age 50 or over and must not have had any form of radiation or chemotherapy for their brain tumors. Other factors are also considered, such as location of the tumor.

To prepare for the clinical trials, Joel said that many people from various organizational units have worked tirelessly over many months. In addition to Medical Department staff, he credited collaborators from the Departments of Neurosurgery and Radiation Oncology at Beth Israel Medical Center, and personnel in the Reactor Division for preparing the BMRR for patients, the Plant Engineering Division for renovating areas of Bldg. 490 as necessary, the Safety & Environmental Protection Division for reviewing safety issues, the Public Affairs Office for handling calls from patients and their families inquiring about BNCT, and the Director's Office for addressing difficult administrative problems.

The BNCT program at Brookhaven is funded by the Office of Health and Environmental Research, within the U.S. Department of Energy's Office of Energy Research. — Mona S. Rowe

Lab's On-Line Phone Book Improved

It's a common frustration around the BNL site: You need to contact someone — perhaps a visiting user at one of the Lab's many scientific facilities, or an acquaintance whose last name you didn't quite get — and you can't find them in the printed phone book. What to do?

For more than four years, BNLers have had a second source: the computerized version of the Lab phone directory, reached via the INFORM system run by the former Technical Information Division, now part of the Information Services Division (ISD). But updates to the on-line directory didn't always happen in a very timely fashion.

All that has changed. Since last December, INFORM's phone directory has had a new face, and a much more dynamic and user-friendly one at that.

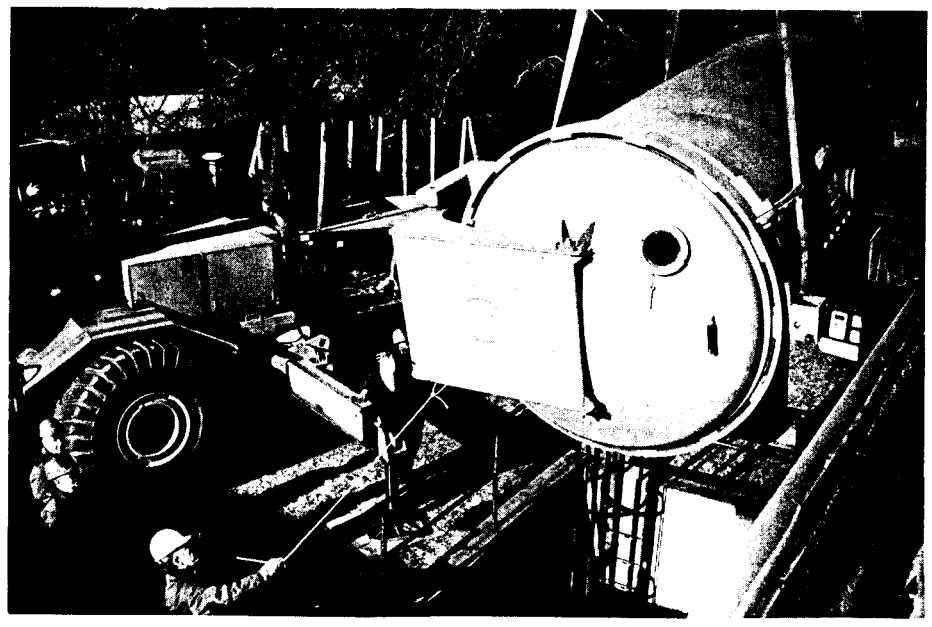
Now, BNL computer users may look someone up knowing only a first or last name, an e-mail address, or even what a name sounds like. And, most important, the information will be up-to-date: BNLers' names, phone extensions, e-mail addresses and other data can be changed in the on-line directory as often as the information changes, by trained representatives in each department, division or group.

The new system was designed by Betsy Schwartz, ISD. It includes options like searches and reports sorted by department code, building or phone extension, as well as routine name searches. Searching by a name will turn up anyone with that name, whether it's their first or last name. You can narrow the search by specifying a second parameter, or broaden it by using an asterisk at the end of part of a name; this "wildcard" asks the computer to search for any name that includes that root. For example, searching for "Rich*" will give you all Richards, Richmans and Richardsons.

Schwartz is completing personal training sessions with department representatives this month. Representatives are the only ones able to make changes, additions and deletions to the directory — including adding temporary visitors and students; adding

(continued on page 2)

Great Flying BNL Altitude Chambers!



Roger Stoutenburgh

Long Island may be rich in yard sales, but, at BNL, the leftover equipment of completed projects can save the bother of making even a short trip off site to look for bargains. So, when Stephen Springston and his group within the Department of Applied Science's Environmental Chemistry Division needed an altitude chamber to simulate flight conditions in testing airborne atmospheric monitoring equipment, they did not have to look far. A vast cylindrical tank, once used in the Medical Department for inhalation toxicology experiments, just fitted their requirements. So, on January 10, Plant Engineering Division riggers (in crane) Bill Sassono, (back, from left) Ken Wenger, Charles Spillett and Larry Johnson, headed by George Oldham (center, front), loaded the 12,000-liter tank onto the Lab's Pettibone crane and "flew" it from Medical to its new home in the basement of Bldg. 815. There, in the tank chamber, air pressure of altitudes ranging from sea level to 25,000 feet can be simulated. This allows equipment for monitoring all sorts of trace gases, from oxides of nitrogen to carbon monoxide to ozone, to be tested before an experimental flight, which is both safer and more cost efficient than putting untried instruments in an aircraft.

Some Heavy-Duty Recycling at Plant Engineering

If and when a major snowstorm hits this winter and it's time for Plant Engineering (PE) Division employees to salt BNL's roads, the two vehicles they'll use will look, well, a little different from the usual salt trucks.

Sure, they'll have heavy-duty bodies to carry four cubic yards of salt and a spreader, room for four crewmen to sit and bright lights to help in difficult driving conditions. But they were built that way for an entirely different reason — the two vehicles are actually "recycled" BNL fire trucks.

The trucks served the BNL Fire/Rescue Group as recently as autumn 1993, but were retired upon the arrival of new vehicles and sent to the salvage yard.

Last July, PE's Slim Blevins recognized that the trucks could be adapted for use as rigging and landscaping vehicles. Shortly thereafter, PE's heavy equipment mechanic operators stripped the 1979 Ward La France and 1980 American La France of their tanks and pumps in the PE garage, and gave them new fuel tanks, exhaust systems and drive shafts. Larry Lopez Truck Equipment Manufacturing Co. in Medford built and installed new flat steel bodies with removable sides, and a clean white paint job by Thrift Auto and Truck Painting of Coram completed the transformation.

Roger Stoutenburgh

Before and after: The two fully equipped BNL fire trucks, shown above in July with Plant Engineering (PE) employee Michael Curtis, were transformed into customized Plant Engineering utility vehicles (above), with the help of (from left) PE's Kevin Barnes, William Sassano, Charles Yezek and John Braband.

The total cost of both overhauls was $10,900, far less than the $35,000 that Site Supervisor Roy McWilliams estimates one new utility vehicle would cost. The new additions to PE's fleet can carry 11 tons, more than several existing rigging trucks, and have an additional advantage for winter use, McWilliams said.

"Previously, in order to put the salt bodies into service, we had to take the body off a truck and install the salt body," he explained. "But with this flat body, the trucks are heavy enough that you can set the salt body right on top, and quickly disconnect it."

Despite the mild winter so far, the salt trucks have made their debut on several icy mornings and for the one substantial snowfall, on Saturday, February 4. But they won't be idle in the spring: They'll be used then to carry crews and equipment on landscaping and rigging jobs. With their solid construction, automatic transmissions, diesel engines and low mileage, McWilliams said that he expects the reincarnated trucks to have a long and useful second life. —Kara Villamil

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, February 27, at 6 p.m. in the Knights of Columbus Hall, Railroad Avenue, Patchogue. The agenda includes regular business, committee reports and the president's report.

Addled Addresses

- 50 Brokhaven Avenue
- Brookhaven Ant Lab
- Brookhaven N Laborator
- Brook Laugh Nat. Lab
- Brookhaven National Lav
- Brookhaven Natural Labs
- Nal L. Natio

Note to Employees:

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

On-Line Phone Book (cont'd

extra phone numbers, fax numbers and pager numbers; and correcting errors that may have crept into the data file. The updated version will form the foundation for the 1996 printed copy of the site phone book.

So, now that many of the representatives have updated their files and the on-line directory is the most up-to-date version available to BNL employees, how do you use it?

To Connect to INFORM . . .

There are two ways to connect to the INFORM system. Using your telnet software, type: telnet inform.bnl.gov and log in as "inform." Or, if you have a World Wide Web browser such as Mosaic or Netscape, click on the hypertext link to the Information Services Division, then on the INFORM link. This will start a telnet link, so click on "BNL users" or "BNL on-site access" and log in at the prompt as "inform."

At the INFORM menu, select option 9 for the phone directory, hit "Enter," then select option 1, "Search and Generate Reports," hit "Enter" again, and find yourself in the search menu. From there, you can opt to search for a person in several different ways, to generate a report, or to view the information printed in the "Yellow Pages" of the regular phone book, such as department listings and Long Island zip codes.

If you choose to generate a report listing people in any given department or building by name or by phone extension, you may print the file to your local printer, a printer in ISD, a disk, or even an e-mail file.

Check the list below for the name of a representative in your area. Let him or her know of any changes in your own information, and that of visitors and employees who must be added to or deleted from the directory. And be sure to look *yourself* up in several different ways, to check your information and familiarize yourself with this new and dynamic phone directory.

— Kara Villamil

The INFORM Update Team . . .

The following BNLers have agreed to help their departments and divisions update information on the INFORM system's telephone directory. By the end of March, all will be trained in how to use the directory's many functions and keep records current and accurate. Find the one in your area on the list below, or contact Betsy Schwartz, Ext. 2758, e-mail bjs@bnl.gov, to find out who represents your specific area. The list is also available on-line, by choosing menu option 5 from the INFORM telephone directory menu.

Dept.	Representatives	Bldg.	Ext.
AGS	Dolores Collins	911B	4619
	Paula Hughes	911B	4619
AUI	Elinor Adams	134	5221
	Donna LeDoux	134	5174
Bio.	Kathy Folkers	463	3415
	Donna Zadow	463	3415
Bud.	Sol Rosario	460	5494
CCD	Linda Dombrowsky	515	4109
	Maria Gatz	515	5196
Chem.	Jean Petterson	555	4302
	Bonnie Hulse	555	4301
CSD	Richard Spellman	462U	3351
DAS	Pat Taylor	179A	2452
DAT	MaryAnne McGrath	197C	2815
DCP	Deborah Botts	355	7218
	Barbara Simpson	355	7643
DO	Beth Blevins	460	5630
Fisc.	April Donegain	134A	2459
	Sue Perino	134A	2483
Inst.	Mary Riddick	535B	7167
ISD	Arline Willsey	477A	3490
Med.	Dennis Joyce	490	2360
!MIS	Rosemarie Busch	459	7815
NSLS	Lynette Bennett	725	2150
OER	Maureen Barcelo	51	2818
OEP	Dawn Mosoff	438	4503
	Catherine Osiecki	438	4503
OMC	Jean Matkovich	490	3670
OTT	Maria Yanez	902C	3341
PA	Kara Villamil	134	5658
PE	Phyllis Domenech	134C	5799
	Pam Montag	134C	2477
Pers.	Dorothy Marelli	185	2285
Phys.	Leesa Allen	510A	2700
Reac.	Pam Yerry	120	4070
RHIC	Pam Manning	1005	4072
	Mary Campbell	1005	2719
	Vera Mott	902A	7108
	John McNeil	902B	7215
	Audrey Blake	902B	5382
SEP	Louisa Morrison	535A	4208
SMD	Kiesha Mack	211	4401
S&SD	Nancy Griffin	50	4177
SSD	Joan Perullo	179B	5843

In Memoriam

David Niebuhr, who was a senior technical specialist in the Computing & Communications Division, died on February 1, at the age of 53.

Niebuhr came to the Lab as a computer operator III in March of 1965, becoming a computer operator II, then I, in 1966 and 1967, respectively. In 1972, he was made a technical specialist, and five years later, a computer operator shift supervisor. He attained his senior technical specialist position in 1983.

During his 30 years at the Lab, Niebuhr performed a wide variety of functions. His supervisor in Systems Support Services, Susan Sevian, recalled that he taught himself all kinds of program languages and was known for complete reliability — always being there when he was needed. In the '70s and '80s, among other responsibilities, he ran the large mass storage system whereby users could transfer data for off-line storage. More recently, he was responsible for machine accounting and the network operation center.

Sevian spoke for all her group in remembering that "Dave was always willing to interrupt whatever he was doing to help out a colleague. We'll all miss his selflessness, his special talents and his quiet dedication."

David Niebuhr was a resident of Mastic Beach. He is survived by his wife Barbara; four daughters, Kathleen, Sharon Ann, Patricia-Ann-Marie and Cheryl Jessica; his son, Laurence; and four grandchildren.

•

The following retirees passed away recently.

Nathan Levenson, who retired from the Mechanical Engineering Division (MED) on May 31, 1973, died on November 7, 1994, at the age of 86. Levenson joined MED on July 15, 1965, as a design engineer II, a position he held until his retirement. Three years later, he returned to the Lab, on December 17, 1976, serving as a guest design engineer in the Accelerator Department until October 9, 1981.

Malcolm Johnson, who was acknowledged as the Lab's oldest retiree in the November 23, 1994, special issue of the Brookhaven Bulletin, died on January 7. He was 95 years old. Johnson was hired on October 17, 1949, as a technician A at the Brookhaven Graphite Research Reactor. He spent 15 years at the Lab before retiring on December 31, 1964, as a technical specialist II in the Physics Department.

Fred Meisenzahl, who retired from the Central Shops Division (CSD) on June 28, 1974, died on January 19. He was 85 years old. He had started at the Lab on August 10, 1959, as a metal worker in General Shops B, which became CSD the following year. When he retired 15 years later, he was a master metal worker.

Doralizer Tavarez, a former custodian in the Staff Services Division (SSD), died on January 15. She was 67 years old. She started at the Lab as a temporary custodian in SSD for five months beginning May 17, 1976, then returned in a permanent position on January 10, 1977. She retired on June 2, 1989.

John S. Bookless, who retired from the Department of Applied Science (DAS) on March 31, 1988, but returned as a consultant from August 1988 to July 1992, died on February 1, his 72nd birthday. He had started at the Lab as a junior technical specialist in the Nuclear Engineering Department, on January 4, 1957. Thirty-one years after joining BNL and 19 years after transferring to DAS in January 1969, he retired as a senior technical associate.

George R. Eleazer, whose BNL career touched several areas, died on February 5, at the age of 61. He came to the Lab on April 21, 1969, in the Applied Mathematics Department, transferring to the Plant Engineering (PE) Division as a janitor in June 1969. In August 1970, he joined the then Plant Protection & Security Division as a firefighter, serving as fire captain from 1976 to 1978. After three months on long-term disability (LTD) in 1980, he returned as a custodian. Except for four months in the Staff Services Division in 1981, he spent his last four years at BNL in PE. After going on LTD in December 1984, Eleazer officially retired on December 25, 1985.

Marching Into a Busy Schedule for Women's History Month

Women's History Month will be observed throughout March at BNL, with some related activity to be found going on almost every workday of the month.

Women's Program Coordinator Victoria McLane said that while the month-long celebration focuses on women, "It is by no means for women only. The events are open—and should be interesting—to the entire Laboratory community."

Much of the Lab community has been involved in this cooperative effort, including: the Art Society and the Camera Club of the Brookhaven Employees Recreation Association, Brookhaven Women in Science (BWIS), the Information Services Division (ISD), the Employee Assistance Program (EAP) and the Health Promotion Program (HPP) of the Occupational Medicine Clinic, the Office of Educational Programs, the Office of Equal Opportunity, the Personnel Division, the Public Affairs Office and the Women's Programs Office.

The month's events will begin on Wednesday, March 1, with the opening of a new Camera Club exhibit. Featuring works by female club members and entitled "Through Her Eye," the exhibit will be on display outside the Cafeteria all month.

Also on display all month in the Berkner Hall lobby will be an exhibit highlighting prominent women, which will be updated each week and start with a display on "Women on Long Island."

EAP has planned three lunchtime programs that fit the month's theme: Outreach workshops on Tuesdays, March 7, 14 & 28, will focus on stress management, domestic violence and mothers and daughters, respectively. BWIS and HPP are teaming up to offer Healthline seminars on the Women's Health Initiative, on Tuesday, March 21, and on menopause, on Wednesday, March 29.

The month's other activities are centered around weekly themes:

• **Week of March 6, "Women in America"**— On Wednesday, March 8, which is International Women's Day, Barbara Kelly, Hofstra University professor and curator of the university's Special Collections, will give a noontime talk on "The Politics of House and Home."

• **Week of March 13, "Women in the Arts"**— On Thursday, March 16, historian Connie Koppelman, State University of New York (SUNY) at Stony Brook, will speak about "The Central Hall Gallery— Women's Art in the 1970s" at noon. And Tuesday through Friday, an arts and crafts exhibition, "Women-in-Art at BNL," will be on view at lunchtime, with an after-work reception on Tuesday. A Book Fair, organized by ISD with books provided by the Sou'wester Bookshop in Bellport, will be held on Wednesday, March 15, from 11 a.m. to 2 p.m.

• **Week of March 20, "Women in Education"**— Shirley Strum Kenny, the new president of SUNY at Stony Brook will deliver a BWIS-sponsored talk on Monday, March 20, at 3 p.m. in Berkner Hall; a reception will follow. Stony Brook will be one of the colleges represented in the Education Fair planned for the Berkner Hall lobby at lunchtime.

• **Week of March 27, "Women and Social Concerns"**— At the Help Fair in the Berkner Hall lobby on Monday, March 27, government and private groups will provide information on issues such as domestic violence and women's health.

Additionally, at various times throughout the month, appropriate videos will be playing during the noon hour in Berkner Hall. This program will begin with a series on "Women in America." Look for the dates for this video series in the calendar of Women's History Month events soon to be distributed to all employees. And look for more details about each event in the Brookhaven Bulletin for the preceding week.

Women's Arts, Crafts Needed for Exhibit

Attention, female Lab employees: Your most beautiful art or craft work is needed to exhibit in the "Women-in-Art at BNL" show, during Women's History Month (see story).

To enter an exhibit, call Elaine Lowenstein, Ext. 2400; Doris Rueger, Ext. 3743; or Liz Seubert, Ext. 2346; by Friday, March 3. Limited space could mean that some entries may not be able to be included in this show — but the Art Society-sponsored Labwide art and craft shows will be held as usual in the fall, so no work need stay unseen. Artwork and photography must be ready to hang, and all work must be labeled.

Women of Color, Women of History

It's fitting that next week should include days in both Black History Month, which is being observed throughout February, and Women's History Month, since women of color are also important women of history. Among the many notable black women who have helped shape history are two who rose from slavery:

• **Sojourner Truth** was born a slave in New York State in 1797, and was once sold for $100. After she was freed, she became an outspoken abolitionist and was known as "The Black Joan of Arc."

She made her points with actions as well as words. For example, Truth organized the first sit-in, refusing to leave President Abraham Lincoln's office until he dealt with the question of how the nation would help freed, unemployed slaves after the Civil War.

Sojurner Truth died in 1883.

• **Harriet Tubman**, born in 1826, helped more than 300 of her fellow slaves escape to freedom in the North via the Underground Railroad – and it is believed that she never lost a "railroad passenger." And no one ever collected the $40,000 bounty offered for Tubman, dead or alive.

Because she led her people to freedom, they called this former slave "Moses." She was also honored for her assistance to the Union Army during the Civil War. Tubman died in 1913.

Computing Corner

The following activities have been scheduled by the Computing & Communications Division.

Network News Change

During the week of February 27, CCD will move its Internet Network News service to a more powerful computer than the one on which it currently resides. In addition, the Usenet service will be getting the news it passes along from a new provider, a major telecommunications company, so articles should become more timely.

Though BNLers use a variety of news-reader programs to access Usenet, the transition should be relatively smooth for anyone who uses a program that reads the news using the computer named "news.bnl.gov". The fact that the article numbers will be slightly different on the new machine could cause a one-time adjustment to the news-reading program, though some programs will adjust to the change automatically.

Anyone with questions should contact Morris Strongson at Ext. 4192, or e-mail mms@bnl.gov.

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WordPerfect for Windows Users

The next meeting of the WordPerfect for Windows Users' Group has been scheduled for Tuesday, February 28, from 9:30 to 10:30 a.m., in the CCD seminar room, Bldg. 515. A demonstration of the BNL Employee Performance Evaluation WordPerfect template will be given as part of a discussion of the topic of using, editing and creating templates.

Arrivals & Departures

Arrivals

Vidyasagar S. Hejmadi ..... Biology
Anthony X. Millet ..... Saf. & Env. Prot.
Noh A. Park ..... App. Science

Departures

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

Orest E. Kawka ..... App. Science

Service Awards

The following employees had BNL service anniversaries during February:

30 Years

Yreana Renée Flack ..... Dir. Off.
Joseph F. Gatz III ..... Medical

25 Years

Elaine Taylor ..... RHIC

20 Years

Carl W. Anderson ..... Biology
Sydell Lamb ..... Biology
Louis A. Graziano ..... Plant Eng.
Heriberto M. Rosado ..... Sup. & Mat'l.
George T. Walczyk ..... Instrum.

10 Years

Gregory M. Condemi ..... AGS
Arnold N. Stillman ..... AGS
Vincent S. Wong ..... AGS
Diana L. Toledo ..... Biology
Walter F. Mangel ..... Biology
John P. Rubino ..... NSLS
Bessie M. Gardner ..... Plant Eng.
Veronica Varlack ..... Staff Serv.

Walking Club Talk

Get tips on managing and maintaining an exercise routine in your busy lifestyle on Thursday, March 2, from noon to 1 p.m. in Berkner Hall, when exercise physiologist Laura Tipaldo will speak to the BNL Walking Club. All are welcome; bring your lunch. For more information, call Ext. 5923.

Art Bus Trip Bound For Philadelphia

On Saturday, April 8, join the Art Society-sponsored bus trip to see the renowned Barnes Foundation collection of mainly Impressionist paintings, on show at the Philadelphia Art Museum. But first, stoke up on regional eatables while exploring the covered Reading Terminal Market, started by the Amish in 1892 and including over 60 fresh food stalls and lunch counters. Or quickly visit the nearby Liberty Bell or the 200 shops and restaurants at The Gallery at Market East, a few blocks away.

The bus will leave BNL at 6:15 a.m. and, after a coffee stop, get to Reading Market at about 10:45 a.m. At 1:30 p.m., rejoin the bus for the Art Museum, to arrive at 2 p.m. and see a slide show on the Barnes exhibit from 2:30 to 3 p.m., before taking a self-guided tour of those paintings and the rest of the museum until 5:15 p.m.Or visit other sites and meet the bus back at the market at 5:30 p.m.to return to BNL by 10:30 p.m., with a quick food stop on the way.

Cost is $21 for the bus and $13 for the Art Museum. For reservations or information, call Liz Seubert, Ext. 2346 or 286-8563.

Healthline Lecture And Screening

Healthy Future Through Nutrition

Learn up-to-date, accurate nutrition information and the current composition of your body at the next Healthline events, to be presented by registered dietitian Linda Folken and the American Heart Association (AHA).

Folken will speak on "Nutrition for the Future" in Berkner Hall on Tuesday, February 28, from noon to 1 p.m., discussing the latest research on vitamins and antioxidants, dispelling myths about butter vs. margarine and touching on other topics related to cholesterol and saturated fats.

Earlier the same day, from 8 to 11 a.m., the AHA will conduct computerized body-composition analysis screenings in Berkner Hall, Room C. For a $4 per person fee, the screenings will provide 90 preregistered BNL employees, spouses and dependents with data on their bodies' lean mass, fat content, body water and basal metabolic rate, or ability to burn calories. The fee is payable at the screening, but an appointment is necessary.

Linda Folken, M.S., R.D., chairs the Nutrition Task Force of the American Heart Association, Long Island Region. She is also the Senior Dietitian for Southside Hospital.

To register for the lecture, return the bottom portion of the Healthline flyer sent to all employees to: Mary Wood, Bldg. 490. For more information or to check on the availability of screening appointments, call Ext. 5923.

Tennis, Anyone?

The Tennis Committee will sponsor a Tennis Fun Night on Saturday, March 25, at the Eastern Athletic Club on Montauk Highway in Blue Point. With five courts reserved for BNL employees, family members and friends, the games will begin at 7 p.m. and end at 11 p.m. The cost of $20 per person must be paid before March 11. Contact Ed Gill, Ext. 7207, or Joe Carbonaro, Ext. 5139, for payment and further information.

Bowling

Red and Green League

J. Griffin 263/211/211/685 scratch series, E. Larsen 236/220/649 scratch, A. Liotta 234/617 scratch, K. Asselta 227/214/214/655 scratch, R. Pwrivo 227/224/637 scratch, R. Larsen 227/213/620 scratch, R. Wiseman 225, H. Arnesen 216, A. Warkentien 215, J. Cuccia Jr. 215, R. Raynis 215, S. DiMaiuta 212/200, J. LaBounty 211, R. Eggert 210/204, M. Palumbo 210, E. Sperry IV 200.

Purple and White League

Feb. 16: M. Meier 257/185/614 scratch, A. Warkentien 235/192/187/614 scratch with a clean sweep, E. Sperry III 212/184, K. Conkling 197, E. Sperry IV 195/189, J. Gormley 193, J. Biamonte 190, S. DiMaiuta 189, J. McCarthy 189, M. Reynolds 189, N. Fewell 188, J. Sheehan 188, M. DiMauita 186/179, K. Batchelor 186, S. Logan 185, E. Meier 184, D. Klein 183, K. Botts 182, S. Frei 181, E. Zukowski 181, G. Munoz 180, M. Picinich 179, C. MacDougal 178, D. Botts 176, S. Smith 170, K. Batchelor converted the 3/6/7/10 split.

Jan. 26: R. Raynis 219/180, J. Biamonte 214, S. Smith 204/171, S. Frei 196/184.

Volleyball

New standings as of February 21

League 1		League 3	
Rude Dogs	40-17	Silver Bullets	42-6
Network News	37-20	Take Five	39-9
Koopas	37-20	High Volley'em	28-19
Underdogs	19-38	Upton-Ups	26-22
Safe Sets	11-49	DO-DAT	19-29
		For Play	18-30
		Harlem Knights	10-38
		Bonnie's Bombers	9-38

Basketball

Scram 64		Deep Six 52	
Dennis Wallace	22	Charles Bennett	20
Steve Nappi	10	Tracey Fountaine	13
Al Boerner	9	Brian Hobson	7
Tim Powers	9	Calvin Butts	6
John Duggan	4	Dwayne Eleazer	2
Jim Rank	4	Jim Garrison	2
Victor Cassella	3	Neil Tyler	2
Joe Barkwill	2		
Pat Moylan	1		

Magic 69		Air America 63	
Terry Buck	23	Doug Aichroth	25
Troy Mayo	22	Louis Lalor	16
Ray Jackson	13	Angelo Bosco	8
Mitch Williams	5	Mike Mallardi	7
Pat Browne	4	Jeremy Middleton	5
Fred Maier	2	Alex Ratti	2

Three-point shots: Aichroth (2), Lalor, Mallardi, Middleton, Williams

Mustangs 52		Runaways 49	
Rich Domenech	21	Jerry Gaeta	14
Wayne Cummings	6	Chris Ingoglia	14
Lars Furenlid	6	Pete Ratzke	7
Jamie Sims	6	Jim Desmond	6
Hal Van Deroef	6	Neil Donahue	6
Greg Mack	5	Ron Mayo	2
Steve Springston	2		

Three-point shots: Desmond, Domenech (2), Ingoglia (3)

Cafeteria Menu

Monday, February 27

Soup: Autumn Harvest	.90/1.20
A la Carte: Char-grilled flank steak	3.95
Lite: Veg. & Roquefort-stuffed zucchini	3.85
Deli: Pastrami	3.20
Grill: Ratatouille skewers over rice	3.30

Tuesday, February 28

Soup: Hot & sour	.90/1.20
A la Carte: Turkey w/cranberry biscuits	3.65
Lite: Haddock w/tomatoes & ginger	3.65
Deli: Top round of beef	3.20
Grill: Turkey BLT tortilla	3.30

Wednesday, March 1

Soup: Beef barley	.90/1.20
Display: Oriental stir-fry	4.75
Deli: Pork dijon w/apple compote	3.20
Grill: Cornmeal fillet of fish	3.30

Thursday, March 2

Soup: Chicken gumbo	.90/1.20
A la Carte: Beef stew	3.85
Lite: Black bean burrito	2.95
Deli: Jerk lamb w/Caribbean slaw	3.20
Grill: Turkey chili in tortilla	3.20

Friday, March 3

Soup: Tomato & pinto bean	.90/1.20
A la Carte: Seafood & veg. scampi	3.95
Lite: Chicken Chablis	3.95
Deli: Corned beef & cabbage	3.20
Grill: BBQ beef quesadilla	3.30

Softball

A meeting of all softball captains will be held on Wednesday, March 8, at noon, in Berkner Hall.

Last Call: C/W Dance Lessons

The next session of beginner/intermediate classes sponsored by the BERA Country/Western Dance Club will begin on Tuesday, February 28, and run for 10 weeks, through May 2. Classes will be held from 5:30 to 7 p.m. in the North Room of the Brookhaven Center and cost $30 per person.

A six-week couples/partners session will also be offered in the near future at an additional cost.

To sign up, call Carmen Falkenbach, Ext. 2663; Lois Marascia, Ext. 3315; or Ginny Morante, Ext. 3555.

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.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 13203. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent experience, excellent organizational and communication skills, and a broad knowledge of Laboratory policies and procedures. Proficiency in WordPerfect, spreadsheets, and graphics/desktop publishing software is also required. Will provide secretarial/administrative support to the Manager and Deputy Manager of the Office of Environmental Restoration, including records management, commitment tracking, coordination of meetings and conferences, and the preparation of correspondence, presentations and reports. Office of Environmental Restoration.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

LS 3323. DESIGNER/DRAFTER POSITION - Requires significant design and field experience in industrial and commercial facilities, including electrical power, lighting, controls, and fire-alarm system design. Extensive experience in computer-aided electrical drafting using AutoCAD 12 on an IBM PC is also required. Certification from an accredited institution is desired. Responsibilities include preparing preliminary sketches, working drawings, specifications, estimates and field investigations for construction projects. Plant Engineering Division.

Motor Vehicles & Supplies

93 GEO TRACKER 4x4 - conv., p/b, p/s, ac, am/fm cass., 18k mi., ask. $10,500; '87 Isuzu Trooper II, 135k mi., ask. $2,500. John, Ext. 7313 or 395-5922.

90 DODGE RAM VAN 250 - high-top conversion, loaded, high mi., runs well, $3,950. John, 696-2961.

89 FORD TAURUS GL WAGON - orig. owner, full warr. thru July, 3rd seat, 93k mi., $4,300. Mike, 878-6296.

89 JEEP CHEROKEE - 4-dr., 4.0L, 4wd, a/t, p/s, ac, roof rack, 83k mi., new tires, batt. & exhaust, excel. cond., $8,500. Chris, Ext. 2022 or 395-6112.

88 OLDS FIRENZA - a/t, full power, cruise, ac, 4-dr., 90k mi., excel. cond., asking $2,800. Kai, Ext. 7546.

88 HYUNDAI - a/t, ac, 101k mi., very clean in/out, eng. needs work, $1,000. Ext. 2769.

87 TOYOTA SUPRA - 41k orig. mi., one owner, gar., 5-spd., black, mint cond., $7,500. Ext. 2799.

87 PLYMOUTH DUSTER - 2-dr. h/b, ac, p/b, p/s, am/fm, a/t, 55k mi., $1,200. Carlos, 399-6390.

85 VW JETTA - tan, v.g. cond., priced to sell, moving, $2,800. Mark, 924-0960.

85 FORD MUSTANG LX - 4-cyl., a/t, p/s, p/b, p/l, 85k mi., mint eng., needs body work, $600; 2 P225/75R14 Goodyear tires, new, $40 ea. 368-7207.

85 COUGAR - full power, ac, low mi. on motor, good rubber, runs well, great station car, dependable. Ed, Ext. 5462 or 929-4904.

83 CAMARO - V-6, sunroof, 4-spd., rebuilt eng., new struts, brakes, clutch, windshield, radiator, $1,750. Russ, Ext. 2350.

83 GMC S-15 PICKUP - supercab, 80k mi. many new parts, $2,300 neg. John, 345-5537 after 6:30 p.m.

82 CHEVY CAMARO - clean body, V-6, m/t, runs, parts or whole, $600. Tony, 298-1932.

81 TOYOTA TERCEL - 5-spd., needs head gasket, $250. Rich, Ext. 3354 or 589-9103.

81 CHEVY CAMARO Z28 - N. Carolina car, no rust, all orig., 85k mi., needs minor body work, $1,000. Kevin, 281-8031.

70 CHEVY JAVALIN 283 - Fuelie heads, Ford 9" rear, turbo 400 trans, good shape, fast. Anthony, 928-8010 after 7 p.m.

63 STUDEBAKER PICKUP - $750 neg.; BMW K75RT, ABS, 4.9k mi., under warr., elec. windshield/truck, bags, $8,900. Frank D., Ext. 2022 or 399-4480.

TRAILER - 1975 Argosy 24', sleeps 6, ask. $2,500. Mike, Ext. 4100.

TIRES - Uniroyal Laredo, P235/75R15, raised white letters, less than 500 mi. on Ford 150 rims, $300. Henry, Ext. 3413.

TIRES - 4, Goodyear, radial, P195/70R14, good cond., $20/ea., $60/4. Gene, Ext. 7113.

SERVICE MANUAL - '84 Honda Civic, 1.3/1.5, $2. Jack, 744-3919.

HANDBRAKE - 36", sheet metal, $125. 878-9492.

Boats & Marine Supplies

23' SAILBOAT - fg, fixed keel, sleeps 4, mooring dinghy, jack stands, 6-h.p. motor, sails in excel. cond., new windows, $1,800. Mike, 698-3967.

Furnishings & Appliances

BEDROOM SET - Lane, all wood, 7 pcs., excel. cond., best offer. 751-7847.

BEDROOM - modular, Formica, 10 pcs. incl. loft bed, tan & woodgrain, fits 9'x10' room, orig. $4,000, asking $1,500. Ext. 3492 or 734-2593.

CHAIRS - Ethan Allen, solid cherry bow-back, 4 side, orig. $199 ea., now $125 ea.; 2 arm, black, orig. $249 ea., now $175 ea. Eric, Ext. 5875.

COUCH - matching chair & coffee table/ottoman combo, $100. Pat, Ext. 5406.

CREDENZA - fruitwood, Medit., $50; table, glasstop, G/L base, 20"x60", $40; table, mirrored, $25; sconces, brass, formal, elec., $75 pr. 924-6940 after 7 p.m.

FREEZER - upright, large, $40. 363-7032.

HEADBOARD & FRAME - queen, fruitwood, $45; queen headboard, brass, $30. Ext. 4411.

KITCHEN TABLE - 36"x48", w/two 12" leaves, chairs,, $79. Jack, 744-3919.

KITCHEN TABLE - 42"x62", black Mica, w/glass top, 4 chairs, $400; 2 swivel barrel chairs, $100 ea. Lorraine, 462-6023.

LOVE SEAT- sofa, excel., $125; oak & glass table, 4 chairs, $150; apt. refrig., excel., $25; draftman's table, $25. Kathy, 744-2203.

STOVE - Hotpoint, elec. range, 1½ yr. old, $250; twin bed foundation, $20; fireplace screen & grate, $15. John, Ext. 4482 or 821-4280.

TABLES - l/r end tables, chrome/glass, $60/pr.; Lane coffee table, excel. cond., $60. 929-3235.

Tools, House & Garden

FLOOR WAXING MACHINE - prof., 20" General line brand, must see, like new, $450. Mark, 924-0960.

Miscellaneous

JACKET - Shoreham/Wading River Wildcats boy's school jacket, large, $13. Jack, 744-3919.

RING - diamond engagement, almost 1 ct., pear shape, 22 side stones, appraised at $3,000, asking $1,200. John, Ext. 7313 or 395-5922.

Sports, Hobbies & Pets

BIKE - 18-spd., 20" Diamond-Back mountain bike, mint cond., incl. helmet, chain, shoulder bag, $250. 467-0351.

KEYBOARD - Casio CT-655, stereo electronic, auto accomp., MIDI, like new, $100; bed & frame, single, mattress, $70 or best offer. Ext. 5704 or 399-7309.

SKI BOOTS - Nordica 725, size 8, $50. G. Williams, Ext. 3338.

TENT - 4-person Hillary dome w/rain canopy, great cond., ask. $65. Sue, Ext. 3305 eves.

DRUMS - twin toms, Opals. 363-7032.

Audio, Video & Computers

COMPUTER - Commodore 64, disk drive, monitor, make offer, no software. Joe, Ext. 3840.

MOTHERBOARD - ZEOS 386SX-16 w/math co-processor, 2 MB ram, also Vega Video-7 VGA card and I/O card, $125 takes all. Ted, Ext. 4589.

SOFTWARE - Minitab Statistical Software Relase 8, Extended, unopened, $40. Loretta, 744-5553.

VHS CAMCORDER - Magnavox #CVM310, 2 batteries, charger, 2 yrs. old, cost $950, now $550. John, Ext. 2769.

Free

COCKER SPANIEL - Please adopt me, my name is Pepper and I love kids. Pam, 369-3307 after 6 p.m.

FIREWOOD - many hardwood trees stacked up some pine, lots of kindling, bring saw, backhoe avail. to help you load. Frank, 234-0538.

23' THUNDERBIRD - f.g. hull w/cuddy cabin, excel. cond., no motor, no trailer, you haul away. Ed, 281-1832 eves.

Car Pools

HICKSVILLE & HUNTINGTON - BNL-sponsored van pool, passengers needed, est. cost under $100/mo. Ron, Ext. 2175.

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

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, religion, sex, age, national origin, disability or veteran status of the applicant.

For Rent

BELLPORT SOUTH - 1-bdrm. apt., furn., sep. ent., full bath, cac, quiet area, single nonsmoker pref. 286-8740.

CENTER MORICHES - 1-bdrm. apt., 1st-floor wing of home, 2 priv. ents., use of yard. w/d, furn., avail. immed., nonsmokers, $575/single, $600/couple, incl. all. 878-6760.

FARMINGVILLE - furn. 1-bdrm. apt., priv. ent., cable, util., single nonsmoker, no pets, $650/mo. + sec., refs., avail 3/15. Patricia, Ext. 2907 or 758-3952 after 6 p.m.

CALVERTON - 2-bdrm. condo, 5 appl., ac, patio, upper deck. Ext. 7595.

MILLER PLACE - 2-bdrm. apt., new and clean, pvt. ent., bath, kit., 20 min. BNL or SUNY, own thermostat, ac, 2-car off-street parking, nonsmoker, no pets, $850/mo. incl all. Doan, Ext. 7535 or 345-0462.

PORT JEFFERSON STA. - large 1-bdrm. house, l/r, d/r, eik, lg. deck, priv. area, no pets, 1 mo. sec., $700/mo. Mike, Ext. 7861 or 698-3967.

RIDGE - 2-bdrm. condo, 1½ baths, l/r, d/r, kit., outside storage, d/w, w/d, carpeted. Kathy, Ext. 2267 or 395-6520 after 6 p.m.

WADING RIVER - cozy 3-rm. apt. w/eik & bath, single nonsmoker, no pets, avail. now, $500/mo. incl all. Janet, Ext. 2345 or 929-3910.

YAPHANK - restored 4-bdrm. Victorian house, 1½ baths, lg. country kit., lg. property, 4½ mi. from Lab, avail. now. Linda, 924-4872.

YAPHANK - 1-bdrm. townhouse apt. to share, 5 min. to Lab, pool, tennis, split util. Arlean, Ext. 2387.

VERMONT - ski house near Mt. Snow, sleeps 7, $125/night, 3 night min. Lloyd, Ext. 5225 or 627-7589.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, beach, golf nearby, tennis on site, $300/wk. Feb./March. Guy, Ext. 3147 or 689-5378.

HILTON HEAD, SC - villa, sleeps 8, l/r-d/r, kit., 2 baths, Jacuzzi, hot tub, heated pool, sauna & steam rm., terrace, fully furn., week of 4/1, $900. 473-1658 after 6 p.m.

CANCUN, MEXICO - timeshare, 5 stars, sleeps 2-6, avail. week of 4/8 & 7/1, $75-$200/night, on beach and poolside. Bob, Ext. 3259 or 473-6950.

For Sale

BRIGHTWATER FARMS/BAY SHORE - 3-bdrm. Col., eik, fd/r, l/r, den, laundry, 2 full baths, bsmt., Andersens, new driveway/walks, fenced, patio, quiet, 35 min. to Lab, $135,000. Bill, Ext. 2762 or 665-3782.

CALVERTON - 2-bdrm. condo, 5 appl., carpeted, cac, fp, patio, upper deck. Ext. 7595.

CALVERTON - Marlette 1972 mobile home, 3 bdrms., full bath, kitchen, dining room, l/r, cac, immac., must be 55 or older, $500/mo. covers all, maint. fee, asking $14,000. Faye, 588-8113.

EAST MARION - beautiful 1 acre bldg. lot, adjacent to Greenbelt, walk to Sound. 325-0447.

HOLTSVILLE - 2-bdrm. ground floor co-op, eik, ceiling fan, 2 acs, great location, excel. parking, pool, gym, tennis, scenic view, ask. $69,000. G. Jahnes, Ext. 2550 or 654-0407 eves.

MASTIC BEACH - 9-rm. high ranch, 5 up, 4 down, 2 baths, 2 kit., det. 1-car gar., lg. property, more, $115,000. Ed, Ext. 4667.

MIDDLE ISLAND - 3-bdrm. ranch, ½ acre, l/r, d/r, eik, 1 bath, partial fin. bsmt., back & front decks, fenced back yard, mint cond., red. to $109,900. Jeannine, 924-3746.

RIDGE - 3-bdrm. Colonial, l/r, d/r, new kit., new rugs, oil heat, 1½ baths, full bsmt., gar., Florida rm. w/spa, screened porch, fenced yard, city water, sewers, $125,000. Ext. 2168 or 744-4948.

RIDGE - 3-bdrm. townhouse, 1½ baths, lg. l/r, 5 min. to Lab, $69,900. 924-4734.

RIVERHEAD - 2-bdrm. mobile home, 12'x65', w/d, all appl., co-op park, will sell for $20,000 or rent w/option. Beth, Ext. 4986 or 369-4295.

SHOREHAM - 4-bdrm. Clarendon Colonial, eik, fd/r, l/r, den w/fp, 2½ baths, prime area, igp, estate grounds, many extras, $336,500. Bob, 821-0695.

WADING RIVER - 3-bdrm. Colonial, 2½ baths, 2-car gar., custom kit., Jennair, gazebo, shed, igs, igp, deck, steam bath, satellite dish, SWRSD, 1.1 acre, $209,900. 929-8323.

WADING RIVER - 3 bdrm., 2 bath, l/r, d/r, OHWH, 0.53 acre, c. 1900, fully remodeled, new kit., patio, porch, shed, ½ mi. to beach & park, low expenses, taxes $2,600. $157,000. Bill, Ext. 2906 or 929-6189.

WASHINGTON, NC - 1.13 wooded acres, waterfront community, pool, clubhouse, marina, 35' boat slip on the Pamlico River, off the Intercoastal Waterway, $38,000. Ken, 281-5565.

GILMANTON, N.H. - wooded lot, ¾ acre, deeded rights to Crystal Lake, excellent for all-season second home, eager to sell, $8,500. Mike, Ext. 4061.

PORT CHARLOTTE, FL - ¼ acre bldg. lot, developed neighborhood, ready to build, $9,000. 929-8323.

TAMARAC, FL - 1-bdrm. condo, 1 bath, powder room, screened porch, fully furn., $32,000. 325-1907.

TAMPA, FL - 2-story, double-front doors, across from pond, 3 mi. from Busch Gardens, priced to sell/or best offer. Mark, 924-0960.

Wanted

BEEKEEPER - to help me get started. Jörg, Ext. 5653.

BIKE - girls, 16", good cond. 325-1907.

COMPUTER - Vintage IBM/clone w/printer, software, and manuals, for child, reasonable price. Michael, Ext. 2081.

DRAWING TABLE - Anco-type, adjustable, 23"x31", all wood. John, 765-1299.

DRAWING TABLE - all wood, Anco, 38"x48" w/parallel edge, if possible. Frank, Ext. 3120.

PEOPLE - who want to improve public speaking; come and join Toastmasters International. Daryl, Ext. 7892, or Jan, Ext. 4894.

MINIBIKE - or small dirtbike, for 10 yr. old, good running cond., reasonable. Ext. 5750 or 821-6151.

OLD OIL PAINTINGS - and prints, any cond. Tim, Ext. 4297.

PICKUP TRUCK - or Blazer, older models, decent shape, also want VW cars or parts. Rich, Ext. 2943.

SKIERS - to ski Hunter 3/8, send $42 for bus & lift by 3/1 to Augie Hoffmann, Bldg. 510C.

USED FURNITURE - don't throw it out, desperately needed, greatly appreciated, immediate pickup. Margaret, Ext. 2529 or 588-7989 eves.

WHITEWATER RAFTERS - for trip Sept. 23-25, Gauley River, WV. Ext. 3492 or 4514.

Farewell Gatherings

RETIREMENT PARTY - for Betty Pergan, 3/29, 6-10 p.m., Sunland Manor, Brookhaven, open invitation, call for details. Ellen, Ext. 2816.

The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste.

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