BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

# Brookhaven Goes Worldwide With the World Wide Web

What would you call a computer tool that allows you to get at nearly all of the Internet's vast resources using one piece of software?

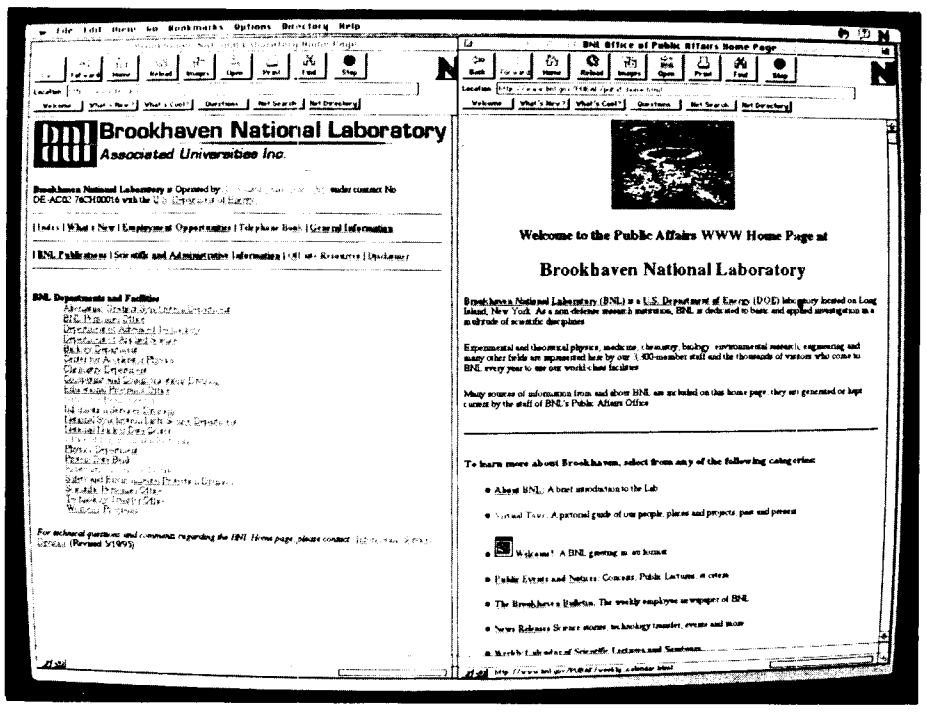
One that, with the click of a mouse on a picture or word, transports you instantly to a database, a document, a discussion or a digitized image located halfway around the world?

One that is growing exponentially in every direction and doesn't seem in any danger of stopping?

For many who have already discovered it, there's no question: It's the World Wide Web, or WWW for short.

From a concept first developed at CERN, Europe's particle accelerator laboratory, the WWW has become the hottest phenomenon in the already red-hot Internet world. And with good reason — it allows computer users to access many of the different kinds of information on the Internet, no matter what format or location they're in. Plus, it does so with a user-friendly interface full of graphics and colors.

The WWW is nothing new to BNL — the Lab has been on the Web in some form since just after this section of the Information Superhighway was first paved.




Roger Stoutenburgh

**As shown by these two BNL World Wide Web home pages — at left, the BNL Home Page, and, at right, the Public Affairs page — the face of the Web changes often. Shortly after this picture was taken, the BNL page was revamped, to include even more options.**

### BNL Weaves its Web

In 1992, several BNLers from the Physics Department and the Computing & Communications Division (CCD) were present at the WWW's "coming out" party at a CERN demonstration during a conference on computing in high energy physics. "Everyone immediately saw the possibilities, and we came back glowing," said Arnold Peskin, CCD.

Less than a year later, free software began appearing to allow people to access the brand-new Web. Interest took off, and WWW began to eclipse other ways of accessing Internet resources. "It was the graphical part that made it interesting," said Tom Schlagel, CCD.

Soon, BNL had its first home pages, or information sites, that could be accessed using CERN's WWW software. For instance, by 1993, the High Energy Theory group of the Physics Department had its own home page, which gave group members and others access to preprints of scientific papers and documentation about the group's computers.

Today, less than three years later, dozens of Web home pages originate from BNL computers, providing access to thousands of documents.

CCD provides space on its server computers for BNLers who want to establish Web pages, and it offers storage for documents that employees download for faster retrieval in future on-line sessions. CCD also has established a working group to deal with issues related to the Web, and it maintains the computer that acts as BNL's Internet news, or Usenet, server.

Meanwhile, the Information Services Division (ISD) helps Lab organizations prepare their information for the Web and maintains a main home page that provides access to most other BNL home pages.

### A Powerful Tool

Hundreds of BNLers access the Web every day from their desktop computers, using it to find reference materials, read scientific publications complete with graphs and charts, or keep up on the latest news on topics related to their work. Special software, such as Netscape and Mosaic, allows access to the WWW through central Lab computers, or servers, that have Internet access.

Using these browsers, as the software packages are called, anyone who has a reasonably powerful computer with fast network access can view and download the myriad text, pictures, animations and sounds that the Web offers. Others can use the text-only Web browser, Lynx, available from CCD.

How does the WWW work? Its main feature is the use of HTML, a special language that allows words or pictures on a home page to be "linked" to a file on the same computer or to a home page somewhere else entirely.

(continued on page 2)

## Protein Data Bank: New Browser for Easy Access

The power of the World Wide Web (WWW) to transmit color graphics and text over a computer connection has already intrigued many (see main story). But a new home page on the Web includes a tool that promises to let researchers, students and industrial scientists take full advantage of a BNL-based resource: the Protein Data Bank (PDB).

The PDB, centered in the Chemistry Department, is a repository for computerized structural information on more than 3,000 biological macromolecules. While researchers have long been able to access PDB files through their computers or, more recently, receive it on compact discs, they haven't been able to search the entire database for molecules that meet their needs — for example, pharmaceutical design.

Now, with the help of a new browser program created by BNL's David Stampf and Clifford Felder of Israel's Weizmann Institute, Web users can search the PDB according to many parameters and view their selections in full color on their screens, or download them to their computers. The browser is also available to anyone as X-windows-based software. To reach the PDB on the WWW and view molecular structures using the browser or in a collection of images, point your Web browser to: http://www.pdb.bnl.gov/ or use the hypertext link on the main BNL home page.

— K.V.

### *Joint BWIS-Medical Department Seminar*

## Programmed for Suicide: How Cells Die

Even as you read this article, a few of the billions of cells in your body are shrinking, squeezing the DNA out of their nuclei and preparing to die. It's a normal process that happens in every living thing, but biologists are still struggling to find out exactly why and how cell death comes about.

While they search for clues, general consensus has arisen that the root of this phenomenon lies with cells' own genes — that cells possess the instructions for their own demise. The process is called apoptosis. There's no better place to look for lessons in how apoptosis happens than in cells that *won't* die: ones whose DNA has been mutated by exposure to certain agents known as mutagens and carcinogens.

Research geneticist Suzanne Morris is among those investigating how these immortal cells elude their fate, through her work at the U.S. Food and Drug Administration's National Center for Toxicological Research (NCTR).

On Wednesday, July 26, in a seminar cosponsored by Brookhaven Women in Science (BWIS) and the Medical Department, Morris will discuss her research, as well as results indicating that DNA-damaged cells can suppress or escape the genetically programmed signals for apoptosis.

**Suzanne Morris**

The seminar, titled "Programmed Cell Death (Apoptosis) and the Response to DNA-Damaging Agents in Human Lymphoblastoid Cells," will be held at 1:30 p.m. in the large conference room of Medical, Bldg. 490.

Cell-death studies have implications far beyond the basic understanding of living things. "From a human health viewpoint, both inappropriate apoptosis and resistance to apoptosis contribute significantly to disease," Morris said. For example, malignant cancers are masses of cells that keep living and dividing long after they should have perished; altered function in "cancer genes," including p53 and bcl-2, may help cells resist death. On the other hand, recent results show that apoptosis might be the reason that functional cells die in patients with AIDS, Alzheimer's disease and Parkinson's disease.

A member of NCTR's staff since 1979, Morris has developed methods for quantifying cells that are undergoing apoptosis and for distinguishing dead cells from dying ones. In 1993, she was named "Woman of the Year" in the Scientific and Medical category of the Federal Women's Program. She has been elected to Sigma Xi and other honorary organizations.

Morris's background in physiology and genetics dates to her bachelor's degree from the University of Florida in 1970, her master's from Virginia Polytechnic Institute and State University in 1972, and her Ph.D. from Purdue University in 1976.

Coffee and tea will follow Morris's talk. To join the speaker for dinner at Lombardi's Restaurant, Middle Island, at 6 p.m., call Joan Terry, Ext. 3361.

## NMC Honors Louis Snead

The Nuclear Materials Committee (NMC) presented a Distinguished Service Award to BNL Physicist C. Lewis Snead Jr., Head of the Applied Technology Division (ATD) of the Department of Advanced Technology, in Feb-

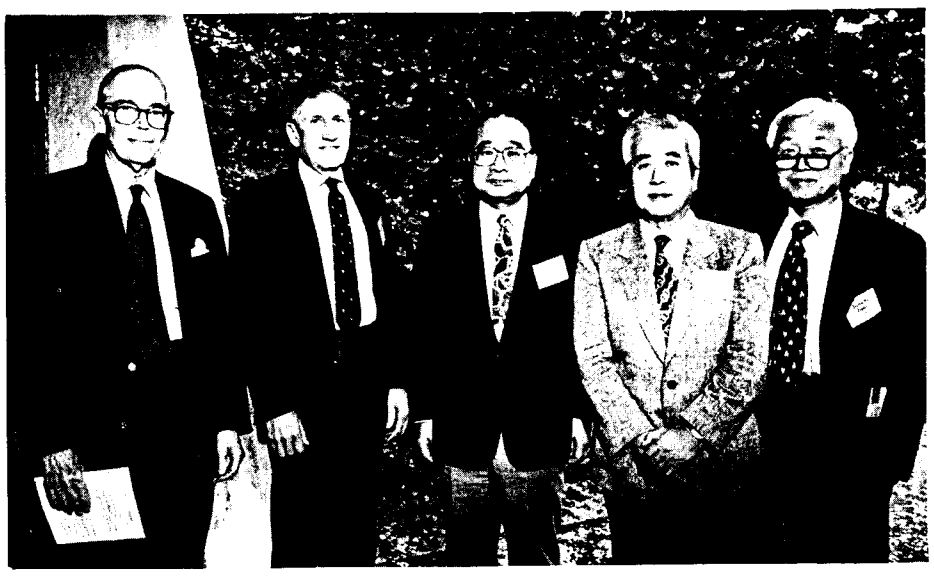
(continued on page 2)

Roger Stoutenburgh

**Lewis Snead**

# Third BNL Hypertension Workshop Draws International Experts

**After more than 40 years of research into the causes and effects of sometimes-deadly high blood pressure, or hypertension, BNL's Medical Department is still active in this field. At the International Symposium on Genetic and Salt Hypertension, held at BNL on May 15 & 16, 46 experts from around the world gathered to hear the latest findings, from basic and clinical research, on the relationship of salt intake and heredity to this killer disease. For example, DNA fingerprinting recently showed that BNL's newest strain of specially bred rats, descended from a salt-sensitive strain originally developed at BNL by Lewis Dahl, are the best animal experimental model for studying hypertension. Other presentations discussed the effects of hypertension on the heart, and the role of a high-salt diet in stomach cancer and osteoporosis. The meeting was the third held at BNL since 1981. Among the attendees were: (from left) conference co-chairman Louis Tobian, University of Minnesota School of Medicine; Darrel Joel, Chairman of BNL's Medical Department; Koshiro Fukiyama, Ryukyu University School of Medicine, Okinawa, Japan; Masao Ishii, Yokohama City University School of Medicine, Yokohama, Japan; and conference co-chairman Junichi Iwai, Medical.**



Roger Stoutenburgh

## World Wide Web (cont'd.)

This is called "hypertext," since it does regular text one better by being interactive.

Each file and each home page has a unique address, just like a street address on a house, that can be steered to using WWW browser software. So, either by typing in the address or clicking a mouse on a word or picture linked to that address, the user is "transported" instantly to the new location.

A WWW home page is often nothing more than a collection of hypertext links leading to information files, documents or other home pages. But the WWW also allows users to read and participate in news-group discussions, and to get at the huge number of files that are publicly accessible through methods developed before the Web's advent, such as Gopher and FTP.

### BNL On-Line — From Anywhere

Thousands of computer users from around the world tap into BNL's WWW resources every month from other national laboratories, universities, government, industry and the general public.

They can access, for example, the complete contents of the Protein Data Bank and the National Nuclear Data Center, which are both located at BNL and serve as central collection points for many researchers' data. Scientists anywhere can keep up with developments at individual beam lines at the Alternating Gradient Synchrotron and the National Synchrotron Light Source. Or, they can peruse manuscripts of scientific papers published electronically by ISD.

Businesses from near and far can learn about licensing and cooperative research opportunities from the Office of Technology Transfer's home page, or read individual departments' pages to find out what kinds of research are done here. And students can find out how they can come to BNL for a learning experience through the Office of Educational Programs.

New BNL-related home pages are coming on-line every month. The Public Affairs Office's home page recently made its debut, containing news releases, a photo tour of the Lab and information on the Museum Programs group's programs for schoolchildren and the public, among other things.

Despite their different contents, from highly technical to general, all of these pages have one thing in common — they're on the World Wide Web. But, to get at this wealth of communication, you have to be on the Web, too. To get a copy of Netscape for your PC, bring a blank disk to the Software Store in CCD, Bldg. 515. To get it for your Macintosh, call John Lemmon, Ext. 7645. And, to get Netscape for UNIX, call Gordon Smith, Ext. 3216.

If you want to find out how to get a home page for your office, group, division or department, contact Peter Sutherland, ISD, at Ext. 5159. If you want to create your own home page but need computer space, call CCD's Smith, Ext. 3216. — Kara Villamil

## BNL on the Web

**Here are the universal resource locators (URLs), or addresses, for some of the Lab's most general home pages on the World Wide Web. From these pages, you can reach many other BNL-based home pages, and the world of the Web beyond.**

- ***BNL's home page*, with links to most BNL organizations — http://www.bnl.gov/bnl.html**
- ***Public Affairs home page* — http://www.bnl.gov/PUBAF/pubaf_home.html**
- ***CCD home page*, with news groups, computer information, documentation and software you can download — http://docserver.bnl.gov/com/www/default.html — K.V.**

# Inside Info

**Richard Dodson**, who founded BNL's Chemistry Department in 1947 and retired from the Lab in 1982, was awarded an honorary Doctor of Science Degree by Lawrence University in Wisconsin on Sunday, June 11, at the college's 146th commencement.

When Dodson took the helm of the Chemistry Department on June 1, 1947 — three months after the Lab was established — his staff numbered 10 and was housed in buildings left from the site's Camp Upton days. When he returned to full-time research on July 1, 1968 — 21 years later — the research program and the department had grown to encompass more than 100 people housed in the $6 million building dedicated in 1966, Bldg. 555 on Lewis Road.

As a senior chemist with tenure, Dodson was interested in radiochemistry and physical chemistry and conducted research on the kinetics of electron transfer reactions and on complex ion equilibria, until he retired in June 1982. Since then, he has returned to BNL often as a research collaborator.

Having earned his B.S. at the California Institute of Technology in 1936 and his Ph.D. at The Johns Hopkins University in 1939, Dodson was on the staff of Los Alamos National Laboratory, 1943-46, and an assistant professor at Caltech in the 1946-47 academic year. While at Brookhaven, he held an adjunct appointment at Columbia University, where he taught advanced courses in chemistry.

Dodson was honored by Lawrence for his many contributions to research and to science in this country, particularly for founding BNL's Chemistry Department and "elevating it to a leadership position among research departments in the country."

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**Dennis Puleston**, who retired in 1970 from his position as the Lab's Technical and Public Information Officer in the Technical Information Division, was awarded an honorary doctorate of humane letters by the State University of New York (SUNY) at Stony Brook on May 14, for his conservation efforts through the years. He was one of only five people to receive honorary degrees this year in the entire SUNY system.

Then, on June 13, Puleston was further honored when the Suffolk County Legislature passed a resolution dedicating a county-owned 37.39-acre preserve in his home town of Brookhaven Hamlet as the Dennis Puleston Nature Preserve.

After Puleston joined BNL in March 1948, he also kept busy outside the Lab as a naturalist.

A lifelong birdwatcher, Puleston observed, during the 1960s, a sharp decline in the number of ospreys in Suffolk County: The fish hawk's eggshells were becoming too thin to sustain chicks. Puleston and other concerned scientists were convinced that DDT, a pesticide being used for mosquito control, was affecting the food chain. To prevent this continued use of DDT, in 1966, this group sued the Suffolk County Mosquito Control Commission. The one-year ban on the use of DDT that the group won in this suit led to a statewide ban in 1970 and to the founding of the now national Environmental Defense Fund (EDF) in 1967. Still active in the EDF, Puleston served as its first chairman, from 1967 to 1972.

Shortly after retiring in December 1970, Puleston began serving as a naturalist on ecological expeditions. Between trips he continues to paint watercolors of the flora and fauna he observes. Many of these paintings can be found in his 1993 book, *A Nature Journal: A Naturalist's Year on Long Island.*

## Louis Snead (cont'd.)

ruary. The award recognized Snead for his "Distinguished and multifaceted career in materials science research and research management at National Laboratories and service as Editor of *Physical Review*."

Snead's research has focused on radiation effects in metals, insulators and superconducting materials. Since he joined ATD in 1992, his division has worked on such projects as the design of a spallation neutron source, which led to a collaboration with researchers at Oak Ridge National Laboratory on the anticipated Spallation Neutron Source, and to accelerator production of tritium using spallation neutrons. Other main concerns in ATD are reactor safety research and operations at the National Nuclear Data Center.

The NMC, an organization under the joint umbrella of The Metallurgical Society and the American Society for Metals, was established to further research on materials for the construction of both fission and fusion nuclear reactors. Its main function is to organize both topical conferences and symposia at annual meetings.

Having served on the NMC for 21 years, Snead said, "I have found that my work on the committee has been a complement to my research interests, and some of the symposia I helped organize have been directly related to my research here — especially in the area of superconducting materials as they relate to fusion. Further, interactions and associations with members of the committee have expanded my awareness of current work in materials research and have promoted useful collaborations."

Snead received his B.S. in physics from the University of Richmond in 1959, and his Ph.D. in physics from the University of North Carolina in 1965. After two years as a research associate at Northwestern University, he joined the Lab's Physics Department as an assistant physicist in 1967 under Allan Goland, becoming an associate physicist in 1968.

Snead left the Lab in 1970 to become Editor of *Physical Review*, where he remained in contact with the BNL Physics Department as a research collaborator, mainly involved in developing positron annihilation as a defect probe. He returned to Brookhaven full time in 1974, as an associate physicist in the Department of Applied Science. In 1985, he transferred to the then Department of Nuclear Engineering to help develop the Radiation Effects Facility and was made Division Head of the Neutral Test Beam Facility in 1990. He was promoted to his current position as Head of ATD in 1992.

— Brad Keoun

## Good News on NY Taxes

Believe it or not, BNLers should notice a slight *decrease* in the amount of New York State income tax that the Lab withholds from their paychecks, starting this month. Employees who are paid weekly should have already begun seeing the change, which results from slightly increased deduction allowances and reduced tax rates under the revised personal income tax law. Monthly employees will first see the impact on their July paychecks.

## More Pledges Needed For Swimarathon '95

It is not too late to make a tax-deductible contribution to the Long Island Division of the American Cancer Society by pledging to sponsor swimmers participating in tomorrow's Swimarathon '95.

From 9 a.m. to 9 p.m. at the BNL pool, individual and team swimmers will be putting in as many laps as they can for this good cause in the fifth BNL Swimarathon sponsored by the Brookhaven Employees Recreation Association. As well as supporting basic and clinical cancer research, the dollars raised will go to toward such patient-support programs as Camp Adventure, a sleep-away camp in Wading River for kids who have cancer and their siblings from Long Island and New York City.

Even if you can't make it to the pool to swim, help out or watch the event, you can still make either a per-lap pledge or a flat contribution by calling Karen Savino, Ext. 7250.

## Weight Watchers

There's still time to sign up for the new Weight Watchers at Work program, which will start on Wednesday, July 26, from noon to 1 p.m. in the Tap Room of the Brookhaven Center. The fee is $89 for either eight or ten sessions, depending on the number of registrants. For more information, call Health Promotion Specialist Mary Wood, Ext. 5923.

## See *Inner Voice*

The Hindi film with English subtitles *Antarnaad*, or *Inner Voice*, will be shown on Saturday, July 22, at 2 p.m. in Berkner Hall by the BERA Indo-American Association. All are invited.

Directed by Shyam Benegal, the film is set in a seaside fishing village inhabited by dacoits, one class of Indian criminals. Based on true life experiences, the story revolves around the transformation of Shiva, a poor fisherman; Arjun, a smuggler; and Hansaba, a widow seeking revenge for her husband's death.

After the movie, refreshments will be served in the Recreation Building. The suggested contribution for the refreshments is $2. For more information, call Animesh Jain, Ext. 7329; Piyush Joshi, Ext. 3847; Kumi Pandya, Ext. 3165 or 281-9401 evenings; or Anand Saxena, Ext. 4844.

## C++ Training

The Computing & Communications Division will offer a C++ programming course on September 18-22, from 8:45 a.m. to 4:30 p.m., in the seminar room of Bldg. 515. To register, send an ILR for $500 to Pam Mansfield, Bldg. 515, by Monday, July 31. For information, contact Mansfield, Ext. 7286, e-mail pam1@bnl.gov; or Ed McFadden, Ext. 4188, e-mail mcfadde1@bnl.gov.

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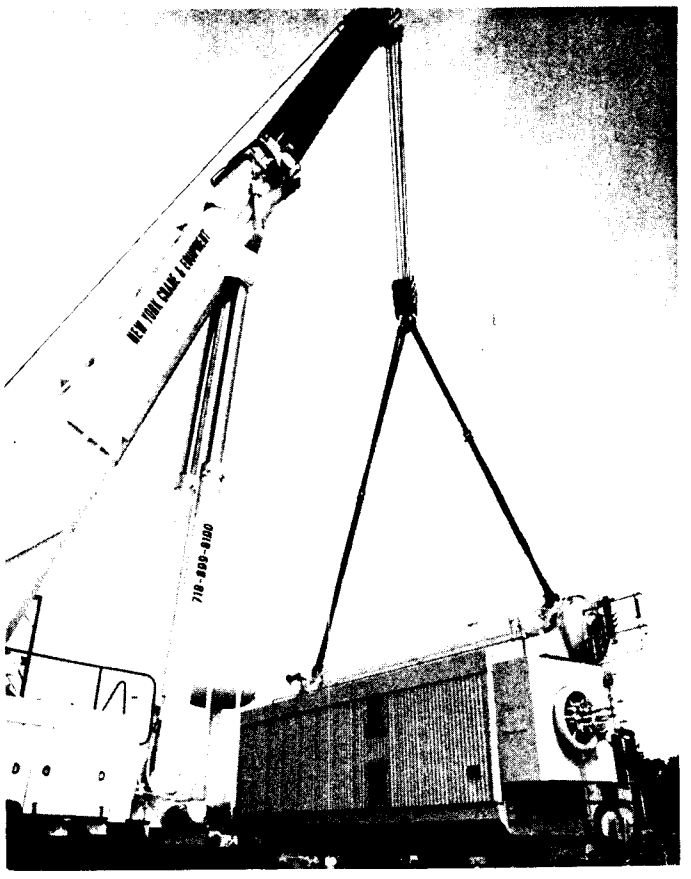

Roger Stoutenburgh

**Arriving at the Lab, BNL's new boiler was unloaded by a 400-ton capacity crane.**

## *Boiler #7 Steams Into Town*

Through a vast network of underground piping, four boilers at BNL's Central Steam Facility (CSF) provide steam to heat 2.4 million of the Lab's 3.8 million square feet of building floor space. On May 4, a new boiler was delivered to the CSF.

Funded by the Multi-Program Energy Research Laboratory Facility Support Program, a U.S. Department of Energy program to upgrade and maintain infrastructure needs at the national labs, the new boiler will operate cleanly and efficiently — with low emissions of oxides of nitrogen ($NO_x$) and an efficiency as high as 86 percent.

Manufactured in Arkansas by Babcock & Wilcox, the new boiler weighs 60 tons dry. It made the journey by rail to Newark, New Jersey, then by barge to the Shoreham Power Station dock. It was then transported on a special, 135-foot-long, heavy-lift tractor-trailer to BNL.

According to project manager Marty Fallier, Plant Engineering (PE) Division, the new boiler — Boiler #7 — replaces Boiler #4, a smaller, older boiler that was demolished earlier this year. Fueled by a modified #6 oil, Boiler #7, with an output capacity of 125,000 lb./hr., joins three existing boilers — #1A, at 45,000 lb./hr.; #6, at 125,000 lb./hr.; and #5, at 180,00 lb./hr. — and keeps the facility at the minimum capacity to ensure adequate support for BNL operations. Fallier, who is working on the project with Utilities Engineer Walter Bay, Steam Plant Supervisor Ernie Simon and Project Electrical Engineer Dennis Danseglio, all of PE, says the new boiler should be fully operational by late October. — Brad Keoun

## Volunteers Needed

Healthy cigarette smokers are needed to volunteer for a positron emission tomography (PET) study measuring the concentration of the enzymes MAO A and MAO B in the brain. These enzymes are known to be involved in depression and degenerative diseases of old age. Subjects will be paid for their participation. For more information, call Naomi Pappas, Ext. 2694.

## Equipment Demos

Silicon Graphics will park its Magic Bus outside Berkner Hall on Tuesday, July 25, from 9 a.m. to 4 p.m. All are invited to come on board to see demonstrations of scientific visualization, three-dimensional modeling, multimedia, virtual reality and more. For more information, call John Spiletic, Ext. 4112.

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Océ-Bruning, which supplies BNL with engineering copiers and other document-management services, will showcase its engineering document-management system from 10 a.m. to 2 p.m. on Tuesday, July 25, in Berkner Hall. This digital system will allow on-demand access to plotting, copying and scanning, and it is flexible enough to satisfy all document creation and reproduction needs regardless of CAD experience. In addition, an aperture card scanner will also be shown.

For more information, call Kimberly Kulas, (800) 735-7869.

## Cafeteria Menu

| | |
|---|---|
| **Monday, July 24** | |
| Soup: Cream of tomato | .90/1.20 |
| A la Carte: Sausage & peppers | 3.65 |
| Lite: Escaloped turkey in pasta | 3.85 |
| Deli: Hot pastrami | 3.20 |
| Grill: Meatball hero | 3.30 |
| **Tuesday, July 25** | |
| Soup: Chicken & capellini | .90/1.20 |
| A la Carte: Marinated chicken w/salsa | 3.95 |
| Lite: New England boiled dinner | 3.95 |
| Deli: BBQ brisket of beef | 3.20 |
| Grill: Pastrami & swiss | 3.30 |
| **Wednesday, July 26** | |
| Soup: Beef barley w/mushrooms | .90/1.20 |
| Display Cooking: Fresh Asian sauté | 4.75 |
| Deli: Roast turkey w/stuffing | 3.20 |
| Grill: Steak w/garlic bread | 3.30 |
| **Thursday, July 27** | |
| Soup: Vegetarian vegetable | .90/1.20 |
| A la Carte: Stuffed peppers | 3.65 |
| Lite: Spinach & feta quiche | 3.65 |
| Deli: Leg of lamb w/rosemary | 3.20 |
| Grill: BBQ pork | 3.30 |
| **Friday, July 28** | |
| Soup: Seafood Creole | .90/1.20 |
| A la Carte: Chicken cacciatore | 3.85 |
| Lite: Baked lemon-mushroom cod | 3.95 |
| Deli: Roast pork loin | 3.20 |
| Grill: French dip | 3.30 |

## In Memoriam

*The following BNL retirees passed away recently:*

**William H. Cozine**, who spent 20 years at the Lab before retiring on June 30, 1969, died on June 18, at the age of 95. He started at BNL on March 21, 1949, as an electrician A in the Architectural Planning & Plant Maintenance Department. When he retired, he was a tower lineman in the Plant Engineering & Planning Division.

**Salvatore Piazzola**, one of the Lab's very first employees, died on June 19. He was 79 years old. He joined the Lab on March 24, 1947, as a machinist in The Shops, which were soon to become the General Machine Shop. Thirty years later, on July 4, 1977, when he was a machine maintenance mechanic A group leader, he left the Central Shops Division on long-term disability. He retired on July 3, 1978.

**Adolf E. Emanovsky** died on June 29 at the age of 69. After working at the Lab briefly in 1949, then intermittently as a job shopper 1973-76, he became a technician IV in the Alternating Gradient Synchrotron (AGS) Department on July 27, 1976. He was a principal technician with the AGS when he retired December 18, 1981.

**Clive E. Reed**, who came to BNL as a draftsman A during the Lab's first year, died on July 7. He was 86 years old. He started in the Design Group on November 3, 1947; at his retirement on July 1, 1968, he was a design engineer II in the Mechanical Engineering Division.

## IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, July 24, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the union office at 31 Oak Street, Patchogue. The agenda includes regular business, committee reports and the president's report. A strike vote will be taken.

## Amateur Radio Club

To discuss the recently held field day, the BERA Amateur Radio Club will next meet on Thursday, June 27, at noon in Room D, Berkner Hall.

All Lab employees, guests and licensed amateur-radio operators are invited. For more information, contact Chris Neuberger, Ext. 4160, or Nick Franco, Ext. 5467.

## Arrivals & Departures

### Arrivals

**Wei G. He**.....Adv. Tech.
**Mark J. Lavery**.....RHIC
**Kim M. Mohanty**.....Physics

### Departures

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

**Juan Castillo**.....Cent. Shops
**John T. DeLalio**.....RHIC
**Donald J. Jesaitis**.....Plant Eng.

## 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.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "http://www.bnl.gov/bnl.html", then select "Scientific Personnel Office" for scientific staff openings or "Employment Opportunities" or "BNL Personnel Office" for all other vacancies.

**OPEN RECRUITMENT** - Opportunities for Laboratory employees and outside candidates.

DD 0572. ENGINEERING POSITION - (term appointment) Requires a BS/MSME and significant experience with helium refrigeration-system operation, ASME pressure-vessel and piping codes. Work will involve cryogenic system-process calculations, piping and pressure-vessel design, and coordination of cryogenic equipment installation. Knowledge of all related cryogenic technologies desirable. RHIC Project.

DD 2079. TECHNICAL POSITION - Requires an AAS degree in electronic technology or equivalent experience, and a background in complex electronic and electromechanical equipment. Responsibilities will include operating, maintaining and modifying the accelerator and equipment at the Tandem Van de Graaff. (reposting) Physics Department.

DD 5570. TELEPHONE SERVICES ASSISTANT - (term appointment) - Requires an AAS or equivalent experience, telecommunication-services experience, excellent oral and written communication skills, and familiarity with PC use and WordPerfect. Knowledge of the Rolm 9751 telephone system and its features is highly desirable. Will assist customers in the transition from the existing GTE system to the new Siemens Rolm telephone system. Duties will include assisting customers; maintaining move, add and change records; and providing customer assistance as required. Computing & Communications Division.

MK 3920. SYSTEMS SPECIALIST POSITION - (term appointment) Requires a bachelor's degree or equivalent and experience developing information systems. Will be responsible for the general management of two on-site information system development projects: will develop applications for the submittal of Field Work Proposals from on site to the Budget Office, and NSLS General User Proposals from off site to the NSLS. National Synchrotron Light Source Department.

(continued on page 4)

# Classified Ads (cont'd.)

## Furnishings & Appliances

DINING ROOM - Colonial, oval table, 2 leaves, 4 chairs, hutch w/glass front, $250 neg.; living room, 7 pc. Colonial, couch, love seat, $300 neg. 878-6859.

DINING ROOM - 8 chairs, 9' table, breakfront buffet server, blond wood, $380 neg.; microwave, large, Kenmore, $40. Jody, Ext. 2921 or 929-0383 after 6 p.m.

DISHWASHER - Westinghouse, Potscrubber, deluxe HD w/ black reversible panels, good cond., full controls, $120. Frank, Ext. 4220 or Vita, 277-0464.

DRYER - G.E., electric, 5-cycles, 7 mo. old, $200; bassinet, $10; iron, electric, $5; ironing board, $5. Sonja, 341-1010.

HUTCH - lighted, dining room china cabinet, top & bottom in perfect cond., maple wood, must see, make offer. Bob, Ext. 3509 or 289-9533.

FUTON - twin-bed size, royal blue mattress, white frame, excel. cond., $50, you pick up, $55 delivered, firm. Bill, 281-6498.

LAMPS - 2, large brown, $20 ea.; 2 Formica/glass tables, $50 ea.; G.E. stereo in cabinet, 32 yrs. old, needs needle, $75. Ed or Janice, 929-4898.

LIGHT TABLE - large, 40"x60", portable or stand alone; metal desks; battery operated Big Foot remote-control race truck. Rich, 929-8514.

MICROWAVE OVEN - G.E., 10 yrs. old, good cond., $35. 289-0687.

RERIGERATOR - G.E., 21 cu. ft., frost-free, gold, good cond., $150. Rich, Ext. 7013.

SOFA - antique Queen Anne, 6' long, carved mahogany trim, beige tapestry w/blue flowers, excel. cond. Kathy, Ext. 2267.

SOFA - sectional, paid $1,500 last yr., now $700; refrigerator, $150; elec. stove, $150; washer & dryer, $150. Bert, Ext. 5156.

TABLE - coffee, rectangular, handcarved wood frame w/thick glass top, $150. Ann, Ext. 7611.

TABLE - 66"x36", 6 ladderback chairs, $150; freezer, United, commercial, heavy-duty, 16 cu ft., $300. David, Ext. 5460.

TABLES - oak, new, coffee/end, both $200; vertical blinds, 7½', fits 6' doors, valance, cream woven material, $100. Margaret, Ext. 2529 or 588-7989 eves.

WASHER & DRYER - Sears Kenmore, large-capacity, used 1 yr., $650. Eric, Ext. 4601 or 289-9193.

WOOD STOVE - Vigilant, w/over 6' of s.s. flue-triple layer, no insulation needed, like new, $475. Tom, Ext. 5258.

APPLIANCES - old, from newly remodeled kitchen, all work well; upright freezer. Ronnie, Ext. 7132.

BUNK BEDS - heavy-duty, v.g. cond., less than 2 yrs. old, orig. $369, now $200. O. Booker, Ext. 3082.

BUNK BEDS - This End Up, w/dresser & shelves. 924-2298 eves.

DRESSER - Bassett, child's, 2-drs., 6-drawers, excel. cond., $100; weed wacker, Sears, elec., ¾-h.p., $25. Mark, Ext. 7978.

ENTERTAINMENT CENTER - oak style, brand-new, still in box, assembly required is basic, $60; coffee table, black Formica, $35. Chris, 399-7493.

FREEZER - white, runs well, $50; mirror, large, oak, $50. Sheila, Ext. 3144.

FURNITURE - octagon wood & glass, coffee & end tables, good cond., you pick up, $50. Donna, Ext. 2456 or 224-1447.

LIVING ROOM - Colonial couch, sleeper, 2 end tables, Ethan Allen, 2 lamps, $325 neg. Jody, Ext. 2921 or 929-0383 after 6 p.m.

REFRIGERATOR - G.E., 15 cu. ft., $150; washer, Sanyo, portable, $75. Mike F., Ext. 7772.

REFRIGERATOR - Sears, 5 yrs. old, 19 cu. ft., side-by-side, harvest gold, v.g. cond., $300 neg.; washer & dryer, Sears, OK cond., both $150 neg. 878-6859.

WATER BED - new liner & heater, frame in good cond., dark wood, contemporary, $100. Donna, 924-9282.

## Tools, House & Garden

ARCHITECTURAL STRAIGHTEDGES - 2, Mayline, 48", $25; Anco Bilt, 42", $25; door, solid-core, new, 80"x30"x1¾", $20. Ben, 929-6984.

CHAIN SAWS - 2; freezer, upright. 363-7032.

HEAT PUMP - Trane # BPCB-302C-A, indoor unit of split system, 5.6 A, ½-h.p. Harvey, 281-7568.

TOOLS - misc. equipment, best offer on all. Bill, 924-6940 after 4 p.m.

ROTOTILLER - 5-h.p. Yardman. George, Ext. 5288.

AIR COMPRESSOR - w/20-gal. tank, $85. Jim, Ext. 5400 or 878-6098.

BELT GRINDER - Craftsman, various sanding belts. Hank, Ext. 7595.

CHAISE - outdoor, metal, full cushions, back drops for bed, v.g. cond., $250. 281-7844 eves.

CEILING FAN - excel., $10; espresso machine, $10; entrance door, excel., 30"x79", $20. 929-5742.

GARLIC - organically homegrown, spicy, *Inchelium Red*, *Nootska Rose*, with 6+ cloves, 50¢ ea.; 8+ cloves, 70¢ ea.; 10+ cloves, $1 ea. Pat, 878-9117.

GRILL - Sunbeam, tabletop, elec. w/lava rocks, used only a few times, $25. Linda, Ext. 2733 or 395-6784.

HEATING UNIT - Miller Gun, very good, $50. O. Booker, Ext. 3082 or 727-5912.

IRRIGATION/WATER PUMP - 2"-diameter inlet-cast iron pump, 3-h.p. Briggs engine, excel. cond., $125. Tom, Ext. 4507 or 878-1060.

LAWN MOWERS - Toro, 21", $40; Snapper, 21", $50. 567-9025.

LAWN MOWER - Snapper, riding, 8-h.p., $150. Mike, Ext. 4293.

LAWN SPRINKLER - parts, timers, relays, 220V, 110V, 24V, new, reasonable. Bob, 289-2986.

STOVE - Airtight, wood/coal, 45k-Btu output, w/ accessories, viewing window. George, Ext. 5288 or 878-8177.

## Sports, Hobbies & Pets

BICYCLE - boy's 20", Dyno lightweight, like new, orig. $200, sell for $100. J.K. Tuli, Ext. 5080 or 751-1884.

BICYCLE - girl's 12", $18; junior desk, wood & laminate & chair, $20. 821-1435.

BIKE - mountain, 18-spd., excel. cond., 878-1617.

BIKES - two, 20" folding, H.D. frame, great for boat, RV, camping, etc., excel. cond., used once, $75 ea. Frank, Ext. 4220 or George, 669-6791.

BOWLING BALL - Brunswick Imperial Crown, green, women's w/hard shell case, 12 lbs., v.g. cond., $25. Rich, Ext. 7160/2012.

CAGE - for medium-size dog, can be folded, $20; Dogloo doghouse for small/medium-size dog, new, orig. $115, now $75. Carol, Ext. 3325 or 472-3332.

CAMERA - Canon F-1 w/Kalimar 28-35F3.5, Rokinon 80-200F4.5 and 2x tele Vivitar 285 zoom, Thyristor flash, + UV filters, excel., Lloyd, Ext. 5225.

CAMERA - Nikon FM and various lenses and accessories. Hank, Ext. 7595.

COMPOUND BOW - Hoyt Super Slam, 29" draw 55-70#, like new, orig. $400, now $275. Lou, Ext. 4289.

DARKROOM - complete b&w, Durst enlarger, lenses, tanks, trays, timers, paper holders, safe, all accessories, excel. cond., $150. Albert, 727-4884.

DRUMS - 12-piece, black, mixed brand, Neal, Pearl, Style, Zildjian & Sabian cymbals, many percussion access., $1,500. Rich, Ext. 7160/2012.

EXERCISE BIKE - Vitamaster, digital readout, hardly used, $50. Nancy, Ext. 7976.

EXERCISER - Body by Jake, used 5 times, $80. Al, 331-1003.

EXERCISER - Super Rider, assembled, never used, orig. $350, ask $250. Diana, Ext. 3379.

FISH TANK - 55-gal., wrought-iron stand, hood w/ light, Canister 403 fluval filter, 4 power heads, misc. accessories, $300. Katherine, 981-5993.

GOLF CLUBS - TA 845s, stiff shafts, 2 iron through SW, staff Persimmon 3 & 4 wood, best offer. Ernie, Ext. 2677.

JET SKI - 1991x2 650cc, Ski Tote trailer, excel. cond., very low hrs., $2,600. David, Ext. 5217.

PIANO - full size, upright, 90-yr.-old Mendelssohn, refinished oak, ivory keys, needs work, $200 or best offer. Frank D., Ext. 2022 or 399-4480.

PIANO - upright, good cond., $400. Mike, Ext. 7772 or 369-3307 eves./wknds.

PIANO - Winter spinet w/bench, walnut, excel. cond., $850 neg. Patti, 929-8277.

PUNCHING BAG - Everlast lightweight speed bag exercise set, new, $50. Joe, Ext. 2898.

PUPPIES - Shih Tzu, AKC registered, looking for lovable family, born 6/14, taking deposits now. Darlene, 924-0629.

PUPPIES - Dalmation, 6 wks. old w/shots, AKC papers, healthy, good lineage, champ lines. Joseph, 924-8558 after 5 p.m.

ROWER - exerciser, independent action shocks, many positions for multiple exercise routines, $40 or best offer. M. Sussman, Ext. 4212 or 821-9028.

STEPPER - Fitness Competition, side hand rails, LCD display for time/distance, independent action shocks w/5 tensions. M. Sussman, Ext. 4212 or 821-9028.

TICKETS - Yankees, for 7/23, 8/13 & 9/14, 4 box seats, $74 ea. set. John, 696-5490.

## Audio, Video & Computers

COMPUTER - 486DX33, 250 MB HD, 8 MB RAM, 14" monitor, 2XCD-ROM, sound card, 5¼" and 3½" drives, much software, $850. Steven, Ext. 5694.

COMPUTER - Atari 1040ST, color mon., software, Epson printer, computer desk, best offer. Ernie, Ext. 2677.

COMPUTER - Amiga 3000, 68030 CPU, 50 MB HD, 16 MB RAM, 1084 monitor, trackball, modem, Epson FX850, software, more. Joe, Ext. 7321.

COMPUTER - IBM 286, ext. CD ROM, 2 floppy drives, VGA monitor, Windows, 4 MB, 70 nsec SIMMS, $790. Ken, Ext. 5110.

COMPUTER - Macintosh SE30/5/40, w/spreadsheet, word processor, $550. Peter, Ext. 4272.

COMPUTER - 486/330X, 250 MB HD, 16-bit sound card, 2XCD, 8 MB RAM, 1 MB SVGA, 14" SVGA monitor, 2 drives, software. Steven, Ext. 5694.

COMPUTER - Mac Performa 636, 250 MB HD, 4 MB RAM, 12" monitor, Stylewriter printer, software, 1 yr. old, $1,500 neg. Robyn, Ext. 2680.

COMPUTER - 386 AST Premium, 4MB RAM, VGA, mouse, keyboard, 1.44m diskette, 1 parallel, 2 serial ports, $300. Paul, Ext. 7697.

COMPUTER - IBM 386, 25 MHz, 80 MB HD, Epson printer, computer table, $599 neg. 878-6859.

COMPUTER - notebook, 486SX-25MHz, 4MB RAM, 340MB HD, 1.4MB floppy, 9.6 fax/modem, dual scan color, PCMCIA slot, $1,200. Jim, 546-2947.

COMPUTER PARTS - floppy drive 3½"/1.44 MB, $35, SVGA card w/1 MB RAM, $40, 16-bit super I/O card, $25. Chong-Jer, Ext. 3207.

COMPUTER PARTS - 386 Dx-40 motherboard, $70, SIMMS 1MB, $35 ea, $130/4; 1x3 (70ns), 1x9(70ns), 1x9(80ns); Microsoft mouse, $25. Tom, Ext. 5258.

PHOTOCOPIER - large office-size, 8 yrs. old, reasonable. Bob, 289-2986.

RECORDS - LP, classical, Franklin Mint Collection, never used, make offer. Janet, Ext. 2345 or 929-3910.

SOFTWARE - Word for Windows 2.0, Turbo Pascal for Windows 1.5, Quattro Pro for Windows 5.0, unopened, $30 ea. Loretta, 744-5553.

SPEAKERS - 2, Fisher, $10 ea.; bentwood coat rack, $10, brass/glass hanging lamp, $15, bookcase, $15. Kathy, 744-2203.

STEREO RACK SYSTEM - Pioneer, 125 watts per channel, 6-disc CD player, EQ, dual cassette, huge speakers, 16" woofers, $600. Nancy, Ext. 7976.

TV - Sears, solid state color, 19", $35; TV, G.E. floor model, 22", $125 neg.; SEGA games, Sonic Spinball, Mario, more, $15-$30. Chris, 399-7493.

TV - B&W 12" screen, Magnavox, $25. Pete, 399-2813 after 5 p.m.

TV - Mitsubishi color, 26", remote console, excel., $200. Margaret, Ext. 2529 or 588-7989 eves.

TV - B&W, 11", $10; Karastan carpeting, new, 2 yd. remnants, blue, $30. H. Hildebrand, 929-4446.

VIDEO - tutor, Windows NT, new, sealed, $25. Susan, Ext. 7647.

## Miscellaneous

BOOKS - science fiction & others, new cond., $1 ea.; organ, $20; Evenflo highchair, $30; Sears coffee maker, $5; window curtains, $5 ea. Ofra, 821-6856.

GLASSES - 16 champagne & 12 cordial, matched, also 8 old-fashioned, $25 takes all. Albert, 727-4884.

JEANS - Sears, brand-new, 36/32, $15 ea. or 2/$25; shirt, Botany 500, dark blue, new, 16-33/34, $12. Susan, Ext. 7647.

RING - 2 ct. round CZ, baguette sides, 14K gold, orig. $125, ask. $65 or best offer. Linda, Ext. 7187.

TICKETS - two, *Shenandoah*, Gateway Theater, Bellport, Sun. July 23, 7 p.m., 4th row center, $20 ea. Frances, Ext. 4382.

VACATION - 5-star resort, Palmas del Mar, Puerto Rico, 12/2-9, 1995. Pat, Ext. 5406.

WATCH - Fossil, men's, brand-new, in original case, orig. $70, ask. $50. Heather, 928-5796.

WEDDING GOWN - size 8, bustle, lace, white, long train, crown, $400 neg. M. Sussman, 821-9028.

## Free

BICYCLES - two girl's 14", not pretty. Peter, Ext. 4272.

CANNING JARS - quarts & pints, no lids; blackberry canes, thornless, Michael, 369-9879.

FIREWOOD - oak or pine, you pick up. Diana, Ext. 3379.

HOUSE CAT - short-haired, declawed male, much loved, not good w/children, 7 yrs. old. Jim, Ext. 7917.

KITTENS - playful, litter-boxed trained. Kathy, 281-2842.

KITTENS - 2, cute, beige, now ready. Chris, Ext. 5692.

NATIONAL GEOGRAPHIC - 22 yrs. & index, Morris, Ext. 4192.

OIL TANK - 150 gallons oil, must remove. W. Hughes, 929-0629.

REFRIGERATOR - over/under freezer box & refrigerator, needs recharging, you haul. Jerry, Ext. 2934 or 744-2816.

SHEETROCK - 4'x8'x½", 2 pcs. green, 2 pcs. regular. Jay, Ext. 4994 or 751-0538.

SOFA - Colonial 2-seater love seat, great cond.; Sears under-counter/free-standing trash compactor, works well, trim-line. Bob, Ext. 3509 or 289-9533.

TELEVISION - Quasar console, needs repair, you pick up. 924-2298.

## Yard & Garage Sales

CENTER MORICHES - 7/22-23, 9 a.m.-4 p.m., contents of home, 8 Howell Place.

HOLBROOK - Sat., 7/22, 9 a.m.-2 p.m., toys, toys, toys, misc. household items, 269 Thunder Rd., off Greenbelt Parkway.

WADING RIVER - Sat., 7/22, 9:30 a.m.-6:30 p.m., household items, lawn mower & more, 190 Herod Point Rd. off N. Wading River Rd.

## Car Pools

EAST SETAUKET - van pool, save gas & the environment. Bob, Ext. 2270.

HUNTINGTON - join existing or start new, 8:30-5:00. Bob, Ext. 5314.

## On-Site Service

GETTY STATION - gas prices reduced: regular $1.27⁹, plus $1.33⁹, premium $1.39⁹. Bill Widmer, Ext. 4034.

## 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

BAITING HOLLOW - beach cottage, l/r, eik, full bath, deck, patio, priv. beach, rec. hall, laundry, near Splish Splash, wineries, golf, fishing, sleeps 4, $450/wk., multi-wk. discount. Mike, Ext. 7361 or 698-3967 eves.

BRENTWOOD - 1-bdrm. apt., incl. utilities & cable, nonsmoker, no pets, near mall, highways, avail. now. Donna, Ext. 2456 or 224-1447 after 6 p.m.

CALVERTON - 2-bdrm. townhouse, l/r, d/r, 1½ baths, deck, patio, cac, all appl., close to LIE, no pets, $900/mo. + util., sec., refs. Mike, Ext. 7772 or 369-3307 eves./wknds.

CENTER MORICHES - 3-rm. apt., 2nd floor, priv. ent., near all, no pets, nonsmoker pref., $525/mo. incl. util., sec./lease req., avail. 10/1. Lois, Ext. 3315 or 929-4753 eves.

CENTER MORICHES - 1-bdrm. apt., sep. bldg., full bath, refinished, quiet dead-end st., nice area, furn. or unfurn., $500/mo. + heat. 878-1178.

CORAM - Bretton Woods, 2-bdrm. condo, 2 baths, l/r, d/r, eik, all appl., ac, golf, tennis, i/o pool, clubhouse, cable, no pets, $925/mo. + util., sec., refs., avail. 8/1. 289-0413.

CORAM - 2-bdrm. apt., l/r, full bath, eik, w/w, fin. gar., lg. yard, sep. ent., ideal for couple, 10 min. from Lab, close to bus, $750/mo. + util., 821-5624 eves./wknds.

E. PATCHOGUE - 1-bdrm. apt., eik, l/r, all util. & basic cable incl., avail. 8/1, nonsmoker, no children. Bob, 289-1834.

HAMPTON BAYS - 1-rm. apt., furn., ideal for single, 25 mi. frm BNL, $550/mo. incl. all util. except elec. 728-0992.

MASTIC BEACH - roommate wanted for 2-bdrm. apt., nice neighborhood, 1 bath, l/r, lg. kit., ceiling fans, closet, upstairs, pvt. ent., parking, 10 min. to lab, $350/mo. incl. heat. Jim, Ext. 5537.

MASTIC - 1-bdrm. bsmt. apt., excel. cond., full bath, kit., l/r, sept. ent., 15 min. to Lab., $500/mo. incl. util. Brigita, Ext. 3426.

MEDFORD - 1-bdrm. cottage, l/r, eik, ac, skylight, w/w, no w/d, nonsmoker, 18 min. to Lab, 4 yrs. old, $675/mo. + all util., sec. & refs., avail. 8/1. Nardozza, Ext. 5768.

MEDFORD - 1-bdrm. cottage, w/w, eik, full bath, cathedral ceiling w/ceiling fans, quiet street, for single or couple, $700/mo. + sec., avail. 8/1. Fred, Ext. 2534.

MILLER PLACE - 1-bdrm. apt., priv. ent., cac, cable, l/r, eik, full bath, furn. nonsmoker, no pets, single pref., $650/mo. incl. all., refs. 331-4096.

ROCKY POINT - lg. 2½-rm. apt., full kit. & bath, priv. ent., $550/mo. + util., no pets. Tony, 821-4149.

ROCKY POINT - 4-rm. apt., wood stove, near beach, priv. ent., suitable for single or couple, no pets, $575/mo. + util. Claire, 744-5282.

ROCKY POINT - 1-bdrm. apt., l/r-d/r, kitchenette, full bath, carpeting, patio, parking, walk to beach, no pets, refs. req., $600/mo. all. Alexander, (718) 721-4271 or 821-6698.

SELDEN - studio, bright, clean, ground level, sep. ent., full kit. & bath, new flooring, cable, $500/all + sec. 474-2792.

STONY BROOK VILLAGE - 2-bdrm. apt., 1½ baths, l/r, d/r, kit., den & porch, full bsmt., walk to SUNY & RR, 3VSD, $1,200/mo., refs. req. Robert, 751-1621.

CATSKILLS - 3-bdrm. chalet w/sleeping loft, full furn., near Windham & Hunter Mts., great for hiking, swimming, golfing, Catskill Game Farm nearby. Kay,. Ext. 4501 or Bea, Ext. 3642.

HILTON HEAD ISLAND, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, pool, beach, golf nearby, through Sept. $475/wk. Guy, Ext. 3147 or 689-5378.

## For Sale

BLUE POINT - 3-4 bdrm. Colonial, 1.3 acres, lg. barn, irrig. garden, solar and more, 363-7032.

BROOKHAVEN HAMLET - 2-bdrm. cottage, l/r w/fp, huge eik, new bath, screened-in porch, dead-end lane off Beaver Dam Rd., $119,500. Jeb, Ext. 7607 or 286-0204.

BROOKHAVEN HAMLET - restored 1738 English cottage on country lane, beamed ceilings, planked foors, fp in d/r, greenhouse off kit., $185,000. Susan, Ext. 2888 or 286-1474 after 6 p.m.

CALVERTON - 2-bdrm. cottage on the lake, 50'x100', skylights, l/r, kit., bath, porch, dock, spectacular view, $115,000. Mike, Ext. 3430.

EAST PATCHOGUE - 3-bdrm. cedar ranch, south of S. Country Rd., quiet neighborhood, mint. cond., $129,900. 582-3291 or 589-3020.

FARMINGVILLE - 2 bdrm., enclosed porch, all new windows, siding, bath, custom kit., ½ bsmt., 1½-car garage/shop, 15 min. from BNL, $109,000. Mark or Mary, 654-0268.

HUNTINGTON STATION - 3-4 bdrm. expanded Cape, mint, l/r, d/r, eik, 2 baths, Florida rm., fin. bsmt., fenced yard, $169,000. J. Taylor, Ext. 2703.

MASTIC BEACH - 4-bdrm. ranch on dead end, city water, oil BB heat, solar hot water, agp, deck, fin. bsmt. w/bdrm. & full bath, gar., $102,900. Tirre, Ext. 3288.

NORTH SHIRLEY - 9-rm. custom-built Colonial, ½ acre, city water, fence, etc., moving, $123,000. Julian, 924-0960.

PATCHOGUE - 4/5-bdrm. ranch, exec. area, cul-de-sac, 2½ baths, fin. bsmt., 2-car gar., 18 min. to Lab, must sell, $160,000. Marge or Faith, 475-6234 eves.

RIDGE - 3 brdrm., 1½ baths, den/gar., hardwood floors, 3.5 miles from Lab, agp, full bsmt., price neg. Ernie, Ext. 2677.

RIDGE - Leisure Village, 1-bdrm. condo, neat new rug, refrig., $53,000 furn., $50,000 unfurn., over 55. Rose, 473-8060.

ROCKY POINT - 22 Prince Road, west end, 1.23 acres, very private, $169,000. 929-6235.

ROCKY POINT - 3-bdrm. custom ranch, corner plot, landscaped, 4 appl., OHWH, w/w, custom kit. cabinets, city water, $80,000. Donald, 473-6570 after 7.

SMITHTOWN PINES - large 5-bdrm. high ranch, 2.5 baths, upgraded, move-in cond., possible M/D, cac, large deck, landscaped, 0.7 acre, SD1, taxes $4,018, $239,000. Vaslis, Ext. 2830.

SOUND BEACH - shy ½ acre, unobstructed year-round view of LI Sound, $69,500. 422-7759.

SOUND BEACH - mint 3-bdrm. ranch, 2 baths, MPSD, l/r, d/r, eik, fin. bsmt., agp, cedar decks, new roof, boiler, Andersen windows, oak floors, landscaped, must see, ask. $139,500. Patrick, 744-7017.

SOUTHOLD - 3-bdrm. contemporary, 11 yrs. old, 2 baths, vaulted ceilings, cac, deck overlooking small pond, walk to bay beach & boating, $245,000. Ext. 4747 or 765-1075.

WADING RIVER - country ranch, 7 yrs. old, 2,600 sq. ft., master bdrm. down, 3 bdrm., bath & bonus rm. upstairs, l/r, d/r, kit., breakfast, den w/fp, 1½ baths, 3-car gar., SWRSD, $219,000. Rich, 929-8514.

WADING RIVER - 3 bdrm., lg. study, l/r, d/r, eik, 2-car, ½ acre, full dry bsmt., new oil burner, sale $144,000, rent $1,075 + util. or share at $900. Dan, Ext. 4050 or 929-5027 or 929-1050.

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, $189,900. 929-8323.

YAPHANK - 1980 L-shaped ranch, 4 bdrm., lg. eik, fam. rm. w/fp, 1,900 sq. ft., 2-car parking, lot 100'x100', dead end st., 6 mi. to Lab, woody area, full bsmt., $139,900. Nicholas, 924-4123.

YAPHANK/MEDFORD - 1 acre fenced, lg. 2-bdrm. front-porch ranch, horse country, workshop/garage., small barn, excel. cond., taxes $2,700, $119,000. Ted, 924-0705.

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

SINGER ISLAND, FL - 2-bdrm. condo on ocean, 2 baths, pool, near W. Palm Beach airport, $98,000. 289-5770 after 6 p.m.

## Wanted

APARTMENT OR HOUSE - to rent, 2-3 bdrm., SWRSD, on/after 8/1. Don, Ext. 7237 or 744-2921 after 5:30.

BABY-SITTER - reliable, for weekends and some evenings, Center Moriches. 874-3120.

BRIDGE PLAYERS - for on-site, evening game. Morris, Ext. 4192.

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

HOUSEMATE - to share 3-bdrm. house w/1 other, nonsmoker, Wading River, 10 min. to Lab, $500/mo. + ½ util. Ext. 5919 or 929-5308.

HUNTING HAT - red w/ear flaps to borrow or buy for student project. Diane, Ext. 2347.

MODEM - 2400-baud Hayes compatible or Macintosh modem, either will do. Betsy, Ext. 5826.

OUTBOARD MOTOR - from 35-75 h.p., also interested in a 35-lb. thrust electric motor. Nick, Ext. 5050.

POOL TABLE - good cond. Tom, Ext. 4507.

RACK - for Chevy S10 pickup. Jesus, Ext. 4879 or 286-5403.

SAIL - lightweight, to cut down for child's dink. M. Rowe, Ext. 2081 or 878-9384.

WAGON - child's, in good cond. Mark, 744-9308.

## In Appreciation

We thank the friends and coworkers of Mike Hope for your kind thoughts and sympathy.

— The Hope family

Many thanks to my coworkers at Hot Laundry and my friends for my lovely retirement gift. I will miss you all.

— Madeline Stawski

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