BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

New Department of Energy Secretary Hazel O'Leary Comments on National Labs, Tech Transfer, Energy Policy

The Clinton administration views the department's national laboratories as a precious resource that will be a central element in efforts to develop new technologies to stimulate long-term economic growth.

Partnerships with the private sector should be an important part of the new mission of the labs. I think there should be two key elements of the partnerships that will ensure that limited resources will be spent wisely.

First, the private sector will have a major role in determining the nature of the work to be accomplished by the joint undertaking. This will increase the likelihood that the product of the venture will have commercial application.

Second, the private sector should be required to provide a sizable portion of the funding for the venture. The private partner's willingness to invest its own money will help to ensure that tax dollars are invested in worthwhile ventures.

Hazel O'Leary

So commented U.S. Department of Energy (DOE) Secretary Hazel O'Leary about the national labs. These remarks were made in her written responses to more than 100 questions posed to her by the Senate's Energy and Natural Resources Committee, shortly after then President-elect Bill Clinton announced her nomination on December 21.

After submitting her replies to the committee on January 14, O'Leary answered to the committee in person during her January 19 confirmation hearing. The full Senate confirmed O'Leary on January 21, and she was sworn in the next day.

In nominating O'Leary for Energy Secretary and, at the same time, former South Carolina governor Richard Riley as Education Secretary, the then President-elect commented, ". . . As I have chosen my Cabinet, I've sought to reach out beyond Washington to find the best of America. Today, I am announcing two more individuals who, I believe, are ready to give new life to departments that have failed to meet the pressing national needs they were created to address. . . . [DOE] has been sorely underutilized, in my judgment . . . I talked a lot about it in the campaign, as did Senator Gore. . . .

An Energy Expert

"In our campaign, Senator Gore and I made clear what our priorities are: greater reliance on American natural gas, greater energy efficiency, greater development of alternative energy resources, a greater commitment to making good energy policy and good environmental policy good economic policy for America. The major task of the next Secretary of Energy is to redirect the Energy Department in these priorities. . . . To make that change, I am nominating an energy expert with hands-on experience in both business and government, Hazel Rollins O'Leary."

In reviewing O'Leary's credentials, Clinton called her a "spark plug, pushing her firm and other utilities to undertake renewable energy research projects and production projects, and to support market-based proposals in the Clean Air Act."

In conclusion, Clinton said, "Of all the people I considered for this position, I thought she had the best mix of experience working in the Energy Department, working in the private sector; and [she] has experience with traditional energy sources — coal, nuclear, oil — as well as the sources of the future — efficiency, alternative energy and natural gas."

O'Leary stated that she was "delighted" to accept the nomination. "In many ways," she added "I feel that I've been in training for this job for about 20 years. . . . Like President-elect Clinton, I believe we need change in the Department of Energy. Change is necessary because I know the same tried-and-true strategies do not work."

Benefiting From Diversity

About her being the second woman and third African-American named to Clinton's Cabinet, O'Leary commented, "The election of Bill Clinton and Al Gore has renewed . . . hope and dedication to public service through a policy, I believe, of inclusion for Americans with diverse ideas and diverse experiences. I believe that I represent that idea. . . . I believe that inclusion makes us stronger as a nation, because we benefit not just from the obvious diversity, but from diversity of experience and point of view and requirement."

The Best Mix of Experience

And Clinton added, "I did not receive [O'Leary's] name from a single women's group or a single minority group." During Clinton's December economic summit in Little Rock, Dennis Bakke, an independent power developer and "a friend of mine in the energy business . . . gave me her name. . . [A]nd . . . it turned out she was superbly qualified. She has the best mix of experience of anybody I considered."

During her confirmation hearing, O'Leary pledged, among other things, to find the best possible subcabinet officials to help her manage DOE, to clarify the agency's mission, to work with Congress and other administration officials in developing an energy policy that is integrated with environmental and economic concerns, and to give only

(continued on page 3)

Basis of CRADA: BNL's Expertise With T7

BNL has signed a Cooperative Research and Development Agreement (CRADA) with Novagen, Inc. of Madison, Wisconsin, to investigate the use of the bacterial virus T7 to make protein display vectors — powerful research tools for probing interactions of peptides or proteins with other biological molecules.

These vectors may also have important medical applications, such as the design of new drugs and medical tests.

The basic scientific studies to determine if T7 can be developed as a protein display vector will be done in BNL's Biology Department by its Chairman, Senior Biophysicist Bill Studier, and Biology Associate Alan Rosenberg, with technical support from Biology Associate Kathleen Griffin and Senior Laboratory Specialist Jutta Paparelli.

"T7 is attractive for this project because of the detailed knowledge that we have of how this virus works," said Rosenberg.

Working with other BNL colleagues over many years, the researchers have determined the genetic structure of T7, cloned each of its genes, and developed an expression system based on T7, capable of making almost any protein coded by a cloned gene. Patented in 1990 by Associated Universities, Inc., the T7 expression system is finding wide application in molecular genetics and biotechnology.

The CRADA technology involves modifying a T7 virus so that a novel protein cloned in the viral DNA can be displayed on the surface of the virus. To do this, the protein is fused to a T7 capsid protein, a protein normally found on the surface of the virus. The fusion must enable the novel protein to be assembled into the virus and be accessible for interaction with other biological molecules, without destroying the virus's infectivity.

Using genetic engineering techniques, the researchers will create a library of millions of such T7 viruses, each displaying a different protein or variant of a protein. Powerful methods of selection can be applied to the library to isolate viruses displaying proteins with desirable properties.

For example, viruses displaying improved antibodies can be selected using the natural interaction between antibody and antigen. Growth of the selected virus provides the gene of the displayed protein for further analysis and for making large amounts of the protein.

The researchers will use BNL's Scanning Transmission Electron Microscope to try to visualize displayed proteins to determine their number and location on the virus.

"Different viruses have been used by other researchers to create protein display vectors," Rosenberg said. "A T7 system may expand the application of this method to new proteins, and have particular advantages in ease of use and ability to create very large libraries of viruses. The experiments we have designed to make effective vectors should also enable us to answer some basic questions about the structure and assembly of the T7 virus."

Roger Stoutenburgh

In the Biology Department, Alan Rosenberg (left) and Bill Studier help Jutta Paparelli test a T7 display vector for infectivity. Standing behind them, Kathleen Griffin examines a flask of *E. coli*, the bacterial host for the T7 virus.

Robert Mierendorf and Robert Novy, the principal investigators from Novagen, will work on the techniques needed to make a large library of viruses and will develop the protein display vectors for a wide range of biological and medical applications. Novagen is a small, four-year-old biotechnology company that makes kits and reagents for molecular biology research, including the T7 expression system.

Funding for BNL's participation in this CRADA comes from the U.S. Department of Energy's Office of Energy Research, through the Research & Development Laboratory Technology Transfer Program. — Diane Greenberg

Coming Up

Samuel Krinsky, Deputy Department Chairman of the National Synchrotron Light Source (NSLS) Department, will give the next Brookhaven Lecture. His talk, "Towards a Brighter NSLS," will begin at 4 p.m. on Wednesday, March 8, *in the large seminar room of Physics, Bldg. 510.*

Leaving the Lab —After 35 Years or More

The Bulletin periodically salutes employees who retire with 35 or more years of service.

Bob Brown, DAS

Over the past 44 years, Bob Brown's forecasts of hurricanes, snow, thunderstorms and rain have been used as the basis of countless decisions to close up the Lab for the day, call out the snow plows and send employees home early, shut down computers and turn off accelerators, and call off field experiments and, even, BERA softball games.

Over the past 44 years as well, Bob Brown has played with the BERA Softball League, most of the time on the Phoubars. So he aims for the perfect forecast, because he doesn't like being held responsible for having softball games called off for nothing.

"Despite all the improvements in meteorological monitoring I've witnessed over the years, the atmosphere remains chaotic in nature. So, unless there is a breakthrough, I don't foresee the perfect forecast coming — so I guess it is time for me to go."

If you dial Ext. 2263 after 3 p.m. today, then you will hear Bob Brown's last forecast as one of the Lab's original weathermen. After calling the weather since 1948 for the Meteorological Services Group now within the Oceanographic & Atmospheric Sciences Division of the Department of Applied Science (DAS), Brown is retiring today.

Besides relying upon increasingly sophisticated technology to devise his forecasts, "I've always believed in the L.O.W. method of weather forecasting — look out the window," muses Brown, who came to BNL with a certificate in meteorology from the Spartan School of Aeronautics, Oklahoma. Since Brown was hired as a technician B in the Meteorology Services Group of the Reactor Division on November 29, 1948, BNL has been his first and only employer.

The reactor of the day was the Brookhaven Graphite Research Reactor, which had been under construction since August 1947. In order to commission and operate the BGRR, which came on line in August 1950, Brown was hired to help collect certain meteorological data used to model the local atmosphere.

This necessitated that Brown work on the 160-foot and the 420-foot metal-lattice towers, named King and Ace, respectively. Situated in the field behind Bldg. 51, where the 280-foot tower called Ten now resides, the towers were instrumented with detectors and recorders that had to be maintained. While both were equipped with elevators, it was still a long way up. "It was my first time working on an elevated structure," recalls Brown, "but I got used to it."

Brown was also one of the employees who helped load the uranium fuel into the reactor before its start-up.

From 1948 to 1963, Brown was involved in what were called smoke runs, to determine the diffusive nature of the atmosphere about BNL. During these experiments, smoke from generators was released at three different levels of the Ace tower, to see where the wind carried the gas and particulate. Instruments at ground level measured these concentrations at locations on and off site.

The results were used to produce what is called the "Brookhaven Gustiness Classification," which, for any given temperature, wind direction and speed, predicts where any spill of any gaseous material will come to the ground. This classification is still used as part of the Lab's emergency response program.

In 1954, Brown began studies at Hofstra University, earning a bachelor's in physics in 1966. In July 1957, the Meteorological Services Group, including Brown, was transferred to the then Instrumentation & Health Physics Division.

By this time, Brown was studying atmospheric pollution resulting from the emissions from industrial stacks. Beginning in the 60s, this took Brown off site, to help investigate emissions from single and multiple stacks of power and industrial plants from Northport to New York, New Haven, Hartford, Baltimore, Washington and the Ohio River Valley.

Then, from 1972 to 1984, Brown assisted in research for the then Atomic Energy Commission, investigating the feasibility of situating nuclear power plants off shore. While the first pair of these plants was planned for the Jersey shore, Tiana beach near Westhampton was the site of BNL's study of the interaction of atmosphere with ocean and land.

"We got good data, especially on sea breezes and how the air from both shores crosses Long Island to form an air column in the middle," recalls Brown. "We wanted to extend the study, but the idea to build those reactors never came to pass."

In January 1972, after a series of moves up the career ladder, Brown and his group moved into DAS. He received his final promotion, to Senior Meteorology Associate, in September 1980.

Acid rain was the penultimate problem with which Brown was involved. During field trips throughout the Northeast and Midwest, he assisted in the investigation of the chemical reactions in clouds and the concentrations of various chemicals inside, outside and downwind of various cloud types.

As part of his meteorological duties, Brown began to fly. "I put in tons of hours flying for BNL — so much so, I decided to get my pilot's license sometime in the 70s," says Brown, a former member of BNL's Aviation Club.

For the last three years, Brown has been a participant in ARM, the national Atmospheric Radiation Measurement program, for which he was compiling atmospheric guides to the various locations under consideration for research sites.

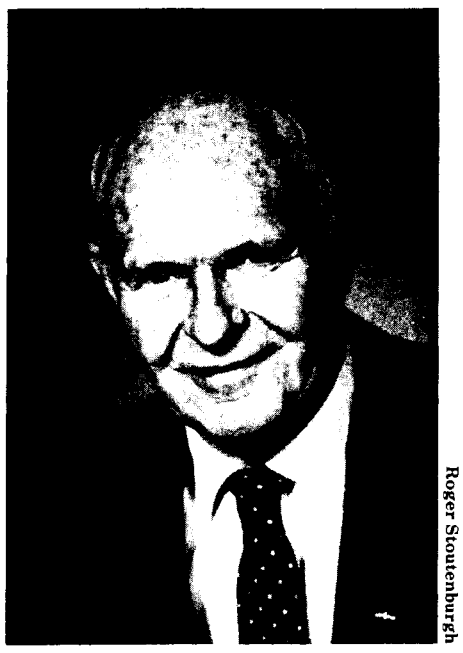
"Over the years, I've worked with hundreds of people, at this and from other labs, and they're what I'm going to miss the most," says Brown. "I want to thank those who were especially inspiring because of their dedication to the task at hand and to each project as a whole."

One person with whom Brown had worked at BNL with for four years and with whom he will now spend his retirement is his wife of 43 years, the former Gloria Duryea. In addition to taking care of his wife's "honey-do" list for their Brookhaven Hamlet home, Brown plans on spending his retirement fishing and clamming in the Bay, playing with the old-timers' softball league in Patchogue, and visiting with his two sons and five grandchildren.

Just as he was getting ready to retire, Brown was recently asked to perform his most difficult forecast — a long-range prediction of the weather on the day the daughter of one of his bosses was to get married.

"It was to be an outdoor affair, so he wanted to know two weeks in advance what type of weather to expect. I decided I could stick my neck out because, since I had already told him I was retiring, I knew I couldn't get fired."

By the way, Brown's prediction for the day matched its weather — perfect. — Marsha Belford



Roger Stoutenburgh

Bob Brown

Paul Edwards, SEP

Paul Edwards began his career at Brookhaven in 1957 as a technician in the Health Physics (HP) Division. He worked out of Bldg. 44/45, which, he says, "would be hard against the Chemistry Building auditorium, if it were still standing today."

Besides buildings, a lot has changed at the Lab over the last 35 years, according to Edwards, who is now Senior Technical Supervisor in the Safety & Environmental Protection (SEP) Division — and retiring today, February 26.

One big change Edwards noted is a greater emphasis on environmental issues. Another is the smaller, more sophisticated electronic equipment now in use at the Lab and elsewhere.

"When I was in the Marines, from 1951 to 1954," he recalls, "I learned electronic repair by working on jets that had the first aircraft fire-controlled systems. The system contained 500 vacuum tubes and a computer the size of a footlocker. The old gear was well-made, and taxpayers got their money's worth. But today, that computer would be the size of a cigarette package, smarter and more reliable."

Remembering the Lab's early days under former Lab Director Leland J. Haworth, Edwards says, "The work ethic was so strong that the older employees did not want to leave the Lab at retirement age."

Also, there were no traffic problems at quitting time. "Without any police directing traffic," Edwards recalls, "everyone voluntarily took turns feeding into the traffic going to both the north and south gates."

Though there was no dress code early on, Edwards regarded BNL employees' mode of dress then as more formal and more agreeable. "The men wore suits, shirts and ties and the women wore dresses to work, not pajamas or shorts," he says.

Edwards's first assignment at BNL was checking radioactivity levels at ten "monitoring shacks" around the site and surrounding area — routine checks to be sure radiation levels from the Lab's research operations were within government guidelines. This monitoring program began when the Lab first opened in 1947 and continues to the present.

From 1967 to 1972, Edwards worked as a fire & safety specialist in HP, doing safety inspections of various nonscientific support groups, such as Photography & Graphic Arts and Plant Engineering. "The safety checks I performed may have seemed a nuisance, but the vast majority of employees gave me their full cooperation. To this day, I am thankful to them," he says.

In the early 1970s, Edwards started working as a Technical Supervisor in the "Igloo" — the Hazardous Waste Management (HWM) area at the eastern end of Brookhaven Avenue, and he said he will miss the hard-working crew there. Edwards supervised the group, which handled all radioactive and chemical waste, radioactive decontamination, maintenance of respirators, and testing of radioactive filters.

Roger Stoutenburgh

Paul Edwards

Edwards moved with the HWM group to the Safeguards & Security Division in 1983, doing the same work, but joining with the Aqueous Radioactive Waste Treatment Group at Bldg. 801/811.

In 1985, Edwards started to work for SEP, when the HWM group was incorporated into that division. "The same work continued with an ever-increasing regulatory burden," Edwards says.

"Now I'm looking forward to getting on with the last third of my life," Edwards says. "The Lab's retirement plan will be good to me, but with rising taxes and inflation, it's hard to plan ahead. My wife Carolyn and I were both born and raised in Riverhead, and we have lived in Mattituck for 34 years. We may sell our home after she retires in a year and a half and move to a less expensive place than Long Island. I don't know where yet, but I hope it will be somewhere near salt water."

Edwards enjoys fishing and sailing, and he has built two boats for his own use: a 23-foot Friendship sloop and a rebuilt 31-foot sloop. He also enjoys radio-controlled airplanes, and said he may work part-time at construction to "pay for my recreation."

Also, the Edwards's will now have more time to spend with their three grown daughters: Terry, an anesthesiologist who lives in Southold; Brenda, a marketing consultant in White Plains; and Donna in Poughkeepsie, who just passed her CPA exam. — Diane Greenberg

Road Closing

The section of Bell Avenue adjacent to the tennis courts will be subject to closing March 1 - 5, to allow underground utilities to be installed.

Hospitality News

Jan Rohrer will demonstrate how to make mop doll wall hangings at the next Hospitality Committee get-together on Tuesday, March 2, at 9:30 a.m., in the lounge of the Recreation Building in the apartment area. To learn how to make them, just bring a pair of scissors, a needle to use with regular thread, and a ballpoint pen with a cap. Rohrer will provide the other materials.

Spouses of Lab employees and guests are welcome; bring the children and one of their favorite toys.

Hazel O'Leary (cont'd)

"straight talk" about the department.

Before her confirmation, O'Leary, a 55-year-old lawyer, had, for three years, served as Executive Vice President of corporate affairs at Northern States Power Company, a Minnesota-based nuclear- and coal-fired utility which provides 1.6 million customers in the Upper Midwest with electricity. In that position, she was in charge of environmental affairs, the legal and personnel departments, and public relations. Having joined the utility in 1989, O'Leary was to become president of NSP Gas, the utility's natural gas business, in January, had she not been confirmed as Energy Secretary.

No stranger to government, O'Leary held top regulatory posts under the Ford and Carter administrations, during which she became an expert in energy policy. Both energy executives and environmentalists alike credit O'Leary with developing some of the government's most useful conservation programs.

During Gerald Ford's presidency, she joined the Federal Energy Administration (FEA) in 1974, to serve as Director of the Office of Consumer Affairs/Special Impact. From 1976 to May 1977, she worked as FEA's General Counsel to the Community Services Administration. Beginning in May 1977, O'Leary served as FEA Assistant Administrator for conservation and environment.

That October, when President Jimmy Carter merged the FEA into the then newly created DOE, O'Leary became Deputy Administrator of the Economic Regulatory Administration (ERA), which, within DOE, managed conservation programs and handled overcharge cases against oil companies.

After a brief stint with the Washington office of the international accounting firm Coopers and Lybrand, May-December 1979, O'Leary returned to DOE in January 1980 as ERA Administrator.

She left DOE in 1981, when she joined O'Leary Associates, an international consulting firm specializing in energy economics and strategic planning founded by her late husband John O'Leary, who had served as Deputy Secretary of Energy under Carter. Within the firm, she spent eight years as Vice President and General Counsel.

Born in Newport News, Virginia, Hazel O'Leary graduated from Fisk University in 1959, took her law degree from Rutgers University in 1966, and is a member of the bar association in the District of Columbia and New Jersey. After being graduated from law school, she worked as an assistant attorney general for New Jersey and an assistant prosecutor in Essex County, New Jersey. — Marsha Belford

Arrivals & Departures

Arrivals

Margery A. Connelly.....Biology
Gregory P. Rodzevik.....PE

Departures

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

Kandallu R. Kumaresan.....Biology

BROOKHAVEN BULLETIN

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Indian Artists in Instrumental Concert

Indian artists Ulhas Bapat and Nishikant Barodekar will be featured in an instrumental Indian music concert to be sponsored by the BERA Indo-American Association, on Friday, March 5, at 7 p.m., in the seminar room of Physics, Bldg. 510.

An accomplished player of the santoor, an Indian instrument similar to the hammered dulcimer, Bapat is unlike all other santoor players in that he tunes all 12 notes on the instrument, which facilitates switching from one raga to the next instantly. He also creates a greater aesthetic appeal and tenderness in his recitals through a new technique that has been called "an unparalleled invention in santoor."

Barodekar will accompany Bapat on Indian drums known as tabla. With several records to their credit, the artists are now on tour in the U.S. and Canada.

Admission is $10 adults, $5 children. For information, call A.M. Topé, Ext. 5672, or Jan Naidu, Ext. 4263.

Ulhas Bapat on santoor.

Candidates Named For BERA Board

The BERA Nominating Committee has selected the following slate of candidates for the 1993 BERA Board election: Augie Hoffman, Physics Department; Denise Monteleone, Biology Department; Bridget Ramos, Department of Nuclear Energy; and Barbara Simpson, Division of Contracts & Procurement.

During the week of March 22-26, eligible BERA members, including all employees of BNL, AUI and DOE, and all other permanent on-site employers, may cast their ballots to elect two of the four candidates to serve on the BERA Executive Board.

More information on the candidates and the election will be published in a future issue of the Bulletin.

Bowling

Grumman Industrial Tournament Week #1 (4 Games)

R. Mulderig bowled a 258/221/216, R. Larsen 245/212, R. Wiseman 215/214/208, H. Arnesen 216.

The BNL team, currently in second place, is bowling magnificently. R. Raynis bowled as a pacer with games of 279/257/217.

Red/Green League

K. Asselta bowled a 234/617 scratch series, A. Warkentien 226/213/207/646 scratch, F. Griswold 223, R. Eggert 222/206/607 scratch, M. Guacci 215, J. Muller 213, K. Koebel 211, G. Sorensen 211, W. Cahill 210, R. Raynis 208, W. Kristiansen 204, A. Sauerwald 204, H. Arnesen 203, R. Wiseman 203, R. Mulderig 200.

Purple League

Ed Beadle bowled a 237/219/629 scratch series, Rich Larsen 217/589 scratch.

White League

Ray Ranis bowled a 216, Phil Radusewicz 210, Fran Brown 188, Maryann Reynolds 178/176, Pat Oster 174. Jim Meier converted the 2-4-7-10 split.

Scotch Doubles

The Scotch Doubles Tournament will be held Sunday, March 7, at 1:30 p.m., at the Port Jefferson Bowl. At $24 a couple, the tournament is open to BNL employees and immediate family members.

Applications are available at the BERA Sales Office; the deadline is Friday, March 5. If you need a partner or have any questions, contact Fern Simes, Ext. 3969, or Ed Sperry IV, Ext. 2674.

Volleyball

Standings as of February 17

Open League		League I	
The Roofing Co.	39-12	Network News	38-10
GTeam	36-15	Upfagrabs	32-13
Penetrating Vollies	18-30	Rude Dogs	31-14
Farside	17-34	VolleyBallAholics	30-18
Me & the Boys	16-35	Underdogs	15-30
		Fornossing	7-38

League II		League III	
Monday Nite Live	37-5	Jolly Vollies	29-13
Safe Sets	32-10	High Volley'em	25-17
Nuts & Bolts	25-17	Upton Ups	25-17
Fossils	22-20	Nutcrackers	22-20
Night Court	16-26	Volley of the Dolls	22-20
Net Wits	15-27	Silver Bullets	20-22
Sourcerers	11-31	Mis-Fits	13-29
Just Up	10-32	Hairballs	12-30

CCD Offers Courses

Depending upon interest and strength of commitment, the Computing & Communications Division (CCD) will offer the following courses:

- **Solaris 2.1 System Administration** — five days, about $200/seat, latter part of April.
- **AIX Version 2 Application Programming for FORTRAN Programmers** — five days, about $600/seat, latter part of April.
- **UNIX Shell Programming** — 2.5 days, about $300/seat, later in spring.

For more information or to sign up, contact Ron Wittlock, Ext. 4112, or Email, wittlockbnl.gov.

Volunteers Needed

Male volunteers, ages 25 to 45 and in good health, are needed to participate in brain ~~and heart~~-imaging studies being conducted by BNL. A fee will be paid; supervisory approval is required. For more information, call Naomi Pappas, Ext. 2694.

DJ Night

At the Center Club

Featuring E.T.

Friday, March 5, 7 p.m.

Free Admission

All-You-Can-Eat Buffet

5-7 p.m. — $9.95

Softball

A Softball captains' meeting will be held on Wednesday, March 3, at noon, Room C, Berkner Hall. All preliminary rosters must be turned in at this meeting. If you are interested in forming a team or are looking for a team to play on, call Denise Miesell, Ext. 5873.

Basketball

Games of February 18

Trailblazers 84		Deep Six 47	
R. Domenech	17	R. Hart	13
M. Leblanc	16	D. Eleazer	10
T. Fountaine	14	N. Donahue	9
T. Mayo	12	T. Posillico	7
C. Edwards	12	J. Desmond	4
S. Springston	7	U. Tapley	4
G. Mack	4		
A. Jones	2		

3-point shots: R. Domenech (3), D. Eleazer, R. Hart

Magic 84		Scram 59	
T. Buck	30	T. Powers	19
D. Hoggard	30	J. Duggan	16
M. Williams	11	J. Skonieczny	9
D. Branch	10	E. Gregory	9
J. Garrison	3	S. Coleman	4
		J. Barkwill	2

3-point shots: J. Garrison, E. Gregory, D. Hoggard, T. Powers (3), M. Williams (2)

Picture This: Manhattan Skyline

All are invited to join the BNL Camera Club during a photo shoot of the world's most photographed skyline — lower Manhattan — on Saturday, March 20, with a rain date of March 27. By clearing the view of any air pollution, the March winds make next month the best time for a photo shoot. Some spectacular views may be seen and shots may be taken from World Trade Center, the Brooklyn Promenade and the Brooklyn Bridge — so come with or without your camera.

The club will depart the Lab at 1 p.m., so cameras may be set up in time to catch the sunset. Car pools or buses are being arranged. To be part of this trip, call Ripp Bowman, club treasurer, Ext. 4672, before Monday, March 8.

AA Meetings

Next month, Alcoholics Anonymous (AA) meetings will be held on site after work on the following Mondays: March 1, 8, 15, 22, and 29. All employees, retirees, others working on site holding current BNL identification cards and their dependents are invited to attend.

For the location and times of the meeting, call the Employee Assistance Program (EAP), Ext. 4567. Callers will not be asked to leave their names, and all calls are confidential. Meeting information may also be obtained by writing to P.O. Box 641, Upton NY 11973.

Cafeteria Menu

Monday, March 1	
Soup: Chicken noodle	.80/1.10
Entree: Fried liver w/onions & bacon	3.35
Lite Choice: Pasta primavera	3.20
Carvery: Hot pastrami sandwich	2.95
Grill: California club burger	3.25
Taster's Bar: Chicken wings	(oz.) .25
Tuesday, March 2	
Soup: Split pea	.80/1.10
Entree: Stuffed cabbage	3.45
Lite Choice: Chicken Dijon	3.35
Carvery: Hot roast beef sandwich	2.95
Grill: Reuben platter	2.95
Taster's Bar: Pizza bagels	(oz.) .25
Wednesday, March 3	
Soup: Beef barley	.80/1.10
Entree: Pepper steak over steamed rice	3.45
Lite Choice: Baked fish Kiev	3.45
Carvery: Hot ham sandwich	2.95
Grill: Italian steak hero w/fries	2.95
Taster's Bar: Taco bar	(oz.) .25
Thursday, March 4	
Soup: Cream of mushroom	.80/1.10
Entree: Veal Parmesan w/vegetables	3.35
Lite Choice: Turkey divan	3.20
Carvery: Hot corned beef sandwich	2.95
Grill: Chicken breast w/wild rice	3.35
Taster's Bar: Chicken wings	(oz.) .25
Friday, March 5	
Soup: Manhattan clam chowder	.80/1.10
Entree: Catch of the day	3.65
Lite Choice: Vegetarian pizza	3.60
Carvery: Hot turkey sandwich	2.95
Grill: Tuna melt w/tossed salad	2.95
Taster's Bar: Seafood nuggets	(oz.) .25

Movie Night . . . Brookhaven Center
Wednesday, March 3 . . . 8 p.m.
***Beethoven* . . . free popcorn!**

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action plan, selections are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, and, second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings.

SCIENTIFIC RECRUITMENT - Candidates may apply directly to the department representive named.

POSTDOCTORAL RESEARCH ASSOCIATE - trained in experimental condensed matter physics, with emphasis on measurements describing microscopic interactions in solids. Experience in diffraction techniques such as neutron, x-ray or light scattering is desirable. In addition to carrying out original research in the field of neutron scattering study of solids utilizing the HFBR, the successful candidate should have an interest in developing new instrumentation and techniques. Contact: Gen Shirane, Physics Department.

POSTDOCTORAL RESEARCH ASSOCIATE - trained in high energy physics theory, to do research in areas including electroweak phenomenology, lattice gauge theories and quantum chromodynamics. Contact: William J. Marciano, Physics Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 0511. SECRETARIAL POSITION - (term appointment, part-time) Requires AAS in secretarial science or equivalent, excellent communication skills and demonstrated organizational skills. WordPerfect 5.1 also required. Will assist Administrative Assistant to RHIC Project Head with various clerical/secretarial tasks such as maintenance of Project Office files, RHIC report library and author publication files. RHIC Project.

DD 0489. OFFICE SERVICES POSITION - Requires AAS in secretarial science or equivalent, excellent communication skills and a knowledge of Laboratory policies and procedures. Word processing experience is also required; WordPerfect 5.1 preferred. Computer database experience helpful, as is IPAP travel system experience. Will provide varied support to Department Chairman's office including meeting room reservations, scheduling of seminars and colloquia, maintenance of Department personnel files, processing of standard forms and other support functions as required. Physics Department.

DD 2356. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent and significant Laboratory experience, as well as excellent communication skills, WordPerfect 5.1 experience on IBM PC and/or Macintosh Microsoft Word and IPAP travel-system experience. Also required is the ability to obtain and maintain DOE security clearance. Will act as lead secretary performing both administrative and secretarial duties for the Division Head and staff of the Safeguards, Safety and Nonproliferation Division. Duties will include typing technical and administrative reports and correspondence, arranging foreign and domestic travel, maintaining division files, as well as supervising three group secretaries. Department of Nuclear Energy.

MK 108. REFRIGERATION AND A/C ENGINEER, GROUP LEADER - Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS 0191. ENGINEERING POSITION - Requires a BSME and a minimum of five years' design experience in all mechanical aspects of facilities design, including HVAC, fire protection, plumbing and various mechanical systems. Familiarity with AutoCAD and general computer skills are preferred; field-construction experience and professional registration are desirable. Plant Engineering Division.

LS 5595. PROGRAMMING/ANALYST POSITION - Requires a BS in computer science and experience with UNIX, C language, FORTRAN and shell scripts, as well as Sun system administration. Familiarity with TCP/IP networks, FTP and self-describing data-transfer formats such as NetCDF and HDF is desirable. PC and Macintosh experience is helpful. Strong background in mathematics and physical science is an asset. Responsibilities include system administration for Sun workstations, and development of programs for conversion of data from NetCDF and HDF to formats suitable for analysis and visualization on PCs and Macintoshes. Department of Applied Science.

MK 5531. COMPUTING/ANALYST POSITION - Requires BS degree, preferably in computer science, and a minimum of five years' networking experience. Experience with TCP/IP, DECNET, IPX and Appletalk protocols over Ethernet and FDDI networks required. A background in building and managing heterogeneous networks of workstations, large systems and PCs necessary. Customer-service orientation, knowledge of UNIX, and network management-system experience are mandatory; knowledge of Internet is highly desirable. Responsibilities include the design, planning, installation and operation of a 2000+. node LAN/WAN network. Computing & Communications Division.

DD 0486. ENGINEERING POSITION - (term appointment) Requires BSEE and significant experience in the design and construction of electronic circuits and/or transmission lines, a knowledge of computer-aided design packages, such as SPICE, and a thorough knowledge of flexible circuit-design rules. Duties will include the design and construction of high-quality signal transmission lines. Physics Department.

DD 0487. DESIGNER POSITION - (term appointment) Requires AAS or equivalent experience and a minimum of five to 10 years' experience designing machinery and mechanical equipment. Full knowledge of design fundamentals is required, including strength of materials, materials application, use of stress/strain formulas, machining and assembly procedures, drawing practices, and dimensioning and tolerancing. Three to five years' full-time computer drawing experience is required; AutoCAD release 12 preferred. Experience with various computer systems and networks desired. Physics Department.

MK 8087. CHEMISTRY ASSOCIATE POSITION - (part-time, term appointment) - Requires a BS in chemical engineering and substantial experience in chemical engineering design, plant instruction and process evaluation. Duties will include analytical work with the induced coupled plasma mass spectrometer. Department of Applied Science.

Motor Vehicles & Supplies

92 FORD EXPLORER - w/Ford extended guar. to 75k mi., best offer; '89 Mercedes 190E, 2.6, excel. cond., best offer. Mike or Ellen, 665-4495.

91 FORD TAURUS GL WAGON - 9-pass., blue int./ext., power everything, 40k mi., am/fm cass., cruise, tilt, driver air bag, more, $10,600. 475-9027.

87 BMW K100 MOTORCYCLE - 1000 cc, sport fairing, silver w/blue rims, Corbin seat, full cover, 14k mi., $2,500. Bob, Ext. 2023 or 744-3289.

87 HYUNDAI - 5-door h/b, stereo cass., sunroof, ac, 5-spd., m/t, new exhaust, blue, reliable, v.g. cond., $1,995. George, Ext. 4810 or 472-1479.

87 CAMARO - V-6, ac, a/t, alarm, blue/black int., excel. cond. in/out, $4,150. 878-0735.

86 PLYMOUTH VOYAGER - 2.6L, 4-cyl., 80k mi., v.g. cond. Ext. 2420 or 341-1020 eves.

86 MAZDA B-2000 PICKUP - high mileage, excel. cond., $2,500 neg. 821-8328, leave message.

86 FORD ESCORT WAGON - 5-spd., 87k mi., economical, convenient size, runs well, avail. March, $1,900. Tom, Ext. 7196 or 286-2505.

85 SUBARU XT COUPE - lt. blue, 5-spd., am/fm cass. stereo, sunroof, 96k mi., $1,900. 588-9325.

85 BUICK SKYHAWK - 4-dr., silver, a/t, p/s, p/b, ac, am/fm, 4-cyl., 87k mi., excel. cond., $2,200. Alex, Ext. 3723 or 341-1018.

81 CHEVY CAPRICE - 108k mi., runs well, great station car. Rob, Ext. 4501 or 736-1724 after 4:30.

80 EAGLE WAGON - 4wd, new motor, many new parts, ask. $2,000; '31 Chrysler, 2-dr., rum. seat, all orig., ask. $8,000. 654-8955 or 289-5704 after 5 p.m.

79 PONTIAC WAGON - full-size, p/b, p/s, ac, runs well, $650. Al, Ext. 2957.

78 DODGE DIPLOMAT - 318 V-8, 4-dr., a/t, 100k+ mi., rebuilt trans., new radiator, runs well, needs rear end, $200. Don, Ext. 7237 or 744-2921 eves.

78 CHEVY MONTE CARLO - 350 motor, clean, asking $1,750. Steve, Ext. 3849 or 929-0586.

78 BLAZER 4x4 - full-size, 33" tires, 400 c.i. V-8, $2,000. Edwards, Ext. 4308 or pager 6158.

77 CADILLAC - blue, good running car. Ext. 3457.

70 CHEVROLET - runs well, $275 firm; '78 Honda Civic wagon, sell as parts, you tow. Darryl, Ext. 7892.

CLUTCH - '80 Toyota Tercel, 5-spd., $30. Bob, Ext. 7238.

BED LINER - Nerf bars & works manual for '91 Nissan Pickup. Mike, Ext. 3639.

VISOR - Lund, for late model Toyota pickup, new, still in box, $100. Ken, 473-7460.

RIMS - 4, ARE Directional Chevy, 6-lug, $125/4. John, Ext. 5565.

UTILITY TRAILERS - 4'x10', w/sides & storage box, $225; 40"x68", perfect for ATC, $125. Bill, Ext. 4986 or 563-1940.

Boats & Marine Supplies

22' GRADY WHITE SEAFARER - 1985, 185-h.p. Johnson ob., dual batt., VHF, fish finder, Loran, canvas top, more. Norbert 929-4886.

22' FORMULA - 1984, 260-h.p. Mercruiser, mint cond., w/trailer, $13,200. Ken, 473-7460.

LORAN - Koden 757 TD's only, cross track error, time to go, oldie but reliable, w/coupler, $75. Brian, Ext. 2799.

Sports, Hobbies & Pets

CURL BENCH - Preacher, like new, $50. Frank, Ext. 5120.

BICYCLE - Nishiki Citi-Sport, 10-spd., w/accessories, $125; black leather bar, like new, w/3 high-back stools. 474-1859.

CELLOS - German, w/pernambuco bow, case, $2,500; Suzuki, w/Cushy case, $700, both ¾ size & premium strings. Ext. 4356 or 928-3371.

GUITAR - Franciscan, Spanish style, nylon strings, w/case & 2 starter books, never used, $100. Larry, Ext. 4295.

LIFT TICKETS - 4, Belleayre Mt., 1992-93 ski season, $10/ea. Ext. 4567 or 878-8491.

PIANO - baby grand, circa 1917, black, w/bench, new action & keys, $1,000 or best offer. Darcy, Ext. 3362.

Miscellaneous

BOOKS - *I Can't Believe I Said That,* by Kathie Lee Gifford, $10; more; boy's snowsuit, $30; snow pants, $15, both size 14, 472-3254.

BOOKS - Nuclear Physics, Maimier & Sheldon, *Physics of Nuclei and Particles,* Volumes I & II, $10/ea. Margaret, 473-9129.

BLOOD PRESSURE MACHINE - digital, $25. 689-9234.

COAT - woman's, fake fur, grey, full length, medium, $30. 654-0924.

RING - 1.3 carat, amethyst, sterling silver setting, size 7, $35. Carol, Ext. 3325.

SUITCASE - vinyl, like new, $15; electric blanket for twin bed, never used, $20. Joann, 472-6742.

TICKETS - 4, Islanders vs. Ottawa Senators, Sat., 4/10, $30/pair, $56/all. John, Ext. 2957.

Free

CAT - female, 6 yrs. old, calico, declawed, spayed, very affectionate, needs a good home. Christine, 265-4572.

REFRIGERATOR - w/freezer, works well, non-self-defrosting, you pick up. Joe, Ext. 5139.

STEEL TRACKS - four, 3½'x10', you pick up. Janet, Ext. 2345 or 929-3910.

Lost & Found

FOUND - on 2/17, keys in parking lot of Bldg. 130 and 477A, Research Library, LaRosa, Ext. 5342.

Car Pools

STONY BROOK/LAKE GROVE - established car pool needs new member(s). Ext. 5080 or 4192.

Real Estate

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

For Rent

BROOKHAVEN - room for rent, complete use of large house in quiet area, kit., w/d, etc., $350/mo. including util. Sidney Stafford, 286-4028.

BROOKHAVEN HAMLET - 1738 restored 2-bdrm. Eng. cottage, hand-hewn beams, planked floors, 2 baths, fp in d/r, greenhouse off kit., $1,200/mo. + sec. & util. Sue, Ext. 2888 or 286-0422.

CORAM - mature working male to share 2-bdrm. apt. w/same, l/r, eik, full bath, off Middle Country Rd., $450/mo. all. 821-3306 after 4:30 p.m.

CORAM - 1-bdrm. upper co-op, l/r, d/r, kit., bath, cac, pools, clubhouse, rent w/option to buy, $675/mo. + electric & cable. 265-4572.

MEDFORD - 2-bdrm. Blue Ridge condo, 1½ baths, mirrored l/r, all appl., cac, w/w, golf, tennis, in/outdoor pools, sauna, whirlpool, activities, excel. move-in cond., avail. 3/15, $900/mo. 736-8742.

MEDFORD - 1-bdrm. Blue Ridge upper condo, l/r, d/r, kit., appl., cac, club facilities, $740/mo. + sec. Russ, Ext. 3059 or 758-3952 after 6 p.m.

MIDDLE ISLAND - Coventry Manor, 3-bdrm. townhouse, 2 baths, l/r, d/r, kit., laundry rm., cac, 5 appl., encl. patio, pool, tennis, $875/mo. +. Rosalie, Ext. 3160 or 289-5704 after 5 p.m.

MILLER PLACE - studio apt., priv. ent., part. furn., kit.-l/r combo, bdrm., full bath, you pay ⅓ elec. & full cooking gas, $435/mo. + 1 mo. sec., no lease. Mike, Ext. 3981.

PORT JEFFERSON STATION - walk-in 1-bdrm. apt., ac, own heat & hot water, priv. home, $600/mo. incl. all. Bob, 473-9180 eves.

PORT JEFFERSON STATION - 1-bdrm., l/r, d/r, kit., full bath, pvt. ent., part/ furn., $575/mo. + sec. 473-4827 weekends or weekdays after 5 p.m.

RIDGE - furn. studio apt., kit., bath, priv. fenced yard, 3 mi. from Lab, $490/mo., avail. 4/1. Ext. 2673 or 744-8632.

RIDGE - large 1-bdrm. apt., l/r w/dining area, priv. ent., avail. 1/15, no pets, near Wm. Floyd, 5 min. to Lab, $650/all + sec. Ext. 5076 or 744-4615.

ROCKY POINT - 1-bdrm. house, lg. yard, deck, loft, cath. ceiling, ½ block to beach, ideal for single. John or Lainie, Ext. 3883 or 821-4165.

ROCKY POINT - new 2-bdrm. apt., eik, l/r, only 10 min. from Lab, $690/mo. Khalid, Ext. 3800 or 744-5895 after 6 p.m.

SELDEN - studio apt., kit., bath, pvt. ent., quiet area, near shopping & buses, immed. occup., $525/mo. incl. util., + 1 mo. sec. 689-1539.

SELDEN - 1-bdrm. bsmt. apt., sep. ent., furn., quiet area, $500/mo. incl all. Yolanda, 732-6634.

SHOREHAM - new 1-rm. apt., full bath, kit., sep. thermostat, patio, priv. ent., quiet, single, nonsmoker, no pets, immed. occup. 821-4318.

ORLANDO, FL - timeshare 1-bdrm. apt., sleeps 4, fully equipped, 5 min. to Disney World by car or bus, 1 week in July, Fri.-Fri., you pick the date, $600/wk. Ext. 2683 or 751-2469.

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

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, beach, golf nearby, tennis on-site, $300 Jan-Mar. Guy, Ext. 3147 or 689-9537.

VERMONT - 2-bdrm. + loft ski chalet, wood stove, 8 miles Mt. Snow, 3 night minimum, $125/night, weekdays & weekends avail. Lloyd, Ext. 5225.

MT. HOLLY - 2½-bdrm. A-frame, furn., kit. bath, wood stove, deck, 10 min. to Okemo, 25 min. to Killington, snowmobile trails, X-country skiing, $325/wknds, $495/wk. Tom, Ext. 2823.

ST. THOMAS - 4/24-5/1, villa, sleeps 4, ideal for couple w/child, Bluebeard's Castle overlooks town & harbor restaurants, pool on site, transport to town & beach. John, 924-4262.

For Sale

BAITING HOLLOW - 4-yr.-old 3-bdrm. Cape, 2½ baths, l/r, d/r, country kit. w/fp, study, 2-car gar., full bsmt., ½ acre, priv. community & beach, low taxes. K. Hygom, 369-5733.

BELLPORT - 3-bdrm. ranch, l/r w/fp, d/r, bath, bsmt., deck, det. 3-car gar., shy ½ acre, SCSD, city water, garbage pickup, near village & dock, ask. $129,990. Maryann, Ext. 5241 or 286-3377.

BELLPORT VILLAGE - secluded 2-bdrm. home, near golf & tennis, lots of Fr. doors, & decks, outdoor Jacuzzi, 2 full baths, ⅔ acre, s. of S. County Rd., $248,000. Sue, 286-0422 after 6 p.m.

CALVERTON - 1-bdrm. starter house, mint., bsmt., fenced, wooded, rear deck, shed. 929-6540.

CALVERTON - 3-bdrm. cape, 2½ baths, l/r, d/r, eik, den, bsmt., shed, cable, ¼ acre, fenced, low taxes, $125,000. Antoinette, 874-2340 eves.

CALVERTON - 2-bdrm. townhouse, 5 appl., carpeted, cac, fp, patio, upper deck, neg. assum. mortgage. Ext. 3558.

CENTEREACH - 4-bdrm. Cape, 2 full baths, new 2-zone oil-heating unit, Florida rm., eik, l/r, gar., full bsmt., 80'x100', fenced, walk to stores, $115,000. 981-0551.

EAST MARION - 1-acre bldg. lot, adjacent to greenbelt, walk to sound. 325-0447.

E. SETAUKET - 4-bdrm. split level, 2½ baths, 3VSD, ⅓ acre, igp/igs, rear deck, well landscaped, all appl., $184,900. 473-5376.

E. SETAUKET - 4-bdrm. Worthington Col., 0.51 acre, wooded, prof. landscaped, mint., 2½ baths, l/r, d/r, eik, den w/fp, deck, bsmt., 2-car gar., oak floors, $219,000. J. Lee, Ext. 2248 or 689-8548.

MANORVILLE - 3-4 bdrm. Col., safe family neighborhood, 2½ baths, master suite, oak kit., fd/r, fp, fam. rm., igp, igs, gar., bsmt,. satellite dish, landscaped acre, $179,000. 878-9239.

MEDFORD - 2-bdrm. Blue Ridge condo, 1½ baths, mirrored l/r, all appl., cac, w/w, excel. move-in cond., golf, tennis, in/outdoor pools, sauna, whirlpool, clubhouse, $95,000. 736-8742.

MILLER PLACE - 2-3 bdrm. Cape Cod, full dormer, RP schools, full bsmt., 0.27 acre fenced, priv. deck, fp w/wood stove, 4-zoned OHWH, 1½-car heated det. gar., appl., $113,000. 744-4386.

MT. SINAI - 4-bdrm., 1½ baths, l/r, fd/r, eik, foyer, den w/fp, sunroom, jacuzzi, deck, w/w, all appl., bsmt., new Weil-McLain, new windows, excel. schools, gar. Rosemary, Ext. 3484, 473-8717.

NORTH CORAM - 3-bdrm. ranch, 2-car gar., wood stove, 0.36 acre fenced, gas heat, 1.5 bath, all appl., new Andersens, cath. ceilings, cement patio, $118,000. Nancy, Ext. 3005 or 698-0339.

RIDGE - custom-built 4-bdrm., 1+ acre, hardwood floors, Andersens, 2500 sf, 2½ baths, skylight, lg. bsmt., 3-zone heat, gar., fam. rm., l/r, d/r, kit, extras, $165,000. 924-3476 after 5 p.m.

ROCKY POINT - 3-bdrm. L-ranch, 2 baths, new eik, d/r, l/r, carpeting, vinyl siding, bsmt. den, patio, shed, 2 in-wall ac's, more, $139,900. 744-1958.

ROCKY POINT - just built 4-bdrm., 2 full baths, eik, full bsmt. w/8' ceiling, cathedral ceiling in l/r, laundry rm., vinyl siding, $125,000. 744-2153.

ROCKY POINT - 4-bdrm. Col., 2½ baths, gas heat, cac, l/r, d/r, eik, den, fin. bsmt., gar., low taxes, ask. $130,990. Don, Ext. 7237 or 744-2921 after 5 p.m.

SAYVILLE - 2-bdrm. Cape, mint. newly renovated, eik, gar., carpet/ceramic tile, new boiler, easy maint. in/out, low taxes, $118,000. Ext. 5327 or 567-8179.

SELDEN - 3-bdrm. ranch, 9 yrs. old, cul-de-sac, l/r, d/r, eik, den, laundry, gar., landscaped ½ acre, fully fenced, igs, new semi-inground pool, many extras. $132,000. Brian, Ext. 4028.

SHOREHAM - bldg. lot, ½ acre waterview, priv. beach, all approvals, ready to build, 80's neg. 821-2815.

SOUND BEACH - MPSD, 3 bdrm., l/r, den, 2 baths, ¼ acre fenced, deck, 18' pool, excel. loc., 2 storage sheds. Lisa, 821-3306, or Bob, Ext. 2309.

SOUTHAVEN/SHIRLEY - architect-designed 3-bdrm. Calif. ranch, 2 baths, 3-sided fieldstone fp, beamed cath. ceilings, built-in BBQ, 2-car gar., fenced, landscaped, $120,000, neg. 924-5062.

WADING RIVER - 3-bdrm. ranch, beach community, steps to beach, eik, fd/r, ac, trees, fin. bsmt., deck, lg. shed, 1½ baths, cyclone fence, ½ acre, low taxes, $124,900. 744-3842.

YAPHANK - Whispering Pines, 3-bdrm. townhouse, 2½ baths, fin. bsmt., extended brick patio, pool, clubhouse, mint cond., 5 min. from Lab, $110,000. 924-6605.

STUART, FL - 2-bdrm. waterfront condo, 2 baths, end unit, 3rd floor, screened porch, clubhouse, pool, $73,000 unfurn., $75,000 furn. Beth, Ext. 5630 or 472-0706.

DELAWARE COUNTY, NY - 62 acres, 1390' frontage on road + furn. cabin, $75,000. 878-5836.

MANHATTAN - newly renovated spacious studio, Chelsea area, 10th floor, low maint., 24-hr. doorman, near NYU and FIT. 751-5868.

NORTH CAROLINA - 1.13 wooded acres, waterfront community, pool, clubhouse, 35-boat slip on Pamlico River, $38,000. Ken, 281-5565.

Wanted

ASSISTANT TEACHER - for on-site co-op nursery school, 2 mornings/week, 8 a.m.-noon. Anna, 878-6760.

BINOCULARS - broken, for optical experiment, high school student. John, Ext. 7120.

CAMPER - travel trailer, hard shell, 20'-24', working cond., older models okay. Don, Ext. 7237 or 744-2921 after 5:30 p.m.

DAY CARE - for newborn, Mon.-Fri., 8:30 a.m.-5:30 p.m., starting in March, on-site pref. Charlie, 474-2621.

EXCHANGE - 2 ring-neck doves, beige, for a cockatiel. 744-3060.

HOUSEMATE - woman to share new home in Shirley, pvt. master bdrm./bath, yard w/drive, mod. kit. w/dw, w/d. 395-0584 eves.

INSTRUMENTATION - old radios, scanners, CBs, power sup., misc. in working cond. for student projects; also cameras w/flash. Karl, Ext. 3116.

OLD FOUNTAIN PENS - cash paid. Catherine, 744-3383.

RECORDS - 33⅓ or 45 rpm, polkas any year, rock & roll 1955-65. Frank, Ext. 3120 or 727-5096.

SCUBA DIVERS - for spring dive trip to Cancun. John, Ext. 2769.

SKIERS - to ski Windham 3/17, last trip, send $40 for bus & lift to Augie Hoffman, Bldg. 510C. 821-02815.

SUPER NINTENDO TAPES - good cond., reasonable. 924-5231.

TYPEWRITER - Selectric, correcting, in good cond. Nancy, Ext. 7996.

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

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