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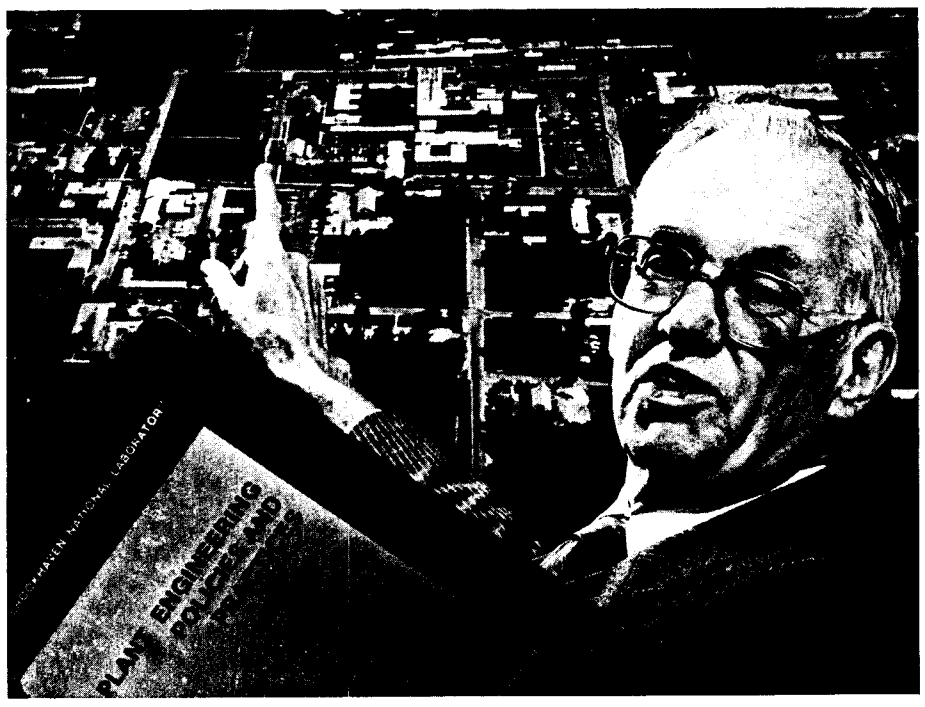
BROOKHAVEN NATIONAL LABORATORY

Bebon Becomes PE Manager; Medaris Named Deputy

Mike Bebon



Alfred Mahlmann

— Photos by Roger Stoutenburgh

Bruce Medaris

The responsibility for the day-to-day management of BNL's physical plant — the 5,265-acre site with over 500 structures, 42 miles of roads, 45 miles of domestic water supply, ten miles of steam piping and a demand for 220 million kilowatt hours of electricity per year — all this is now in the hands of Mike Bebon, the new Manager of the Plant Engineering Division.

Bebon takes over as Manager on July 1, following the retirement of Alfred Mahlmann today, June 30, after 26 years at BNL, the past seven as PE's Manager. Bebon will share his new duties and responsibilities with Bruce Medaris, who has been appointed PE's Deputy Manager.

"In heading Plant Engineering, the team of Bebon and Medaris will have more opportunity to interact with the department chairmen and division heads, thereby better enabling PE to fulfill its role as a service organization," comments BNL Associate Director for Management & Physical Plant, Parke Rohrer. "I have great expectations for the leadership that this new team will provide to the tremendous talent within the Division."

The retiring manager, Alfred Mahlmann, began his BNL career in 1962, as a facilities engineer. By 1970, he had been promoted to Superintendent of the Electrical Division. Mahlmann took over as PE Manager 12 years later.

"Al Mahlmann has faithfully and diligently performed his duties as Manager of Plant Engineering, and he will be greatly missed by his professional associates, as well as by his many friends at the Lab," says Parke Rohrer. "The Directorate takes this opportunity to thank Al for his 26 years of Laboratory service, and we wish him and his wife Marilyn many happy years of retired life together."

Mike Bebon brings to the post 17 years of engineering, construction, contracting and plant management experience, including almost nine years at BNL.

For the past two years, he has served as Special Assistant to Parke Rohrer. Four years prior, Bebon was Assistant Manager of the Brookhaven Area Office (BHO) of the U.S. Department of Energy. He came to BHO as a project engineer, 1980-83, and was promoted to Chief of Engineering Construction and Facilities Management, 1983-84.

"I have interacted almost daily with Plant Engineering since I came to BNL," explains Bebon, "and, as a result, have developed working relationships within all levels of the division — and a respect for the talents and abilities of the entire staff. I look forward to providing the leadership and guidance necessary to help both the division and its people meet the Laboratory's physical plant and site maintenance needs."

A cross section of PE's ongoing projects reveals that the Lab has a range of such needs: At present, almost $20 million is being invested in environmental health and safety upgrades, almost $10 million for energy management and general plant improvements, $2 million for the Booster's conventional construction, and almost $2 million for the renovation of the Biology Department, Bldg. 463.

"Plant Engineering is a service division — we exist to serve the research mission of the Laboratory by providing engineering, construction, operations and maintenance support," adds Bebon. "Therefore, I feel that Bruce and I can best enable our division to do this by asking our clients what they need."

To do this, both the PE Manager and Deputy will meet regularly with the department heads and other division managers individually to discuss their PE needs and how to meet them within given budgetary and staffing constraints.

Bebon also plans to be "out and about, visible and accessible to those served by the division — as well as those within PE." As he says, "I don't intend to sit in my office — I will be on the job and in the field, out there where the technical, management and personnel problems occur, working towards constructive solutions.

"And if there's something going wrong that I don't spot — either for

(Continued on page 2)

BNL Shares in Astrophysics Award

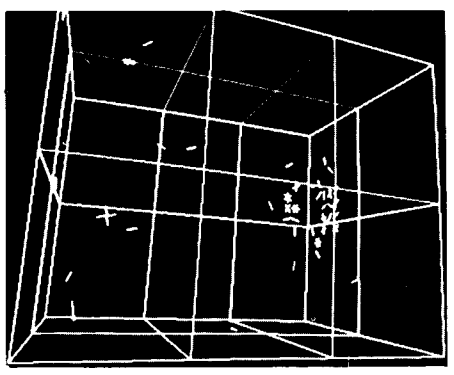
Neutrinos that signaled the birth of a new supernova in February 1987 led the American Astronomical Society (AAS) to award their 1989 Rossi Prize on June 15 to the two teams whose underground detectors recorded the event: one a joint venture of the University of California, Irvine, the University of Michigan and BNL, and the other at Kamioka, Japan.

According to the AAS, the prize is named in honor of Bruno Rossi, a pioneer in x-ray and gamma-ray astronomy, and consists of a certificate and $1,000. It is awarded annually for "a significant contribution to high energy astrophysics."

The supernova was first seen early in the morning on February 23, 1987, as astronomer Ian Shelton of the University of Toronto was developing the photographs he had taken the previous evening at the Las Campanas Observatory in Chile. One photograph showed a bright star that hadn't been there before. With disbelief, Shelton went outside, looked up to see the new star and became the first astronomer in nearly 400 years to see a supernova with his own eyes.

Hours earlier, 2,000 feet below the ground in a salt mine near Cleveland, Ohio, eight flashes of light had triggered sensitive detectors in a giant tank that holds about 8,000 tons of water. A computer had recorded the flashes and stored the data.

The flashes indicated the interaction of neutrinos — tiny subatomic particles with little or no mass — with the protons in the tank.



A computer displays the pattern of light detected on February 23, 1987, when a neutrino from a supernova reacted with a proton in a giant, underground, water-filled tank belonging to the Irvine-Michigan-Brookhaven (IMB) collaboration.

The tank is part of an experiment built as an Irvine-Michigan-Brookhaven (IMB) joint effort and designed to detect the decay of protons in the tank's water. AUI Distinguished Scientist Maurice Goldhaber serves as the BNL part of the IMB collaboration.

Neutrinos from cosmic rays constantly pass through the tank, usually with no effect. About once a day, one reacts with a proton in the tank and causes a flash.

But the eight flashes occurred within six seconds: an unlikely event that would prove to be remarkable. Those eight neutrinos and the 11 detected at Kamioka were, in fact, the first indication on Earth that a star had exploded in a nearby galaxy roughly 160,000 light years away.

When a star explodes to become a supernova, the core of the star collapses and the atoms crush together, turning electrons and protons into neutrons and releasing a flood of neutrinos. The heat of the explosion also creates enough energy to send a burst of neutrinos and antineutrinos into space.

At least that's what the theorists say. It was never proven directly until the neutrinos were detected at IMB and Kamioka.

"It was expected that there would be neutrino emission, but this was the first time it was seen, so the astronomers were very excited that the theory was confirmed," said Goldhaber.

The neutrinos actually carry off most of the energy of the explosion, but because they pass through matter very easily, we can neither see nor feel them, and they are difficult to detect. In fact, of the over 300 million million neutrinos from the supernova that passed through the IMB tank, only eight were detected.

And those eight were only found after sifting back through the data.

"First there was the announcement that someone had seen the light from the supernova, and shortly thereafter a number of us in the collaboration decided that we should look for neutrinos," said Goldhaber. That led to the discovery for which the Rossi prize was awarded. — Kevin Eber

Coming Up

Senior Physicist Richard Heese of the National Synchrotron Light Source Department will present the next Brookhaven Lecture on Wednesday, July 19. His talk on "Compact Light Sources for Super-Dense Chips" will begin at 4 p.m. in Berkner Hall.

Leaving the Lab After 41+ Years

At the end of each month, the Bulletin salutes those employees who are retiring from the Lab with 35 or more years of service.

Harold Hicks retires today, 41 1/2 years after he came to BNL on October 15, 1947.

Now the Supply & Materiel Division (SMD) storeskeeper for Bldg. 902, Accelerator Development

Harold Hicks

Department, Hicks started at the Lab as a laborer with the grounds crew in the then Architectural Planning and Plant Maintenance Department. Barely six months had passed since the first employees had arrived at the new Laboratory, and Hicks was assigned life number 1434.

While his life number has stayed the same, Hicks has seen many changes at BNL. One of his biggest personal changes took place in 1952, when he gave up outdoor grounds work, such as his first assignment running the Lab's incinerator, to transfer indoors to SMD's Receiving Warehouse and Distribution.

Another big move came in 1979, when Hicks left T-89 for Bldg. 926, to become a storeskeeper for the ISABELLE project. In 1981, he moved to Bldg. 902, where his responsibilities include ordering and maintaining stock inventories and keeping all catalogues up to date.

Hicks says that the biggest changes he has seen on site have been architectural. "When I first came," he recalls, "this place was an ex-military installation, with mostly barracks-type buildings. I saw the building of the pile [for the Brookhaven Graphite Research Reactor], then the HFBR [High Flux Beam Reactor] and the Chemistry and Medical buildings."

Now Hicks prepares for another big change, and he's taking it slowly. "First I want to get a little rest and do some fishing and traveling," he says. "I've never been to Europe, and I would like to visit Scandinavia, Germany, Denmark, Sweden and maybe Switzerland. Those countries look so colorful in the travel brochures. You can't do this in a week. You need a month or more, to do it in a leisurely manner."

Outside of that, he plans to remain on Long Island, "provided the taxes and cost of living don't run me out of state! There will be a lot to do — Long Island is a playground of the world, with a lot of areas of entertainment and recreation."

As he leaves to start his new life as a BNL retiree, Hicks says, "I take a lot of memories with me. I met a lot of very nice people here. I can't believe that the time has passed so quickly."

Shopping by Computer — New Physics Experiment

Usually, when people speak of guinea pigs, it's as the subjects of an experiment. But now, in an unusual twist in the Physics Department, it's the guinea pigs who are running the experiment.

"We're the guinea pigs," said Ted Erickson, a research engineer. "We're trying out a new way of buying low-cost electronic parts, such as semiconductors, by computer, directly from the manufacturer. If it works well, which seems likely, others in the Lab may use the same system."

Erickson thought up the idea about a year ago and discussed it with Sam Aronson, Deputy Chairman of Physics. Aronson was enthusiastic, seeing a way to cut costs, speed up delivery of needed small items and, eventually, minimize paperwork.

After talks with John King, Manager of the Contracts and Procurement Division, the Director's Office approved a trial period starting in early April. Staff Specialist Sherrie Reeve became the Physics Department administrator for the project.

About a dozen Physics staff members who would normally be ordering this type of equipment were selected to join the experiment. Erickson, with Nancy Delagi, a senior administrative services assistant, who sets each user up with an individual software package and diskette, showed everyone the log-in procedures.

By a single, one-key entry, users can log in to one of two firms that usually supply the department. If the part is available, it can be ordered immediately.

"There's no complicated procedure to remember, it's all set up already,"

Ted Erickson shows Sherrie Reeve (left) and Nancy Delagi the integrated circuit chips he has just received after ordering them by computer less than 48 hours before.

Photos on these pages by Roger Stoutenburgh.

said Erickson. "You look at the inventory, key in the request, get a confirmation number and log out. Because you can see the exact location of the part, it's also easier to choose the best method of delivery. No need to pay for airmail from Calverton!"

Ordering differs slightly from firm to firm. In one method, the confirmation number is taken to Reeve's office, where she or members of her staff, Jaime Turner or Jackie Timko, convert the request to an order by releasing it via computer. A record of the whole transaction can be printed out as often as necessary.

"The prices of these items are small — usually well under $50," said Reeve. "But up to now, they required as much paperwork as bigger purchases. This system could free the Lab buyers to use their expertise for the large dollar items."

In the past two months, the system has been used successfully several times. On one occasion, $25 worth of parts for an ongoing experiment, which would normally have taken about two weeks to obtain, arrived in four days — and the next time, in under 48 hours. — Liz Seubert

Bebon, Medaris (cont'd)

a project or a person on my staff — I invite those involved to take me aside, fill me in and let me get it properly addressed. I can be talked to at any time about any work-related problem."

Bebon also intends to continue the cooperation among the Division of Contracts & Procurement (DCP), the Safety & Environmental Protection Division (S&EP) and PE.

"While PE engineers and often manages the projects for which DCP signs the contracts, S&EP must review these projects to ensure they are safe for environmental and occupational health — so our cooperation is essential," concludes Bebon.

Mike Bebon earned his bachelor of engineering in mechanical engineering from New York University in 1972. He received his master of business administration from the University of Utah in 1975.

After serving in the U.S. Air Force, 1972-75, as a base mechanical engineer, Bebon came to Long Island in 1975, as an associate engineer for the Long Island Lighting Company, where he worked until 1977.

Next, Bebon worked off Long Island, at the Plum Island Animal Disease Center of the U.S. Department of Agriculture, first as Supervisor of Engineering and Planning, 1977-78, and then as Chief of Engineering and Plant Management, 1978-80. He left Plum Island for Brookhaven in September 1980.

Mike Bebon is a member of the American Society of Mechanical Engineers and the Air National Guard Civil Engineers Association. Since 1984, he has served as Commander of the 106th Civil Engineering and Services Squadron of the New York Air National Guard.

As Bebon's deputy, Bruce Medaris brings 21 years' experience in engineering, plant and staff management, and personnel training to the job, which includes the last nine years at BNL.

Medaris joined the Lab in 1980, and he served as Manager of the then newly created Maintenance Management Division, from 1981-86.

When PE was reorganized in 1987, Medaris was named Manager of the new Operations & Maintenance Division, with its almost 200 staffers. In 1988, his division incorporated the Site Division and grew to include 350 people. While Medaris will continue to oversee Operations & Maintenance, the division will become the responsibility of its deputy manager, Alanson Warren.

Like Bebon, Medaris has a commitment to fulfilling the physical plant needs of PE's clients. As Medaris explains, "In my new role, I hope to act as a catalyst, to see to it that PE completes its projects in an even more timely and responsive manner."

Again like Bebon, Medaris does "not intend to live in my office. PE's progress, as well as its problems, occur in the field, so that's where I will continue to be found — accessible to PE's clients and staff.

"Over the past 20 years, I spent much of my time in research and development, on the engineering side of the military," Medaris adds. "From that experience, I was instilled with both a sense of service and a respect for researchers' needs. I plan to use my background to provide Mike Bebon with the support he'll need to do this difficult job right, so Plant Engineering can best serve the Laboratory's research community."

Medaris received his bachelor of science degree in engineering from the U.S. Military Academy, West Point, in 1959. In 1965, he earned his master of science degree in mechanical engineering from the New Mexico State University, Las Cruces. Medaris was awarded the degree Juris Doctor in 1976 from the University of Baltimore School of Law.

Medaris served in the U.S. Regular Army as a commissioned officer, retiring in 1979 as a lieutenant colonel. His 20-year hitch included service in West Germany, Vietnam and South Korea. Medaris has received several awards and decorations, including the Legion of Merit.

In 1979, Medaris moved to New York, where his first civilian employer was Eutectic Corporation, Queens. There, he was Director of Manpower Development, the position he left to come to BNL.

Bruce Medaris is a member of the American Institute of Plant Engineers and the Retired Officers' Association. He is licensed to practice law in Florida and a member of the American Bar Association. He is a co-founder and president of the West Point Society of Long Island, and is past chairman of the Congressional Selection Committee reviewing applicants to West Point.

Hospitality News

The Hospitality Committee will hold an informal get-together on Tuesday, July 11, at 9:30 a.m., in the North Room of the Brookhaven Center.

Summer at the Pool

The pool will be closed Saturday through Tuesday, July 1-4.

The following hours will be effective Wednesday, July 5:

Monday through Friday	
11 a.m. - 1:30 p.m.	employees only
1:30 p.m. - 2 p.m.	reserved for speed swimming and training
2 p.m. - 3:30 p.m.	children's lessons
3:45 p.m. - 9 p.m.	employees, families, guests*
Saturday and Sunday	
1 p.m. - 5:30 p.m.	employees, families, guests*

Daily Admissions	
employee or family member	$1.50
guest	$2.00
Season Tickets (fees not prorated)	
Individual membership	$30.00
Family membership	$40.00

***Guest Ruling:** One guest per employee is permitted. Advance arrangements for additional guests, up to a maximum of five at any one time, must be made at the Recreation Office in Personnel.

Introducing Ed Hsu, U.S. Citizen

Edward Ming Yu Hsu has a special reason to celebrate this Fourth of July weekend — he just became a U.S. citizen.

"It's the cool thing to do," Hsu said.

Hsu, a summer intern in the Physics Department, was sworn in as a citizen on June 21 in Delaware County near Philadelphia, Pennsylvania, and near his school, Swarthmore College.

Hsu, 19, emigrated from the People's Republic of China with his parents 10 years ago to become a permanent U.S. resident. Although he could have simply maintained his permanent resident status, Hsu decided to become a citizen to gain the right to vote.

"I think it's an important part of the democratic process, and I get to participate," said Hsu. "I can't blame everybody else anymore."

Hsu's road to citizenship began last October, when he sent in the paperwork. In May, he took his citizenship test.

Because he was educated in the United States, Hsu didn't find the test difficult. He graduated from a Pennsylvania high school in three years and just graduated from Swarthmore College, also in three years, with honors in physics and membership in the scientific honorary society, Sigma Xi. He will start working on his doctorate at Princeton University in the fall.

Edward Ming Yu Hsu

Although most of the citizenship test is oral, Hsu noted that he had to write one sentence — to prove that he could write — and sign his name.

"They had me write, 'I will be a good citizen,' " Hsu said. "I thought it was pretty funny."

As a summer intern, Hsu is working in the Omega Group of the Physics Department with his advisor, Senior Physicist Michael Tannenbaum.

Hsu is certainly not alone as an immigrant working at BNL. According to Gail Williams, Manager of the Office of Scientific Personnel, approximately 10 percent of the Lab employees are not citizens.

Although BNL may, in select cases, sponsor applicants for immigrant status, citizenship is considered a private matter in which the Lab does not get involved. However, for those interested, the Office of Scientific Personnel, Ext. 3336, does have guidelines available to help them through the citizenship application process. — Kevin Eber

Hot Dog!

It's a lovely day and you don't feel like eating indoors — but you forgot your lunch. What do you do?

Beginning Wednesday, July 5, and every weekday thereafter, you can go down to the parking lot across from Berkner Hall. There you'll find the "Fair-Weather Hot Dog Wagon," where you can buy a hot dog, a light snack and a soda.

On Wednesdays, you can eat your goodies while browsing and buying produce at the Farmer's Market held weekly at that location.

Weather permitting, the hot dog wagon will be open for business Monday through Friday, from 11:15 a.m. to 1:15 p.m. After a 30-day trial period, a decision will be made as to whether to continue the new service.

Scoop of the Week

Week two of the Scoop of the Week contest yields two scoops — one from Martin Van Lith, Physics Department, on "Shopping by Computer — A New Physics Experiment," and one from Frances Scesney, Personnel Division, on the most recent BNL retiree with 35 or more years of Lab service.

During the summer, if you have a hot tip that you wish to trade for a scoop of frozen yogurt, rush your news and feature ideas to the Brookhaven Bulletin, Bldg. 134, or call Ext. 5053, to enter the Scoop of the Week contest. If you scoop the Bulletin's informed sources and a story based on your idea is published, you'll win an official certificate for soft-serve, frozen yogurt.

Arrivals & Departures

Arrivals

Anthony DiDio ..... Plant Eng.
John J. Najdzion ..... Physics
Jia Wang ..... Physics
Gary J. Whitbeck ..... Accel. Dev.

Departures

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

Colette Y. Cadwell ..... Accel. Dev.
John Capitelli Jr. ..... Plant Eng.

Service Awards

The following employees received service awards during the month of June, 1989:

Forty Years

Frederick L. Horn ..... Nuclear Energy

Thirty-Five Years

Edward Caruso ..... Biology
Charles W. Flood Jr. ... Saf.& Env.Prot
William J. Ruppert ..... Plant Eng.
Edward J. Walsh ..... Saf.& Env.Prot.

Thirty Years

Arland L. Carsten ..... Medical
B. Bryan Culwick ..... Accel. Dev.
Marion D. Janes ..... P&GA
Ottmar Kistner ..... Physics
Thaddeus F. Kycia ..... Physics
James E. Rutherford ..... Physics

Twenty-Five Years

Mulki R. Bhat ..... Nuc. Energy
Stephen C. Biemer ..... Plant Eng.
Susan S. Lamm ..... Biology
Elizabeth A. Pergan ..... App. Science
Louis E. Repeta ..... AGS
Benjamin W. Rosen .... Mgmt.Info.Sys.
Susan M. Sevian ..... Comp. & Comm.
Stephen T. Waski Jr. ..... Plant Eng.

Twenty Years

Richard A. Holroyd ..... Chemistry
Bette A. Morgan ..... Comp. & Comm.
John J. VanEtten ..... Plant Eng.

Ten Years

James G. Alessi ..... AGS
Albert R. Breck ..... NSLS
Vincent J. Castillo ..... AGS
David L. Derryberry ..... AGS
John F. DiNicola ..... Plant Eng.
Susan G. Eng ..... Comp. & Comm.
Anthony N. Fresco ..... Nuc. Energy
Peter V. Lane ..... App. Science
Christopher J. Manning .. Cent. Shops
Frank J. Marotta ..... Saf. & Env.Prot.
Bonnie L. Miller ..... Personnel
Dawn E. Mosoff ..... Dir. Off.
William J. Newburgh ..... NSLS
Norman K. Nilsson ..... Plant Eng.
Roger R. Stoutenburgh ..... P&GA

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Pager System Changes: How to Avoid the Siren

Starting July 10, at about 8:30 a.m., the new paging system will be changed to require a four-digit number.

In order to reach anyone with a current three-digit pager number, just add a zero to the beginning. For instance, if the current number is 332, it will become 0332.

The pager number change is the latest step in implementing a new paging system, which has been in use at the Lab since early June.

According to BNL Radio Officer Dave Potter, Instrumentation Division, the new system has several advantages over the old system: it minimizes the wait to make a page, gives you a full 10 seconds for your message and allows for a new kind of pager, called a numeric pager.

The new system also makes it possible to set up a pager number to page an entire list of people at one time. The same people can be on different lists — one list for each shift, one list for each project, or whatever.

The Siren Explained

But along with the positive features came one new feature that some users find disconcerting — the siren.

"The siren is just a disconnect signal," said Potter, "saying you've either timed out or you've done something wrong."

For instance, if you dial a three-digit pager number on or after July 10, you'll get the siren. If you dial a nonexistent pager number, you'll get the siren. Even if you do everything right, but talk past your ten-second limit, you'll get the siren -- telling you that the system has hung up on you.

Some users have been caught off-guard by the new system's fast response time and shorter beep signal after dialing the pager number. After the four short beeps, you have just three seconds to start talking or the system will give up on you and — guess what? — you'll get the siren.

Two Pager Models

The change to four-digit pager numbers is being made not only to allow more than 1,000 pagers, but also to allow special designations for certain kinds of pagers. The voice pagers currently used on site will get pager numbers up to 3999. Pager numbers 4000 to 6999 will be reserved for the new numeric pagers.

Numeric pagers send numbers instead of words and are used merely to send a call-back telephone number to the pager. They have the advantage that they can be silenced during an important meeting, then referred to later. Instead of beeping, the pager will vibrate to alert the user. It will also store up a list of call-back numbers.

"You stick it in your belt and it's quiet," said Potter. "Later, you look at it to see what numbers to call."

Potter points out that with a voice message, if you don't hear it, it's lost, but with the numeric message, the number is stored for later reference. The new system also sends the numeric message several times to ensure that the pager gets it right.

People requesting pagers will be allowed to choose between the voice and numeric models.

Calling the New Pagers

Of course, with new capabilities come the onerous task of learning how to use them.

First of all, you're wondering, how do I know if I've reached a numeric pager instead of a voice pager?

Well, the pager number — from 4000 up to 6999 — should give it away, but the system also makes a different sound after you dial a numeric pager number. Instead of the four quick beeps associated with a voice page, there are two beeps, then a pause, then two more beeps.

To leave a message, you simply dial your own phone number after the beeps, then hit the pound sign (#), then dial 1. You'll hear a series of beeps telling you it worked, and then the siren telling you that you've been disconnected.

If you make a mistake dialing and want to cancel it, hit the pound sign, then dial 0.

The new pager system promises many improvements over the old system, but like most things new, some confusion during the transition is unavoidable. If you have any questions, call the BNL Radio Shop at Ext. 4243 or Dave Potter at Ext. 4234, but don't try paging him — he doesn't have a pager. — Kevin Eber

Dave Potter, standing in front of BNL's updated pager system, holds up a new numeric pager (left) and one of the voice pagers now in use.

Summer on Long Island

Visit Our Own Backyard: Take a Sunday Tour

"The Whiz-Bang Physics Show" takes center stage in Berkner Hall three times each day during this year's Summer Sunday Tour Program. So, if you're looking for something interesting to do on any Sunday from July 9 to August 27, stay right where you are — at BNL.

As a Summer Sunday visitor, you'll arrive at Berkner Hall between 10 a.m. and 3 p.m. with as many guests as you want — no reservations required. You'll want to plan your visit around the show times for "The Whiz-Bang Physics Show": 10:30 a.m., 12:30 p.m. and 2:30 p.m.

In this lively stage show, local classroom teachers Larry Haman, Clayton Hudson, Christopher Ryon and Fred Sawicki invite members of the audience to take part in fun demonstrations of basic physics principles. The 45-minute show will be entertaining and educational for children and adults alike.

Before leaving Berkner, you may want to spend ten minutes watching an audiovisual presentation that tells the story of BNL and gives a quick overview of the research done at the Lab.

This youngster takes part in a hair-raising but harmless demonstration during "The Whiz-Bang Physics Show" at BNL. As demonstrator Christopher Ryon (right) explains during the show, when the boy touches a small Van de Graaff generator, electrons flow through his body and into his hair. Since electrons are negatively charged and like charges repel each other, his charged hair stands on end.

Either before, after or between these shows, you can board a bus waiting in front of Berkner to take you to the Exhibit Center/Science Museum. Along the way, your tour guide will point out and describe Laboratory landmarks.

One such landmark is Bldg. 701, which originally housed the Brookhaven Graphite Research Reactor (BGRR), the world's first nuclear reactor built for peacetime research. The BGRR was decommissioned over 20 years ago, but it still serves as a dramatic backdrop for the Exhibit Center/Science Museum's three stories of lively displays depicting BNL research of the past, present and future.

For example, a chemistry exhibit shows how science has been applied to the study of art and archaeology, using a sophisticated technique called neutron activation analysis to discover forgeries in painting and the origins of ancient artifacts.

In a medical exhibit, you can shake hands with a skeleton and learn about osteoporosis, a disease that can occur when the bones lose their natural calcium and weaken.

Many displays are popular with children. They can use microscopes to explore the world of the invisible, try their hands at using bulky rubber gloves in a sealed glove box similar to those used by scientists when they work with hazardous materials, catch their shadows at a phosphorescent wall where shadow images are frozen in place by a strobe light, or ponder over fascinating three-dimensional holograms.

Using the Whisper Tube, visitors of all ages can learn about sound waves while whispering to each other around corners and across the room. In another area, you can learn how light is reflected, by looking into funhouse-like mirrors. At other exhibits, you can watch a "chain reaction" in a case full of bouncing Ping-Pong balls and pedal a special tandem bicycle that generates enough electricity to run a TV set.

Those with a bent for history will be particularly interested in the Camp Upton Historical Collection, which features an extensive collection of photos and memorabilia from World Wars I and II, when the Lab site was the Army's Camp Upton. A video, "From Basic Training to Basic Research," describes the site's early history.

The complete program takes about two-and-a-half hours. Refreshments and rest rooms are available, and there is a souvenir shop at the Exhibit Center/Science Museum.

For more information, call the Public Affairs Office, Ext. 2345.

Note to Employees:

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

Cafeteria Menu

Week of July 3

Monday, July 3
Snack bar service — 9 a.m. to 2 p.m.

Tuesday, July 4
Snack bar service — 9 a.m. to 2 p.m.

Wednesday, July 5

Soup: Tomato rice	(cup)	.75
	(bowl)	.95
Baked ziti w/garlic bread		3.10
Lite-line: Salad plate		2.25
Hot deli: Denver sandwich		2.85

Thursday, July 6

Soup: Italian minestrone	(cup)	.75
	(bowl)	.95
Prime rib w/mushroom & onion sauce w/pot. or veg.		4.25
Lite-line: Apple carrot & raisin salad		2.85
Hot deli: Crunchy fillet on a bun		2.85

Friday, July 7

Soup: New England clam chowder	(cup)	.75
	(bowl)	.95
Beef chow mein w/white rice		3.10
Lite-line: Broiled whitefish w/pot. or veg.		3.10
Hot deli: Pastrami		2.85

Week of July 10

Monday, July 10

Soup: Beef noodle	(cup)	.75
	(bowl)	.95
Rigatoni w/sausage		3.10
Veal roulade cordon bleu w/pot. or veg.		3.10
Lite-line: Vegetable curry over rice		3.10
Hot deli: Chicken-melt croissant		2.85

Tuesday, July 11

Soup: Creamy chunky vegetable	(cup)	.75
	(bowl)	.95
Chicken chimichangas over rice		3.10
Yankee pot roast w/pot. or veg.		3.10
Lite-line: Molded cucumber salad		2.85
Hot deli: BBQ beef on a bun		2.85

Wednesday, July 12

Soup: Broccoli supreme	(cup)	.75
	(bowl)	.95
Beef teriyaki w/pot. or veg.		3.10
Barbeque chicken w/pot. or veg.		3.10
Lite-line: Broiled chicken w/pot. or veg.		3.10
Hot deli: Monaco grill		2.85

Thursday, July 13

Soup: Peasant chicken	(cup)	.75
	(bowl)	.95
Turkey á la king		3.10
London broil w/pot. or veg.		3.10
Lite-line: Stuffed peppers w/tuna & chicken salad		2.85
Hot deli: Corned beef		2.85

Friday, July 14

Soup: Deluxe Manhattan clam chowder	(cup)	.75
	(bowl)	.95
Glazed pork tenderloin w/pot. or veg.		3.10
Stuffed whitefish w/Creole sauce		3.10
Lite-line: Broiled fillet of whitefish w/pot. or veg.		3.10
Hot deli: Meatball hero		2.85

Aerobic Dance: Summer Program

The Aerobic Dance Club will hold two eight-week summer programs (not ten weeks as previously announced): Monday stretch and Tuesday aerobic dance classes.

Both sets of classes will run from 5:15 to 6:15 p.m. A mat is suggested for floor exercises in both kinds of classes.

The fee for each eight-week session is $24, payable at registration, which will precede the first class, to be held as follows:

- Stretch — Monday, July 10
- Aerobic Dance — Tuesday, July 11

To confirm the location of each class, or for more information, call Bill Leonhardt, Ext. 2378, or Janet Sillas, Ext. 2345.

Tennis Anyone?

Annual Tournament

Tennis players are reminded that sign-up for the annual tennis tournament, which begins Saturday, July 22, is now taking place at the BERA Sales Office in Berkner Hall. The cost is $2 per person per event. Last day for sign-up will be Tuesday, July 11, and the draw will be posted by Friday, July 14, both at the BERA office and the courts.

Rules for the tournament are available at the BERA office. Call Steve Shapiro, Ext. 3822, or Ken Perkins, Ext. 2147, with any questions.

U.S Open Bus Trip

The Tennis Committee regrets that not enough reservations were received for a second bus to the U.S. Open in September. Those who put down a deposit should stop by the BERA office for their refunds.

AACC Dinner Dance

The Afro-American Culture Club will be holding its annual Dinner Dance on Saturday, July 8, at the Brookhaven Center. The cocktail hour will start at 7:30 p.m., followed by a buffet dinner.

Tickets are on sale now for $25 each and can be purchased from Bob Brown, Ext. 3569; April Donegain, Ext. 2459; Fran Ligon, Ext. 3209; Bettie Sylvester, Ext. 3630; or Mary Durham, Ext. 7143.

Holiday Notices

Brookhaven Bulletin

Because the Lab will be closed for the Independence Day holiday on Monday and Tuesday, July 3-4, the Bulletin will not be published next week. The deadline for submission of ads for the next issue, July 14, is Friday, July 7, at 4:30 p.m.

Note to Diners

The Cafeteria will operate only the snack bar service from 9 a.m. to 2 p.m. on Monday and Tuesday, July 3-4.

The Brookhaven Center will be closed Sunday and Monday, July 2-3, reopening at 5 p.m. on Tuesday, July 4.

The vended-food service in Bldg. 912 will be in operation throughout the holiday.

Film Badges

Film badge changes are usually made during the first weekend of a month. Due to the holiday, however, July film badges will be issued on Saturday, July 8. Place your film badge in its assigned rack space before leaving work on Friday, July 7.

PSI News

The new officers for the Upton Chapter of Professional Secretaries International (PSI) for 1989-90 are:

- President — Susan Carlsen, Safety & Environmental Protection
- Vice President — Nancy Griffin, CPS, Safeguards & Security
- Recording Secretary — Sharon Jones, Safeguards & Security
- Corresponding Secretary — Mary Anne McGrath, Nuclear Energy
- Treasurer — Harriet Tobin, Personnel

In other news, the chapter has won the Membership Award from the New York State Division of PSI, for 1988-89, in the 21 to 40 percentile category.

BERA Bus Trip To Atlantic City

Seats remain available on the BERA bus to Trump Castle on the Marina in Atlantic City, on Saturday, August 5. The initial cost is $20 per person, but the casino will return $15 in coin and a $5 deferred voucher to each person on the bus.

Prepaid reservations are being taken on a first-come, first-served basis at the BERA Sales Office in Berkner Hall, from 9 a.m. to 2 p.m. No refunds will be made unless someone on the waiting list wishes to purchase your ticket.

The bus will leave the Brookhaven Center at 11:30 a.m., with a second stop at the Park & Ride at LIE Exit 63 if requested. It will leave Atlantic City about 1 a.m., after the evening shows.

For more information, call Louisa Barone, Ext. 3347; M. Kay Dellimore, Ext. 2873; or Rosalie Piccione, Ext. 3160.

Classified Advertisements

Placement Notices

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

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Employment Manager, Ext. 2882.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

4078. ACCOUNTING POSITION - Requires BBA in accounting or AAS degree with continuing courses in accounting and substantial equivalent experience. Working knowledge of PCs, including experience with spreadsheet programs such as EXCEL or LOTUS 1-2-3 is necessary. Duties will include such functions as verifying postings, vouchers and audits, analyzing accounts and preparing financial reports. Will also develop computer applications for financial reporting. Fiscal Division.

See supplement for classified ads.

Motor Vehicles & Supplies

88 HONDA CIVIC - hatchback, 4-spd., ETR am/fm stereo, new Michelin tires, $5,500. Bob, Ext. 4417 or 718-357-9045.

87 SAAB 900 TURBO - fully loaded, mint, sacrifice. 286-3363 after 6 p.m.

87 DODGE DAYTONA - 29k mi., T-tops, a/c, cruise, 5-spd., p/w, p/m and more, 2.5 litre, excel. cond., $7,800. Vera, Ext. 5064 or 929-8294.

87 FORD ESCORT G.T. - red, 5-spd., p/s, p/b, a/c, am/fm cass., sunroof, tinted glass, 39k mi., many extras. Ext. 4629.

87 PONTIAC TRANS AM - black, a/t, T-top, mint, 9k mi., asking $10,800. 736-4180 eves.

86 HONDA SHADOW VT1100 - bought in '87, new, showroom cond., plexiglass windshield, quick removal, black, $3,000. Ext. 5318.

85 OLDS CUTLASS - 2-dr., a/t, a/c, am/fm, mint, $5,150. Pete, Ext. 2498.

85 TOYOTA COROLLA - 55k mi., 4-dr., 5-spd., a/c, p/s, p/b, am/fm, rear def., new battery, $4,200. Amy, Ext. 3606.

85 CHEVY CAVALIER - gray, 4-dr., a/t, am/fm stereo cass., 41k mi., $3,900. 345-3945.

85 HONDA TRIKE - 125 mi., mint cond., $400. 928-5065.

84 HONDA AERO 125 MOTOR SCOOTER - 8k mi., new battery, extras, good cond., very reliable, $595. Vita, 277-0464 or Frank, Ext. 7519.

84 EAGLE - 4x4, 4-dr. wagon, a/t, a/c, p/s, am/fm, cass., 40k mi., good body/engine, $5,400. 473-2473.

84 FORD LTD WAGON - a/t, a/c, p/b, 6-cyl., new exhaust & brakes, high mileage, excel. cond., $1,950. 689-7123 eves.

84 FORD F250 - 351, p/s, p/b, a/c, w/cap, 35k mi., $8,300. 331-4472.

84 CHEVY CAVALIER SPORT - white, 2-dr., loaded, am/fm, sunroof, sport suspension, a/c, all power, 37k mi., $3,900. 345-3945.

84 SUBARU - h/b, 2-dr., 5-spd., am/fm cass. stereo, excel. cond., $2,250. Carol, 924-3413.

83 SUBARU GL - sta. wagon, v.g. cond., reliable, $2,200. Luiz, Ext. 2598 days or Ext. 3181 eves.

83 NISSAN STANZA - hatchback, 4-dr., a/t, p/s, p/b, a/c, am/fm, clean in/out, excel. cond., $3,400. Jim, Ext. 4606 or 654-5049.

83 PONTIAC - sporty, p/s, p/b, a/t, a/c, 78k mi., good cond., $3,000. Xuan L., Ext. 3677.

82 VW WESTPHALIA CAMPER - sleeps 2+2, stove, sink, refrig., am/fm tape, pop-top, 90k mi., excel. cond., $5,500. Ext. 4967 or 286-7583.

82 NISSAN STANZA - 4-dr., a/c, am/fm stereo, sunroof, cruise control, $1,200. 281-7935.

82 MAZDA B2000 PICKUP - long bed, best offer over $1,250. Joe, pager 925 or 728-1859 eves.

82 NISSAN STANZA - h/b, 4-dr., a/t, sunroof, high mi., one dent, otherwise clean, runs well, priced to go, $900. Lenny, Ext. 4467.

82 SUZUKI G5650L MOTORCYCLE - windshield, trunk, low mi., excel. cond., Ext. 3254.

82 HONDA - h/b, 69k mi., excel. cond., $3,100. Ext. 3699.

82 BMW 320i - 5-spd., sunroof, stereo cass., leather int., professionally maintained, absolutely immaculate, $6,300. 758-1529.

81 BUICK CENTURY - $2,250; 81 Datsun 310, $1,250. John, Ext. 3382 or 473-4338.

81 SUBARU - 2-dr., hatchback, runs well, $1,195. Jeff, 4914.

81 MUSTANG - 4-cyl., a/t, good cond., Ext. 2926 or 281-0268.

81 BUICK SKYLARK - 80k mi., 4-dr., loaded, looks good, runs well, $1,900. Ramesh, Ext. 4410/7684 or 524-0443.

81 CHEVETTE - 4-spd., hatchback, runs well, new water pump, must sell quickly, $400. Juanita, Ext. 4923.

81 TC3 - h/b, 5-spd., 1.7 liter engine, good cond., must sell, $900. Phillip, 286-1348.

80 DATSUN - runs well, $980. Ext. 3206.

80 TORONADO - has it all, must see, book value $3,000, asking $2,400 neg. 399-6390 after 5 p.m.

80 MIRADA - 8-cyl., a/t, a/c, 90k mi., $500 neg. 273-9603.

80 SUBURBAN - 350 eng., p/s, p/b, dual ac, running boards, Class III hitch, am/fm stereo, cruise, 94k mi., asking $4,500. Frank, Ext. 7684.

80 BUICK CENTURY - V-6, a/t, p/s, p/b, a/c, 67k mi., excel. running cond., $1,150. 744-0722.

80 DODGE OMNI - a/t, p/s, p/b, a/c, runs well, excel. in & out, $850. 654-4661 after 5 p.m.

79 CHAMP - s/t, am radio, 60k mi., runs well, $300. Ext. 2683 or 242-1050 after 6 p.m.

79 MUSTANG - hatchback, V8, a/t, p/s, p/b, a/c, am/fm cass., many extras, clean, reliable, $3,000 neg. Ext. 5265 or 736-1525.

79 CHEVY CAPRICE - 305 V-8, a/t, p/s, p/b, a/c, air shocks, body good, runs well, 125k mi., $1,095. Ed, Ext. 3466.

79 PONTIAC BONNEVILLE - 2-dr., a/c, a/t, am/fm, body good cond., sunroof, p/w, p/s, full power, excel. cond., $1,500. Scotty, Ext. 3457.

79 CHEVY MONZA - red, 4-spd., economical & reliable, $800 or best offer. Richard, Ext. 2341.

79 HONDA ACCORD LX - a/c, am/fm, high mi., runs well, good tires, new battery, make offer. John, Ext. 3921 or 689-6117 eves.

78 OLDS DELTA 88 - 8-cyl., a/t, runs well, asking $700. Lee, Ext. 4790 or 3221.

78 GMC JIMMY - 10" lift, 40" tires, 4x4, 1988 int., black, much more. John, 585-2084.

78 SUBARU WAGON - good engine & clutch, $400. Richard, Ext. 3166.

78 CHEVY NOVA - 4-dr., a/t, p/s, good cond., orig. owner, $950. Sandy, Ext. 3369 or 286-1022.

78 HONDA CIVIC - neeeds clutch, trans., good for parts. $95. Ext. 3164 or 744-5954.

78 DATSUN 280Z - all new in & out, must see, $3,000. Ext. 4615/4757.

77 PLYMOUTH VOLARE - wagon, slant 6, overdrive, 4-spd., am/fm, new brakes, runs OK, minor work needed, $250 as is. Allan, Ext. 2229.

77 VOLKSWAGEN DASHER - h/b, moon roof, 4-spd., 35 mpg, new tires, more, $650. Fred, 281-8916.

76 DODGE ASPEN - good train car, good tires, $200 firm. Jane, Ext. 3420 or 821-0429.

76 CHEVROLET CAPRICE - 4-dr., 8-cyl., many new parts, runs well, $500. Wilt Prout, Ext. 3106.

76 MERCURY CAPRI II - 4-spd., 4-cyl., high mi., good tires, reliable, $250 neg. Biays, Ext. 2946.

76 DODGE STATION WAGON - good transportation, a/c, a/t, p/s. 369-8683.

74 HONDA CB360 - rebuilt engine, new valves, rings, brakes, battery, front tire, $550. Pete, Ext. 4100.

73 POSTAL JEEP - LHD, 6-cyl., a/t, runs well, best offer. John, 744-4386.

72 TRIUMPH MOTORCYCLE - Trophy, 650 cc, good cond., w/ windshield & bags, $1,450. Frank, Ext. 2022 or 399-4480.

IROC Z28 - red, T-tops, power seats, every option, 18k mi., must see, $11,000. Ext. 5318.

RIMS - 14", 4 lugs; 14", 5 lugs; 16" (5.50-16). Ext. 2950.

SERVICE MANUALS - complete for 1978 Camaro, $12, & Mercury Lynx, $10. Ext. 2462.

CANVAS TOP & DOORS - brown, for CJ-7 Jeep, $75. Ext. 4639.

COLT PICKUP CAP - w/insert, 8', aluminum, good cond., $200 firm. Ext. 4081 or 874-4947.

AIR-FLOW BOX - Nissan, brand-new, T-top; orig. Datsun 280 trim ring Z tires (4); black bucket seats (2), make offer. Janet, Ext. 2345 or 929-3910.

ROOF RACK - for wagon or van, adjustable, installation available, good cond., $40. Paul, 727-4859.

MOTORCYCLE HELMET - size L, excel. cond., $20. 589-0625.

SLIDE-ON CAMPER - 11', fully self-contained, shower, heat, refrig./freezer, hot & cold water, $1,600. 929-5872 after 6 p.m.

TIRE - new, 721 Firestone, 235/75R15, Eldo rim, $50. Ernie, 588-4987.

Boats & Marine Supplies

28' CHRIS CRAFT SPORT FISHERMAN - 1965, fully equipped, must see. Mike, Ext. 4988.

25' CHRIS CRAFT - wood, good shape, ready to go. Louis K. Potter Sr. 475-3553.

22' CATALINA - 3 sails, trailer & motor in good cond., asking $4,800. 929-8912 or 329-1743.

22' VENTURE SAILBOAT - 1978, pop-up, galley, drop keel, 4½-h.p. Merc o/b, $2,950. Manny, Ext. 4681 or 798-8429.

21' MACH 1 - 1985, 170 h.p. Mercruiser I/O, full cover, cuddy, UHF, top cond., $7,500. Knotek, Ext. 4966.

19' BOWRIDER CRUISER - 1972, w/1976 115 h.p. Johnson, Coast Guard pkg., trailer w/electric winch, $3,500. Frank, Ext. 2314 or 567-5131.

17' ARISTOCRAFT - fiberglass, rebuilt 60-h.p. Merc I/O, very economical, excel. cond., w/trailer, ready to go, $1,700. Mark, Ext. 2599.

15' CORONADA DAY SAILER - ready for the water, w/trailer, $1,600. Steve, 874-3729 after 6 p.m.

14' FIBERGLASS BOAT - windshield, wheel, 35 h.p. Chrysler engine, trailer, $400. Sheryl, Ext. 5384.

14' BLUEJAY SAILBOAT - plywood, day sailer, needs some work, $495. Frank, Ext. 2022 or 399-4480.

ENGINE - 110-h.p. Johnson, 1988, new power-head in '88 power t/t oil injection, s/s prop., excel. cond., $2,500. 589-3072.

SINKER MOLD - salt water, $50; wire leader maker, $50. 475-7257.

Furnishings & Appliances

CHEST FREEZER - 12 cu. ft., 1 year old, orig. $600, asking $400. Bill, Ext. 2214 or 231-5772.

CARPET - $20; black & white TV, $20. 732-9724.

BEDROOM FURNITURE - seven piece, must sell, new, $1,000; dining room table, w/4 chairs, beige, $175. Ext. 2259.

FREEZER - 15.3 cu. ft., upright, Coldspot, good cond., frostless, $50. Knotek, Ext. 4966.

DESKS - 5' black metal w/walnut top, and credenza. John, 732-2472.

DESK - large, wood, old but good, painted, 6 drawers, $50. John, Ext. 3292.

DRESSER - 5 drawer; solid oak chest, $100. 689-7326.

KITCHEN SET - formica table w/leaf, 6 swivel chairs, brown, good cond., $100. Carol, Ext. 2896.

DRYER - electric, 3 years old, 220V, good cond., $50. Al, Ext. 4254 or 231-4613 after 5 p.m.

Tools, House & Garden

STOOP HANDRAILS - wrought iron, $30. Wayne, Ext. 2284.

WATER PUMP - three-stage jet, Flint & Walling make, new GE 1½-h.p. motor, w/pressure tank, used 3 years. 821-3925.

SOLAR POOL COVER - 24' diameter, can be cut down for smaller pool, $25. Peter, 399-2813.

LAWN MOWER - Lawn Boy, 21" cut, self-drive, w/bag, mulcher plate, excel. cond., $200 firm. Dan, Ext. 4987 or 698-7322.

LAWN TRACTOR - Wheel Horse, 8-spd., 36" cut, excel. cond., $695. 286-0682.

DOG PEN - 6' Cyclone, 12'x12', all pipes & fittings, one gate. Ext. 3953 or 281-8274.

Sports, Hobbies & Pets

FISH TANKS - 30 gal. & 55 gal., complete w/fish, $90 & 130 neg. 331-9792 eves.

REMOTE CONTROL CAR - RC10, never used, race prep., $210 neg. 331-9792.

DIVING BOARD - 10' fiberglass, like new, $15. 878-2038.

STRINGING MACHINE - Omega, portable, new $210, asking $150. 589-0625.

AQUARIUM - 2½ gal. hex. filter, pump, light, incl., 1 mo. old, new, $745, sell for $40. 589-0625.

DRYSUIT - Poseidon, man's large, like new, asking $500. 474-5715.

BALINESE-TYPE CATS - kittens, for sale, ready to go. Ramona, 928-3088.

AQUARIUMS - 10 & 20 gal., lots of accessories, $40 for all. Joe, pager 925 or 728-1859 eves.

TENNIS RACQUETS - Head, graphite, slightly used, midsize, oversize, $60. 589-0625.

TENNIS RACKET - Junior Prime Prop, used one year, $25. Natalie Feng, Ext. 2683.

BICYCLE - 20", BMX, Saint Tropez, jelly seat, front & rear hand brakes, excel. cond. Ext. 5286.

BICYCLE - girl's, 24", Ross, light blue, 3-spd., excel. cond., best offer. Ext. 4449 or 751-8403 eves.

EXERCISE BIKE - w/speedometer, odometer, tension control, $20. Paul, Ext. 4156.

TREADMILL - brand-new, must sell, asking $100. Donna, 331-7873.

BICYCLE - 18-spd., Fugi touring, rear rack, low mileage. Charlie, Ext. 7019 or 399-3228.

Audio, Video & Computers

VIDEO CAMERA & VCR - Olympus VX-305-u, complete w/cases and instructions, new $1,200, make offer. 589-0625.

SATELLITE SYSTEM - complete P-611 Uniden, remote control, receiver, includes 100' cable, dish 11', you pick up, $300. Mike, 281-6070.

WORD PROCESSOR - Brother, portable, 2 years old, $300 neg. 286-0969.

TV - black & white, customized cabinet, can be converted. Ext. 2265 or 289-0567.

Miscellaneous

HANGING POT RACK - $10; 12" candle holder, $10; wooden guitar, $20; adding machine, $20, hanging wicker lamp, $10. Tim Dwyer, 744-2203.

STROLLER COMBO - highchair, rocker, carseat, all-in-one, chrome wheels, chrome tube constructed, paid $600, sell for $100. Ken, 369-0533.

SUMMER SHOES - woman's Town & Country, size 8½ AA, tan color w/beige straw wedge, regular $31, sell for $10. 475-7257.

CRIB - solid oak in excel. cond., baby carriage, rocking carrier, and many more baby items, all well kept & clean. 821-3925.

Free

DOG - 2 years old, female, shepherd mix, affectionate, all shots, needs loving home. Karen, 3305, 7:30 a.m.-5 p.m.

CHAIN-LINK FENCE - 16' including all pipes & gate, green vinyl chain links, good cond. Ralph, Ext. 2180.

Car Pool

BOHEMIA-OAKDALE-SAYVILLE - need 2 more drivers for car pool, also can meet at LIE Exit 59. Frank, Ext. 2314.

Yard & Garage Sales

EAST ISLIP - multifamily, no previews, Sat., July 1 only, 148 Connetquot Ave., south of Sunrise Highway. 277-8171.

PORT JEFFERSON - moving sale, whole house, some antiques, July 1, 2, 3, call for directions. 331-9792.

Real Estate

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

For Rent

HOLBROOK - Timberidge, 3-bdrm. ranch, 1 bath, eik, den, gar., all appliances, fenced-in yard, underground utilities, sewers, 15 min. from Lab., $950/mo. Ext. 2679 or 472-0392 after 5:30 p.m.

MASTIC BEACH - 1-rm. studio cottage, new stove, just renovated. Tom, 360-3803.

PATCHOGUE - furnished or unfurnished, large, one-bdrm. apt., lots of windows, very clean, full kitchen, full bath, priv. ent., plenty of closets, $625. 758-1529.

RIDGE - 3-bdrm. ranch, country kitchen, all appliances, new carpeting, 1½ baths, fenced-in yard, 5 min. from Lab, family neighborhood, $900/mo. 744-8632 after 6 p.m.

ROCKY POINT - new 1-bdrm. apt., full bath, l/r, eik, priv. ent., walk to beach, nonsmoker, no pets, $600/all. 744-6386.

SELDEN - 1-bdrm. apt., priv. ent., eik, full bath, l/r, access to washer/dryer, avail. 9/1. $550/mo. Ext. 5177 or 698-6120.

YAPHANK - Colonial Woods, 3-bdrm. condo, 2 baths, gar., bsmt., a/c, w/w, 5 appl., pool, tennis, clubhouse, avail. 7/1, no pets, $1,000. 473-1732 eves.

WADING RIVER - single apt. on beach to sublet for July, possibly longer, fully furnished, king-size waterbed, stereo, more, $665/mo. Tina Kaarsberg, Ext. 7176 or 929-3662.

CATSKILLS - 3-bdrm. chalet w/sleeping loft, fully furnished, great for hiking, fishing, rafting, near Catskill Game Farm & Hunter Music Festivals. Kay, Ext. 4501 or Bea, Ext. 5642.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, 2 baths, tennis, golf, beach, pool, $425/wk., July & Aug. openings. Guy, Ext. 3147.

For Sale

AQUEBOGUE - split ranch, 3 bdrm., 2 baths, eik, din. area, l/r, deck, .06 acre, landscaped, ig sprinkler, fence, garage, OHW, a/c, cable, city water, $169,900. Beth, Ext. 4986 or 722-4750.

BELLPORT VILLAGE - 2-bdrm. ranch, attached garage, large living area, eik, 12'x20' screened patio, fenced rear yard, goldfish pond, many extras, $150,000. 286-0795.

BLUE POINT - 3-bdrm. Cape, 2 baths, kitch., din. area, l/r, TV rm., full bsmt., garage, 1 acre on dead end, vinyl siding, near school, church & beach. Joe, Ext. 5320.

CORAM - 9-rm. Colonial, cul-de-sac, 4 bdrms., 2½ baths, fam. rm., f/p, eik, d/r, l/r, mud rm., i/g pool & lawn sprinkler, 2-car garage, extras, $195,000. Ext. 2303 or 732-3902 after 5 p.m.

HOLBROOK - 3-bdrm. townhouse/condo, 5 appl., w/w, 1½ baths, tennis courts, swimming pool, clubhouse, balcony & fenced-in patio, 15-20 min. to BNL, $129,000. Ext. 2873 or 472-3236.

MANOR PARK - 4-5 bdrm. Colonial, 1½ baths, l/r, d/r, fam. rm., part. finished bsmt., gar., ½ acre, South Manor SD, 5 min. from Lab, new roof & heat, now $149,000. Roger, Ext. 3578 or 395-1969.

MASTIC - 3-bdrm. ranch, ¼ acre, 1½ baths, den, fin. bsmt., deck, appl., house fan, 3 ceiling fans, shed, fence, near school, shopping, 15 min. to Lab, asking $115,000. 265-2366 after 6 p.m.

MASTIC BEACH - cabinet-lined kitchen, stove, refrig., large l/r, tiled bath, 3 master-size bdrms., full bsmt., OHW heat, lot 118'x97', 2 blks. to marina, $118,000. 281-8685 or 281-8764.

MIDDLE ISLAND - Coventry Manor, 3-bdrm. townhouse, 2 full baths, kitch., l/r, d/r, laund. rm., 5 appl., ca/c, pool, tennis, asking, $106,000. Rosalie, Ext. 3160 or 289-5704 after 5:30 p.m.

MIDDLE ISLAND - Lake Pointe, 5 min. to BNL, 2 bdrm., l/r, d/r area, w/d, ca/c, gas heat, wood deck, pool, tennis, asking $81,000. Bob, 924-7316.

MT. SINAI - brand-new 3-bdrm. ranch, ½ acre, 2 full baths, single car gar., carpeting, d/w, stove, refrig., first year taxes paid, immediate occupancy. 878-4356.

PORT JEFFERSON - 4-bdrm. Colonial, full bsmt., 2-car gar., 2 baths, ca/c, all oak floors, walk to harbor, village, mint cond., priced to sell. 474-1482 eves.

PORT JEFFERSON VILLAGE - 9 rooms, wooded ½ acre, 4 bdrms., l/r w/fp, d/r, eik, family rm., study, 2½ baths, ca/c, 2-car gar., private beach & club, walk to village, $279,000. 331-3846 eves.

ROCKY POINT - 3-bdrm. ranch, 100'x100' lot, eik w/skylight, Andersen windows, half bsmt., large fenced yard, SCWA water, under 5 yrs. old., mint cond., all appl., beach rights. 821-3925.

ROSLYN - 1-bdrm. co-op, corner, sunny, fully renovated, w/w, Roslyn SD. Ext. 3924 or 484-3897 eves. and weekend.

SHOREHAM - Soundview Acres, contemporary ranch, 3 bdrm., 2 baths, l/r w/fp, bsmt., 2-car gar., deck, sprinkler system, steps to priv. beach, $199,000. 744-9746 eves.

STONY BROOK - north 25A, near beach & univ., custom-built, ⅔ acre, 4 bdrms., finished bsmt, 3½ baths, d/r, l/r, den, eik, priced to sell, Ext. 4635 or 751-2860.

STONY BROOK - 3-bdrm. ranch, expanded Buckingham in S-section, l/r, d/r, den w/fp, eik, 2 baths, all appl., wooded lot, screened-in porch, asking $179,900. Ext. 7949 or 689-7282.

YAPHANK - Colonial Woods condo, 2 bdrms., finished bsmt., new European kitchen, energy efficient windows, atrium door patio, $106,000. Pat, 924-5595.

HOLIDAY, FL - Sandpiper, 3-bdrm., 2 baths, 1½-car gar., cathedral ceilings, corner lot, sprinkler, clubhouse facilities, near shopping & Gulf, $75,900. 474-5715.

MADERIA BEACH, FL - 1 week timeshare at Commodore Beach Club, sleeps 4 adults, on Gulf, pool, jacuzzi. 474-5215.

PALM COAST, FL - ¼ acre lot, 80'x125', 5 mi. to Atlantic, 24 mi. north of Daytona Beach, water, drainage & sewage util. inc., $9,995 or $1,995 & assume mort., must sell. Thomas Nolan, Ext. 5265.

STUART, FL - 1-bdrm. condo, 1½ baths, fully furn., can sleep 6, jalousied porch, near clubhouse & pool, walk shopping & fishing, asking $42,000. Ken Brunini, 482-2643 or 212-354-1372.

Wanted

MOTORCYCLES - bent or broken, any age or cond. Kevin, 281-8031.

WET SAW - for cutting bricks, rent or buy. Tony, 698-9274.

LAWN MOWERS - old, any cond., also weed-wackers, chainsaws, etc. Dan, Ext. 4987 or 698-7322 eves.

ELECTRIC MOTOR - ½ & 1 h.p., 1725 rpm, ⅝ shaft. Ext. 281-8274 or Ext. 3953.

ALUMIMUM BOAT - 13' or 14', Duranautic, 1980 or newer. Joe, pager 925 or 728-1859 eves.

MINERALS - mineral collections, mineral books, old, any language. Plotkin, Ext. 7974 Wednesdays only or 798-2887.

COMPUTER WORK STATION - reasonable. Ext. 3316 or 698-1362, leave message.

HOUSEMATE - to share 3-bdrm. house in Mastic Beach, w/2 professionals, cable, 10 min to Lab, $390 includes all. Johathan, Ext. 4662.

GOLF CLUBS - left-handed set w/metal woods, good cond. Mark, Ext. 4289.

MUSLIM EMPLOYEES - to participate in Friday (Gumma) prayer. Taha Megahed, Ext. 4465.

Classified ad deadline for the Brookhaven Bulletin of July 14 is 4:30 p.m. on Friday, July 7.