BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Five Employees Honored With First Brookhaven Awards

- **Edward Harmer**, *Assistant Manager, Central Shops Division (CSD)*
- **Mario Manni**, *Project Engineer I, Physics Department*
- **Andrew McNerney**, *Senior Project Engineer, Alternating Gradient Synchrotron (AGS) Department*
- **Richard Melucci**, *Department Administrative Manager, Department of Applied Science (DAS)*
- **Barbara Royce**, *Project Engineer I, Safety & Environmental Protection (S&EP) Division*

The five BNLers cited above are the first five winners of the Laboratory's new Brookhaven Award. In the award's inaugural year, these employees were recognized for their key contributions in support areas and their performance and achievements that represent outstanding service to the Laboratory.

The awards — each received $2,000 before taxes and an engraved memento — were presented to the winners on Tuesday, by BNL Director Nicholas Samios. "It's a pleasure recognizing the outstanding contributions of these fine individuals in a meaningful way," said Samios. "This program has been instituted to reward such employees whose efforts have gone way beyond their job requirements. Merry Christmas."

Roger Stoutenburgh

Flanked by BNL Director Nicholas Samios (left) and Personnel Division Manager Robert D'Angio (right), are the first five winners of the Brookhaven Award. Holding their engraved glass and onyx mementos are: (from left) Mario Manni, Edward Harmer, Barbara Royce, Richard Melucci and Andrew McNerney.

Those eligible for the Brookhaven Award include employees on the Engineer/Scientific Associate/Computer Analyst schedule, all Administrative and Technical monthly employees, all Technical and Clerical weekly wage employees, and employees in the two lowest Management grades.

From these groups, which represent about 60 percent of BNL's over 3,300 employees, all departments and divisions were invited to submit nominations. A five-member selection committee consisting of department chairmen and division heads or managers reviewed all the nominations and selected the final five, who were recommended to Samios for his final approval. Chaired by Robert D'Angio, Personnel Division Manager, the committee included: Physics Department Chairman Peter Bond, Reactor Division Head Michael Brooks, Plant Engineering Division Manager Bruce Medaris and Chemistry Department Chairman Norman Sutin.

The Brookhaven Awards were introduced last May as part of the new Recognition Awards Program, which was then implemented at BNL. Other awards initiated at that time were:

- **Distinguished Research & Development Award** — The first five recipients of this $5,000 award (before tax), for contributions to the Lab's research and development mission will be announced in next week's Bulletin.
- **Spotlight Awards** — In fiscal year 1991, 55 employees received this $500 after-tax award for short-term, extraordinary effort. Some will be introduced in a Bulletin in January.
- **Perfect Attendance Awards** — The first $200 U.S. Savings Bonds will be distributed in early 1992 to weekly employees with perfect attendance in calendar year 1991. They will be announced in a Bulletin early next year.

(continued on page 2)

BNL Lecture: Relativistic Heavy Ion Physics — A New Frontier

The adventure of charting unknown territory has always drawn explorers to science, and, in the largely unexplored field of heavy-ion physics, investigations are particularly exciting.

Heavy ions are charged atomic nuclei that are heavier than a helium nucleus. At BNL, experiments with relativistic heavy ions, which are generated in the Tandem Van de Graaff and accelerated in the Alternating Gradient Synchrotron (AGS), began in 1986.

New experimental pathways will be opened this year with the completion of the Booster, but the final frontier should be approached in 1997, with the advent of BNL's Relativistic Heavy Ion Collider (RHIC).

Senior Physicist Peter Bond, Chairman of the Physics Department, will discuss "Relativistic Heavy Ion Physics — A New Frontier," in the 275th Brookhaven Lecture, on Wednesday, December 18. At the talk, which will begin at 4 p.m. in Berkner Hall, the speaker will be introduced by Derek Lowenstein, Chairman of the AGS Department.

In the lecture, which will be aimed to include the non-specialists in the audience, Bond will explain the purpose of both present and future heavy-ion experiments — to probe the extreme conditions of temperature and density produced when heavy ions collide. Also, it is hoped, the experiments will provide evidence of the quark-gluon plasma believed to have existed at the birth of the universe.

Quarks are thought to be the smallest constituents of matter and gluons the "glue" that strongly binds them into pairs and triplets. In heavy-ion experiments, these strong bonds may be briefly severed, freeing the quarks and gluons from normal confinement to move about as a plasma.

As Bond will relate, the early experiments have been of an exploratory nature, but they have shown some interesting phenomena. As a member of heavy-ion Experiment 802, which finished taking data last spring, Bond will describe this experiment and some of its results.

In addition, Bond will discuss other current experiments at the AGS and elsewhere, as well as those that may take place at RHIC. He will also include in his talk brief glimpses of the techniques and detectors that will be required for this exciting new area of physics.

Roger Stoutenburgh

Peter Bond sorts viewgraphs showing the type of events produced by heavy-ion collisions, in preparation for his Brookhaven Lecture.

After graduating from Harvard University in 1962 with a B.A. in physics, and from Western Reserve University in 1963 with an M.A. in education, Peter Bond spent a year teaching mathematics at John Adams High School in Cleveland.

He came to BNL in 1972 as an assistant physicist, after earning his Ph.D. in physics at Case Western Reserve in 1969 and spending three years as a research associate at Stanford University. He was named Associate Physicist in 1974, Physicist in 1976 and Senior Physicist in 1986, having received tenure in 1978.

In August 1986, Bond became Associate Chairman of the Physics Department, then Deputy Chairman in February 1987 and Chairman in July of the same year.

Elected a Fellow of the American Physical Society in 1982, Bond was then elected a Fellow of the American Association for the Advancement of Science in 1989.

After the lecture, those attending are invited to join the speaker for discussion and hors d'oeuvres. To join the lecturer for dinner at a restaurant off site, call William Morse, Ext. 3859.

Inside Info

The **Clinical Laboratory** within the Medical Research Center of BNL's Medical Department was awarded its first two-year accreditation by the College of American Pathologists (CAP), as a result of a recent on-site survey by CAP examiners.

Although the Clinical Laboratory is accredited by the Joint Commission on Accreditation of Heathcare Organizations, the CAP accreditation was sought so that BNL's Clinical Laboratory could be compared with the more than 4,000 CAP-accredited hospital and commercial clinical laboratories nationwide. As a result of the CAP accreditation, BNL may now be reimbursed by health insurance plans for tests that it is authorized to perform for non-Brookhaven employees, for instance, the cancer patients being treated at the new Radiation Therapy Facility in the Medical Department.

Begun in the early 1960s, the CAP laboratory accreditation program is recognized by the U.S. federal government as being equal to or more stringent than its own inspection programs. To determine how well a clinical lab is serving its patients and their physicians, CAP inspectors examine the lab's records and quality control procedures for the preceding two years, as well as the staff's education and qualifications. Lab safety, adequacy and condition of the facility and its equipment, and the quality of lab management are also considered.

Upon being advised of the CAP accreditation, Clinical Laboratory Director **Daniel Slatkin** congratulated Clinical Laboratory Supervisor **Harry Ulyat**, and his staff: **Annette Gremme, John Heinrichs, William Lehman and Corinne Vohlidka.**

First Brookhaven Awards (cont'd)

Edward Harmer

"Outstanding." That's the word CSD Manager Richard Spellman uses to sum up Ed Harmer's efforts as his Assistant Manager, coordinating activities between the scientific departments and Central Shops.

Researchers who need special parts or unique pieces of tooling are likely to look to CSD. There, Harmer will connect them with the best craftsperson for the job, suggest ways to make the project most cost efficient, and follow the project closely to make sure it is completed on time and within budget.

Testifying to how well Harmer has done this job were the 24 letters of thanks and commendation from Lab personnel that Spellman submitted to the selection committee along with the nomination.

Harmer's extensive and critical involvement with BNL's R&D effort is evident by looking at a partial list of the projects cited in the letters: prototype magnets and tooling for the National Synchrotron Light Source (NSLS) since its earliest days; the cold neutron moderator for the High Flux Beam Reactor; tooling for magnets for BNL's Relativistic Heavy Ion Collider (RHIC) and solid-form block tooling for the national Superconducting Super Collider (SSC); welded support stands and all of the pickup electrodes for the Booster's line ring; tooling for the EVA experiment at the AGS; pole tips for the muon g-2 test magnet at the AGS; and a radio frequency (rf) cavity for the compact synchrotron being built as a superconducting x-ray lithography source at the NSLS.

Said Harmer, "Everything we do is a team effort. I attribute a considerable part of my success to my family and close coworkers, and to the hard workers on the floor who are so eager to help and who contribute so much of their expertise so freely.

"I try to do the very best I can and give it a little extra every day — that's my motto," Harmer added, "And it works. I love what I do. There's a sense of satisfaction when the job is done, and I feel I'm contributing to my country. It's the best job I've ever had. Time goes fast, and it's rewarding."

Harmer came to BNL in June 1974 as an experimental machinist in CSD's Heavy Machine Shop. In November 1974, he became a tool & instrument maker until May 1977 when he was named Machine Shop Supervisor, overseeing the Light Machine Shop, the Radioactive Shop and the electron beam welding area of the shops. In 1983, he became Supervisor of the Heavy Machine Shop. After being promoted to General Supervisor in October 1986, Harmer became CSD's Assistant Manager in October 1990.

Mario Manni

For Project Engineer Mario Manni, as for the other recipients, the Brookhaven Award reflects the accumulated efforts of his years at BNL. Those accumulated efforts, said Physics Department Chairman Peter Bond, "are assuring the future of the Laboratory."

The future to which Bond refers is RHIC and the experiments with relativistic heavy ions that will take place there. But RHIC would not be being built today if there were no Tandem Van de Graaff accelerator at BNL. And, when Manni arrived at the Lab in 1962, there was no Tandem.

Manni joined the fledgling project to build the two heavy-ion generators in 1965, and got involved with the design of buildings and experimental apparatus. The Tandem began operation in 1970, and Manni continued to work on maintaining and upgrading this facility. In particular, he is credited with the design and construction of extended acceleration tubes for the Tandem, which allowed increased voltage and consequently extended the useful life of the facility.

The importance of this extension became evident in 1984 when the Tandem began to figure prominently in the idea for RHIC. Through a series of beam transfer lines, heavy ions produced in the Tandem would be injected from the AGS into RHIC. The heavy-ion transfer line (HITL) linking the Tandem to the AGS was completed in 1986; the HITL to Booster transfer line was recently finished. Manni was responsible for the engineering, design and fabrication of the ultrahigh vacuum and magnet support hardware for both lines.

The opening of the HITL allowed heavy-ion experimentation to begin at the AGS. Manni was responsible for mechanical design and implementation in AGS Experiments 802 and 859. He is now working on further ion source and Tandem accelerator improvements.

Of his work, Manni says, "It's been great. You put a lot of effort into it, but it's a very nice group to work with — everyone is cooperative and appreciative. It's one of those jobs that, because you like what you do, you just can't wait to get to work. It's been a real treat."

Manni came to BNL as a designer in the Mechanical Engineering Department in October 1962. He was named senior designer in 1964, design engineer III in 1972 and design engineer II in 1975. When the Tandem joined the Physics Department in 1976, Manni did too. There, he became a design engineer I in April 1980, then senior design engineer in October 1980. He was promoted to Project Engineer I in 1985.

Andrew McNerney

Senior Project Engineer Andy McNerney has been associated with the Booster Project since 1986, when he was appointed the project's Chief Electrical Engineer, responsible for coordinating the design, procurement, testing and installation of all electrical components. In 1988, he was named Deputy Project Manager.

"In both capacities," said AGS Chairman Derek Lowenstein, "Andy performed admirably with total dedication and professional effectiveness. It is due mostly to his contributions that the Booster Project was completed on time and within budget."

In this period, McNerney and other engineers undertook a study of the stability of the power distribution grids of both BNL and the Long Island Lighting Company. His recommending the establishment of a second power substation at BNL and formulating the safe operating range of the Booster allows the Booster to operate at design capacity without interfering with other BNL facilities.

McNerney's sensitivity to potential problems associated with delays in procuring ferrite for the Booster's prototype rf system assured the system's timely completion. He also applied his planning and coordinating skills as liaison with other departments and divisions doing work for the Booster, to distribute Booster personnel most effectively and to assure that the AGS could smoothly run its physics research while Booster commissioning took place.

Says McNerney. "It's been an exciting place to be, and the best part of it is the people I work with. In fact, this award truly should go to them."

McNerney came to BNL in August 1965 as a development engineer III, reaching levels II and I in 1969 and 1974, respectively. He was named research engineer in 1980 and senior project engineer in 1982.

McNerney's first engineering efforts at BNL focused on triggering circuits for fast kicker magnets for the AGS. He then began work on the new rf system for the linear accelerator injector for the AGS — the 50 million-electron-volt (MeV) linac, which reached record intensities.

From there, he became involved in construction of the 200-MeV linac for the AGS, which began operating in 1970. In 1974, he took his engineering skills to the Power Transmission Project. Returning to the AGS in 1982, McNerney became Chief Engineer of the linac, then AGS Power Supply Group Leader in 1983.

Recently named Deputy Division Head of the AGS Accelerator Division, McNerney will play a leading role in the AGS Upgrade Program to achieve the factor of four increase in proton intensity and the acceleration of heavy ions up to gold that will bring the AGS to the level where it can serve as the injector for RHIC.

Richard Melucci

Of his Department Administrative Manager Dick Melucci, DAS Chairman Leon Petrakis said, "I believe the Laboratory is a better place for his presence."

While Melucci's contributions began with his work in DAS, many have had effects throughout the Lab. It was through his initiative, for instance, that DAS began assigning individual responsibility for capital equipment, a measure that has been adopted Labwide.

With well over 200 accounts and funding from about 75 different sources, DAS is probably BNL's most administratively cumbersome department. And Melucci recalls that when he became Department Administrator in 1979, "It was a complicated affair. So the first thing I did was to develop automated systems to handle all that." Today, these systems are in use by several other BNL departments and have enabled Melucci's group to control DAS's budgets and expenses such that DAS has required no closing adjustments for the last two years.

In 1982, DAS administration was using Hewlett-Packard (HP) terminals to communicate with data-processing systems in the Management Information Systems (MIS) Division. Melucci searched for and found a company designing the first HP terminal emulator for PCs. As Petrakis related, "He tested it, found it useful, and promoted its acceptance at BNL. The availability of what eventually became Reflection significantly promoted the acceptance of PCs at BNL because they could be cost-justified to replace, not just complement, terminals."

In 1985, Melucci and other administrators helped initiate a review of MIS user services. The review resulted in major changes in MIS and the establishment of the MIS Steering Committee, to which Melucci was appointed a charter member in 1986.

On his own time in 1985, Melucci helped develop the Lotus-based rate-review system that is still used by the Lab to conduct and consolidate the rate review. Similarly, in 1988, he automated a project-estimating system for DAS, which is now being used by the NSLS for the $100 million UV Free Electron laser proposal.

For Melucci, these efforts were mostly a labor of love. "I enjoy computerizing things, and I have a background in computer logic design, so I understand how computers work," he said, "I never expected or even felt the need for any special recognition."

Melucci came to BNL in August 1974 as a staff assistant in the Physics Department, becoming a senior staff assistant in 1977. After moving to DAS in 1979 as department administrator, he became senior department administrator in 1982 and department administrative manager in 1986.

Barbara Royce

Summarizing the factors that led him to nominate Project Engineer Barbara Royce for the Brookhaven Award, S&EP Head Robert Casey noted "her dedicated efforts in assisting the Laboratory towards full compliance with County, State and Federal environmental regulations, as well as her very significant contributions during the extensive County, Tiger Team and EPA reviews of Laboratory programs."

Royce came to S&EP in December 1986. Today, she is the division's Group Leader for Environmental Compliance. Since 1987, this has meant working closely with a stream of audit and inspection teams.

In spring 1987, the U.S. Department of Energy (DOE) conducted an environmental survey, returning in 1988 to take samples. Based on an agreement between BNL and Suffolk County signed in 1987, county inspectors checked every Lab building for compliance with county regulations from 1988-89. Visits from the DOE Tiger Team and the U.S. Inspector General's office highlighted 1990, and the Environmental Protection Agency (EPA) came in 1991.

Each audit, Royce explained, takes a lot of preparation and follow-up. As necessary, she'll do preliminary walk-throughs and help prepare departments. Of course, the inspections take all her time while the team is on site. Then afterwards, she participates in providing solutions to problems or questions raised.

Another major effort is maintaining BNL's many permits and licenses. The central steam plant, for example, is classified as a major petroleum facility because of the large volume of oil stored there, so a license is required from the State, which comes to inspect annually. Royce also must continually review and renew the Lab's almost 50 air permits.

For Royce, this has been a learning process. "I was familiar with some of the regulations when I started," she said, "but I've learned so much more. I've taken courses on different regulations, talked to people and spent a lot of time reading, reading, rereading, then talking to the regulators again, to make sure I understood what was required."

Barbara Royce started at BNL in 1980, as an assistant engineer III in DAS, quickly becoming an associate staff engineer. Named staff engineer in 1982, she moved to S&EP in 1986 as a project engineer II. She was named to her present position in 1990.

Throughout her time at S&EP, Royce has been a member of the Lab's Oil & Chemical Response Team. Whenever a spill occurs — day or night, weekday or weekend — this team determines if the incident must be reported to off-site agencies, and provides guidance on how to contain the spill and clean it up.

— Anita Cohen

Open House At the SEC

All are invited to attend an open house next Friday at BNL's new Science Education Center (SEC), Bldg. 438. The SEC is the home of the Office of Educational Programs, which moved into the new quarters in October.

Now that the group is all set up, visitors are welcome to stop by for tours and refreshments on December 20, from 4 to 6 p.m. The SEC is located on the south side of Brookhaven Avenue, opposite Berkner Hall.

Reserve Santa For Christmas Eve

Driving BNL Fire Engine #2, Santa Claus (Firefighter Rich Richard) and his elf helper (Sergeant Chuck LaSalla) will stop by the Lab on two days this year.

On Friday, December 20, they will arrive at 3 p.m. in the apartment area, to visit children of BNL guests living on site. Then on Tuesday, December 24, from 10 a.m. on, they will make their rounds greeting BNL employees.

During both outings, Mr. Claus and his jolly elf will be handing out candy canes — compliments of the Fire/Rescue Group of the Safety & Environmental Protection Division.

If in past years Santa and company have missed your building or if you wish them to appear at a certain time for your office, call Ext. 2351 to schedule their Christmas eve visit.

Don't Invite Fire For the Holidays

As holiday decorations appear in the workplace and at home, remember these simple fire safety rules, provided by the Fire Protection Engineering Group in the Safety & Environmental Protection Division:

- Don't place trees in locations that restrict halls, exits or stairs. A natural tree can become a raging inferno within ten seconds, blocking an avenue of escape and spreading the fire upstairs.
- Use only Underwriter Laboratory (UL) labeled lights and electrical equipment. Check label to see if they are approved for indoor or indoor/outdoor use.
- Inspect all cords and light strings for fraying, broken sockets, etc., and discard damaged equipment.
- Avoid using combustible decorations, especially lightweight, frilly ones such as angel hair, which is easily ignited and burns rapidly.
- Make sure your home has working smoke detectors. Check the batteries, and replace any over one year old.

Note to Employees:

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

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Tips of the Trade

What's Up at the Upton Post Office

This is another in an occasional series of stories highlighting the work and sharing the expertise of the tradespeople and service staff at BNL.

When Brookhaven National Laboratory was established on January 31, 1947, it was located in Yaphank, New York. Its historic location, in fact, had been heralded in the Broadway musical *Yip, Yip, Yaphank*, which was written by Irving Berlin about his experience as a World War I doughboy in training on site at what was then the Army's Camp Upton.

Since August 1, 1947, however, the Lab has been found not in Yaphank, but in Upton, New York. On that date in BNL history, the United States Postal Service (USPS) established an office on site for the Lab's convenience and gave it the name Upton.

Located in Bldg. 179 on Center Street, the Upton Post Office today handles over 50,000 pieces of incoming mail per week and about half that amount of outgoing mail. It is staffed by clerks Ralph Garappolo, Ralph Persson and Patricia Rogers, who are supervised by the Postmaster of Upton since 1984, Jeanine Fornsel.

Neither snow, nor rain, nor heat, nor gloom of night stays these couriers from the swift completion of their appointed rounds. "But mailing your holiday cards and packages early does help," says Pat Rogers, who is Acting Postmaster in Fornsel's absense.

Mail is delivered to BNL three times a day, at 6:30 a.m., 7:15 a.m. and 2 p.m., weekdays, and twice, at 6:30 a.m. and 7:10 a.m., on Saturday. Mail dropped off in the slot at the Upton Post Office proper or in its three mailboxes — one in front of Bldg. 179 on Center Street, another in the Farmer's Market parking lot off Brookhaven Avenue and the third on Yale Road in the apartment area — goes out at 11:30 a.m. or 4:45 p.m. weekdays.

Roger Stoutenburgh

Grouped at the Upton Post Office: (from left) Ralph Garappolo, Patricia Rogers, Ralph Persson and Jeanine Fornsel.

At 6:30 a.m. Monday through Saturday, Garappolo accepts the first mail delivery, begins sorting the morning's mail and, before noon, hand delivers express mail and special deliveries.

"All the mail addressed to BNL buildings is delivered to the BNL Mail Room next door," explains Garappolo, "and the P.O. box mail is delivered by 10 a.m." The Upton Post Office has 551 small, medium and large P.O. boxes in its lobby. Though all are taken at present, "they do become available because of the large turnover of visitors to the Lab," adds Garappolo.

From 8:30 a.m. to 4:45 p.m. weekdays, the two service windows are open for business. With a long list of services from which to choose, customers are welcome to ask for advice about what service to use for domestic or international mail.

"When our customers need a special service, many just think special delivery, which isn't necessarily the service that matches their needs," explains Rogers. "For instance, our two-day priority mail service for $2.90 is a good deal and often is exactly what many customers need, so we invite them to discuss their mailing requirements with us first so we can recommend our best service to them."

Rogers adds, "We are very knowledgeable about mailing overseas because about 50 percent of our business involves foreign mail."

The Upton Post Office also sells philatelic items. The most popular gifts on sale at the Upton Post Office are commemorative sets of stamps; right now, the stock includes sets for the years 1989 through 1991.

Special for this holiday season are two commemorative mint sets complete with their own informative stamp books: *World War II Remembered*, and *Letters From the Sand: The Letters From Desert Storm and Other Wars*.

There are so many philatelic products, in fact, that the Upton Post Office cannot keep stock of them all.

"If you don't see what you want or want something else but don't know what it is, just ask so we can advise you about availability," says Persson.

In addition, the Upton Post Office also offers free advice, especially useful this holiday mailing season:

"Ask us for an addressing reference card because, believe it or not, not everyone knows how to address a letter and it is important to do it right since the mail is being sorted by optical scanners," suggests Rogers.

"Know your zip code, but better yet, know your zip plus four," advises Persson. The zip+4 for Upton is 11973-5000. "And, if you don't know a zip code, call or come to the Post Office, and we'll look it up for you."

"When mailing packages: brown paper is not necessary; use packing, not masking, tape and no string; print your return address in addition to the sending address; and put a card with your name and address inside the package as well," recommends Garappolo.

"To deliver your last minute holiday cards and gifts, consider our express mail service, which is overnight to most places in the U.S.," concludes Fornsel. — Marsha Belford

Roger Stoutenburgh

T-Shirts Galore At Science Store

Everyone looking for T-shirts bearing scientific cartoons by Sidney Harris will be glad to know that all six styles have now arrived at the Science Store in the Exhibit Center/Science Museum. There, they are being sold for $6.50 each during the Winter Holiday Sales — today and next Friday, December 13 and 20, from 10 a.m. to 3 p.m., on the west side of Bldg. 701.

So join the crowd for some great buys on sensational science-oriented gifts, from old favorites like the Tangle that Veronica Evans is holding here to new charmers like Doodle Top or Lumino Prisms. Stop in today: While the store has not sold out anything yet, stocks of some items are getting low.

Software Demo

Egghead Software will sponsor a presentation on WordPerfect 5.1 for Windows on Tuesday, December 17, at 2 p.m., in the CCD seminar room.

The best-selling word-processing package at BNL and elsewhere, WordPerfect has only recently become available for Windows. It uses a graphical user interface and a what-you-see-is-what-you-get display. On-screen ruler and button bar allow shortcuts while retaining previous features. The ruler will show fonts, tables, columns, justification, spacing, margin and column settings. The button bars can be edited and used to create icons for accessing features. Graphics, file manager, conversions and typesetting will also be demonstrated.

In Memoriam

Eleanor Anderson, who retired from the Medical Department in 1977 after more than 20 years of service, died on October 30 at the age of 79.

Anderson began her association with BNL on July 22, 1957, as a hospital matron. She changed titles several times before she retired on December 30, 1977 as a hospital services assistant IV.

A resident of Riverhead, Anderson is survived by her husband Arthur Anderson Sr.; her son Arthur Anderson Jr., who works in the Plant Engineering Division, and his wife Cordell Anderson, of the Staff Services Division; a daughter, Sheila Patton of Brooklyn; another daughter, Hannah Woodson of Riverhead; 12 grandchildren; and 14 great-grandchildren.

Equipment Demo

The benefits of using rf subminiature connectors manufactured by Applied Engineering Products (AEP) will be the focus of an exhibition to be hosted by distributor PDQ Electronics, Inc. and Friedman-Smith Electronic Sales, Inc., AEP's local manufacturing representative, on Thursday, December 19, from 11 a.m. to 2 p.m. in Berkner Hall.

Brookhaven Center Club

Movie Night

Home Alone

Wed., Dec. 18, at 8 p.m.

Cafeteria Menu

Luncheons

Monday, December 16

Soup: Chicken noodle	.80/1.10
Entree: Sweet & sour pork over rice	3.20
Entree: Cheese ravioli w/red sauce	3.00
Entree: Chicken chasseur over noodles	3.20
Carvery: Hot pastrami sandwich	2.95
Grill: Tuna melt w/French fries	2.20

Tuesday, December 17

Soup: Vegetable	.80/1.10
Entree: Manicotti w/red sauce	3.00
Entree: Fried flounder w/French fries	3.20
Entree: Chef's choice w/1 veg.	3.20
Carvery: Hot roast beef sandwich	2.95
Grill: Reuben w/French fries	2.95

Wednesday, December 18

Soup: Cream of broccoli	.80/1.10
Entree: Rock Cornish game hens	3.75
Entree: Roast prime rib of beef	3.75
Entree: Honey glazed ham	3.20
Complete Christmas Dinner Special	
soup, entree, 3 vegs. & nonfrozen dessert	4.95

Thursday, December 19

Soup: Onion	.80/1.10
Entree: Stir-fried beef over rice	3.20
Entree: Veal Parmesan & spaghetti	3.20
Entree: Baked macaroni & cheese	3.00
Carvery: Hot corned beef sandwich	2.95
Grill: 3-D burger w/French fries	2.95

Friday, December 20

Soup: Seafood chowder	.80/1.10
Entree: Baked fish w/1 veg.	3.20
Entree: Grilled shell steak w/1 veg.	3.75
Entree: Pasta primavera	3.00
Carvery: Hot turkey sandwich	2.95
Grill: Clam boat w/French fries	2.95

Gospel Choir

All singers are invited to the first drop-in rehearsal of the newly formed BNL Gospel Choir, organized by the Afro-American Culture Club. The choir will debut at the Gospel Extravaganza on February 1.

Join this nondenominational, multicultural choir during your lunchtime anytime between 11:30 a.m. and 1 p.m. on Monday, December 16, in the North Room of the Brookhaven Center. For more information, contact April Donegain, Ext. 2459, or Fran Ligon, Ext. 3709.

Camera Club

The Camera Club will meet at 5:15 p.m., in Berkner Hall on Thursday, December 19, to change the pictures in the club's photo display. As always, nonmembers are welcome to attend and to contribute photos that meet the exhibit's display criteria. Photographers who cannot attend this meeting may also submit prints for the exhibit. All photographs must be mounted and ready to hang.

For information, contact Lew Jacobson, Bldg. 134C, Ext. 5193; Ripp Bowman, Bldg. 911B, Ext. 4672; or Anne Baittinger, Bldg. 134, Ext. 5055.

Bowling

Red/Green League

H. Arnesen had a 247/622 scratch series, R. Mulderig 246, M. Palumbo 246, K. Asselta 233/207/623 scratch, P. Ouvrard 227, J. Muller 223/203, C. Bohnenblusch 223, K. Riker 217/213/203/633 scratch, A. Pinelli 209, W. Cahill 208, R. Wiseman 207, R. Eggert 204, C. Scarlett 204, S. Thompson 202, R. Jansson 201.

White League

John McCarthy had a 276, Craig Diaz 210, Joe Mayeski 205, Gerry Riker 198.

Purple League

Andy Warkentien had a 224, Pete Stelmaschuk 218, Jim Goode 214, Phil Radusewicz 211, Vito Manzella 203, Mary Grace Meier 193, Nancy Erickson 192, Mary Addessi 188, John Addessi converted the 6/7/10 split.

There's still time to sign up ...

1991 BNL Blood Drive

Monday & Tuesday, December 16 & 17

10 a.m. to 3 p.m. in the gymnasium

Contact Blood Drive Chair Susan Foster, Ext. 2888 or your department/division Blood Drive Captain.

Gym Closing

Due to the 1991 Blood Drive on Monday and Tuesday, December 16 & 17, the gymnasium and weight room will be closed Saturday through Tuesday, December 14-17. They will reopen Wednesday morning. The locker rooms and pool will remain open throughout this period.

Arrivals & Departures

Arrivals

Robert L. Marascia Jr.....Accel. Dev.
Mei Bai....Biology
Ferenc Lajko....Biology
Cynthia Longo....Accel. Dev.

Departures

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

Rudolph M. Damm....AGS
James J. Egan....App. Science
Margaret M. Fennelly....Staff Serv.
Peter Fennelly....Plant Eng.
Yahia F. Musa....Plant Eng.
Milan Kumar Sanyal....Physics

Amateur Radio Club

At the regular monthly meeting of the Amateur Radio Club in Room D, Berkner Hall, on Thursday, December 19, at noon, the results of the election of club officers for 1992 will be discussed.

All Lab employees, guests and licensed amateur radio operators are invited to attend. For more information, contact Andy Feldman, Ext. 3264, or Gary Utz, Ext. 3580.

Volleyball

Standings as of December 5

Open League		League I	
Magnum	17-1	Upfagrabs	16-5
G-Team	10-8	Network News	13-8
Phoenix	8-10	Rude Dogs	11-7
Me and the Boys	8-10	Dinkers	12-9
Penetrating Vollies	6-12	Six Pack Attack	12-9
Leftovers	5-13	Setups	7-14
		Bumps & Sets	1-20

League II		League III	
Net Wits	17-1	Renegades	15-3
Monday Night Live	14-1	High Volley'em	11-4
Fossils	9-6	Nutcrackers	13-5
Night Court	7-8	Over the Top	11-7
Nuts & Bolts	7-8	Good Timers	7-8
Upton Ups	6-12	Interns	6-9
Volley of the Dolls	5-10	Sourcerers	4-11
Just Ups	4-11	Silver Bullets	3-12
Muffits	3-15	Undertakers	2-13

Physical Review Has Job Opening

The American Physical Society's (APS) Physical Review A seeks a responsible individual to work as an Editorial Assistant for approximately 20 daytime hours during the week. APS will train someone with an interest in journal publication willing to make the commitment necessary to develop editorial skills. B.S. or M.S. in Physics or related field or B.A. with some relevant job experience is required.

If you have a broad interest in physics, strong command of the English language, excellent communication skills, and familiarity with the working scientist's expectation for a scientific publication, send cover letter and resume to: Joseph Ignacio, Personnel Manager, American Physical Society, Box 1000, Ridge, NY 11961. APS is an equal opportunity employer.

Classified Advertisements

Placement Notices

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

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

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

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

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

DD 8994. SECRETARIAL POSITION - (term appointment, part-time) Requires AAS in secretarial science or equivalent, excellent typing and IBM PC word-processing skills. Previous experience with TEX preferred. Duties will include preparing technical reports, correspondence, arranging travel, processing vouchers and maintaining files. Physics Department.

DD 1020. OFFICE SERVICES POSITION - (term appointment) Requires AAS or equivalent and previous relevant experience. Duties will include the maintenance of master drawing files, use of ozalid printing machine, print folding, and distribution of prints and engineering documents. Will maintain engineering change-order logs and print-paper supplies. Additional duties will include weekly time-sheet records. Previous computer or word-processing experience desired. Accelerator Development Department.

NS 0137. CARPENTRY SUPERVISOR - Responsible for first-line supervision in the Carpentry Shop. Directs employees on jobs, including assignment, training, scheduling, etc. Maintains records and reports. Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 1017. DESIGNER POSITIONS - (term appointments) Require AAS or equivalent and a minimum ten years' mechanical drafting/design experience. Must possess a thorough knowledge of engineering fundamentals, machine design, machine shop procedures and understanding of MIL-STD 100, Y14.5-1982. Previous experience with AutoCAD Release 10 also required. Will perform professional-level design functions. Accelerator Development Department.

DD 1015. DESIGNER POSITIONS - (term appointments) Require AAS or equivalent, and strong fabrication techniques using a variety of materials, a thorough knowledge of AutoCAD and geometric tolerances as per ANSI Y14.5M, and excellent mathematical skills. Familiarity with safety codes, and the ability to work from sketches and verbal communications also required. Accelerator Development Department.

DD 5274. TECHNICAL POSITION - (term appointment) Requires AAS in electronic technology or equivalent and extensive computer-aided design experience. Will provide a wide variety of printed circuit designs for proposed RHIC detector electronics systems, including flex circuits. Previous design experience helpful. (reposting) Instrumentation Division.

DD 6121. TECHNICAL POSITION - Requires AAS or equivalent experience in mechanical technology or previous relevant experience. Duties will include assembly of experimental magnets, vacuum systems and various other mechanical equipment. Alternating Gradient Synchrotron Department.

NS 0644. REACTOR SHIFT SUPERVISOR - Requires bachelor's degree in engineering or a related field and a minimum of five years' technical experience. Mechanical aptitude, supervisory skills and a willingness to work rotating shifts required. Previous power plant experience desirable; naval or commercial reactor experience or maritime experience preferred. Must be able to obtain and maintain a security clearance. Reactor Division.

NS 8621. ENGINEERING POSITION - Requires BS in environmental, civil or chemical engineering, or a related field and a minimum of four years' experience in project management, preferably in environmental restoration, including coordination with regulatory agencies and remedial action contractors. Familiarity with CERCLA/RCRA and other federal and state regulations and QA highly desirable. Office of Environmental Restoration.

NS 6120. ENGINEERING POSITION - Requires BSME and a minimum of five years' experience. Experience with engineering calculations, the ability to make design layouts and drawings, and familiarity with shop practices necessary; magnet-design knowledge highly desirable. Will be responsible for the design, construction and installation of electromechanical equipment and systems for particle accelerators. Alternating Gradient Synchrotron Department.

NS 1014. TECHNICAL POSITION - (term appointment) Requires AAS in engineering science, substantial experience in construction, assembly and test of rf and microwave equipment, and knowledge of ultrahigh vacuum procedures and electronic manufacturing methods. Must be skilled in the operation of rf test equipment; experience with general electronics and high power equipment for accelerator applications. RHIC Project, Accelerator Development Department.

MK 0675. SCIENTIFIC ASSOCIATE POSITION - Requires MS in physics or electrical engineering or equivalent with an emphasis on optics or laser electro-optical technology, extensive experience in developing computer programs in C language, and experience with lasers and precision optical measurement equipment. Will be responsible for assisting in developing optical instrumentation and analysis techniques for precision surface profile measurements. Mechanical design experience with CAD systems is highly desirable. (reposting) Instrumentation Division.

LF 5085. TECHNICAL POSITION - (term appointment) Requires a BSMT or AAS and two years' equivalent experience in vacuum/mechanical technology to support x-ray and VUV beam line PRT operations at NSLS. Must have knowledge of UHV procedures and have been extensively involved in leak checking, clean assembly and vacuum equipment maintenance. The ability to assemble precision mechanical components is highly desirable. National Synchrotron Light Source Department.

LF 0138. ENGINEERING POSITION - Requires a bachelor's degree in civil or environmental engineering or related discipline and experience in environmental and hazardous waste issues. Must be familiar with current federal, New York State and Suffolk County environmental agencies and regulations, and have sufficient engineering and project management experience to demonstrate responsible project leadership. PE license and/or master's degree are highly desirable. Responsibilities include all large-scale environmental and hazardous waste projects throughout the Lab. Plant Engineering Division.

LF 0136. PAINTER A - Will perform a wide variety of interior and exterior skilled painting operations on buildings, furniture and laboratory equipment. Prepares surface, removes paint, mixes paints and matches colors. Must know use and application of paints, synthetics, bleaching materials, stains and similar products, and proper use and care of painting equipment. Plant Engineering Division.

Motor Vehicles & Supplies

89 NISSAN SENTRA - 4-spd., sunroof, white, am/fm cass., excel. cond. Georgia, Ext. 2384 or 929-8185 after 6 p.m.

89 T-BIRD LX - loaded, alarm system, garaged, low mi., $9,500. 399-6729 after 6 p.m.

88 NISSAN MAXIMA SE - sport pkg., 5-spd., white, p/w, p/seat, p/l, ac, cruise, sunroof, tilt, am/fm cass., orig. owner, mint, $8,700. Chris, Ext. 3292.

88 LINCOLN TOWN CAR - gray, Signature series, loaded, low mi., mint cond., $12,500. Ext. 3428 or 878-6007.

87 HONDA ACCORD LX - 5-spd., powered, am/fm stereo cass., new brakes, excel. cond., $6,200. Paul, Ext. 7644 or 929-4295.

87 CAMARO IROC - 5.7 eng., fully loaded, all power. 286-6839.

86 JEEP CHEROKEE 4x4 - excel. cond., '86 Subaru GL-10, 4wd, turbo, wagon, mint cond., $4,500 ea. Henry, Ext. 4547 or 727-7227.

86 CHEVY CAVALIER - 4-dr., a/t, 126k mi., good cond., $1,700. Ext. 7696 or 924-2308.

84 CHEVY VAN - luxury conversion, all options, bench/bed, 86k mi., $4,650; '78 Malibu, 2-dr., 305 V-8, ac, make offer. Roy, Ext. 7357 or 878-5886.

84 MAZDA B2000 PICKUP - a/t, f/g cap, new brakes, tires, exhaust, 64k mi., $1,200 or best offer. Mike, Ext. 4345 or 474-0517.

84 FORD ESCORT - tan, 92k mi., h/b, ac, good mech. cond., damaged body work, $500. Anne-Marie, Ext. 2126, or 744-2836 eves.

83 TOYOTA SUPRA - performance pkg. full power, dependable, some rust, runs well, neg. Jon, 288-0953.

83 FORD ESCORT - a/t, new parts, runs well, asking $1,300. Pino, Ext. 5324, or Mauro, Ext. 4234.

83 BUICK LE SABRE - high mi., many new parts, excel. cond., real luxury car. 475-8073.

83 CELICA GT - 5-spd., ac, am/fm cass., p/l, p/w, p/s, more, 113k mi., v.g. cond., asking $2,500. Paul Michael, Ext. 2264.

80 TOYOTA TERCEL - 102k mi., am/fm cass. deck, ac, runs well, $500. Arvind, Ext. 3768 or 821-3519.

76 BMW 2002 - v.g. int., ext. & running cond., Bilsteins, Pirellis on 320i, alloy rims, Weber carb., $2,500. Walter, Ext. 4986.

76 GMC SUBURBAN - 6-cyl., 250 cu. in. eng., 2wd, new battery & tires, runs well, $500. Frank, Ext. 7519 or Vita, 277-0464.

72 TRIUMPH - for parts or restoration, new top, many extras. Ext. 5265 or 698-3870.

71 CAMARO - parts, rally sport hood, 2 doors, make offer. 472-3254.

See Supplement for more Classified Ads.

Classified Ads (Cont'd)

70 MERCEDES 250C - blue, all power incl. sunroof, new brakes, exhaust, clean, not running, $1,000. Darcy, 286-8523.

68 PONTIAC LE MANS - 350 eng., 187k mi., runs well, $100. Rudy, Ext. 2593.

62 JEEP CJ5 - runs, many extra parts, $700. Mark, 744-3383 or 821-7172.

35 PLYMOUTH STREET ROD - 340 bored .030, cammed, 671 Supercharger, show winner, very fast, $18,000. 473-0965 or 269-2935 eves.

CARBURETOR - Carter AFB & Edelbrock intake manifold for Jeep 360/401, setup ready to bolt on. Jim, Ext. 4617.

TIRES - 2, Firestone Supreme P185/80R13 on rims, good cond. Annamarie, Ext. 2352 or 821-5247.

CAR STEREO - Concord CX-50, 35 W/ch., 100 W preamplifier, more, $500; oil filters, PH-25, $7 ea., $20 for 7. Ernie, Ext. 7632, or Tim, 281-7873.

JACK - side-lifting, new, $15; wiper motor for GM cars, new, $10. Ext. 5080.

TIRES - 8.75x16.5, mounted on 8-lug rims, 2 snow, 3 regular tread, excel. cond., $140 for all. Ext. 4719 ro 751-8240 eves.

SHOP MANUAL - '86 Subaru, free or best offer. Mike, Ext. 3755.

Boats & Marine Supplies

30' CHRIS CRAFT - twin FWC, 350s, FB, $3,000; 28' Carver, 1973, f/g hull, FB twin FWC 302s, lots more, $12,000. Harry, Ext. 7527 or 744-2715.

18' VICTORIA - tilt trailer, 4.5-h.p. Merc., jib, main, Genoa, cruising spinnaker, VHF, D/F, K/M, sleeps 2, shoal keel, $3,650. Mike, Ext. 5972 or 744-4579.

17' BOAT - f/g, full canvas, new int., windshield, all access., galv. trailer, excel. cond., 60-h.p. Evin. needs work, $1,000. 878-1617 after 6 p.m.

Furnishings & Appliances

CEILING FAN - white, w/light kit, $30; Amana Radarange, w/manual, $75. Donna, Ext. 2716.

CHEST OF DRAWERS - $20; tall bookcase, $20; kitchen table, $20; misc. small items. Anne-Marie, Ext. 2126 or 744-2836 eves.

COUCH - Ethan Allen, 7', excel. cond. 325-0447.

COUCH - & matching chair, Col., excel. cond., $200. Pete, Ext. 4581 or 399-2813 after 5 p.m.

COUCH - & loveseat, pale yellow, good cond., $200; desk, $50; king-size mattress & boxspring, $50. Nick, Ext. 2251 or 744-2836 eves.

CRIBS - matching set, w/mattresses, $150/ea.; antique princess dresser, oak, excel. cond., $395. Henry, Ext. 4547 or 727-7227.

DESK - 2 drawer, walnut color top & chair, like new, $50. 744-7269.

DINING ROOM - table, hutch, 6 chairs, good cond., $600 or best offer. Ext. 5265 or 736-1525.

DINING ROOM - dark pine, Col., hutch/buffet, 52" round table w/two 12" leaves, pads, 2 arm & 4 ladderback chairs. George, Ext. 4453 or 4466.

DINING SET - $75; dresser, $20; bookcase, $15. Arvind, Ext. 3768 or 821-3519.

DRYER - Kenmore, electric, works, $25. 472-3254.

KEROSENE HEATER - Coleman, w/6" exhaust, v.g. cond., 35-50,000 Btu, heat control as needed by carburetor. Frank, Ext. 3120.

MICROWAVE - Litton Minutemaster, high power, 1.2 cu. ft., w/variable cooking levels. Bob, Ext. 4551.

REFRIGERATOR - Kenmore, 19 cu. ft., frost-free, white textured finish, excel. cond., 3 yr. old, $250. Greg, 395-5490, leave message.

SHOWER BASE - 38", new, white, orig. $200, sell for $100. Sue, Ext. 3492 or 289-6844.

SOFA - blue print, & leaded glass coffee table, Col., $350/both; 3 old dressers, $50/ea. 475-4199.

VACUUM - Electrolux, upright, never used, still in box, $300. Jeanne, Ext. 7742.

WASHER & DRYER - Whirlpool, toploading washer, frontloading dryer, white, like new, $400. 277-7815.

Tools, House & Garden

FRANKLIN STOVE - w/grate, screen, use w/door open or closed, ideal for garage/basement, $60. 744-9423.

JADE PLANT - 5' tall, 3' wide, in redwood tub, $50. Fran, 286-0958.

POWER TOOLS - large quantity, new & used, some need repair, must see. 878-6637.

Sports, Hobbies & Pets

AMATEUR RADIO - 55B transceiver, Kenwood TS-520SE, digital readout, SWR meter, key extra speaker, $425/all. Frank, 732-1384.

AMPLIFIER - & bright red guitar w/whammi bar, both used, good cond., $150. Mike, 744-8933.

BENCH - Weider, model D-132, brand-new. Frank, Ext. 3120.

BIKE - girl's, 16", white, $35. Paul, Ext. 4156.

BICYCLE - Sears, new, 15", boy's, fully assembled, training wheels, $55. Tony, Ext. 7214 or 423-9750.

BIKES - GT Performer free style, $85; Mongoose Californian Pro, new, excel., $325; 3 r/c cars, $75/ea., $200/all. George, Ext. 4453 or 4466.

BIRDS - pair green singer finches and 1 cordon blue finch in large white cage, $100, society & zebras, $10/pr. 744-3069.

CAMERA - 35mm, SLR Mamiza ZE-2, auto exposure, 55mm 1:1.7 lens, flash, filters, close-up lens, $90. Sue or Don, 473-6570 after 7 p.m.

DOG/CAT TRANSPORT CAGE - 26"x20"x16", heavy wire, good cond., $50. Rau, Ext. 3864.

EXERCISE BIKE - basic model, new, $20; boy's bike, 20", $25. Ext. 5080 or 751-1884.

EXERCISE BIKE - like new, white, $45; accordion, 80 bass, $45. snare drum, $20. Frank, 732-1389.

GUITARS - 2, $50, $75; African Cichlids, many types; fish tanks, 50 gal. setup, $150, 20 gal., $45, 30 gal., full hood, $15. Roy, Ext. 7357.

ICE HOCKEY SKATES - CCM, size 9, used 3 times, excel. cond., $25. Bob D., Ext. 7772.

ICE SKATES - figure, 2 pairs, men's, size 8 & 11, $12/ea. 475-4394.

SKIS - K2, 165cm, & poles, 230 Tyrolia bindings, 9-9½ Caber boots, $100. Mike, Ext. 7941.

SKIS - Head Radial 170cm, Marker bindings, poles, $99. 473-2473.

SKIS - children's, 130cm, Rossingnol, $45; boots, size 4, $20; poles, $5. Leonard, Ext. 4457.

SNOW SHOES - Snocraft model M, hardly used, 2 pairs, $20/ea. 727-8631.

SOLOFLEX - complete; exercise bike; bike components, Colnago Master DuraAce. Oscar, Ext. 3499.

TELESCOPE - Bushnell Banner Astro, 400 power, 60mm, Alti-Azimoth refractor, $99/firm. 473-2473.

TELESCOPE - mirror grinding kit, 8" dia., all grits, hex-lap mat. Paul, Ext. 7697 or 689-2829 eves.

Audio, Video & Computers

CAMCORDER - GE, full size, w/case & battery charger. 286-6839.

COMPUTER - Commodore 64, Excelerator disk drive, MPS 801 printer, lots of software, fast load cart, $200 neg. Harry, Ext. 7527 or 744-2715.

COMPUTER - Epson laptop PC, portable, printer, CGA monitor, 20MB hard, floppy, software, $1,295. 286-7857.

AUTO ADAPTOR - Archer universal, 3-9Vdc 300MA, power supply, adapter 120Vac to 7-3Vdc, $5/ea. Pete, Ext. 4581 or 399-2813 after 5 p.m.

MONITOR - Goldstar VGA color & card, new, $290; 2 H.H. 5¼" 360k drives, $35/ea.; 4 drive controller, $35 or $100/all. Jim, Ext. 4584.

STEREO - Contrex, 8-track, recording, am/fm, compact system, Pioneer, excellent cond., $50. Pioneer stereo cassette tape deck, $20. Pete, 4581.

COLOR TV - Toshiba, 35", swivel base, carver speakers & sub woofer, 1 yr. old, must sell, moving, $1,500. Marie, Ext. 2950.

TV - Zenith, 19", color, cable ready, excel. cond., $75. Pat, Ext. 3807.

VCR - Canon VR-HF 720, HG, hi-fi, multichannel, TV sound, 8 program/1 mo. timer, on-screen display, asking $400. Ext. 2372 or 331-1003.

VIDEO CAMERA - GE, low light, excel. cond., portable, VHS, 4 head stereo, cable comp., $500/both. Harry, Ext. 7527 or 744-2715.

Miscellaneous

ANTIQUE PRINT SHOP - Chandler & Price, 15"x20" letterpress, variety of metal type, you haul, asking $1,500. Fred, Ext. 7824 or 261-5735.

BABY CARRIAGE - mint cond., used once, brown corduroy, $75; LPs, 60s, 70s, 80s, excel. cond., $2/ea. Harry, Ext. 7527 or 744-2715.

BLOOD GLUCOSE METER - Exactech, w/strips, lancets, excel. cond., 3 mo. old, $50 or best offer. 878-8847.

ENCYCLOPEDIA - Americana Encyclopedia, 20-volume set, all annuals from 1970-1990, excel. cond. Tallon, Ext. 5454 or 821-5801.

CHRISTMAS TREE - 7½', blue spruce, 3 yr. old, excel. cond., orig. $220, ask. $30. Lloyd, Ext. 5225.

CHRISTMAS TREES - you cut, $5/ea.; typewriter, $10; log splitter, gas powered, $450; shadowbox mirror, 55½"x43½", $35. 878-6637.

CHRISTMAS TREE - scotch pine, artificial, $45; new duck cookie jar, $20; stereo w/turntable, $45; woman's ice skates, $30. Kathy, 744-2203.

CHRISTMAS TREE - 6', artificial, used 1 season, new $199, asking $75. George, Ext. 4453 or 4466.

COAT - woman's, tan, warm down w/hood, three quarter length, size 8/10, $40. Fran, 286-0958.

COAT - gray Persian fur, woman's, size 8/10, very reasonable. Ext. 4341 or 475-4005.

DESIGNER FRAGRANCES - women & men, Liz Claiborne, White Linen, Polo, Boss, more, 3.3 oz., $25. Lou Pergola, Ext. 3499 or 732-1028.

DOLLS - Cabbage Patch preemie, new, $12; 22" doll & knitset & highchair, $20; 2 Barbie dolls, $3/ea. 369-9879.

FOOTBALL TICKETS - 2, NY Giants, Sat., 12/21, section 123, excel. seats, $75/ea. or best offer. Ext. 3428 or 878-6007.

LETTERING TEMPLATES - Leroy, full sets of Greek & English, many extras, $150/set. Ext. 3492 or 289-6844.

MOTORCYCLE JACKET - worn few times, looks new, orig. $200, sell for $50. Frank, Ext. 2343.

OPERA TICKETS - Mozart *Idomeneo*, Sat. matinee, row K orchestra center, Dec. 21, Levine, Pavarotti. Ext. 3922.

SUITCASES - 2, 24"x17" & 26"x20", w/keys, matching, $32/both. 475-4394.

TYPEWRITER - IBM Selectric II, $50. Victor, Ext. 2395.

WEDDING GOWN - silk organza, new, size 10, cost $600, sell for $350. 878-1617 after 6 p.m.

WREATHS - homemade, braided material, $7. Doreen, Ext. 7043.

Free

AIR CONDITIONER - 5000 BTU, Sears, old but works. Steve, Ext. 4475.

BOOKS - knit, crochet, art, crafts. 369-9879.

FIREWOOD - you cut, you take, experienced. 281-7935.

Lost & Found

LOST - gloves, black w/white stripes & red interior, lost a few weeks ago. Nelson, Ext. 3861.

Car Pools

NEW HYDE PARK TO SHELTER ROCK - Bob Wong, Ext. 7772.

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

BAYPORT - large, upstairs studio, furn., priv. ent., priv. bath, single, nonsmoker, professional, no pets, $525/mo. 472-1734.

BROOKHAVEN HAMLET - large, sunny, studio apt., 2nd floor, sep. ent., eik, all new appl., full bath, w/w, 1 block to water, next to wildlife preserve, $550/mo. includes all. 286-8687.

CENTER MORICHES - 2½-rm. apt., walk to shopping, transportation, good for single or couple, no pets, $475/mo. includes heat & elec. Lois, Ext. 4904 or 929-4753 eves.

CENTER MORICHES - large 1-bdrm. apt., l/r, full kit., bath, priv. ent., carpet, refrig., $700/mo. includes all util., 1 mo. sec., single/working couple, no pets, avail. 1/1/92. 878-0480 eves.

EAST PATCHOGUE - furn. apt., 1 person, mature nonsmoker, no pets, no children, l/r, kit., bath, bdrm., sept. ent., $500/mo. includes util., 1 mo. sec., refs. Marylin, 286-3508.

FARMINGVILLE - 1-bdrm. apt., large kit., l/r, full bath, furn., priv. driveway & ent., $550/mo. all. Rosalie, Ext. 3160 or 289-5704.

MIDDLE ISLAND - share townhouse, master bdrm., walk-in closet, laundry rm., pool, tennis, cable, furnished, $450/mo. all. Rosalie, Ext. 3160 or 289-5704.

MILLER PLACE - room in clean house, all appl., close to Lab, short term or long, $375/mo. Ted, 924-7477.

NORTH GREAT RIVER - 1-bdrm. apt., kit.-l/r combo, bath, w/w, priv. ent., screened deck, 2nd floor, priv. home, mature single only, $575/mo. incl. all. 581-8317.

NORTH SHIRLEY - 1-bdrm. apt., full bath, large kitchen, large l/r, priv. ent., 1st floor in new hi-ranch, $650/mo. includes all. 399-3950.

RIDGE - immaculate 2-bdrm. condo, w/d, dw, w/w. $750/mo. 878-6016 eves.

RIDGE - furn. studio apt., private, fenced-in yard, kitchen, bath, 5 min. to Lab., $490/mo. 744-8632.

ROCKY POINT - room in large house w/nice yard, w/d, kit., l/r, 10 min. to Lab, $350/mo. includes all, month to month okay. Dave, 821-7179.

ROCKY POINT - large 2-bdrm. apt. w/large yard, $800/mo. 744-8901 eves.

S. JAMESPORT - 1-bdrm. cottage, l/r, eik, porch, near beach, 25 mi. to Lab, no pets/children, avail. now, $400/mo. + util. Walt, Ext. 2907/2241 or 698-0576 eves. & wknds.

SHIRLEY - 2½-rm. studio, priv. drive, ent., nonsmoker, one employed mature person only, $450/mo. incl. all; also, room w/micro, refrig., priv. ent. $75/wk. 281-6263.

SOUND BEACH - 3-rm. apt., sep. ent., 20 min. from Lab, $575/mo. includes all. 744-6986.

SPEONK/WESTHAMPTON BEACH - 2 bdrm., 1½ baths, cac, patio, approx. 1000 sq. ft., skylights, all appl., full furn., 20 min. to Lab, $875/mo. + sec. Rich, Ext. 4834.

STONY BROOK - 4-bdrm. Colonial, l/r, d/r, 2-car gar., near University, TVSD, option to buy, avail. 1/1/92, $1,150/mo. 424-6487.

WADING RIVER - 3-bdrm. hi-ranch, 2 baths, 2-car gar., 1 wooded acre, 10 min. to Lab, appl. incl., country living, move-in cond. Mei, Ext. 4360, or Helena, 751-4098.

WADING RIVER - 2-bdrm. apt., full bath, l/r, kit., fp, priv. drive, 10 min. to Lab, no pets, no smokers, $650/mo. incl. all. John B., Ext. 4028.

YAPHANK - in Whispering Pines, Col. Woods, share a condo, $300/mo. + ½ util., quiet area, 5 min. from Lab, avail. immed. Rich, Ext. 2550.

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

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

ELKA PARK, HUNTER, NY - 3 bdrm., 3 baths, loft, fp, jacuzzi, furn., ski Hunter, Windham, Cortina, $8,000 Nov.-Apr., $2,000 monthly, $900 weekly, all + util. Phil. 732-8124.

SPRING HILL, FL - winter or longer rental, 2-bdrm. house, 1 bath, in planned community, phone, washer, lawn services incl., near golf, fishing, swimming, Tampa. Ext. 4530 or 261-2719.

SARASOTA, FL - furn. 1-bdrm. condo, 2 baths, view Sarasota Bay & marina, 2 mi. Lido Beach, Longboat Key, walk everywhere, gar. parking, min. 6-mo. rental. Joan, Ext. 2266 or 331-9264.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, tennis, beach, golf nearby, Oct.-Dec., $350/wk. Guy, Ext. 3147 or 689-5378.

For Sale

BROOKHAVEN HAMLET - 3-bdrm. cedar shake Cape, 1½ baths, large l/r, d/r, eik, spa rm., unfin. bsmt. w/shop, 2-car gar. w/utility bldg., docking rights, low taxes, $195,000. Hurst, Ext. 3844.

CENTER MORICHES - 4-bdrm. Col., oversize l/r w/fp, d/r, eik, TV rm., laundry rm., 2½ baths f/bsmt., deck, att. gar., 10 min. to Lab, $189,000/neg. 100'x150'. Marilyn, Ext. 2259.

CENTER MORICHES - waterfront, 50' bulkhead, 3/4 bdrm., 2 baths, eik, den, d/r, 2-car gar., rec. rm., deck, 10'x5' bow window in l/r, new carpet, dead end st., low taxes, $195,000. 878-8177.

CENTER MORICHES - waterfront property, 110' bulkhead, cleared, landscaped, fenced, dead end st., city water, 100' on street, 120' deep, high ground, $110,000, boring tests avail. 878-8177.

CORAM - Tanglewood Hills, 4-bdrm. contemporary ranch, 2 baths, cathedral l/r, large 2-car gar., huge attic, fenced corner lot, red. to $113,000. Ext. 3791 or 47307496.

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

HOLBROOK - 4-bdrm. ranch, l/r, d/r, eik, full unfin. basement, w/w, deck, fenced yard, ¼ acre, $119,900. Ext. 3809 or 588-9019 eves.

MANOR PARK - 3-bdrm. Colonial, 1½ baths, att. gar., den, formal d/r, new carpet & oil burner, shed, ½ acre, fenced, $118,900. 399-3401.

MASTIC BEACH - 3-bdrm. ranch, waterview, stone fp, oak floors, agp, deck, fully fenced, walk to beach, low tax, $94,900 or rent/option. Bent, Ext. 3867 or 399-1249.

MIDDLE ISLAND - 3-bdrm. ranch, eik, den, d/r, l/r w/bay window, 1½ baths, screened porch, patio, full bsmt., wooded ½ acre, cul-de-sac, $124,900 neg. 924-6051.

MONTAUK - Gurney's Inn, time-share unit, priv. ocean view duplex, 2 floors, sleeps 6, 2 full baths, all amenities, stocks in company, week #43, last week Oct. Theresa, Ext. 2907.

N. PATCHOGUE - 2-bdrm. cottage, l/r, country kit., screened patio, fenced 90'x90', full bsmt., 22' x 24' gar., Pat.-Med. SD, $108,000, low taxes. 289-6844.

N. SHOREHAM - 3-bdrm. L-shaped ranch, d/r, sunken l/r, eik, oak floors, fin. bsmt., workroom, 2-car gar., ½ acre, igs, deeded beach rights, $179,900. Mike, Ext. 5972 or 744-4579.

RIVERHEAD - 12'x65' mobile home, 2 bdrm., new kit., bath, HWH, wood siding, Andersen windows, lg l/r, d/r, 8'x10' shed, cooperative park, w/d, $35,000 neg. Beth, Ext. 4986 or 369-4295.

RIVERHEAD - mobile home, immaculate single width, AAA rated park, over 55, no children, bus to town, low land rent, low taxes, $16,000. Lourdes, 468-5685.

ROCKY POINT - 2 bdrm., bsmt., new oil heat, encl. porch w/stove, dead-end street, walk to stores, low taxes, $87,000. 821-0379.

SELDEN - 4-bdrm. splanch Colonial, 1½ baths, energy eff. windows, fenced-in yard, extended driveway, fin. bsmt., excel. cond., $132,500. Frank, 732-1389, any time.

SHIRLEY - 4-bdrm. center-hall Colonial, igp, gar., bsmt., walk to schools, shopping, oakwood floors, no closing costs, terms, $115,000. 399-1868.

SHOREHAM - 3-bdrm. ranch, SWRSD, low taxes, 2 baths, ½ acre, large eik, d/r, l/r, den, fp, large storage rm., cac, gas heat, all appl., igs, prof. landscaping, $145,000. Ext. 2833 or 744-7172.

SOUND BEACH - 2/3-bdrm. high-ranch, 1¾ baths, 1½-car gar., 6 lots, deck, cath. ceilings, new Andersens, Beckett burner, 2-zone heat, poss. M/D, agp, $119,000. Jim, Ext. 4026 or 821-9814.

SOUND BEACH - 3-bdrm. ranch, 2 baths, l/r, eik, d/r, gar., cedar deck, agp, fenced yard, rental income, Miller Place schools, $130,000. 821-1271.

SPEONK/WESTHAMPTON BEACH - 2 bdrm., 1½ baths, cac, balcony, approx. 1,000 sq. ft., skylights, 20 min. to Lab., must sell, $129,500. Rich, Ext. 4834.

SPEONK/WESTHAMPTON - 1989 Liberty mobile home, 14'x60', w/d, 10'x'10' shed, family park, bay window in l/r, $37,500. Dave, Ext. 5460.

WADING RIVER - 4-bdrm. contemp., den, 2½ baths, fin. bsmt., 7 skylights, balcony, ¾ acre, 2-car gar., taxes, $2,000, Shoreham schools, fp, Andersen windows, $235,000. John, 929-8142.

WESTHAMPTON BEACH - 3-bdrm. ranch, ½ acre, 1½ baths, fp, cac, oil, gar. conv. to studio apt., enclosed Florida rm., $150,000. 821-0865.

HUBBARDTON, VT - 38 deeded acres on town-main. road, power, phone, largely wooded, views of Lake Bomoseen, ask, $32,500 neg., terms avail. Tom, Ext. 2823.

DURHAM, NC - 2-bdrm. luxury condo, 2 baths, top floor, 1-yr. old, all appl., many upgrades, maint. $67/mo., taxes $800/yr., ask. $62,000. Roy, Ext. 7357 or 878-5886.

NEW PORT RICHEY - 2-bdrm. condo, furn., elev., on water w/boat slip, good winter rental, 30 mi. N. of Tampa, priv. beach, pool, tennis, golf, sauna, jacuzzi, $85,000. Roy, Ext. 7357 or 878-5886.

Wanted

CHILDREN'S ITEMS - 2-seated stroller & car seat. Pat, Ext. 4628 or 758-0393 after 6 p.m.

EXTERIOR DOOR - w/window to fit 82"x33" opening. Ext. 7697 or 689-2829.

ENCYCLOPEDIAS - set, in good cond.; front seat for Chevy S-10 pickup & Ford pickup. 727-6289.

HOUSEMATE - to share 2-bdrm. house in Sound Beach area, $250/mo. + ½ util. 744-3502.

HOUSEMATE - large sunny bdrm., priv. home, share kit., quiet neighborhood, walk/town, RR, shop, nonsmoker, 10 min. Lab., single. Ext. 2259.

HOUSE TO SIT - mature couple wishes to house-sit this winter while having their house renovated. 878-6154.

ICE SKATES - woman's size 6½ & boy's or girl's size 2½. Ken, Ext. 7915 or 744-0722.

PERSON FROM MEDICAL - who purchased Whirlpool microwave from me a few months ago. Cora, Ext. 4581.

RECORDS - 33⅓ & 45 RPM, 50s & 60s preferred. Frank, Ext. 3120.

SKIERS - to go on bus trip Jan. 8 to Windham, $42 includes all, send payment to Augie Hoffman, Bldg. 510C.

STAMPS - canceled, esp. foreign for son's new hobby, send intra-Lab to M. Andrews, Bldg. 555.

TRAINS - Lionel & America Flyer, priv. collector, pays top $. Bruce, 924-4097.

TUBED AUDIO COMPONENTS - working or not, incl. short-wave receivers, esp. Collins, Acro, REL, Marantz, Macintosh, etc. Jim, Ext. 4584.

VESPA MOTOR SCOOTER - for parts. John, Ext. 7671 or 765-1299.

WAFFLE IRON - old, without Teflon-coated grids, preferably in working condition. Steve, Ext. 4475.

In Appreciation

We wish to thank all of our friends for their support and comfort on the loss of my mother.

Eddie & Zaida Rosado