# BROOKHAVEN BULLETIN

Vol. 43 - No. 30 August 4, 1989

BROOKHAVEN NATIONAL LABORATORY


## Update: 1990 Funding

On July 25, the Laboratory learned that the Senate Appropriations Committee's Subcommittee on Energy and Water Development had unexpectedly recommended reducing funding for BNL's Alternating Gradient Synchrotron by $30 million in fiscal year 1990.

The next day, New York Senator Alfonse D'Amato, a member of the Appropriations Committee, offered an amendment reinstating $20 million of the proposed cut. The amendment passed.

While the final budget proposal approved by the full Senate now calls for a $10 million reduction in AGS funding, the corresponding appropriations bill passed by the full House of Representatives contains no such cut. The final resolution of these differences is the task of the Senate-House Conference Committee.

This budgetary uncertainty last week prompted BNL Director Nicholas Samios to institute a Laboratory-wide freeze on hiring, which will continue at least until the Senate-House Conference Committee has resolved the budget differences. As the Bulletin goes to press, it appears that the Conference Committee will not meet until after Labor Day. As more information becomes available, employees will be updated.

## First Light From Second Hybrid Wiggler

At high noon on July 20 at the National Synchrotron Light Source (NSLS) they saw the light — the first light from the second hybrid wiggler to be installed at the x-ray ring.

Like its twin, the hybrid wiggler that came on line last October, this magnetic device is called a hybrid because it is composed of several elements. It is inserted into a straight section of the synchrotron to "wiggle" the electrons within the ring. With each wiggle, the electrons emit photons, and, as the photons are superimposed upon each other, the photon beam becomes more intense.

The intense photon beam emanating from the new wiggler will be used by researchers on beam line X-21 for high energy resolution, inelastic x-ray scattering studies.

Commenting on this latest achievement at the NSLS, beam line spokesman Jerry Hastings observed, "Once again, the combined efforts of the Light Source staff have resulted in success."

Added NSLS Chairman Michael Knotek, "This completes the full complement of insertion devices on our x-ray ring, and, with the installation of our active protection systems in early fall 1989, we will begin x-ray insertion device science."

# The Next Generation of Scientists

Roger Stoutenburgh

**The Kappa team of the High School Honors Science Program at work at the National Synchrotron Light Source, beam line X-26: Allan Kolker (back, seated), Department of Applied Science, and guest scientist Mark Rivers (back, standing), University of Chicago, help out team members (from left) Steven Alexander, Louisiana; Juan Vazquez, Puerto Rico; Monica Emelko, Connecticut; Samuel Rivera, New Mexico; Angela McKean, Iowa; and Benjamin Martin, South Carolina. Also on hand is Maryann Librizzi (left), a high school teacher research associate.**

Fifty-eight high school students — one from each state as well as the District of Columbia, Puerto Rico, Canada, France, Italy, Scotland, Japan and West Germany — converged on BNL Wednesday, July 26, for this year's High School Honors Science Program, sponsored by the U.S. Department of Energy (DOE).

The focus of the two-week program is a series of six experiments at the National Synchrotron Light Source (NSLS), which study the photoelectric effect, infrared spectroscopy and X-ray diffraction, absorption and fluorescence.

The students have been divided into 10 experimental groups, each of which performed three experiments from last Sunday to Tuesday. Wednesday morning, the rough drafts of their experimental reports were due; their final reports are due tomorrow.

"It's really very similar to the way scientists live their lives," said Don Metz, who heads the Office of Educational Programs (OEP). "The students come in as a team to do a common experiment, they work together, they work on the report . . . essentially, they go through a publication process."

That process will culminate in students' presentations of their exper-

(Continued on page 2)

### 19th Pegram Lecture Series

# Michael Brown on Cholesterol, Genes and Environment

Monitoring one's cholesterol count is common today, and, fortunately, modern medicine has kept pace with that concern, with new prescription drugs to prevent and treat the results of high cholesterol levels in the blood.

Much of the understanding that has led to these pharmaceutical developments came from the discovery of receptors that control the level of blood cholesterol — a discovery made by Nobel laureates Michael S. Brown and Joseph L. Goldstein.

Michael Brown will share his knowledge of "Genes That Control Cholesterol" on Wednesday, August 9, when he delivers the first of two talks in the 19th George B. Pegram Lecture Series. On the next night, Thursday, August 10, Brown will discuss "When Genes and Environment Collide." Both talks will begin at 8 p.m. in Berkner Hall. They are free, and the public is invited.

This is the 30th anniversary year for the Pegram Lecture Series, which began in September 1959 and is named in honor of George Braxton Pegram. As Dean of the Graduate School at Columbia University in March 1946, Pegram headed the Initiatory Advisory Group (IUG), which proposed that a regional center for research in the nuclear sciences be established in the New York area. Thus he played a key role in the founding of Brookhaven and became one of the incorporating trustees of Associated Universities, Inc., remaining an active trustee for ten years.

In the first lecture in the nineteenth Pegram Lecture series, Brown will explain that humans and other animals are endowed with receptors that remove cholesterol-carrying proteins from the bloodstream, thereby supplying needed cholesterol to cells and keeping the cholesterol in the blood low. When these receptors are defective, however, as a result of genetic or acquired abnormalities, plasma cholesterol rises and atherosclerosis, or hardening of the arteries, follows.

**Michael S. Brown**

It was for the discovery of these receptors that Brown and Goldstein were awarded the Nobel Prize in physiology or medicine in 1985. Knowledge of the receptor system they discovered has led to a better understanding of cholesterol metabolism and to new pharmacologic approaches to preventing and treating atherosclerosis.

Brown's second lecture will focus on the chronic diseases — cancer, heart disease, high blood pressure and arthritis, among them — and how they are caused by a faulty match between an individual's genetic makeup and environmental stresses. He will discuss recent advances in genetic techniques that make it possible to understand the genetic basis for this vulnerability, and why these findings have widespread biological, medical and sociological implications.

Born in New York City in 1941, Brown received his B.A. degree from the University of Pennsylvania in 1962 and his M.D. from the School of Medicine of that university in 1966. From 1966-68, he did his internship and residency in medicine at the Massachusetts General Hospital in Boston. Three years as a clinical

(Continued on page 3)

# Two Blasts From the Past

Two World War II hand grenades, apparently unearthed earlier in the summer during excavation for new parking lots around site, were discovered this week by Plant Engineering's Site Maintenance Group personnel while reseeding various areas of the Lab.

Both finds were brought to the attention of BNL's Police Group, which promptly contacted the Emergency Services Section (ESS) of the Suffolk County Police Department each time. The ESS detonated the hand grenades and determined that both were live. At BNL, both efforts were coordinated by Inspector Alfred Berretta.

The grenades are the most recent of a number of artifacts discovered on site from the days when the Lab site served as Camp Upton, a U.S. Army training camp. Given the potential danger inherent in such discoveries, Gerald Kinne, Assistant Director for Reactor, Safety and Security, advises, "Even a device that has been underground for many years can be dangerous. So don't take anything for granted. Don't try to evaluate it, touch it or disturb it in any way — if it has any potential as a hazard, report it to the Police Group immediately."

With two grenades already unearthed from the same pile of fill, the Laboratory requested the assist-

(Continued on page 2)

# The Route From Oregon to BNL

Heather Foster, the high school honors student from Oregon, has crickets to thank for her presence here at BNL.

Foster, who turns 17 today, has been studying the effects of electric fields on crickets' circadian rhythms — how often they chirp.

Roger Stoutenburgh

**Heather Foster**

Those studies, which started in a high school class, led to a number of science fair competitions for Foster, including the Junior Science Academy science fair and the Northwest Science Expo.

Foster won first place in Physics the past two years at the Expo, which allowed her to present her findings at the International Science and Engineering Fair, where she took third place in the Environmental Science category.

One of Foster's teachers, who recognized her scientific abilities, encouraged her to apply for the honors program. The application included a one-page essay, which was mainly about her science fair project. Based on that application, Oregon's State Science Director chose Foster to represent his state at BNL.

Foster's route to BNL — from classroom studies to science fairs to selection by a state official — is typical of the path that led the 58 high school honors students to the Lab this summer. Most have their own unique field of interest — like Foster's crickets.

So what does an electric field do to crickets?

"It screws them up," says Foster. "Crickets normally chirp at a certain time of the day, but with electric fields they chirp erratically throughout the day."

-- Kevin Eber

## Two Blasts (cont'd)

ance of Suffolk County Police to assure that no more turn up. So, on Wednesday afternoon, the Police's Crime Scene Unit went out to the Lab's landfill where they examined the stones that had been raked from the newly seeded areas. They found no additional devices.

The first grenade was discovered at about 5:45 p.m. on Tuesday, August 1, by John Kulesa, who was moving rocks preparatory to seeding an area on the northeast side of Bldg. 801. Though the grenade was encrusted with mud and rust, he recognized it for what it was, then he and Ollie Booker notified the Police Group. Lt. Michael Delph and the third platoon were on duty at that time.

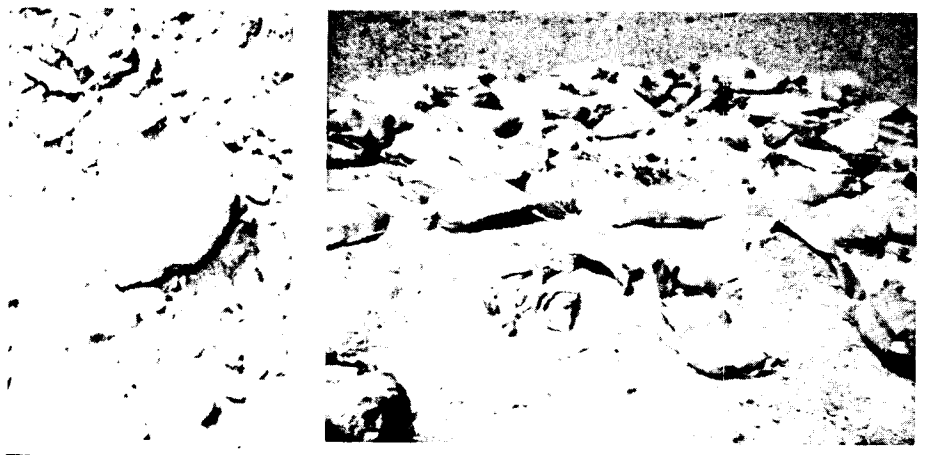
The ESS responded with three emergency services units and a truck, which was used to transport the grenade east of the main Lab site, beyond the igloo area. There, at 8:44 p.m., the squad used two explosive charges to destroy the device, which later analysis showed to be live.

At about 10:15 a.m. on Wednesday, August 2, Paul Williams came upon the second grenade while he was reseeding the hole left when the tree at the northeast corner of Brookhaven Avenue and Upton Road was felled during last month's storm. He showed it to his coworker, who happened to be Kulesa. Having had a similar close encounter just the day before, Kulesa knew just what it was and alerted the Police Group. This time, Lieutenants Thomas DeSimone and Richart Rossetti were on duty with the second platoon.

The ESS was soon on site again. The area within a 300-foot radius of the grenade was quickly roped off to protect the crowd that had formed because of the location's proximity to Berkner Hall and the Wednesday Farmers' Market. Also, the Firehouse was secured while the northeast end of the Cafeteria and the east end of the Cabinet Shop, Bldg. 422, were evacuated.

Because the grenade was missing its pin and the spoon whose release normally means detonation, ESS personnel decided that it would be best to detonate it right where it was found. After the device was blocked off with sandbags, the squad detonated the grenade at 12:56 p.m. The explosion that reverberated through the Lab was expected by employees as they had been warned of its imminent occurrence via Plectron.

Reflecting on his involvement with both incidents, Kulesa said, "I'm very lucky that nothing happened. In case this situation ever happens to anyone else, I'd like to remind all my coworkers to be very cautious about handling unidentified objects."



**Though the second grenade (above left) unearthed on Wednesday morning was caked with mud and rust, its body fragments were still discernible. Before detonating the device the Suffolk County Police Department's Emergency Services Section surrounded it with sandbags — five high. As shown above right, the explosion leveled the sandbag wall.**

## Next Generation (cont'd)

imental results on Monday, August 7. Lab employees are encouraged to attend the presentations, which begin at 9 a.m. in the Hamilton Seminar Room, Chemistry, Bldg. 555.

While not performing experiments or writing reports, the students tour the Lab's facilities and attend special lectures. But it's not all work — they also take weekend trips to New York City, Port Jefferson and Watch Hill.

The program, in its fourth year at BNL, started at Lawrence Livermore National Laboratory and now includes seven DOE labs. The participants are all exceptional science students; the U.S. students were chosen by their state governors or their designees, and the foreign students were similarly chosen by officials in their countries.

"It gives them a chance to see world-class science in action, at a level they would not usually encounter until well into their undergraduate education," said Program Coordinator Karl Swyler of OEP.

But the program has advantages for BNL, too.

"The DOE needs bright young people coming into its research laboratories," said Swyler. "By displaying what we have, including other student programs, we make these people aware of their opportunities."

To retain those young minds, BNL also has a summer internship program, which allows alumni of DOE honors programs to come to BNL the following year. This year, there are eight summer interns at the Lab who were honors students in 1988.

But the most significant aspect of the program may be its potential to change the students' lives.

"Perhaps we can strike a spark in somebody to enter a field that they might not have decided on or thought about, whatever that field may be," Swyler said.

Although the program is coordinated by OEP, it depends on the support of many at BNL to make it happen. Each of the six NSLS experiments has a leader and staff members who designed the experiment, and each of the ten experimental teams has a mentor.

"The mentors act as the teams' research advisors," said Swyler. "The teams prepare reports and the mentors critique them."

There are also six high school teachers who act as program advisors — available around the clock to guide and supervise the students. Judy Callaway, Lou Celenza, Larry Haman, Clayton Hudson, and Bill and Nancy Lynch have the difficult tasks of being there for any problems which may arise and helping out with the recreational aspects of the program. Bill Lynch also wrote the experimental procedures and scheduled the experiments.

"Without the program advisors, we couldn't do this," said Swyler. "The remarkable thing is that this is their fourth year, and they've all come back."

The program also relies heavily on people throughout the site to give lectures and tours of their facilities, and, said Swyler, "There are so many others — the folks who help us produce reports, who help us make sure the students have decent accommodations, the folks who get them from point A to point B — the whole infrastructure of the Lab seems to get involved. It's hard to say who *isn't* part of the program." — Kevin Eber

# In Memoriam

**Dorothy (Dotty) Thompson**, Senior Executive Secretary to Department of Nuclear Energy (DNE) Chairman Walter Kato, died on July 26, after a brief struggle with cancer. She was 65 years old.

Dotty Thompson's 29-year employment at Brookhaven started on August 22, 1960, when she was hired as a personal monitoring technician in the then Instrumentation & Health Physics Division. After being promoted in 1967, she made a career change: She became a secretary in what was then the Health Physics Division, in January 1972.

In 1973, Dotty Thompson switched to the Department of Applied Science (DAS), and, in 1975, she began her 14-year association with Walter Kato. She was promoted to Executive Secretary in 1976 and to her last title in 1977. After moving with DNE when it branched from DAS, she carried out an increasing amount of responsibility when Kato was first named DNE Deputy Chairman in June 1981 and then DNE Chairman in April 1988.

A resident of Bohemia, Dotty Thompson is survived by her sister Anne Klug, from Westchester, N.Y., her son Gerard Thompson and daughter-in-law Karen, of Holbrook, and their four children: Karyn, Eileen, Stephen and Shannon; daughter Patricia Ippolito and son-in-law Carmine of Center Moriches; daughter Mary Goldzung and son-in-law Paul, from Athens, Ohio; and son Robert Thompson and daughter-in-law Linda, of Bayport.

Dorothy Thompson was buried on July 28 at Pinelawn Cemetery, Farmingdale. Contributions in her memory can be made to: Hospice of the South Shore Inc., P.O. Box 345, Islip, NY 11751.

# Inside Info

**Mary Durham**, a secretary with the Facilities Planning Group in the Plant Engineering Division, was BNL's representative this year to the 20th National Training Program sponsored by Federally Employed Women. The program was held in Memphis, July 12-15.

About 1,500 women attended the program, which had as its theme "Bridge to the Future." Eight workshop categories offered the participants a total of 135 topics from which to choose. Durham found the courses very interesting and informative.

"I tried to take as many as I could," she said, adding, "There's no better experience — if the opportunity came up again, I wouldn't hesitate to go a second time."

Durham was also enthusiastic about the opportunity to share her time and ideas with women from so many different backgrounds. "Most of the people were federal government employees," Durham said, "and I could relate to their experiences after spending 12 years with the Department of Energy [DOE] myself."

Durham joined DOE at the Brookhaven Area Office (BHO) in 1974, after two years as a personnel assistant with the Economic Opportunity Council in Patchogue. She served as a secretary to DOE's Operational and Environmental Safety Branch at the BHO until 1978.

At that time, she began setting up the DOE office for the ISABELLE/Colliding Beam Accelerator Project. When the project ended in 1983, she returned to the BHO as secretary to the area manager. She became a BNL employee when she joined BNL's Facilities Planning Group in 1984.

To follow up on her participation at the FEW meeting, Durham will report to Women's Coordinator Avril Woodhead and to Mary White, the Training & Development Administrator, Personnel Division. In the near future, Durham will also give a short talk about her experience to the Upton Chapter of Professional Secretaries International.

## Reports Available

The following reports are available to Laboratory staff and affiliates of DOE, AUI, and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. Staff members should call the designated contact.

**BNL-52185**
Contact: C. Cadwell, Ext. 4901
Proceedings of the Third Workshop on Relativistic Heavy Ion Physics. Held at BNL July 18-22, 1988. Editors: B. Shivakumar and P. Vincent.

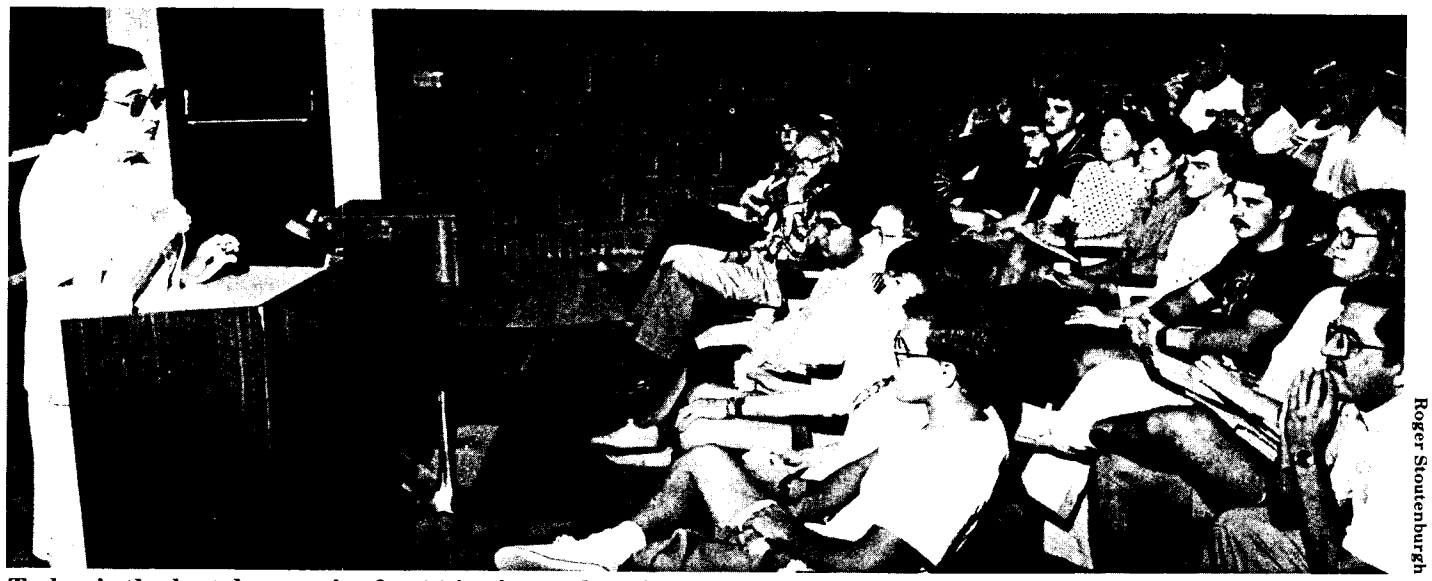
**NUREG/CR-5102**
**BNL-NUREG-52135**
Contact: D. Miesell, Ext. 4962
Interfacing Systems LOCA: Pressurized Water Reactors. G. Bozoki et al.

**NUREG/CR-4948**
**BNL-NUREG-52144**
Contact: K. Nasta, Ext. 2267
Technical Findings Related to Generic Issue 23: Reactor Coolant Pump Seal Failure. C.J. Ruger and W.J. Luckas Jr.

**BNL-52165**
Contact: Public Affairs, Ext. 2345, or TID, Ext. 5068
Brookhaven Highlights — FY 1988. M. Rowe, editor.

**NUREG/CR-5319**
**BNL-NUREG-52183**
Contact: K. Nasta, Ext. 2267
Risk Sensitivity to Human Error. P. Samanta et al.

# Roslyn Yalow Addresses Young Nuclear Chemists



Roger Stoutenburgh

**Today is the last day on site for 11 junior and senior college students from across the nation, as the six-week Nuclear Chemistry Summer School draws to a close. During the school, which was sponsored by the American Chemical Society's Division of Nuclear Science and Technology and funded by the U.S. Department of Energy, the students participated in experiments and attended classes, lectures and symposia. A highlight of a day-long symposium held on July 26 was this talk on "Radiation and Society" by Nobel laureate Rosalyn Yalow, of the Veterans Administration Medical Center in the Bronx. Having successfully completed the intensive course, each of the students will receive six credits from the State University of New York at Stony Brook.**

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

# Practicing Emergency Plans

photos by Roger Stoutenburgh

Should a spill of hazardous materials occur on the Lab site, responsibility for the first response would fall to the Fire & Rescue Group in the Safety & Environmental Protection (S&EP) Division. To ensure that they are prepared to handle such emergencies, the group works with the Lab's Emergency Planning Coordinator, Frank Crifasi, to conduct the necessary drills.

One recent drill at the National Synchrotron Light Source (NSLS) centered on a hypothetical spill of carbon disulfide in the lobby of Bldg. 725. In the drill scenario, the spill came from a "soggy package," which, in the process of being delivered to the NSLS, had begun to leak carbon disulfide, a compound with a flash point so low that it will ignite from the heat of a light bulb.

Covered from head to toe in special protective clothing, Fire & Rescue Group members (above, left) used a sensing device called an explosive meter to test the volatility of the spilled materials. After they safely neutralized and removed the "spill" (above, right), team members were hosed down to remove any trace of the chemical from their clothing. All contaminants from this process were contained for appropriate disposal.

Also participating in the drill were other S&EP groups whose expertise and technical resources might be called upon to safely resolve such an incident. These included the Industrial Hygiene Group and the Environmental Protection Group.

Each of the Fire & Rescue Group's three shifts participate in one such drill each year; Lab-wide, 30 exercises involving various scenarios will be done to practice emergency plans. Like this drill at the NSLS, each will involve the evacuation of a given building.

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## Contract Ratified

On July 31, the members of IBEW Local 2230 ratified a two-year contract with Associated Universities, Inc. The economic provisions of the contract call for a 4½% wage increase the first year and a 5% increase in the second year. The union represents 593 bargaining unit employees in six divisions: Central Shops, Photography & Graphic Arts, Plant Engineering, Safety & Environmental Protection (fire fighters), Staff Services and Supply & Materiel.

## Pegram Lecture (cont'd)

associate and guest worker at the National Institutes of Health followed.

In 1971, Brown joined the University of Texas Health Science Center in Dallas as an assistant professor. By 1976, he was a full professor of medicine. In 1977, he was appointed the Paul J. Thomas Professor of Genetics and Director of the Center for Genetic Disease at the Health Science Center, a position he continues to hold. In 1985, he was also named Regental Professor of the University of Texas.

Brown was elected to the U.S. National Academy of Sciences in 1980 and to the American Academy of Arts and Sciences in 1981. He enjoys membership in the American Society of Biological Chemists, American Society for Clinical Investigation, American College of Physicians, Association of American Physicians and Phi Beta Kappa. He is also a diplomate of the American Board of Internal Medicine and an honorary member of the Harvey Society. He was a Harvey Society Lecturer in 1977.

In addition to the Nobel Prize, Brown and Goldstein have shared 17 awards for their discovery, from the Heinrich Weiland Prize for Research in Lipid Metabolism, in 1974, to the 1988 National Medal of Science. Brown has also received honorary Doctor of Science degrees from the University of Chicago, Rensselaer Polytechnic Institute and the University of Pennsylvania, of which he is now a Trustee.

Brown served as an Established Investigator of the American Heart Association from 1974-79, and has been a member of the Molecular Cytology Study Section of the National Institutes of Health, from 1974-79; of the editorial boards of the *Journal of Lipid Research, Journal of Cell Biology, Arteriosclerosis* and *Science;* and of the Board of Scientific Advisors of the Jane Coffin Childs Fund.

## Past Pegram Lecturers and Topics

| | | |
|---|---|---|
| 1959 | Lee DuBridge, Physicist | *An Introduction in Space** |
| 1960 | René Dubos, Microbiologist | *The Dreams of Reason** |
| 1961 | Charles Coulson, Chemist | *The Scientist and Society* |
| 1962 | Derek de Solla Price, Physicist | *Little Science, Big Science*** |
| 1963 | J. Robert Oppenheimer, Physicist | *Niels Bohr and His Times* |
| 1964 | Barbara Ward, Economist | *World Affairs: A Sense of Direction#* |
| 1965 | Richard Hofstadter, Historian | *Academic Freedom and the Scientific Ideal* |
| 1966 | Louis Leakey, Anthropologist | *A Review of Theories on Human Evolution and a Revision* |
| 1967 | André Maurois, Author | *Illusions*†* |
| 1969 | Roger Revelle, Demographer | *The Population Problem and What Can Be Done About It* |
| 1970 | Barbara Tuchman, Author | *The U.S. and China, and The Historian's Craft* |
| 1971 | George Reedy, Author | *The Decline of Democratic Dialogue in Our Society##* |
| 1972 | Colin Low, Executive Producer | *The Film: An Instrument for Social Change* |
| 1975 | Jean Mayer, Nutritionist | *Noah's Ark: An Inquiry Into Nature, Man's Food and Population* |
| 1979 | Peter Medawar, Medical Researcher | *The Philosphy of Prediction Illustrated From Medical Science, The Story of Tumor Immunity and Is Human Understanding Finite?* |
| 1985 | David Baltimore, Molecular Biologist | *Regulation of Antibody Synthesis, and Saga of an Oncogene* |
| 1988 | Robert Gallo, Research Physician | *Late 20th-Century Viruses and Their Role in Cancer and AIDS* |
| 1989 | Denys Wilkinson, Nuclear Physicist | *Man's Universes††* |

* Published by Columbia University Press.
** Reissued in 1986 as *Little Science, Big Science . . . and Beyond.*
\# Published as *Spaceship Earth.*
## Published as *The Presidency in Flux.*
† Delivered after Maurois' death by Jacques Barzun.
†† Publication in process.

# Those Nice Round Life Numbers: 19200

*This is another in a series of articles welcoming new employees who have been issued nice round BNL life numbers — those divisible by 100.*

Though his Lab title is principal technician, Michael Buckley's job at the National Synchrotron Light Source (NSLS) since March 6 has been to "protect the rings and the beam lines' users."

As one of eight operations coordinators, Buckley works rotating 12-hour shifts to ensure that the vacuums within the NSLS' x-ray and vacuum ultraviolet rings are not compromised, and to make sure that the users are safely shielded from the radiation produced during the rings' operation.

To do this, Buckley and the other coordinators working under Randy Church check the safety of each beam line — its vacuum interlock and shielding — before newly installed experiments receive light, after existing experiments are modified and after either of the rings is recommissioned.

Buckley and his coworkers also perform routine radiation and vacuum safety inspections of the rings. And, they are the first to respond to any emergency or building security problems.

"I like my job — it keeps me busy, and you can't beat the time off. I meet hundreds of people in doing the safety and interlock checks. And, I'm given a lot of freedom with my projects," says Buckley.

Between inspections, Buckley has been free to work with Project Engineer Cosmore Sylvester on an upgrade of the compressor that supplies the rings and beam lines with air under high-pressure to operate valves and to float bearings.

Before coming to BNL, Buckley attended both the New York Institute of Technology (NYIT) in Central Islip and Old Westbury, and worked for Key High Vacuum Corporation, "building custom vacuum systems, valves and other parts — some of which were sold to BNL."

NYIT graduated him with a bachelor's degree in technology in January of this year. Before matriculating at NYIT, Buckley had received an associate's degree in engineering technology from Suffolk County Community College. He is a 1982 graduate of Miller Place High School.

Buckley wants to take advantage of the Lab's tuition reimbursement plan to continue his education.

"In college, I first majored in accounting, but switched," explains

Roger Stoutenburgh

**Michael Buckley**

Buckley. "Now, I plan on going for an MBA — with my technical background, my advisor told me I'd have it made. I know I have to face accounting again, but I'm seeing dollar signs, so I'll be able to do it this time." — Marsha Belford

**Film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.**

## Software Demo

The latest revision of FrameMaker (Rev. 2.0), a powerful document and desktop publishing system, will be demonstrated on Monday, August 7, by a representative from Frame Technology Corporation.

A PostScript publishing system capable of creating technical documents, presentation materials, newsletters and other types of documents, FrameMaker incorporates text and graphics freely on the page. This new revision allows for panning and zooming of text and has additional math capabilities. FrameMaker provides extremely powerful word processing, drawing, and document and page layout features in one integrated package.

This demonstration will be held from 9-11:30 a.m., in the Computing & Communications Division seminar room, Bldg. 515. All are welcome to attend. Call Susan Eng, Ext. 7988, for more information.

## Cafeteria Menu

**Monday, August 7**

| | | |
|---|---|---|
| Soup: Chicken noodle | (cup) | .75 |
| | (bowl) | .95 |
| Meatball Stroganoff w/veg. | | 3.10 |
| Sweet & sour fish w/pot. or veg. | | 3.10 |
| Lite-line: Chicken salad platter | | 3.10 |
| Hot deli: Assorted pizza | | 3.10 |

**Tuesday, August 8**

| | | |
|---|---|---|
| Soup: Cream of zucchini | (cup) | .75 |
| | (bowl) | .95 |
| Sausage & peppers | | 3.10 |
| Chicken chow mein | | 3.10 |
| Lite-line: Cold stuffed zucchini platter | | 2.85 |
| Hot deli: Marinated chicken sandwich | | 2.95 |

**Wednesday, August 9**

| | | |
|---|---|---|
| Soup: Vegetable | (cup) | .75 |
| | (bowl) | .95 |
| Veal roulade cordon bleu | | 3.10 |
| Beef & bean chimichangas | | 3.10 |
| Lite-line: Vegetable medley | | 2.85 |
| Hot deli: Hero-by-the-inch | (inch) | 1.30 |

**Thursday, August 10**

| | | |
|---|---|---|
| Soup: Split pea | (cup) | .75 |
| | (bowl) | .95 |
| Beef teriyaki w/pot. or veg. | | 3.10 |
| Sliced roast turkey w/giblet gravy & veg. | | 3.10 |
| Lite-line: Roast beef au jus w/pot. or veg. | | 3.10 |
| Hot deli: Tuna or chicken salad melt on a croissant | | 2.85 |

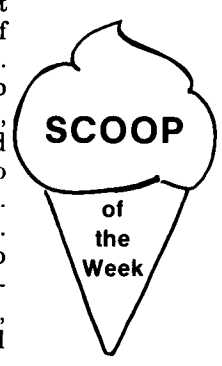
**Friday, August 11**

| | | |
|---|---|---|
| Soup: Manhattan clam chowder | (cup) | .75 |
| | (bowl) | .95 |
| Roast fresh ham w/pot. or veg. | | 3.10 |
| Broiled whitefish w/pot. or veg. | | 3.10 |
| Lite-line: Broiled whitefish w/pot. or veg. | | 3.10 |
| Hot deli: Philadelphia cheesesteak w/sautéed onions | | 2.85 |

## *Scoop of the Week*

The scoop for summer week number seven goes to John Walker, Alternating Gradient Synchrotron (AGS) Department for bringing our attention to the fact that the "Departures" list for the end of June was inadvertently omitted from the Bulletin of July 14. Walker particularly noticed the omission of his colleague Eugene Jablonski, the AGS's former chief mechanical engineer, who retired from the Lab on June 30 after 24 years.

Throughout the summer, the Bulletin is trading hot tips for scoops of cold, frozen yogurt. To enter the Scoop of the Week contest, rush your news and feature scoops to the Bulletin, Bldg. 134, or call Ext. 5053. 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, redeemable anytime at the Cafeteria.




## Equipment Demo

Representatives of Keithley Instruments will demonstrate electrical measurement research equipment and software at Berkner Hall on Wednesday, August 9, from 10 a.m. until 3 p.m. Precision sources, switches and meters, as well as PC-based instruments, will be demonstrated while performing data collection, analysis and control.

Keithley has just introduced an 1,100 volt source-measurement unit with 10-femtoamp electrometer sensitivity. Arrangements for evaluating these units in individual labs can be made at the demonstration.

## Coming Up

**A sculptural installation by Stephen Rueckert, inspired by the form of linear particle accelerators and the field of high energy particle physics, will be shown in the Collider Center, Bldg. 1005S, from August 16 through September 15. Called *The Standard Model (abandoned),* the piece will open to public view each Wednesday, Thursday and Friday from 11 a.m. to 2 p.m. An opening reception will be held from 5 to 7 p.m. on Wednesday, August 16.**

## *DAS Service Anniversaries Observed*

Roger Stoutenburgh

**Department of Applied Science staff who recently observed BNL service anniversaries were honored guests at a reception hosted by DAS Chairman Bernard Manowitz. The celebrants include (seated, from left) Manowitz, Betty Pergan, Leonard Hamilton, Ed Cote; (standing, from left) Peter Lane, Ignatius Tang, Paul Klotz, Bob Marr, Hugh Isaacs and Yin-Nan Lee.**

## Arrivals & Departures

### Arrivals

**Beth Yu Lin** ..... Biology

### Departures

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

**Kenneth L. Andersen** ..... Plant Eng.
**George H. Apelskog** ..... Cent. Shops
**Mariusz M. Kozik** ..... Chemistry
**H. George Latham Jr.** ..... Biology
**Chang K. Park** ..... Nuc. Energy
**William A. Patton** ..... AGS
**Leigh F. Phillips** ..... S&EP
**Carolyn L. Schwarz** ..... Chemistry
**Gerald Strickland** ..... App. Science
**Thomas C. Stuart** ..... S&EP
**Michael Tesla** ..... Plant Eng.

The following list, inadvertently omitted from the Bulletin of July 14, includes employees who left BNL at the end of June.

**John Bennett** ..... Biology
**Robert Grand** ..... Photo & Gr. Arts
**Harold H. Hicks** ..... Sup. & Mat'l.
**Eugene Jablonski** ..... AGS
**Alfred Mahlmann** ..... Plant Eng.
**Kevin Nelson** ..... Nuc. Energy
**Andrew C. Ruzicka** ..... Biology
**Peter Zolliker** ..... Physics

## Classified Advertisements

### Motor Vehicles & Supplies

87 BONNEVILLE - p/windows, door locks, seat, a/c, tilt wheel, am/fm cass., low mi., 7 year/60k mile warranty, mint cond. John, Ext. 7039.

86 PONTIAC FIERO GT - mint, red, 4-spd., 6-cyl., loaded, Eagle GT's, 35k mi., extras, $7,800. Carole, Ext. 7100.

86 YAMAHA SCOOTER RIVA 125Z - black, 1,500k mi., excel. cond., $1,200 neg. Peter, Ext. 3977.

86 CHEVY SPRINT - 2-dr., silver, 5-spd., excel. gas mi., front- end damage, best offer over $1,000. Joe, pager 0925 or 728-1859 eves.

85 NISSAN 300ZX 2+2 - digital, T-tops, low mileage, mint, $10,500. Peter, 281-7035, leave message.

85 DODGE RAM CHARGER - 4wd, a/t, new tires, $7,500 firm. Ext. 2015 or 929-5911.

84 HONDA AERO 125 MOTOR SCOOTER - good cond., 8k mi., new battery, extras, reliable, $500 firm. Vita, 277-0464 or Frank, Ext. 7519.

84 OLDS CUTLASS CIERA BROUGHAM - 4-dr., loaded, V-6, a/t, excel. in/out, must see, $4,450 neg. Ext. 3042 or 736-6441.

84 MAZDA GLC - 5-spd., 66k mi., sunroof, new tires, orig. owner, excel. cond., $2,100. 744-1442 after 5 p.m.

84 DODGE ARIES - 4-dr., cruise, am/fm, a/c, a/t, p/s, p/b, clean in/out, $1,900. Ext. 7527 or 758-1695 eves.

83 CHEVY CITATION - 4-dr. sedan, 6-cyl., a/t, p/s, p/b, a/c, am/fm, 81k mi., very dependable, $1,800. Michele, 286-7989.

83 CHEVY CHEVETTE - a/t, 4-dr., sunroof, clean in/out, good transportation, asking $1,399. Tom, Ext. 2372 or 281-2669 after 6 p.m.

82 YAMAHA VISION MOTORCYCLE - shaft drive, liquid cooled, 6k mi., saddle bags, helmet, mint cond., $8. Joe, 732-1651 or Karin, 924-1038.

82 CHEVY CITATION - a/t, a/c, 4-dr., hatchback, excel. cond., $975. 736-4412.

82 DATSUN 200SX - 5-spd., two-tone blue, a/c, p/w, cass., new tires, brakes & exhaust, tuned, excel., $1,695. 724-7758.

82 TOYOTA COROLLA - 2-dr., a/c, p/b, p/s, sunroof, good cond., $2,500 or best offer. Sahni, Ext. 3175.

82 CHEVY MONTE CARLO - 2-dr., runs well. 281-5802, 6 p.m.-7 p.m.

82 SUZUKI GS 650L MOTORCYCLE - windshield, trunk, low miles, excel. cond., $1,100. 728-7298.

82 HONDA CIVIC 1500GL - 2-dr., hatchback, 5-spd., am/fm, 69k mi., excel. cond., $2,500. Ext. 3699.

81 PLYMOUTH RELIANT - station wagon, p/s, p/b, new tires, $1,500. 369-0432.

80 CHEVROLET CITATION - V6-173, 80k mi., needs work, best offer. Pedro, 654-3222, 10 a.m.-8 p.m., M, T, Th. & F.

80 CAMARO - V-6, silver, very good cond., $2,100. 979-8288.

80 CHEVETTE - 4-dr., hatchback, trailer hitch, good cond., $250. Ext. 4390.

80 CHEVY CITATION - 4-dr., new tires, clean inside, needs brakes, tune-up, runs, $150 as is. Jimmy, 585-2033 6 p.m.-8 p.m.

80 MONZA - am/fm, 4-cyl., p/s, a/t, tan, good cond., $700. Helen. 475-4367 after 6 p.m.

80 JEEP J/10 PICKUP - 4x4, runs well, 4 extra tires, $2,500 or best offer. 878-0516.

**See Supplement for more classified ads.**

# Classified Ads (cont'd)

80 FORD PINTO - 120k mi., runs well, $400. Denis, Ext. 4446.

80 BUICK SKYLARK - 107k mi., clean, no rust, runs great, many new parts, $800 neg. Ext. 3076.

79 HONDA CIVIC - good transportation, new tires, brakes, water pump, timing belt, 95k mi., $500. Bill, Ext. 3369 or 929-6442.

79 BUICK LESABRE - 8-cyl., a/t, 2-dr. sedan, landau top, clean, asking $1,000. 654-4661, eves & wknds.

79 OLDS CUTLASS CALAIS - 2-dr., V8, p/s, p/b, am/fm, a/c, p/w, 107k mi., excel. cond., $1,200. Ronny, Ext. 2963 or 3103 after 6 p.m.

79 PONTIAC BONNEVILLE - wagon, 8-cyl., p/s, p/b, am/fm, a/c, p/w, 107k mi., good cond., $1,000. Ronny, Ext. 2963/3103 after 6 p.m.

78 NISSAN - air-flow box for fuel injection, orig. $450, will neg. Janet, Ext. 2345 or 929-3910.

78 TOYOTA COROLLA - am/fm cass., runs well, many new parts, asking $800. Antonio, Ext. 3369.

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

78 PLYMOUTH HORIZON - 96k mi., $600. Ext. 7181 or 286-2857.

78 FORD LTD WAGON - a/t, p/s, p/b, air shocks, 351 V-8, 115k mi., asking $650. Bill, pager 0445 or 298-4089.

76 TOYOTA CORONA - 96k mi., some rust, runs well, asking $800. Tom, Ext. 2214.

76 TRIUMPH TR7 - 4-spd., hardtop, Porsche red, car cover, runs well. Lynn, 727-2861 after 5 p.m.

76 BUICK SKYLARK - runs well, needs tranny work, good for parts. John, 744-1941.

75 CLEVELAND 351 ENGINE - out of car, $100. Ken, 395-6235.

73 POSTAL JEEP - L.H.D., 6-cyl., a/t, runs well, best offer. 744-4386.

70 POP-UP CAMPER - sleeps 6, good cond., asking $300. 286-4805.

66 OLDS F-85 - 350 V-8, runs well, reliable local transportation, $200 neg. Joe, 475-1303.

66 FORD MUSTANG - a/t, am/fm cass., runs well, nice cond. in & out, $3,500. John B. Ext. 4028.

PARTS - Satellite rear & 4-spd. tranny, complete, $250/both; Plymouth rear & driver side windows, Shell glass, $25/both. 924-0960.

WHEELS - 185SR-14 tires on Volvo wheels, 4, $10/each or $25/all. Fiarman, Ext. 2971 or 473-3616.

CAR RADIO - Sanyo, model FT528, am/fm stereo, cass., new, best offer. Gerry, Ext. 2055.

JEEP CJ5-3 - rebuilt, V8-289 installed, new accessories, partially completed cab & body, no rust. George, 286-0641.

TIRES - 2, Dunlop Gold-Seal, belted, P215/75B15, very good, $20; 2 15" Volvo rims, $20. Bill, Ext. 3369 or 929-6442.

UTILITY TRAILER - 6'x12' wench w/tilt, $700. Ext. 7686 or 878-0897.

BATTERY, 6-volt, heavy duty, commercial, new $100, sell $20. 878-2577.

SADDLEBAGS - fiberglass, good cond., $30. Roger, Ext. 7518 or 878-8847.

SLIDE-ON CAMPER - 9½', 3-way refrig., heater, toilet, hot water, folding steps, $1,000. Walter, Ext. 3457 or 732-1913.

TIRES - rims & sport wheel covers for 4-wheel pickup, less than 100 mi. used. 286-8957.

CLASSIC AUTOS - '23 Ford T-Bucket; '56 Chevy, 2-dr., h.t.; '56 Nomad; '58 Ford Galaxie 500, serious inquiries. 698-3101 to 6 p.m.

## Boats & Marine Supplies

37' EGG HARBOR - 1969, double cabin, sleeps 7, all the comforts, $22,500 or trade for low mi. Suburban. Ron, 286-3386.

29' THOMPSON - 1987, twin 190's, FWC, fully equipped. 981-9474.

22' TYLERCRAFT SLOOP - centerboard, 2 suits of sails, furling jib, 6 h.p. outboard, sleeps 4, in water, $2,500 neg. Pete, 281-7035.

22' CS FIBERGLASS SLOOP - keel, c/b, 5 sails, British design, $3,200, or $3,950 w/new outboard. Ext. 7929.

22' SPORTCRAFT - 1987, W.A.C., 225 Evin, low hours, F.F., V.H.F., dual battery, full canvas, excel. cond., E-Z Loader trailer, $20,000. 744-7549.

17' ARISTOCRAFT - fiberglass, 60 h.p. Merc cruiser I/O, recently rebuilt, w/trailer, ready to go, $1,600. Mark, Ext. 2599.

16' TRIHULL - looks like Boston Whaler, w/40 h.p. Johnson Seahorse, elec. start, steering & full controls, $1,200. Rob, 878-2702.

15' SILVERLINE - 1969, 33 h.p. Johnson, rebuilt, new chairs, controls, carpet, paint, Teleflex steer., trailer, asking $800. Pat, Ext. 4500 or 744-2017.

14' CATAMARAN - Hobie Turbo, roller reefing jib, trailer, $1,600. Ext. 7657 or 924-2933.

14' STARCRAFT - 1983, aluminum boat, $250. Joe, Pager 0925 or 728-1859 eves & wknds.

JOHNSON OUTBOARD - 1985, 110 h.p., new powerhead in '88, power t/t, oil injection, s/s prop, excel. cond., $2,500. 589-3072.

BOAT SLIP - Pier 66, Patchogue, for balance of season, 11' wide, ropes in place, best offer. John, 472-0430.

## Furnishings & Appliances

RUG - orange print, 11'x10'x10', nylon, $35; black & white TV, 13", $20. Bill, Ext. 3369 or 929-6442.

SOFA/SLEEPER - 6 mo. old; maple hutch; table & chair; oak etagere; microwave & cart; TV stand. Pat, Ext. 4628 or 758-0393 after 6 p.m.

COUNTERTOP RANGE - & wall oven, Kenmore, electric, $50; yellow countertops - 36"x28" L-shaped, $10, and 14" straight, $3. 878-2239.

CHINA HUTCH - redwood, 48"w x 69"h, excel. cond., $75. Ext. 2138.

LIVING ROOM LAMPS - 2, good cond., best offer. Bill, 924-1346.

AIR CONDITIONER - 6,000 Btu, used 1 year, 1 year warranty, like new, $250. Ernesto, Ext. 3869.

WAGON WHEEL LIGHTING FIXTURE - 4 hurricane lights, horse weather vane decoration in middle, approx. 2' diam., $50. 589-6803.

AIR CONDITIONER - 6,000 Btu, good cond., $90; sinker mold, $50; wire leather maker, $50. 475-7257.

DISHES - Heath Stoneware, ovenproof, beige w/brown edge, service for 6, extra pieces, $35. Ext. 4240 or 286-0295.

SOFA SLEEPER - queen size, tan velour; stereo rack cabinet, never used. Doreen, Ext. 2456.

PORTABLE WASHER - GE, good cond., $75; Revere movie projector, 8mm, $45; Gerard record turntable, $50. 924-8558.

SECTIONAL SOFA - 4-piece, Italian provincial, ivory/gold, excel. cond., $250. 475-3724.

WASHER/DRYER - Speed Queen, apartment size, 3 years old, excel. cond. Ext. 3192.

TABLECLOTH - oval, lace, w/liner, 66"x86", new, $8; stenograph machine, old, $15. Susan, Ext. 7716.

RATTAN WALL UNIT - 3½' x 6', excel. cond., $350. 475-2509.

## Tools, House & Garden

ELECTRIC PUMP - for small pool or other use, half horsepower, $15. Ext. 4240 or 286-0295.

CHARCOAL GRILL - bed frame; large lens, any offer. 475-1254 or 475-3366.

BARBEQUE - Weber, excel. cond., $30. 878-1731.

TRACTOR - International Cadet, good for parts or can be fixed, $125. 289-0883.

LAWN MOWER - Snapper, 22", self-propelled, w/bag. 878-2239.

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

TABLESAW - also, radial arm saw; lawn mower, very reasonable; fertilizer spreader, almost new. 941-9085.

## Sports, Hobbies & Pets

WEIGHT LIFTING SET - barbell/dumbell set, 130 lbs., w/adjustable bench & leg weight attachment, $100. Frank, Ext. 2314 or 567-5131.

BICYCLES - 2, 3-speed, old, $10/each. 473-3616.

BICYCLES - 10-speed, Raleigh, $60. Ext. 4635 or 751-2860.

BICYCLE - 1987, Centurian LeMans, 10-speed, very low miles, like new. Dick, Ext. 3752.

HEALTH SPA MEMBERSHIP - Jack LaLanne, lifetime olympic gold, $350. Bob, 924-7316.

BIKE - man's, 10-speed, needs work, 2 heavy locks, pump, $25. Ext. 2420.

PIANO - good for beginner, $200 or best offer. Pat, Ext. 3336.

KEYBOARD - full-size, excel. cond., $50. 473-6432.

GOLF CLUBS - Spaulding Robert Jones registered, matched set, 2-9 w, p, 3 woods, leather grips, excel. cond., Lenny, Ext. 4467.

BICYCLE - 26", 12-speed, Bianci Unisex, removeable wheels, new, hardly used, $325. 924-7658.

SKIS - Rossignol, 2 pairs, 175 cm & 185 cm, w/Geze bindings, Caber boots, size 10, $175/all. 981-9474.

ROWER - DP 300. $25. 475-2509.

ELECTRONIC ORGAN - individually designed, almost built; man's suitcase; large doll from 1939; woman's leather coat, size 12. 941-9085.

## Audio, Video & Computers

COMPUTER - Apple II+, complete system w/software, printer, screen, many improvements, best offer. Ext. 4635 or 751-2860.

RECORDS - LP, 70's & 80's, rock, $3/disc; classical & baroque, $4-$5. Scott, Ext. 3369.

COMPUTER - Macintosh, 512KE, 2 disk drives, keyboard, mouse. 289-8182.

VIDEO RECORDER - GE, 4 years old, used 3 times, extras, $750. 736-3825.

VIDEO COLOR CAMERA - RCA deluxe tripod, video camera case, RCA camera ext. cable, $450. Ext. 2214.

TELEVISIONS - Sharp, 15", very good cond., $40; 19", Sharp, very good cond., $80. Ronny, Ext. 3103.

ATWATER KENT RADIO - original, in original antique table, both go together, make offer. Betty, 821-2515.

TV ANTENNA - VHF, color, cross fire, Channel Master 3611, $20; Channel Master rotator, $15. Bill, Ext. 3369 or 929-6442.

## Miscellaneous

METAL SHOE RACK - 18-pair, $10; star clock, $20; brass horn, $15; large hand-painted tray, $20; light fixture, $20. Kathy, 744-2203.

WHEEL CHAIR - Little Rascal, electric, new batteries, many extras, excel. cond. Ext. 4798 or 732-3304.

GOWN - informal wedding gown, gorgeous, white, size 8, also hair piece, $250. 467-5853.

DRAFTING TABLE - 2' x 2'6", chrome legs, adjustable top, stool to match, $35. 589-6803.

SUMMER SHOES - Town & Country, tan, wedge, size 9½ AA, orig. $31, sell for $10. 475-7257.

TICKETS - 2, *Rumors* in NYC, Sept. 9, 8 p.m., orchestra row L, seats 113 & 114, $40/each. Ruth Anne, Ext. 7774.

## Free

WOOD STOVE - air-tight flue, chimney accessories, excel. cond., you take. 878-1731.

KITTENS - in need of good home, 5 males, 1 female, born 6/23, available now. Mike, Ext. 3140.

ANIMAL CAGE - needs cleaning, 36" x 15¼" x 17". Mona, 588-9163.

KITTEN - 3 months old, female, tiger-striped, orange & white, blue eyes, cute and playful. Ext. 2267 or 395-6520.

DOG - Lab/Retriever mix, short hair, loves kids & cats, 1 year old, healthy, great family pet. Ron, 286-3386.

BIKE BASKET - girl's bike basket to person who bought $10 bike from apartment area. Maria, Ext. 3192.

## Yard & Garage Sales

SOUTH BELLPORT - moving sale, 8/5 only, rain date 8/6, 9 a.m.-3 p.m., 4 Bayview Street. Ext. 4628.

E. PATCHOGUE - Aug. 5 & 6, 9 a.m.-4 p.m., desk, air conditioner, couch, etc. Ext. 2384.

## 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

BELLPORT VILLAGE S. - 3 bdrms., 2 baths, funished, Sept.-June occupancy, garage, $800/mo. + util. 286-9389 or 286-0466.

SHIRLEY - 3-bdrm. furnished house, 1 bath, l/r, eik, ½ acre, private, avail. Aug., will consider sharing, not pets, $900/mo. + util. 473-6432.

SHOREHAM - SWR schools, north of 25A, 4-bdrm. Colonial, l/r w/fp, den, 2½ baths, bsmt., 2-car garage, new appliances, $1,250/mo. 744-1110.

SHOREHAM - 4-bdrm. Colonial, 2½ baths, 2-car garage, in-ground pool, SWR school, $1,200/mo. 744-7642.

STONY BROOK - 1-bdrm. upper level apt., priv. ent., no children or pets. JoAnn, Ext. 4120 or 689-7963.

STONY BROOK - 6 bdrms., l/r, den, d/r, finished bsmt., 3½ baths, ⅔ acres w/many trees, mint cond. Ext. 4635 or 751-2860.

SETAUKET, S. - 4-bdrm. ranch, 2 baths, ½ acre, 3-V school district, avail. Sept. 1, asking $1,175/mo. + util. Ext. 2611 or 751-4098.

WESTHAMPTON BEACH/SPEONK - 2 bdrms., 1½ baths, 5 appliances, approx. 1.000 sq. ft., 8 months old, immed. occup., 1 mo. sec., $850/mo. + util. Rich, Ext. 4834 or 588-0507.

YAPHANK - 3-bdrm. condo, 2 baths, w/w, all appliances, bsmt., pool, tennis, clubhouse, no pets. 473-1732 eves.

HILTON HEAD, S.C. - 2-bdrm. condo, sleeps 6, 2 baths, tennis, golf, beach, pool, Sept. & Oct. openings, $425/wk. Guy, Ext. 3147 or 585-9149.

LAKE PLACID - 2-bdrm. A-frame, loft, sleeps 8, fully furn., near swimming, boating, golf, tennis, hiking & more. Clare or George, 757-1775 after 4 p.m.

SURFSIDE BEACH, SC - 2-bdrm. condo, ocean-front, sleeps 6, 2 baths, full kitchen, beach, pool, tennis, golf. Sept. openings, $400/wk., Oct. openings, $325/wk. 929-4350.

## For Sale

AQUEBOGUE - 3-bdrm. split ranch, 2 baths, eik, dining area, l/r, deck, landscaped 0.6 acre, ig sprinkler, fenced, garage, oil h/w, a/c, cable, city water, $169,000. Beth, Ext. 4986 or 722-4750.

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

BLUE POINT - 3-bdrm. cape, 2 baths, kit., dining area, l/r, TV room, full bsmt., garage, 1 acre, on dead end, vinyl siding, near school, church & Blue Point Marina. Joe, 363-6595.

CALVERTON - 3-bdrm. ranch, full bsmt., rights to lake, located by state land, 10 min. to beaches, Brookhaven Town school, asking $160,000. Tom, Ext. 2214.

CENTER MORICHES - 3-bdrm., 1½-bath ranch, full bsmt., garage, storage shed, large lot in excel. location, city water, price reduced, $143,900. 878-0175.

CORAM - in Bretton Woods, 2-bdrm. condo, l/r, d/r, eik, utility room, cac, w/w, window treatments, 5 appli., clubhouse, golf, tennis, bowling, pool, mint, $117,900. Kitty, 698-9166.

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.

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 - 5-room ranch, 3 master bdrms., full tiled bath, cabinet-lined kitchen, full bsmt., ohw heat, 120'x100' lot, 3 blocks to marina, moving out, $118,000. 281-8685 or 281-8764.

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

MIDDLE ISLAND - Lake Pointe, 5 min to Lab, 2 bdrms., cac, gas heat, wood deck on bdrm., w/w, asking $81,000. Bob, 924-7316.

PORT JEFFERSON - 4-bdrm. Colonial, full bsmt., 2-car gar., 2 baths, cac, all oak floors, walk to harbor, village, mint cond., priced to sell. 474-1482 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, $136,500. 821-3925.

ROCKY POINT - 3-bdrm. high-ranch, l/r w/brick fp & cathedral ceiling, d/r, large kit., 2 baths, bsmt., cac, 2-car garage w/elec. doors, beach rights, 0.34 acre, $164,900. Kochman, 744-1057.

ROSLYN - 1-bdrm. co-op, corner, sunny, fully renovated, w/w, Roslyn SD. Ext. 3924 or 462-8205 eves. and 484-3897 weekends.

SELDEN - high-ranch, 3 bdrms. upstairs w/eik, l/r, d/r & deck, legal one bdrm. apt. downstairs w/pvt. ent., $144,500. Ext. 5177 or 698-6120.

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

STONY BROOK - N. 25A, 4 bdrms., 3½ baths, l/r, den, finished bsmt., ¾ acre, near beach & university, priced to sell. Ext. 4635 or 751-2860.

STONY BROOK - 4-bdrm., 2-bath ranch, f/p, Euro. kitchen, 10 appliances, Jenn Aire, Pella windows, skylights in den, igp, igs, sewers, 3 VSD, $219,000. Rod, Ext. 4428 or 751-7023.

WESTHAMPTON BEACH/SPEONK - Hampton Villas, 2-bdrm. townhouse, 1½ baths, cac, swimming pool, 5 appliances, $149,500. Rich, Ext. 4834 or 588-0507.

YAPHANK - 3-bdrm. condo, 2½ baths, fin. bsmt., wood floors, a/c, 5 min. to Lab, $120,000. Ext. 4125 or 751-2216 after 6 p.m.

FORT PIERCE, FL - mobile home, adult park, completely furn., 2 bdrms., 2 full baths. 407-464-7102 or 407-461-1226.

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

TAYLOR, NY - 84 acres, ½ clear, ½ timber, 30 miles north of Binghamton w/excel. hunting, fresh-water pond, asking $550 per acre, will sell whole. 878-8069.

PALM COAST, FL - ¼ acre lot, 80'x125', 5 miles to ocean, 24 miles N. of Daytona Beach, water, drainage & sewage util., $10,800 or $1,995 and assume. Thomas Nolan, Ext. 5265.

KNOXVILLE, TN - 2 bdrms., 1 bath, l/r, d/r, kitchen, porch, big lot, clean, $32,500. Ruth, Ext. 7226.

SMITHFIELD, VA - beautiful, wooded 3-acre plot in quiet subdivision, creek in backyard, 45 min from Va. Beach or Williamsburg, $38,000. Kitty, Ext. 3422 or 698-9166.

## Car Pool

PATCHOGUE - van pool, seat open. Ext. 4669, leave name & number.

## Wanted

ENGINE - Ford 351W, good cond. Mark, 261-7250.

TYPEWRITER - IBM electric preferably. Carole, Ext. 3325 or 472-3332.

ENLARGER - Beseler 23C, may be interested in other darkroom/photo equipment. Paul, Ext. 7697.

DEHUMIDIFIER - to help a damp basement. Ext. 7697 or 689-2829.

PERSON - to do cross-stitch birth sampler. 475-2509.

## Services

*Services are listed in the first **Bulletin** of every month as a courtesy to BNL employees. They are neither screened nor recommended by the Bulletin. Services forms are available in the Bulletin lobby, Bldg. 134.*

YARD WORK - basic trimming & weeding, reasonable rates. 744-1941, leave message.

FLOOR COVERING INSTALLER - linoleum, vinyl, commercial tile, certified, experienced. 689-8553 or 751-1773.

CHILD CARE - mature, responsible mom, my home, Calverton/Riverhead area, excel. references. Norma, 369-1269.

CHILD CARE - mature woman, my home, playmates, Shirley area, reasonable rates, references. 399-6120.

BRICKWORK - patios, walks, swimming pools, retaining walls, landscaping ties, Belgian blocks, 20 years exper., Lab discount. Tony, 698-9274.

PAINTING - interior/exterior, Lab discount, reasonable rates. Pat, 924-2298 eves.

RENT-A-TENT - tables, chairs, tents, bars for your party needs, free delivery. 878-3546.

TUTORING - kindergarten through 6th grade, special education, all subjects, my home. 475-2509.

FAVORS - for wedding, baby showers, headpieces, photo albums, flowers, guest books, more, very reasonable. Victoria, Ext. 4519/4269.

ARTIST - detailed hand painting on furniture, doors, wall murals, etc. Debby, 363-2851.

SHEETROCKING & SPACKLING - free estimates. Kevin, 563-9855.

BABYSITTER - weekdays, 1 year-6 years old, in Shirley. Dina, 395-6765.

BABYSITTER - Monday-Friday. Ge, Ext. 3219.

CATERING - any size party, any occasion, certified by Suffolk County Health Services, reasonable rates. Diane, 821-3762.

KAYAK LESSONS - Sea Kayak, river playboats, $70 for 5 hours, equipment supplied; Intro to kayaks, $25 for 2 hours. Tim, 281-7873.

ROOFER - repairs new roofs and re-roofs, free estimates, lincensed, insured, guaranteed, Lab discounts. 732-4679.

ROTOTILLING - Troybilt rototilling, yards & gardens. Bob, 732-9517.

AUTOMATIC LAWN SPRINKLERS - free estimates & appraisals, installations & repairs, spring start-up & fall winterizing. Lou, 928-7042.

SATELLITE TV - you can have satellite TV in your home, free information. Tom, 281-2669.

SOLAR NAILS - $30; manicures, $5. Sue, 399-5099.

HOUSE CLEANING - reasonable rates. Tara, 289-1455.

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