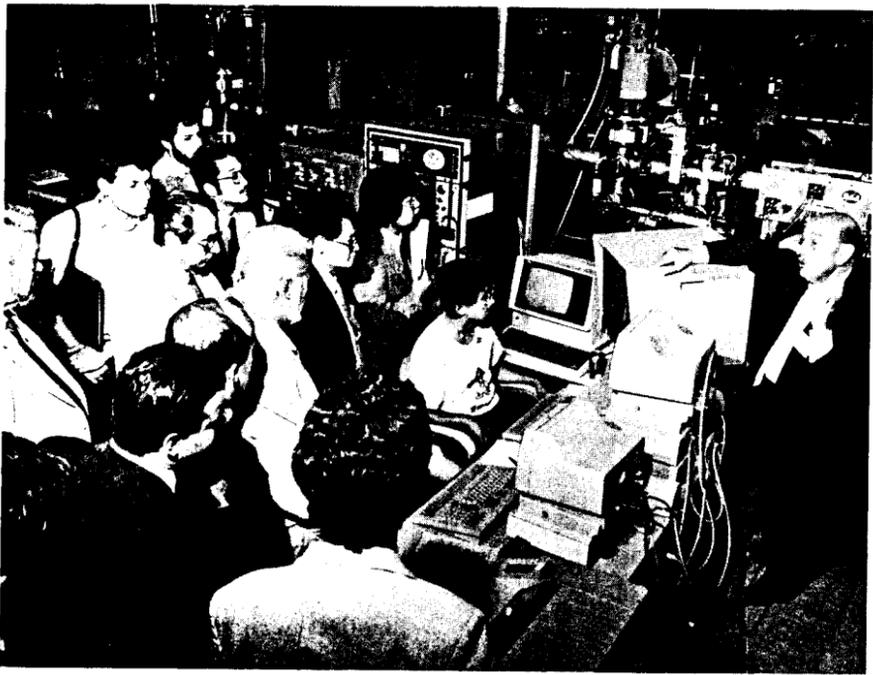


Of Cosmic Rays and Computer Chips



Roger Stoutenburgh

An open house was held at the Tandem Van de Graaff accelerator on July 21 to highlight the unique capabilities of the Single Event Upset Test Facility (SEUTF). E. G. Stassinopoulos (above, right), of the National Aeronautics and Space Administration (NASA), demonstrated the facility, which simulates the effects of cosmic rays on computer chips.

Space is permeated by high-energy, charged particles; when those cosmic rays hit computer chips, they tend to cause errors that could lead to catastrophic equipment failures.

To study such effects and to test new computer chip designs, a consortium of government agencies — NASA, the Naval Research Laboratory, the National Security Agency, and the U.S. Army Strategic Defense Command — worked with BNL to build the SEUTF, which is also available for use by other government agencies and private companies.

The facility uses the Tandem to create a low-flux beam of charged ions, which then bombards a group of computer chips. Meanwhile, test equipment exercises the chips and tests them for errors.

Although the SEUTF was built mainly to study effects in outer space, it is also becoming an important test facility for new ground-based computers.

"Even down here, there are cosmic rays, and some errors have been observed," said Peter Thieberger, who heads the Tandem. "As chips become more and more compact, this facility becomes more and more important."

— Kevin Eber

A Long-Lost City Found

With settlements that probably dated as far back as 5000 B.C., Mesopotamia has been known as the "cradle of civilization." One ancient Mesopotamian capital — Mashkan-shapir — had long been lost.

But lost was found in January 1989, when Anthropologist Elizabeth Stone and her collaborators discovered texts on the surface of a large, low mound in southern Mesopotamia, now known as Iraq, that definitively identified it with Mashkan-shapir.

Stone will discuss "The Discovery of Mashkan-shapir: Explorations of Ancient Mesopotamian Urbanism," on Thursday, August 24, when she gives the next Brookhaven Women in Science (BWIS) seminar. Her talk will begin at 3:30 p.m. in Berkner Hall; coffee and cookies will precede the lecture at 3 p.m.

An associate professor in the Department of Anthropology at the State University of New York at Stony Brook, Stone has directed the Tell Abu Duwari Project in Iraq since 1987, under grants from the National Geographic Society, the Fulbright Program and the American Schools of Oriental Research.

The discovery of Mashkan-shapir was a bonus for Stone's project, which was conceived in more general terms: to provide, for the first time, a full understanding of the organization of a Mesopotamian city, with special emphasis on the distribution of authority therein. During two preliminary seasons, a combination of survey, excavation and remote sensing have already contributed to



Elizabeth Stone

resolving some of these questions, and Stone will discuss these results in her talk.

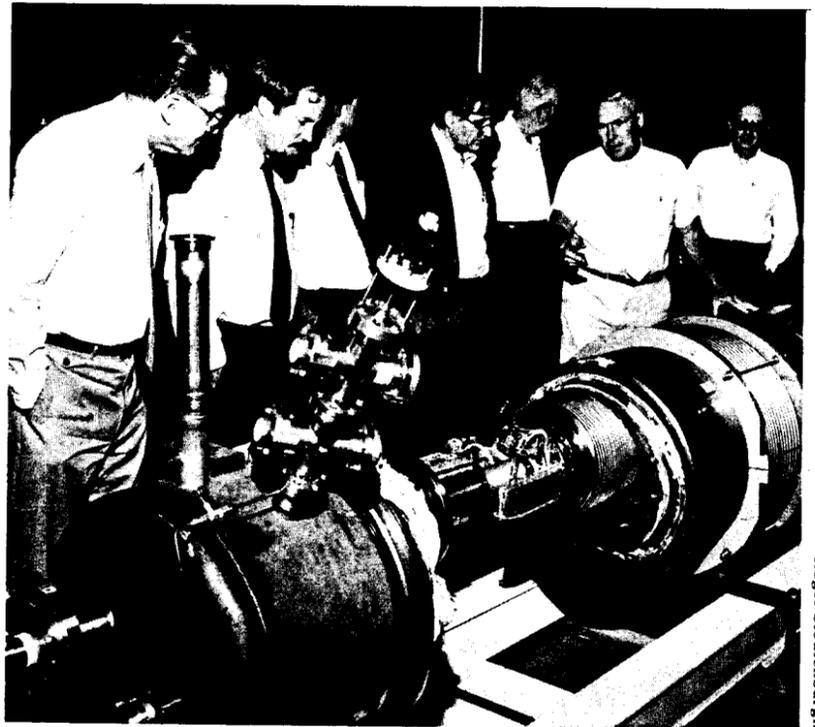
Stone received a B.A. in anthropology from the University of Pennsylvania, 1971; an M.A. in anthropology from Harvard University, 1973; and her Ph.D. in anthropology from the University of Chicago, 1979. In addition to Iraq, her field experience has included archaeological projects in England, Iran, West Germany, Afghanistan and Syria.

Summing up her interests, Stone said, "My research has been concentrated in the study of ancient Mesopotamian society and economy, using a mixture of archaeological and

The Attraction: SSC Magnets

Good news for the proposed Superconducting Super Collider (SSC) came at the end of July when construction funds for fiscal year 1990 were included in the appropriations bills passed by both houses of Congress. Visiting BNL at about that time was the Universities Research Association SSC Board of Overseers, the 15-member group that oversees the SSC Laboratory and which includes BNL Deputy Director Martin Blume in its membership.

At Brookhaven on July 27 and 28, the Board was most interested in the progress of the R&D going on at the Lab, particularly on magnets, of which 7,600 will be needed to guide and focus protons in the SSC's two intersecting rings. In Bldg. 902, where R&D magnets are being assembled and tested, Eugene Kelly (second from right), who heads the engineering and fabrication effort within the Magnet Division of the Accelerator Development Department, showed a fully assembled dipole to members of the SSC Board. Looking at the magnet, which is being prepared for cold testing, are: (from left) Martin Walt, Lockheed Research; Robert Hollebeck, University of Pennsylvania; Raphael Kasper, SSC Laboratory; George Trilling, Lawrence Berkeley Laboratory; George Wheeler, University of Tennessee; and Robert Frosch, General Motors Research Laboratory.



Roger Stoutenburgh

Patent Awarded

James Reilly, Department of Applied Science (DAS); Edward Grohse, formerly DAS; John Johnson, DAS; and the late Warren Winsche, Director's Office, have been awarded U.S. Patent No. 4,769,225 for inventing a process involving the storage of hydrogen in metal hydrides. These are hydrogen compounds formed by the direct and reversible reaction of hydrogen with many metals.

The process consists of the formation and decomposition of a metal hydride suspended as small particles in a liquid hydrocarbon such as octane. Such suspensions of solid particles in liquids are usually referred to as slurries and are widely used in industry.

The metal hydrides being used were

chosen because they can absorb or desorb large amounts of hydrogen at convenient temperatures and pressures. They can also undergo many cycles of absorption and desorption without a serious deterioration of their hydrogen-storage capacity.

Current or potential applications of such hydrides include hydrogen purification, energy storage, heat pumps and isotope separation.

Until now, all these applications involved the contact of hydrogen gas with a dry, immobile bed of metal and/or metal hydride particles. This design imposes severe problems in heat transport and transfer, separating the solids from the exiting gas stream, and vessel distortion due to the expansion and contraction of the reacting solid particles.

These problems would be eliminated or substantially reduced by using metal hydride slurries in place of conventional, dry-bed contactors. Additionally the liquid-like properties of slurries should greatly increase flexibility in process design.

Overall, these advantages should result in more cost effective and efficient use of these materials.

textual analyses. I have been especially interested in examining the organization of residential districts and their role in the administration of ancient cities."

Stone came to Stony Brook in 1977 as a lecturer, became assistant professor in 1978 and was named to her present position in 1985. Currently, she is also a research associate in the Department of Archaeology at Boston University.

BWIS will sponsor a luncheon in honor of the speaker at noon on the day of her talk, in Berkner Hall, Room A. The cost is \$8 per person. For reservations, contact Carmen Benkowitz, Ext. 4135.

Sculpture on View

The Standard Model (abandoned), a 40-foot-long, steel and glass sculptural installation by Stephen Rueckert, is being shown in the Collider Center, Bldg. 1005S, Wednesdays, Thursdays and Fridays through September 15, from 11 a.m. to 2 p.m.

Accidents Happen



... and when they do, a healthy blood supply is vital.

Help Long Island Blood Services meet the need for blood over the Labor Day weekend. Normally, this need is met by donors from the Communications Workers of America, but during their present strike, the Lab has agreed to run a special Blood Drive:

Date: Friday, September 1

Time: 9:30 a.m. to 3 p.m.

Place: Berkner Hall

For Appointment: Call Blood Drive Chair Susan Foster, Ext. 2888.

Note to frequent donors: As the waiting period between donations is eight weeks, those who last gave during BNL's June Blood Drive nine weeks ago can give again at this drive.

Art Trip Offers Flora and Fauna

On Saturday, September 23, the BERA Art Committee is sponsoring a trip to the Bronx Zoo and the nearby New York Botanical Gardens.

The bus will cost \$15, and entry to the gardens is free. Entry to the zoo is \$3.75, and \$1.50 for children under 13. Group-rate tickets for all zoo rides will be available at \$8, if at least 15 people want them.

The bus will leave the parking lot opposite Berkner Hall at 9 a.m., and leave the Bronx at 3:30 p.m. Tickets are available now from Bob Chrien, Ext. 3903; after August 24, from Liz Seubert, Ext. 2346.

Nursery School

The Upton Nursery School is enrolling three- and four-year-old children for the 1989-90 school year. This cooperative preschool offers three-hour classes three days a week in the Recreation Building on site. The school is open to families of BNL employees and their relatives. For more information, call Valerie Condemni, 399-1258, or Kathy Hershco-vitch, 331-3785.

Successful Harvest for Summer Apprentices

BNL's Summer Apprenticeship Research Program for Minorities, now in its ninth summer, has yielded two bumper crops — a crop of successful students and a crop of the vegetables they planted.

The apprenticeship program sponsors 32 ninth and tenth graders each summer — from Suffolk County high schools and one from each borough in New York City — to spend four weeks at BNL. The program is divided into two semesters, each with 16 students; during the four weeks, they learn about physics, biology, chemistry, engineering and medicine from BNL staff.

One of the highlights of the program is a hydroponic garden, built by previous students in the shell of an old greenhouse behind Biology, Bldg. 463. That garden, which uses nutrient-laden water to grow plants without soil, has become a big success.

"This was our first year of harvest, and it was great," said Renée Flack of the Affirmative Action Office, director of the apprenticeship program.

"We didn't know how well it would work, so we planted a lot of crops," said Flack. "We planted lettuce, tomatoes, cucumbers, peas, string beans, squash, corn and melons. Everything worked, except the corn and melons."

The bountiful crop was the culmination of a project that began three years ago, when the Biology Department gave the greenhouse — then slated to be demolished — to the program. The greenhouse was just an empty frame and was in shambles.

"Plant Engineering fixed the doors and did the electrical machinery work, but the kids did everything else," said Flack.

Through the hard work of the students, the greenhouse was slowly converted into a fully functional hydroponic facility. Flack gives a lot



Renée Flack (left) shows off the bountiful crop in the greenhouse behind Biology, Bldg. 463, as Arthur Pitschi (back, left) looks on with this year's first-semester group of student apprentices. The second-semester group is now on site and will be leaving August 25.

of the credit to Arthur Pitschi, a teacher at Patchogue-Medford High School, who has been with the program since its inception. Pitschi helped to rebuild the greenhouse and maintains it when the students aren't around.

This year's crop was so successful that the Program gave away 50 heads of lettuce to the students' parents. Those on site have also had a chance to sample the lettuce, because Flack sold about \$300 worth to the Marriott Corporation, which runs the Cafeteria.

"We're still trying to decide what we're going to do with the money," said Flack. "But we're hoping that the program will run itself, eventually." The program is currently funded by the U.S. Department of Energy.

But the crop has led to more than just the unexpected income — it has also inspired another gift from the Biology Department.

"Because of the success of the greenhouse, Biology has graciously offered to give us their second, neighboring greenhouse," said Flack. "It was just given to us in July, so we haven't gotten funding to fix it up yet, but we will be seeking funding soon."

Of course, the real goal of the program isn't the greenhouse, but rather the harvest of scientifically motivated young minds. According to Flack, the program has yielded a bumper crop of fine students, too.

"Our very first student just graduated from Princeton, plus there are two students at Harvard and one pre-med," Flack said. "We're doing really well."

— Kevin Eber



BEFORE AND AFTER: The apprenticeship program's revamped greenhouse (left) contrasts strongly with the second greenhouse (right), which

was recently donated to the program by the Biology Department. Before refurbishment, both greenhouses looked very similar.

Health Physics Training — From Classroom To Catastrophe



The scene at left is not a typical day in graduate school. But it was part of the educational scene for nine graduate students who were at BNL this summer for a ten-week Health Physics Summer Training Program.

Today is the last day of the program, which takes advantage of the Lab's facilities to provide health physics education. The training is intended to supplement other graduate studies, which usually do not offer practical experience in health physics.

The program is coordinated by Stan Alter of the Safety & Environmental Protection Division (S&EP), with the help of Kathleen McIntyre and Mary Pat Takacs, both also of S&EP.

The rigorous program includes a series of lectures and specific training on various radiological techniques and instrumentation; seminars given by the students on a variety of research subjects; and program-long projects, in which the students work with S&EP staff members on a current research or practical problem. The program also features 21 seminars presented by BNL staff members.

In a drill held on August 4, students Erik Still (left), University of Washington, and Gerard Huppe (foreground), San Diego State University, carry Rugged-Ron-the-Dummy from Bldg. 835 as John Aloï, an S&EP Health Physics technician, steps out the door. The drill scenario was a smoke-filled room with radioactive contamination, and, despite a heroic effort, the dummy didn't make it.

Other 1989 Health Physics students, not shown, are: Heng-Gung Chen, University of Lowell; Bing Fang, Rutgers University; Leanne Meyer, Northwestern University; Richard Peros, Rutgers University; Antonio Quinones, University of Puerto Rico; Nick Shah, University of Illinois; and Rudolph Woode, New York University Medical Center.

Teachers Become Researchers

To keep ahead of their students' questions on the latest developments in science and technology, 13 high school science teachers from five states and the District of Columbia spent the last eight weeks at BNL as part of the first annual Teacher Research Associate Program.

Sponsored by the U.S. Department of Energy (DOE) at 14 of its laboratories, the program involves over 150 teachers from across the country in hands-on research to enhance their teaching skills. Its purpose is to help improve the quality of math and science education in the U.S. At BNL, the program was administered by the

Office of Educational Programs.

As DOE Secretary James Watkins said in announcing the program, "It offers a great return on DOE's investment because each teacher reaches 150 students every year."

As research associates, the 13 teachers at BNL conducted research into such topics as particle interactions at high energies, thin-film superconductors, radon and thoron in Long Island soil, carbon dioxide emissions and biodegradation of geothermal sludges. They will use the experience to develop demonstrations and experiments for their classes.



Roger Stoutenburgh

The first year's group of Teacher Research Associates at BNL: (top, from left) Michael Herzfeld, Reading High School, Reading, Pennsylvania; Patrick Blackburn, Beloit Junior-Senior High School, Beloit, Kansas; Monique Morton, Woodrow Wilson High School, Washington, D.C.; Harry Stuckey, Garden City High School, Garden City; Karen Maldonado, Memorial Junior High School, Valley Stream; (bottom, from left) Otto Phanstiel, Stanton College Preparatory School, Jacksonville, Florida; Joseph DiSpigno, Comsewogue High School, Port Jefferson Station; Ashton Uter, Woodrow Wilson High School, Washington, D.C.; Maryann Librizzi, Saint Anthony's High School, South Huntington; David Rettie, Olympus High School, Salt Lake City, Utah; and Jeanne Dyer, Gaither High School, Tampa, Florida. Missing from the picture: Stacey Prusiewicz, LaSalle Military Academy, Oakdale, and Glenn Williams, Saint John the Baptist High School, West Islip.

New Radiation Signs in Stock

Inserting a message into one of the five pockets on the Lab's new "Caution — Radiation Area" signs is Norman Rohrig, Safety & Environmental Protection Division, who is spearheading BNL's effort to comply with Department of Energy (DOE) order 5480.11.

That order mandates stricter regulations for all DOE contractors regarding radiation safety. One of these concerns the new radiation signs — yellow with magenta lettering — which have already begun to appear around the Lab. Up to five of 25 different inserts may be slipped in the plastic pockets so that each sign can carry a message tailored for a specific area. As soon as possible, these new signs should replace all the old ones on site. The signs and the inserts are now stock items, available in the Stationary Warehouse, Bldg. T-86, and listed in the Safety catalog under "Safety Signs."

Another new sign with the same color scheme will shortly be seen designating a site as a "Controlled Area," and defining it as an "Area controlled for radiation protection purposes. For entry you must have General Employee Training and appropriate Radiation Worker Training or be escorted by a trained individual."

This sign addresses another aspect of the DOE order, which requires detailed training, specialized to their tasks, for radiation workers, as well as general training for other Lab employees. Another DOE requirement is that instruments be available at each radiation area to check outgoing items to make sure they are free of contamination or activation.

The radiation safety program must be in full compliance with the DOE order by January 1990.



Roger Stoutenburgh

Amateur Radio Club

The Amateur Radio Club will meet in the Management Information Systems conference room, Bldg. 459, on Thursday, August 24, at noon.

The agenda includes the progress of the conversion of the UHF repeater and upcoming club activities.

All licensed radio amateurs employed at the Lab are invited to attend, and those interested in becoming licensed amateur radio operators are also welcome.

For more information, please contact Andy Feldman, Ext. 3264, or Bob Bacharach, Ext. 7790.

Bowlers Needed

Women bowlers are needed this September for the Pink League on Tuesday nights in Port Jefferson. Anyone interested should call Donna Cunningham, Ext. 4599.

Cafeteria Menu

Monday, August 21	
Soup: Tomato rice	(cup) .75 (bowl) .95
BBQ chicken w/pot. or veg.	3.10
Beef teriyaki w/pot. or veg.	3.10
Lite-line: Broiled chicken w/pot. or veg.	3.10
Hot deli: Pastrami	2.85
Tuesday, August 22	
Soup: Chicken noodle	(cup) .75 (bowl) .95
Salisbury steak w/pot. or veg.	3.10
Broiled turkey breast w/pot. or veg.	3.10
Lite-line: Chicken salad primavera	2.95
Hot deli: Hero by the inch	(inch) 1.25
Wednesday, August 23	
Soup: Vegetable	(cup) .75 (bowl) .95
Hungarian goulash	3.10
Chicken Parmesan w/spaghetti	3.10
Lite-line: Ham roll-up plate	2.95
Hot deli: Fish on a bun	2.85
Thursday, August 24	
Soup: Split pea	(cup) .75 (bowl) .95
Broiled pork chops w/pot. or veg.	3.10
Spaghetti & meatballs w/garlic bread	3.10
Lite-line: Tuna salad plate	2.95
Hot deli: Open roast beef	2.85
Friday, August 25	
Soup: Seafood bisque	(cup) .75 (bowl) .95
Beef chow mein	3.10
Fish Buena Vista w/pot. or veg.	3.10
Lite-line: Broiled fish w/pot. or veg.	3.10
Hot deli: Turkey melt	2.85

No Safety Shoes Next Two Weeks

The on-site safety shoe representative will be on vacation August 21 through September 1. Normal hours will resume Tuesday, September 5.

Outdoor Volleyball

The final outdoor, mixed-league volleyball tournament will be held on Wednesday, August 30. Participation is limited to 36 players on a first-come, first-served basis. A \$22 entrance fee is payable on the evening of the tournament. In the event of bad weather, the tournament will be held in the gym.

Contact Kathi Barkigia, Ext. 7661, or Terry Sullivan, Ext. 2840, by Monday, August 28, for further information.

Classified Advertisements

Motor Vehicles & Supplies

- 86 OLDSMOBILE CUTLASS SUPREME - 6-cyl., p/w, p/s, p/b, excel. cond., \$6,900. JoAnn, Ext. 4120 or 689-7963.
- 85 RAM CHARGER - 4wd, a/t, hitch, \$7,500 firm. Ext. 2015 or 929-5911.
- 85 MAXIMA - loaded, good cond., \$7,200. Chip, 878-4665 after 2 p.m.
- 85 KAWASAKI 750 - GPZ turbo, 4,100 mi., \$3,600. Chris, 654-8046.
- 85 FORD TEMPO - a/t, p/s, p/b, a/c, am/fm stereo radio, 65k highway mi., very good cond., \$3,200 or best offer. Oreste, Ext. 3852 or 3107 eves.
- 83 RENAULT ALLIANCE - 50k mi., \$950. Ext. 3867/3525 or 399-1249.
- 82 DATSUN 200 SX - 5-spd., low mi., new tires, brakes, exhaust & battery, recently tuned, excel. cond., asking \$1,695. 724-7758.
- 82 DATSUN 310 GX - h/b, a/t, moonroof, am/fm cass., 55k mi., good cond., asking \$1,250. Dominic, Ext. 5264.
- 82 SUZUKI GS 650L MOTORCYCLE - windshield, trunk, low mi., excel. cond., \$1,100. Joe, 728-7298.
- 82 TOYOTA COROLLA - 2-dr., a/c, p/b, p/s, sunroof, good cond., \$2,500 or best offer. Sahni, Ext. 3175.
- 81 FORD ESCORT - 4-cyl., 4-spd., s/t, new eng., brakes, starter, 56 mo., Die Hard battery, rebuilt carb., \$900. Steve, Ext. 4617.
- CAP - for small '84 Ford pickup, 7' bed, excel. cond., \$85. 369-2838 or 744-9802.

(continued on page 4)

Special Event Slated for October

Where can you go for a gala evening of fashion, dining, dancing and theater — all for only \$27.50 per person? You can come to the next BERA Special Event, on Saturday, October 21, in Berkner Hall.

Ticket sales start today, from 11

a.m. to 1 p.m. in the Cafeteria. Only 350 tickets are available, and they will be sold on a first-come, first-served basis, Thursdays and Fridays at the Cafeteria, until they are gone.

Your ticket to this Special Event entitles you to enjoy the following:

- **Fashion show** — 6:30 p.m., featuring the fashions of Sophisticated Ladies, a Patchogue shop.
- **Dinner** — 7:30 p.m., your choice of chicken cordon bleu or prime rib.
- **Theater** — 9 p.m., musical numbers, skits and variety acts performed by BNL's Theater Group and others.
- **Viennese table** — and coffee or tea, after the theater.
- **Dancing** — until 2 a.m., to an "oldies" band in the Cafeteria or deejay-played music in Rooms A & B.

The festivities will be accompanied by a cash bar.

For more information, contact BERA Special Events Committee chair Rosalie Piccione, Ext. 3160, or member Betty Pergan, Ext. 2937

Arrivals & Departures

Arrivals

- Edward J. Gregory Reactor
- Thomas F. Joos Reactor
- Robert J. Priest Reactor
- Gary J. Weiner NSLS

Departures

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

- Zuriel Rowan Plant Eng.
- Juanita L. Urban DAS

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



BROOKHAVEN BULLETIN

Published weekly by the Public Affairs Office for the employees of BROOKHAVEN NATIONAL LABORATORY

ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor
LIZ SEUBERT, Reporter

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(516)282-2345

Classified Ads (cont'd)

- 81 MUSTANG - 4-spd., sunroof, radio/cass., p/s, p/b, a/c, new exhaust, clutch & tires, best offer. 289-0532 after 3 p.m.
- 80 HONDA ACCORD - 5-spd., a/c, 4-speaker stereo, new tires & brakes, super clean, \$1,700. Joe, Ext. 5131.
- 80 BLAZER - 70k orig. mi., new paint, no rust, p/s, p/b, a/c, a/t, 350 CID, centerline wheels, excel. cond., 289-4732.
- 80 BUICK SKYLARK - 81k mi., 4-dr., loaded, looks good, runs very well, asking \$1,700. Ramesh, Ext. 4410/7684 or 924-0443.
- 80 DATSUN 210 - new clutch, head, brakes, tires, good compression, excel. mechanically, Clarion am/fm cass., best offer. Mike, 924-2865.
- 80 HONDA CX500 - custom, water-cooled, 6,800 mi., \$950. Chris, 654-8046.
- 79 BLAZER - 5" lift kit, p/w, p/s, new engine & a/t, Mick Thompson tires, 35x14.5, 3k mi., brakes, exh., quarter panels. Pete, 821-9547.
- 79 CHEVY CAPRICE - a/t, p/s, p/b, a/c, 86k mi., good cond., runs well, \$1,200. Ohta, Ext. 4392 or 3098.
- 78 FORD LTD STA. WAGON - 351 V-8, p/s, p/b, a/t, new hoses, belts & fuel pump. Bill, pager 0445.
- 78 NISSAN - air flow box for fuel injection, paid \$450, will neg. Janet, Ext. 2345.
- 78 PINTO SQUIRE WAGON - V-6, p/s, p/b, a/t, a/c, am/fm stereo, 67k mi., excel. cond., \$950. Joe, Ext. 2302.
- 78 TOYOTA COROLLA - s/t, am/fm cass., very good running cond., many new parts, must sell, asking \$750. Antonia, Ext. 3369.
- 77 CADILLAC D'ELEGANCE - sedan, 90k mi., good cond., \$2,500. 751-0461.
- 75 BUICK CENTURY - a/c, p/s, p/b, 140k mi., runs but needs work, \$300. Rich, Ext. 7528.
- TIRES - 4 Goodyear Wranglers on 6 lug rims; am/fm cass. stereo w/2 speakers; CB antenna, all mint. Dave, 385-2305.
- TIRES - 4 Sears, all-weather radials, 215-75R-15, excel., on Mopar wheels; 5 radials on Duster wheels, good cond. 289-8212.
- TIRE - new, 721 Firestone 235/75R15, Eldo rim, \$40. Ernie, 588-4987.
- SLIDE-ON CAMPER - 8', lightweight, good cond., \$300. Slim, Ext. 3084.
- SLIDE-ON CAMPER - 11 1/2', fully self-contained, shower, ref./freezer, stove, oven, heat, \$1,550. 929-5872 or 929-8876 after 6 p.m.
- 89 FORD/AMERICAN VAN CONVERSION - every conceivable luxury, under 7k mi., must be seen, \$19,000. Dick, Ext. 3273.
- 88 DODGE DAYTONA - 4-cyl., 5-spd., fuel injected, excel. cond., \$6,800. 281-2758.
- 87 MAZDA 323 LX - 4-dr., a/t, a/c, p/s, am/fm cass., sunroof, 5-yr. service contract, asking \$6,000 neg. Linda, Ext. 3147 or 924-1038.
- 87 FORD F250 - 4x4, a/t, a/c, am/fm, 16k mi., 33" tires, chrome rims, bedliner, vinyl bed cover, mint, \$12,500. 467-1117 days or 588-1233 eves.
- 86 YAMAHA RIVA 125Z SCOOTER - black, 1,500 mi., excel. cond., best offer. Peter, Ext. 3977.
- 86 FORD WESTERN WORKS 450XL - 68k mi., 4-spd., 2 split rear, fully loaded, 250-gal. diesel, \$22,000. Joseph, 563-8449.
- 86 CHEVY SPRINT - 2-dr., 5-spd., body damage, handyman's special, best offer over \$500. Joe, pager 0925 or 728-1859 eves.
- 86 FORD ESCORT - a/c, p/s, p/b, 36k mi. Ext. 2343 or 563-2889 after 6 p.m.
- 85 NISSAN 300ZX 2+2 - 41k warranted to 55k mi., digital, T-top, excel. cond., \$10,000 neg. Sue, Ext. 7235 or 395-3529 or Peter, 281-7035.
- 85 CHRYSLER LE BARON - 5-dr., 5-spd., 45k mi., i/m cass., mint cond., \$6,500; 85 Olds Cutlass Supreme, 72k mi., \$5,000. Chris, Ext. 4028.
- 84 OLDS CIERA - 4-cyl., 4-dr. sedan, loaded, 50k mi., excel. cond., asking \$3,200. Tom, Ext. 3531 or 632-2245 eves.
- 84 HONDA AERO 125 MOTOR SCOOTER - 8k mi., new battery, extras, reliable, good cond., \$500 firm. Vita, 277-0464 or Frank, Ext. 7519.
- 83 BLAZER - new 305 HO, rebuilt 350 trans. w/kit, new brakes, tires, a/c, p/s, p/b, a/c, excel. cond. 475-6354.
- 83 PONTIAC 6000 LE - orig. owner, V-6, a/t, loaded w/options, 90k mi., showroom cond., \$3,400. Richie, Ext. 2175 or 734-7342.
- 83 DODGE 400 - white w/blue velour, 4-cyl., 80k mi., excel. cond., \$2,400. 698-9603.
- 83 SENTRA WAGON - tan, a/t, am/fm, 75k mi., \$1,800. Vicki, Ext. 5205 or 744-8765 eves.
- 82 BUICK CENTURY - good body, extra engine, all or part out, \$1,000. Ext. 4547 or 878-1178.
- 82 CHEVY CITATION - 2-dr. sedan, 4-spd., p/s, am/fm cass., 82k mi., good cond., \$1,000. Pierre, Ext. 2963 or 3097 eves.
- 82 CHEVY MONTE CARLO - blue, 2-dr., good running cond., asking \$1,500. Jerry, 281-5802 between 6-7 p.m.
- 82 DODGE ARIES - 4-dr., a/c, p/s, p/b, am/fm, \$975. Ext. 3706.
- 81 PLYMOUTH RELIANT WAGON - 4-cyl., a/t, p/s, p/b, good cond., \$950. Dick, Ext. 3273.
- 80 MONZA - h/b, 4-cyl., a/t, clean, 62k mi. Charlie, Ext. 4964.
- 80 OLDSMOBILE CUTLASS - a/t, a/c, rebuilt trans., good cond., \$1,400. Ext. 4985 or 331-8459.
- 80 CHEVY CHEVETTE - \$300 or best offer; '80 Olds Toronado, white/burgundy, fully loaded, \$1,100 or best offer. 399-6390.
- 79 CHEVY MONZA - V-6, 4-spd., runs well, \$500, can be seen eves. or by appointment. 821-9241.
- 79 CHEVROLET MONTE CARLO - V-6, 3.8L 4bbl carb., rebuilt engine, tranny, new shocks, brakes, runs well \$2,150. Ext. 4965 or 475-8242.
- 79 FORD ECONOLINE VAN 100 - 6-cyl., m a/t, blue, excel. work truck, \$700. 698-9603.
- 79 HONDA CIVIC - good transportation, new tires, brakes, water pump, timing belt, standard shift, 95k mi., \$500. Bill, Ext. 3369 or 929-6442.
- 79 TERRY TRAVEL TRAILER - 24', new radial tires, a/c, all appliances, \$4,250. Russ, Ext. 2355.
- 79 BUICK LESABRE - 8-cyl., a/t, 2-dr. sedan, landau top, clean, asking \$800. 654-4661 eves.
- 78 NOVA - runs, needs minor repair, new brakes, radiator, 75k mi., a/c, a/t, 6-cyl., \$500. MaryAnn, Ext. 5124.
- 77 FORD PINTO - 4-cyl., p/s, p/b, a/t, 86k mi., recent tune-up, good tires, runs well, \$500 neg. Tim, 281-7873.
- 76 CHEVY MALIBU - new tires, runs well, price negotiable. Ext. 7163 or 924-6736 eves.
- 76 FORD CLUB WAGON VAN E150 - 351W, p/s, p/b, trailering pkg., \$1,500. 475-4856.
- 75 TRIUMPH TRIDENT MOTORCYCLE - 750cc, classic, looks good, runs well, \$800 firm. 698-6436 after 4:30 p.m.
- 69 VOLVO CLASSIC 1800S - dual carb., 4-spd., w/o.d., good cond., \$2,500. 924-6619.
- 69 CHEVY C-10 PICKUP - 307 V-8, a/t, w/cap, \$600. 732-6838.
- 66 FORD MUSTANG COUPE - good cond. in & out, runs well. John B., Ext. 4028.
- 66 SAAB - 3-cyl., 2-stroke sedan, runs, needs work, many parts & manual, make offer. Jay, 286-3679.
- 62 SCOTTY TRAVEL TRAILER - 13', sleeps 5, good cond., \$350. 395-1554 eves. only.
- TIRES - wheels, two for Dodge, LR78-15, \$20. E. Adams, Ext. 5221.
- TIRES - 1 yr. old, low mi., still mounted, five 175-70R-13, Goodyear Arrivas, fits Datsun, all for \$125. Joe, Ext. 4500 or pager 0942.
- HONDA CX MOTORCYCLE - 500cc, good cond., water-cooled shaft drive, \$495. Mike D., Ext. 2022 or 399-4480.
- TIRE - mounted & balanced, GM rim, P205/70R15, excel. tread, \$15. Ext. 3312.
- ### Boats & Marine Supplies
- 29' ULRICHSON - wood, F.B., FWC, sleeps 5, elec. head, range/oven, refrig., many extras, excel. cond., must see, asking \$4,500. Jack, 732-2754.
- 22' LAUNCH - cedar on oak, large cockpit, 4-cyl., Atomic Four, 250 hrs., excel. cond., \$2,990. 286-0682.
- 22' TYLERCRAFT SLOOP - centerboard, 2 suits of sails & furling jib, 6-h.p. Evinrude, \$2,300 neg. Sue, Ext. 7235 or 395-3529 or Pete, 281-7035.
- 19' BOWRIDER CRUISER - 1972, w/1976 115-h.p. Johnson, Coast Guard pkg., trailer w/electric winch, \$3,500. Frank, Ext. 2314 or 567-5131.
- 19' BAYLINER - w/trailer, 1986, cuddy, 125-h.p. o.b., electric winch. Ext. 2434 or 395-1387.
- 18' FIBERFORM SPORT BOAT - 1978, rebuilt 120 h.p. OMC I/O, new canvas & tilt motor, trailer, D/F, swim plat., more, all excel. \$3,995. 567-1358.
- 18' FIBERFORM - 1977, runabout, 120 h.p. OMC I/O, good cond., new top, trailer, \$2,500. Ext. 4547 or 878-1178.
- 17' ARISTOCRAFT - fiberglass, 60-h.p. Merc Cruiser I/O, recently rebuilt, w/trailer, ready to go, \$1,575. Mark, Ext. 2599.
- 14' GRUMMAN - alum., 15-h.p. Johnson, w/trailer, extras, excel. cond., \$1,500. JoAnn, 689-7963.
- 12' ACHILLES INFLATABLE - 1988, 5-person, \$1,200; 15-h.p. Evinrude, 1988, \$900; Shoreline trailer, 1988, \$175. Jim, Ext. 7971 or 286-1358.
- 12' COLEMAN - w/ 6-h.p. Evinrude, new water pump & prop., \$250; 12' Hunter, fiberglass, w/1978 7 1/2-h.p. Mercury, asking \$500. Tony, 732-9199.
- OUTBOARD MOTOR - 1985, 110-h.p. Johnson, new powerhead in 1988, power T/T oil injection, s/s prop., excel. cond., \$2,500. 589-3072.
- OUTBOARD MOTOR - Suzuki, 25-h.p., long shaft, electric start, excel. cond., \$850. 728-1931 after 4 p.m.
- ### Furnishings & Appliances
- ANTIQUES - hall mirror, 35"x20", gold leaf, beveled glass, \$225; hope chest, \$85. 821-0695.
- TABLE - & 4 chairs for kitchen, \$30. Ext. 2475.
- WASHER & DRYER - Speed Queen, apartment size, 3 yrs. old, excel. cond., \$200. Ext. 3192.
- DESK - commercial countertop incl., 64"x72", L-shape, 49 1/2" high, formica. orig. \$2,000, best offer. John R. 472-0430.
- DINING ROOM SET - 6 chairs, hutch, Templeton, excel. cond., \$1,600; couch & chair, flower print, good cond., \$300. JoAnn, Ext. 4120 or 689-7963.
- COFFEE SERVER - white porcelain, \$12; cake plate, black & white, Oriental, \$10; new leather pocketbook, \$15; clock, \$20. Kathy, 744-2203.
- REFRIGERATOR - Sanyo, 2.7 cu. ft., w/freezer, excel. cond. Tony. 269-9510 eves.
- SOFA BED - love-seat size Stearns & Foster. 821-0865.
- STOVE/REFRIGERATOR/SINK UNIT - apt. size, 2 burners, 6 mos. old, \$500. Tillie, 286-2093.
- DESK - old, wooden, painted, needs some work, large, \$50. John, Ext. 3292.
- AIR CONDITIONER - 5,200 Btu, window unit, needs charge, \$25; dehumidifier, works, needs fan, \$15. Victor, Ext. 2395.
- MATTRESS - & box spring, \$40. Joann, Ext. 2238.
- MATTRESS - & box spring, like new, orig. \$400, price neg. Saraf, Ext. 7163 or 924-6736 eves.
- SOFA - & loveseat, contemporary, beige, 3 mos. old, \$650. Donna, Ext. 4103.
- FOOD PROCESSOR - Braun, works well, various disks, \$50. 744-4611 after 6 p.m.
- DISHES - stoneware, ovenproof, beige w/brown edges, elegant design by Edith Heath, service for 6, extras, \$35. 286-0295.
- WING CHAIR - country, blue, excel. cond., \$50; 8' couch, country, red, white & blue, excel. cond., \$75. 499-7095.
- TABLE - w/6 chairs, oak, refinished, antique, 48" round, \$475. E. Adams, Ext. 5221.
- STUDENT DESK - w/7 drawers, \$25. Aoki, Ext. 3748 or 345-3271.
- ### Tools, House & Garden
- QUARTZ HEATER - personal, saves energy, new, excel. cond., \$40. Miriam, Ext. 4898.
- LAWN VAC - Billy Goat, 5 h.p., used 2 seasons, excel. cond., asking \$400. Mitch, Ext. 7713.
- BARBEQUE - propane, needs cleaning, \$25; Japanese Pachinko pinball machine, \$25. Mike D., Ext. 2022.
- ALUMINUM PIPE - 18, 2"x20", 12 rubber gaskets, 14 sprinklers & rises, 3 ells, 1 tee, 2 plugs. 475-4856.
- AIR COMPRESSOR - 1/2 h.p., tank, hose, 1/4 h.p. motor included, etc., \$35. Ext. 4240 or 286-0295.
- SOLAR POOL COVER - for 12'x18' oval pool, \$20. Pete, Ext. 4100.
- ### Sports, Hobbies & Pets
- BMX BIKE - 20", chrome frame, coaster & hand brakes, excel. cond., \$65. Pete, 286-2093.
- TAP SHOES - Capezio, girl's preschool size 7, used only once, \$12. Ady, Ext. 4531 or 331-3785.
- VIOLINS - 3/4-size, German make, \$270; 1/2-size Suzuki, \$100; both good cond. Peter, Ext. 7687 or 744-1112.
- BICYCLE - Saint Tropez, 20", BMX, jelly seat, pads, hand brakes, like new, \$80. Bob, Ext. 5286 or Art, 298-9594.
- FISH TANK - 55 gallons, complete saltwater system, \$900 value, sell for \$350. Vito, Ext. 4547.
- FLUTE - Gemeinhardt, needs a few new pads & tune-up, best offer. Ext. 2267 or 395-6520.
- WEIGHT-LIFTING SET - steel, barbell/dumbbell set, w/bench, 130 lbs., \$100. Frank, Ext. 2314 or 567-5131.
- BICYCLE - man's, 10-speed, very good cond., light, \$120. Miriam, Ext. 4898.
- BICYCLE - Bianchi unisex, touring bike, 26", 12-speed, detachable wheels, new, hardly used, \$325. Ext. 4002 or 924-7658.
- STRINGING MACHINE - string your own tennis racquets, Omega, portable, orig. \$210, asking \$150. 589-0625.
- CAMERA - Chicon-Bellami, 35mm, compact, w/flash, like new, \$100; IBM model 12 typewriter, elec., new ribbon, just serviced, \$50. Ext. 4968.
- COMPOUND BOWS - Jennings T-Star Hunter, 29-31" draw, 50 lbs., spare wheels & cables, \$125; 2 lightweights, short draw. Joe, Ext. 5131.
- BASEBALL CARDS - buy or sell, Kevin Mitchell, Tony Gwynn, Tots, Rookie, other stars & Hall of Famers. Luke, 744-4611.
- TENNIS RACKET - Kennex Graphite w/cover, midsize, like new, orig. \$85, sell for \$40. Ext. 2050.
- GIUITAR - Madeira model A-12, 6 or 12 strings, 8 years old, excel. cond. Thomas, Ext. 2225.
- ### Audio, Video & Computers
- COMPUTER - Macintosh 512KE, extra drive, modem, printer, software, \$1,200 or best offer. Engin, Ext. 7534.
- COMPUTER - Macintosh, 2 disk drives, mouse, keyboard, 1 megabyte RAM, w/wo Imagerwriter. 289-8182.
- TELEPHONE ANSWERING MACHINE - Sanyo TAS 3000, w/remote, \$35. Ext. 3589.
- VCR - Panasonic PV1560, 4HD, HQ, remote, orig. \$419, almost new, \$250. Jie, Ext. 5511.
- MONITOR - monochrome, RCA plug, Tandy, \$50. John, Ext. 3292.
- DISK DRIVE - half-height, 360K for IBM PC-CT & compatible, brand-new, never used, will demonstrate. Willie, Ext. 4989.
- ### Miscellaneous
- TICKETS - to Reno, 2, Sept. 4, \$100/each. Russ, Ext. 2355.
- GOWN - informal wedding gown, gorgeous, white, size 8, also headpiece, \$250. Bob, Ext. 7238.
- WEDDING GOWN - beautiful, long-sleeve, ivory & satin, lace & pearls, never worn, still in storage, very elegant, size 5/6. 281-1378.
- FOREIGN STAMPS - animals, 55, \$10; rope hammock, new, \$10; flag, new, \$6; silver certificate, \$10. Kathy, 744-2203.
- ### Lost & Found
- FOUND - key, vicinity of field 3 on Aug. 10. Sue, Ext. 5156.
- LOST - wool cardigan, long, black, from Research Laboratory on or about Aug. 9. Pat, Ext. 3483.
- ### Free
- TAPE DECK - Pioneer, needs repair. Susan, Ext. 2184.
- KITTENS - 4, Lab born. Ext. 2332 or 2333.
- ### Car Pool
- BOHEMIA-OAKDALE-SAYVILLE - need 2 more drivers for car pool, also can meet at Exit 59 LI Expressway. Frank, Ext. 2314.
- PLAINVIEW - N. State Exit 37 or LIE Exit 45, easy off/on/park, have 3, need 1. Howard, Ext. 3766.
- ### Yard & Garage Sales
- BASEMENT SALE - electric contour bed, occasional chairs, dorm refrig., sewing machine in need of repair, more, call for appt. 929-4688.
- ### 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 - secluded, 2 bdrms., 2 full baths, furn., decks, hot tub, \$1,350/mo. Susan, Ext. 2888 or 286-0422 after 6 p.m.
- CENTER MORICHES - 2-bdrm. apt., upstairs, Main St., renovated, no pets, \$750/mo. + util. Ext. 4547 or 878-1178.
- CENTER MORICHES - 1-bdrm. apt., l/r, eik, w/w, skylights, 1 person, no pets, \$625/mo. incl. util., 1 mo. sec. 878-8064.
- LAKE PANAMOKA/RIDGE - 2-bdrm. ranch, l/r w/tp, eik, d/r, bsmt., w/d, priv. beach rights, 5 min. from Lab., avail. Sept 1st. 929-3407.
- FARMINGVILLE - 1-bdrm. furn. apt., l/r, full bath, kitch., for one person, nonsmoker, no pets, \$550 + sec., incl. utilities, cable, avail. 9/1. 736-3384 after 6 p.m.
- MASTIC BEACH - need housemate to share 3-bdrm. furn. house, w/absent tenant, 15 min. from Lab, \$550. Daniel, 281-4372.
- MEDFORD - 1-bdrm. apt., l/r, kitch., full bath, no pets, no children, nonsmoker preferred, \$650/mo. util. incl., one month's sec. 475-7250.
- MIDDLE ISLAND - share 2-bdrm. apt., 5 min. to Lab., w/female professional, \$450/mo. + 1/2 util., avail. Sept. 1 or Oct. 1. 751-8351.
- PORT JEFFERSON - Harbor Hills, furn. 3-bdrm. house, 3 baths, deck, priv. beach, new appl. nonsmokers, avail. 8/23/89-8/31/90. 473-3604.
- PORT JEFFERSON - 3 bdrms., l/r, eik, 1 bath no pets, avail. Oct., \$950/mo. + util. 862-7998.
- RONKONKOMA - Nob Hill, 2 bdrm. condo, all appl., w/w, patio, a/c, pool, tennis courts, clubhouse, avail. October, \$900/mo. refs. & sec. req. Ext. 4525 or 981-4696 after 6 p.m.
- SHIRLEY/SMITH POINT - 3-bdrm. ranch, kitch., l/r, fenced yard, family neighborhood, walk to beach & parks, 10 min. from Lab., no pets, avail. Sept. 1, \$915 + util. 399-6390.
- YAPHANK - 3-bdrm. condo, 2 baths, bsmt., all appl., w/w, pool, tennis, club house, no pets. 473-1732 eves.
- HILTON HEAD, SC - 2-bdrm. condo, 2 baths, sleeps 6, tennis, golf, beach, pool, Sept. & Oct. openings, \$425/wk. 689-5378.
- SPRING HILL, FL - summer rates on 2-bdrm. house till Dec. 1, West Coast near Weeki-Wachi & Tampa, lakes, golf, Gulf beaches, \$150/wk., \$300/mo. + util. Exit. 4530 or 261-2719.
- SHAWNEE/POCONOS - 2-bdrm. priv. villa, Jacuzzi, sleeps 6, golf, tennis, rafting, in/outdoor pools, avail. Aug. 27-Sept 3. Shimon, 7038.
- ### For Sale
- EAST MARION - 3-bdrm. ranch, att. gar., full bsmt., ca/c, oak floors, 1/3 acre, walk to beach and golf, \$159,000. Walter, 477-1980.
- HOLBROOK - 3-bdrm. townhouse/condo, 5 appl., w/w, 1 1/2 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, 1/4 acre, 1 1/2 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.
- MIDDLE ISLAND - Coventry Manor, 3-bdrm. townhouse, 2 baths, kit., l/r, d/r, laundry rm., 5 app., cac, pool, tennis, encl. patio, \$106,000. Rosalie, Ext. 3160 or 289-5704 after 5:30 p.m.
- 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.
- PORT JEFFERSON STATION - 3-bdrm. Colonial, l/r, d/r, den, eik, 1 1/2 baths, 3 yrs. old, gar., vinyl siding, fence, ig sprinklers, gas util., sewers, priced to sell. Ext. 4985 or 331-8459.
- ROCKY POINT - 3-bdrm. high ranch, l/r w/brick fp, cath. ceiling, d/r, large kit., 2 baths, bsmt., cac, deck, 2-car gar. w/elec. doors, beach rights, 0.34 acre, \$162,900. Kochman, 744-1057.
- WEST SAYVILLE - 4-bdrm. high ranch, 8 rms., eik, l/r, d/r, 1 1/2 baths, 2-car gar., a/c, 1/4 acre, Sayville SD, avail. immed., \$158,000. Ext. 3452 or 499-8816.
- SELDEN - high ranch, 3-bdrms. upstairs w/eik, l/r, d/r, deck, legal one bdrm. apt. downstairs w/priv. ent., \$144,500. Ext. 5177 or 698-6120.
- E. SETAUKET - 4-bdrm. Colonial, l/r, d/r, fam. rm w/tp, eik, 1 1/2 baths, full bsmt., 2-car gar., a/3 pool, 0.42 acre, 3VSD. Cheng, Ext. 2958 or 473-6429.
- SHIRLEY - 3 bdrms., 1 bath, l/r, eik, new oil furnace, hot water heater, ceiling fans, coal stove fenced yard, conv. to Lab/shopping, low taxes. \$103,000. 399-3228.
- SHOREHAM - Soundview Acres, 3-bdrm. contemp. ranch, 2 baths, l/r w/cent. brick fp, bsmt., 2 car gar., deck, sprinklers, near priv. beach, \$199,000. M.A. Bender, Ext. 3570 or 744-9746.
- SOUTHAMPTON - Wildwood area, custom-built, 3-4 bdrms., 2 baths, large l/r, den, 2 levels, pie-shaped lot, large priv. yard, \$138,000 neg. 727-0499.
- STUART, FL - 1-bdrm. condo, 1 1/2 baths, 1st floor, furn., sleeps 6, near pool, shopping, fishing, res. owner gets \$25,000 tax exemp., asking \$42,000. Ken Brunini, 482-2643 or 212-354-1372.
- ST. CROIX, U.S., VI - 1/2 acre, undeveloped property, mountain view, cleared, ready to build, \$75,000; studio condo, water view, furn., new paint, floors, newly redecorated, must see, asking \$52,000. Ext. 2816 or 878-0480, leave message.
- ### Wanted
- VCR - any model VHS in good cond., inexpensive. Paul, Ext. 7697 or 689-2829.
- WET SAW - for cutting bricks, buy or rent. Tony, 698-9274.
- ENGINE - Ford 351W, good cond. Mark, Ext. 2599 or 261-7250 eves.
- STUDIO APT. - to rent for 1-2 years min. within 10 miles from Lab. Ext. 3583.
- BICYCLE HELMET - Chris, Ext. 4028.
- TRAINS - Lionel & American Flyer & accessories, top dollar paid. Carole, Ext. 7100.
- BABY SITTER - for a 20-mo.-old from 8:30-5:00 p.m., 5 days a week. Ext. 4729.
- HOUSE TO SIT - free, experienced, reliable, any period after Aug. 17. Ext. 2412.
- BABY SITTER - for a 4-mo.-old boy during the day, high-school student acceptable. Ext. 4379.
- HOME - for German Shepherd/Lab mix, good w/children, all shots & spayed. Rich, Ext. 2043.
- HOUSEMATE - Ridge, 5 min. to Lab., avail. Sept. 1, possibly sooner, \$250/mo. + 1/2 util. Mike, 924-2865.
- Classified Ad Policy Deadline is 4:30 p.m. Friday for publication Friday of the next week.