BROOKHAVEN BULLETIN
Vol. 40 - No. 24 June 13, 1986
BROOKHAVEN NATIONAL LABORATORY

Working Toward a Theory of Aging

The biology of aging is still in its infancy. But scientists are working to establish aging as an accepted field of study. On June 3-6, Richard Setlow, Associate Director for Life Sciences, participated in a symposium on "Modern Biological Theories of Aging," in New York. Sponsored by the National Institute on Aging, the symposium evaluated molecular theories about why we age.

From an evolutionary viewpoint, we do not know why we live into old age. Setlow observed that, in most species, maximum age is determined by the ability to reproduce. With recent improvements in medicine and sanitation, more people are living longer than they had in the past. We have not lengthened man's maximum life span, but have increased the number of people who reach old age.

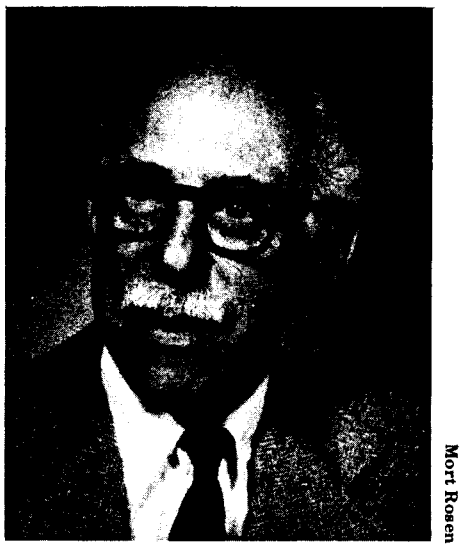
"One of the goals of aging research is to improve the quality of life," Setlow remarked. Understanding the mechanisms of aging is essential toward aching that goal. "We will not find one gene responsible for aging. We have to understand the biology of how cells work," he said. Researchers have made some progress, however. They have found mutations in nematodes, small parasitic worms, that enable them to live past their normal life span. Once they isolate the mutations, they can perform genetic manipulations upon those genes.

Setlow reported that evidence from the symposium discredits the error-catastrophe theory of aging. The theory claimed that errors in the DNA coding sequences accumulate as we grow older until some "catastrophe" occurs. An organ like the liver may lose 70% of its potential function, before we become seriously ill. According to the theory, the cellular events that can lead to a catastrophe begin when errors in the DNA remain uncorrected. The theory maintains that those errors are directly responsible for the production of faulty proteins which may interfere with the cell's or organ's ability to function normally. The theory has been temporarily rejected because researchers could not detect the defective proteins they expected to find.

Setlow and his colleagues have already found evidence for another theory, which relates the efficiency of DNA repair to aging. To maintain the integrity of their DNA, organisms have evolved repair mechanisms which can correct molecular damage. Special enzymes which read the code of bases in DNA can detect and correct some deviations from its original sequence. Without some form of error correction, cells would read incorrect DNA sequences and consequently produce altered proteins which are useless.

As we grow older, our ability to correct errors in our DNA becomes reduced. "What we do not know," Setlow said, "is whether aging occurs because DNA repair mechanisms break down or whether those mechanisms slow down because we get older." He has observed that man has a more efficient DNA repair mechanism than most mammals and lives longer than they.

Although the symposium concentrated on the biology of aging, a press conference was held on the last day to inform the media about recent advances in the field of gerontology and to raise public awareness of issues concerning aging. Florida Congressman Claude Pepper led the drive to attain increased funding for research on aging. But Setlow warned against haphazardly allocating funds for aging research. "We cannot simply pour money into research as was done during the war on cancer in the 1970's. What we need is a long-term, stable influx of money which will advance research and attract young investigators to the field," he said.


Mort Rosen
Richard Setlow

The symposium was not for research scientists only. Physicians from Mount Sinai Medical Center, where the meetings were held, attended the sessions for credit in continuing medical education. In the evenings, two lectures on aging were held in the Museum of Natural History for the general public.

—Howard Rubin

(Rubin is a summer student in the Public Relations Office.)

Workplace Safety

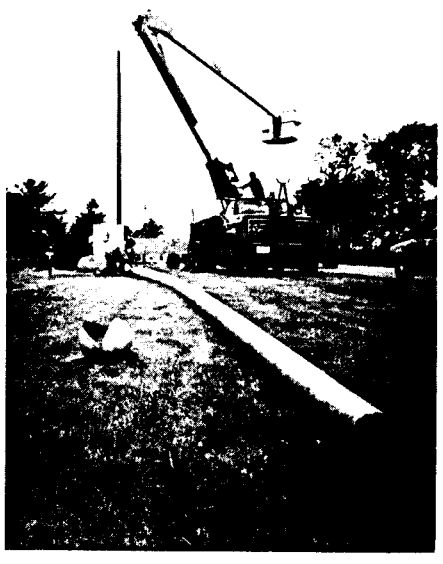
National Safety in the Workplace Week, June 15 to 21, is being observed at the Lab to renew our commitment to having safe and healthful working environments for employees and guests.

During the year, it is BNL's policy to take all reasonable precautions to protect the health and safety of those working here. In observation of National Safety in the Workplace Week, the Safety & Environmental Protection (S&EP) Division is again urging all supervisors to review safety in their work areas, and all employees to follow safety procedures and to properly use any safety equipment they have been issued. Employees are also reminded that they may bring to the attention of their supervisors any work-related safety concerns that they may have at any time.

Concerning safety, a supervisor will consult with the safety coordinator within the department or division. There are 25 safety coordinators at the Lab, who have been appointed by the department chairmen or division heads to represent them in all safety matters. The safety coordinators meet regularly with the S&EP staff to discuss safety concerns and review safety standards. And they consult with their respective safety representatives on specific problems.

The eight safety representatives are S&EP staffers whose full-time job it is to assist the safety coordinators in implementing the BNL Safety Manual in their assigned departments and divisions. The manual is a comprehensive notebook covering general safety, industrial hygiene, radiation safety, fire protection, cryogenic safety, environmental protection and safety training. It meets the safety requirements of the Department of Energy, the Occupational Safety & Health Administration and the American National Standards Institute.

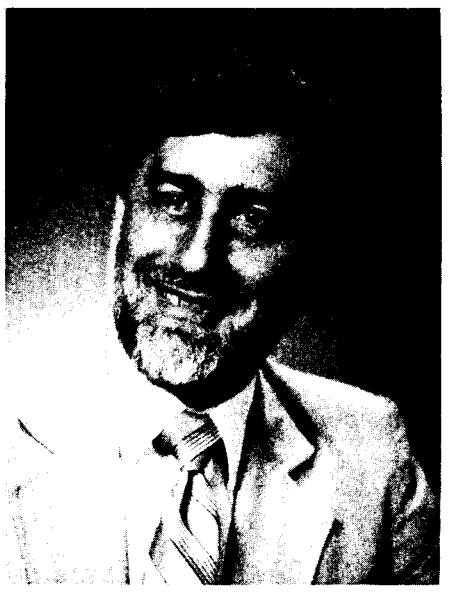
Says Herb Schulman, who coordinates the preparation of the BNL Safety Manual, "We want to use National Safety in the Workplace Week to make all employees aware of the strong workplace safety and health programs in place at the Lab. And we are encouraging everyone to bring any potentially unsafe conditions to the attention of his or her supervisor. Help us make your job as safe as possible."


Mort Rosen

The aluminum flagstaff in front of the Brookhaven Center was just three years short of its 50th birthday when it snapped at 4:30 p.m. on Thursday last week. It was so bent that it was no longer usable and had to be retired. According to Army records, the 60-foot pole was in service at the 1939 World's Fair and donated to Camp Upton when the fair was dismantled. It was received here after the war, on August 20, 1946. Twenty-two hours after the mast broke, Plant Engineering was able to come up with a temporary solution. They installed a 40-foot wooden utility pole, six feet of it underground, painted it aluminum, and the flag is flying once more. Plans are under way to find a permanent replacement.

BNL Lecture: Swords Into Ploughshares

Progress in molecular genetics has been rapid. Just 42 years ago, O.T. Avery showed that the heredity of the bacterium *Streptococcus pneumoniae* could be transformed by DNA, thereby proving that DNA was the substance of the genes. Soon after that Watson and Crick elucidated the general structure of DNA. Less than 20 years ago, restriction enzymes were discovered.


Mort Rosen
Sanford Lacks

In the next Brookhaven Lecture, Senior Geneticist Sanford Lacks will discuss the genetic basis of restriction enzymes, their mode of regulation, and their function in the bacteria and in biotechnology. His lecture, "Bacterial Weapons: Tools of Biotechnology," will be given on Wednesday, June 18 at 4:30 p.m.

Lacks explains: "By their ability to recognize and act at specific sequences in DNA, these enzymes have revolutionized genetic analysis and biotechnology in a manner unforeseen before their discovery. They are the tools for the cloning of genes and for the determination of their detailed DNA structure. Genetic engineering is essentially the human use of restriction enzymes. For the bacteria in which they are found, restriction enzymes serve as defensive weapons in their struggle against attack by viruses."

Lacks received his Ph.D. in genetics and biochemistry from The Rockefeller Institute (now Rockefeller University), in 1960. He was appointed an instructor at Harvard, and the following year opted to begin a career in

(Continued on page 2)

News Flash!

The design current of 1 ampere (A) was achieved for the first time in the vacuum ultraviolet (VUV) ring at the National Synchrotron Light Source on Friday, June 6, at 6 a.m., by Operator John Damone. The VUV beam at 1 A had an energy of 750 million electron volts, with a one-hour lifetime.

Prior to the shutdown, the VUV storage ring had a maximum current of 800 milliamps (mA) and usually operated at 600 mA, with a 50 minute beam lifetime. Now the ring is routinely operating at 800-850 mA and the beam lifetime is one hour at this current.

The design current was achieved following three days of studies and fine tuning of the ring's main components. During a shutdown from January until March, the injection, radio frequency and feedback systems, power supplies and beam orbit were all improved, which permitted 1 A to be reached.

According to Physicist Gaetano Vignola, VUV ring manager, with more fine tuning and study time, the machine will soon be operating routinely at 1 A. Says Vignola, "Achieving the design current was possible earlier, but we had to balance between improving the ring's performance and satisfying our users need for beam."

Blood Drive: A Hot Ticket

Box Office: At the check-in desk, volunteers keep track of appointments. The next BNL Blood Drive, which has been coordinated by Susan Foster, will be held on Wednesday, June 25, and on Thursday, June 26, in the gymnasium between 10 a.m. and 3 p.m. People with questions can contact their blood captains or call the Blood Program Hotline at Ext. 5126. Return those donor cards now before we're sold out. Anyone can give: friends, relatives, visitors, students, all are welcome.

Stage Crew: At the second station, North Fork volunteers from Southold will take your medical history to prepare you for the big performance, a service they have been providing for 10 years. Remember, needles are used only once and the equipment is sterile. There is no chance of contracting any disease from giving blood.

—photos by Horton

Rehearsal: A trained nurse takes your temperature, measures your blood pressure and pulse. The nurse also tests a drop of blood for its iron content. Get ready: The curtain's about to rise.

The Performance: You are the star now! You will be helping The BNL Blood Drive reach its goal of 600 pints. You will help save lives during the July 4 weekend when the demand for blood is high.

Bravo! You did it. Now you can relax and enjoy some refreshments. You are a veteran now. Your biggest fans are the people whose lives you helped save.

Lecture (Cont'd)

research at BNL's Biology Department. Since that time his principal investigations have included the mechanism of genetic transformation in *Streptococcus pneumoniae* and an analysis of the unusual restriction enzyme systems found in this species.

All those interested in getting together after the lecture are invited to go with the lecturer to a restaurant off site. If you want to be part of this group, call George Rabinowitz, Ext. 7637.

Equipment Demo

Various 3M products will be displayed at a product show on June 17 from 10 a.m. to 2 p.m. in Berkner Hall. These products will include plain paper microfilm reader printers, office, electrical and audio-visual items, engineering microfilm systems, magnetic media and building services.

Patent Awarded

U.S. Patent #4,559,096 was issued to **Lewis Friedman** and **Robert J. Buehler**, both in Chemistry; **Michael W. Matthew**, a former BNL employee; and **Myron Ledbetter**, Biology, for developing a method of precisely modifying predetermined surface layers of a workpiece by cluster ion impact. Their method, without requiring any chemical etching, is more controlled and efficient than previous methods.

The invention works by using cluster ions in various ways: to remove or compress selected areas of such layers, enlarge the grain size of the crystalline structure of such layers, and erode or vaporize areas of an outer surface layer of a workpiece.

The cluster ions can be formed in sizes ranging from 25 to 10^6 atoms and accelerated to a critical velocity to impact a selected area of a workpiece, at a preselected controlled rate.

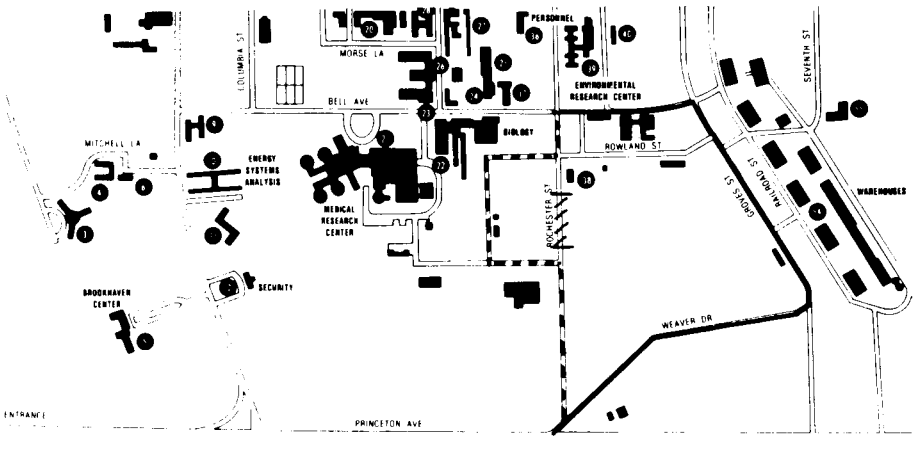
WIS Cocktail Party

The seventh annual cocktail party of Brookhaven Women in Science will be held on the patio of the Brookhaven Center on Tuesday, June 24, from 5-8 p.m. Hot and cold hors d'oeuvres will be served, and there will be a cash bar.

The party is open to non-members as well as WIS members. Reservations are requested and may be made by sending a check for $5 per person, payable to Brookhaven WIS, to Caroline Kramer, Bldg. 475, before Tuesday, June 17. Please include a note with your name and that of the guest you are bringing.

On Site

Rochester Street, from the service station (No. 38 on the map) south, will be closed for two weeks, beginning next week. A steam main will be put across the street, as part of an on-going construction project to expand and improve the Lab's steam heat distribution system. During the closing, the service station will still be accessible, but traffic must be rerouted through the area. Local traffic to Biology, Bldg. 463, and to the machine shop in Bldg. 479 will be detoured to South Pennsylvania Street (shown on map as a dotted line). All other traffic will be routed to Weaver Drive and Grove Street, past the warehouses (solid line). Detour instructions will be posted in the area. For more information, call Ed Murphy, Ext. 3466.



T-Shirt Time

Your summer at Brookhaven and the 100th birthday of the Statue of Liberty will be forever linked in your mind when you wear this T-shirt. "Brookhaven National Laboratory—Summer 1986" T-shirts will be made available to employees, students and guests for only $5 including tax. These white with blue print T-shirts are 50% cotton and 50% polyester. They are available in unisex adult sizes: small (34-36), medium (38-40), large (42-44), extra-large (46-48); and unisex children's sizes: small (6-8), medium (10-12), and large (14-16). Each order should be accompanied by cash or a money order made payable to "Renee Flack—T-shirts '86". No personal checks please. Orders and payments can be mailed or brought to Renee Flack, Affirmative Action Office, Bldg. 460, (Ext. 3316), on or before July 11. Allow two weeks for delivery.

Golf

The third tournament of the BGA season will be held on Wednesday, June 25, at the Swan Lake Golf Club in Manorville. Tee times will begin at noon and may be obtained by contacting Marshall Elzinga, Ext. 2364, Bldg. 463.

Entry fees are $1 for BGA members and $2 for non-members. The deadline for signing up is Friday, June 20. Greens fees are $10. The tournament will be a bogey competition, with gross and net winners by flight.

Forty-seven people played in the tournament at Bergen Point last week. Low gross winners were Steve Heald (82), Joe Roecklein (94) and Robert Jones (104) in flights A, B and C, respectively. Winners for low net were Arthur Dick (72) in A, John Hildenbrand (73) in B and Bill Cahill (73) in C. Arthur Dick was closest to the pin at #11, and Steve Heald had the longest drive on #12.

Tennis

Tennis Fun Day

All BNL employees, guests and spouses are invited to participate in a tennis tournament on Saturday, June 28, starting at 9 a.m. There will be no fee, and refreshments will be available. Please bring a can of tennis balls. Players should register before the tournament at the BERA Sales Office (9 a.m. to 1 p.m. only) at Berkner Hall. For additional information, call Ext. 4124 or 3822. The rain date is Sunday, June 29.

Tennis Ladder

Every summer, the Tennis Committee runs a tennis ladder, open to all Laboratory employees. The committee encourages all players to compete in this summer's ladder, which will begin June 23. Sign-up sheets and ladder rules are now posted at the BERA Sales Office. Player rankings will be posted by Friday, June 20, and will be in order of 1985 end-of-season ranking, then in order of sign-up. Players will be allowed one free challenge until July 11. Thereafter, the posted rules will apply.

The ladder will be run this summer by Tennis Committee member George Oldham. Other members of the committee are Nick Combatti, Eena-Mai Franz, Frank Kito, Marilyn McKeown, Ken Perkins, Niels Schumburg, Steve Shapiro, Paul Valli and Gail Williams (chairman).

Annual Tournament

The tournament will get under way on Saturday, July 19, and players can sign up at the BERA Sales Office beginning June 20. Further details will be given in a later issue of the Bulletin. All players are reminded that tournament play takes precedence the weekends of July 19 and July 26.

Reminder

Sign up for court use is in effect. Rules for court use are posted at courtside and at the BERA Sales Office.

Note

It is against Laboratory policy for anyone to use Lab facilities for profit. This includes use of the tennis courts for conducting paid, private lessons.

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Aerobic Dance

The Aerobic Dance Club will hold a summer session of ten stretch classes on Monday afternoons, from 5:15 to 6:15 p.m. Instructor Pat Campbell will begin the classes on June 16, in the Seminar Lounge of Bldg. 510, Physics. The fee for the ten-week session is $30, payable at the first class. No aerobic dance classes are scheduled for the summer. For more information, call Anita Cohen, Ext. 5054.

Softball

League I
Week of June 2
Moles 12 — SMF 8
Blue Jays 15 — Cool 'n Gang 6
Six Pax 14 — Ravens 13

League II
Medical 11 — Lights Out 6
Scram 20 — Cutting Edge 10

League III
Septembers 26 — Farm Team 12
Snakebites 17 — Source 4
Turkeys 5 — Kidz-R-Us 2

League IV
Underalls 13 — Spacekadets 9
Foul-Ups 10 — Sandboxers 9
Hit 'n Run 18 — Mudville Sluggers 7
No Feedback 19 — Simply Awesome 18

Arrivals & Departures

Arrivals

Robert F. Benenati ... Nuclear Energy
Doan J. Hansen ..... S&EP
David Zinger ..... Biology

Departures

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

Kelby Chan ..... NSLS
Walter Chornoma ..... Plant Eng.
Richard K. Perline .... Nuclear Energy
Joseph W. Carini ..... Plant Eng.

Note to Diners

The cafeteria will be closed on Saturday, June 14. On that day, snack bar service will be available from 9 a.m. to 2 p.m. at the Brookhaven Center.

Cafeteria Menu

Week of June 16

Monday, June 16

Cream of broccoli soup	(cup)	.65
	(bowl)	.85
Marinated chicken breast teriyaki w/ 1 veg.		2.45
Fried fish & chips w/ 1 veg.		2.45
Fresh vegetable plate (lite weight)		2.25
Hot Deli: Ham garden club		2.45

Tuesday, June 17

Southern beef vegetable soup	(cup)	.65
	(bowl)	.85
Swiss steak jardiniere w/ 1 veg.		2.45
Stuffed peppers w/ 1 veg.		2.45
Egg salad & cottage cheese plate (lite weight)		2.25
Hot Deli: Turkey	(bread)	2.35
	(roll)	2.50

Wednesday, June 18

Cream of chunky vegetable soup	(cup)	.65
	(bowl)	.85
Braised liver & onions w/ 1 veg. (lite weight)		2.45
Spaghetti & meat sauce w/ French bread (All you can eat, no take-outs)		2.95
Hot Deli: Fresh ham	(bread)	2.35
	(roll)	2.50

Thursday, June 19

Beef & barley soup	(cup)	.65
	(bowl)	.85
Broiled fresh fish w/ dill sauce and 1 veg. (lite weight)		2.65
Meat loaf with mushroom gravy and 1 veg.		2.45
Hot Deli: Smoked turkey	(bread)	2.35
	(roll)	2.50

Friday, June 20

Boston clam chowder	(cup)	.65
	(bowl)	.85
Turkey à la king w/ biscuits		2.45
Rice chicken salad plate (lite weight)		2.25
Seafood quiche w/ 1 veg.		2.45
Hot Deli: Kielbasi & sauerkraut	(bread)	2.35
	(roll)	2.50

Pink League, SURVIVORS — (seated) Maryann Larsen, Sandy Asselta, Maryann Reynolds, Donna-Ree McCambridge; (standing) Sharon Smith.
—photos by Rosen

Bowling Champs

Purple League, BARCONS — (left to right) Lee Barberich, John Connelly, Rich Larsen. Not present for the photo: Millie Connelly, Bob Barberich.

Red & Green League, PINBALL WIZARDS — (seated) Chuck Bachsmith, Rich Eggert, John Muller; (standing) George Meinken, Tom Prach. Not present for the photo: Tony Natoli, Phil Ouvrard.

White League, ALLEY-OOPS — (seated) Jeanette Thiede, Rich Biscardi, Terry Skelaney; (standing) Frank Gaetan, Denny Klein. Not present for the photo: Pat Biscardi.

Classified Advertisements

Placement Notices

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

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

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

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

THE VACANCIES LISTED BELOW HAVE BEEN EXEMPTED BY THE DIRECTOR'S OFFICE FROM THE CURRENT FREEZE ON OPEN REQUISITIONS.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2448. TRAINING SPECIALIST - Requires a BS degree in a relevant field or extensive highly pertinent technical experience to perform training and other related duties for the BNL Police Group. Should have knowledge of military tactics, police procedures and DOE requirements. Must be a qualified or qualifiable weapons instructor. The ability to obtain/maintain a "Q" clearance, as well as the ability to pass an initial and annual physical fitness exam is mandatory. Safeguards and Security Division.

2449. REFRIGERATION AND A/C ENGINEER (2 positions) - Requires substantial experience troubleshooting, repairing, installing and operating commercial/industrial air-conditioning and refrigeration equipment including steam absorption, centrifugal and helical screw refrigeration machines. Successful completion of refrigeration and A/C apprenticeship program or related course work is highly desirable. Must be available to work shifts as required. Plant Engineering Division.

Autos & Auto Supplies

75 DUSTER - runs very well, needs minor repair of K-frame. $400. Barbara, 281-5563.

74 PLYMOUTH DUSTER - good cond., new tires. $750. Jim, 736-3029 after 5:30 p.m.

85 NISSAN SENTRA - 4 yr. warranty, am/fm, 5-spd., mint cond., going overseas, $6,400. Bud, Ext. 3083 or 878-1915.

79 FORD F150 - 4x4, 300 cu. in. $2,500. Ext. 2023.

84 PLYMOUTH VOYAGER - 27k mi, a/c, 2.6, excel. cond. Al, Ext. 4826 or 231-4613 after 5 p.m.

74 MONTE CARLO - new eng., new trans., mag wheels, am/fm cass., must sell, asking $800., negotiable. 727-1025 after 5 p.m.

75 FIAT 128 - wagon, engine good, many new parts, body so-so, runs, $600 or best offer. Thomas, 725-1021.

76 CORVETTE - a/c, p/s, a/t, p/w, s/s brakes, tilt & tele. wheel, needs paint, hi-mi. $6,500. Bill, Ext. 4434 or 399-6168.

84 TOWNE & COUNTRY WAGON - fully equipped, mint cond., 32k mi., $6,950. 477-2262 after 6 p.m.

75 AUSTIN MARINA - 4 cyl., 4 dr., 4 spd., sedan, good running cond., 25 mpg, am/fm stereo. $600; Snow tires for Honda Civic, other small cars, $30/pr. Pan, Ext. 3537.

71 DODGE - sleeps 6, new brake system, tires, generator, a/c, furnace, must be seen. $6,000. 929-4673.

86 MITSUBISHI - pickup, 5 spd., 2L, gold, alpine, tilt, sport tint, 6k mi. $5,200. Gagliardi, 821-9296.

HAINES SHOP MANUAL - Chevy Vega, $7.; class 2 bolt-on trlr hitch w/head and 2 3/16" ball. $65. Ed, 929-4522.

83 TOYOTA CELICA GTS - 5 spd., a/c, cruise, all options, front end mask. $8,000. Rick, Ext. 2434 or 924-6063 eves.

78 MUSTANG - 4 spd, 4 cyl., new trans/tires, am/fm, good cond., must sell, 81k mi. Asking $600. Ext. 3883 or 2842, any time.

73 CHEVY NOVA - 4 dr. sedan, V8, p/s, new tires (4) and brakes, orig. owner, runs well. Ext. 3370 or 751-2469, eves/wkend.

82 BRONCO - 350 cu. in., black, p/s, p/b, a/c, am/fm, excel. $9,000. (718) 886-0993 after 5 p.m.

83 ESCORT - 4 dr., 2-tone blue, a/c, p/s, a/t, am/fm stereo cass. $3,800. Neil, Ext. 2023.

76 DODGE ASPEN - station wagon, std shift, slant 6 eng., dependable 2nd car. $800. 286-0031 after 6 p.m.

83 HONDA - CB1100F, limited edition, good cond., many extras, best offer. 298-4148, after 6 p.m.

76 FORD PINTO - good body, tires, other parts, needs engine, best offer. Vanette, Ext. 7991 or 369-2783.

82 PLYMOUTH CHAMP - Excel. cond., 46k mi. Asking $2,800. Ext. 2575 or 563-2889.

73 CHEVY PICKUP - 4x4, V-8, a/t, a/c, p/s, p/b, rally wheels, 31-10x15 tires, running boards, anti-slip rear, good cond. $3,800. Tony, 269-9510.

77 HONDA CIVIC - 2 dr., 4 spd., am/fm, good cond. $1,100. 751-1026.

80 FORD TRUCK - a/t, low mi., mags, cap, 8 cyl., excel cond. 281-8131.

S&S CARB. - Model GBL, air filter, manifold for panhead. $75. Mike, Ext. 2023 days or 585-8809, eves.

78 CAMARO - V-8, a/t, a/c, p/s, p/b, tilt, stereo, custom wheels, very good. $3,800. Tony, Ext. 2462.

CAST ALUMINUM RIMS - set of four, will fit Mustang or Capri. Asking $100/rim. Ext. 7112 or 472-1922 after 7 p.m.

75 LINCOLN CONTINENTIAL - Mark IV, black, a/c, p/w, p/l, p/s, moon roof, 83k mi., garaged, perfect cond. Asking $3,200. 728-2265.

78 OLDSMOBILE STATION WAGON - brown, excel. running cond., new tires. $2,700. Ext. 3737 or 3129.

72 PONTIAC - 4 dr., 6 cyl., a/t, p/s, 115k mi., runs well, very little rust. Must sell, best offer. Ken, Ext. 4514 or 289-8212 eves.

78 CAMARO - 6 cyl., std, custom interior, mags, low mi., good cond. $3,000. Vinny, 473-4088 days.

73 CHEVY IMPALA - custom, new everything, high performance. Best offer over $3,000. 286-9053.

79 PLYMOUTH VOLARE WAGON - p/s, p/b, brand new a/t, roof rack, 71k, excel. $1,995. Ext. 7505 or 689-8605.

65 JEEP PICKUP - Tube bumpers, roll bar, sunroof, Chevy 350 eng., much more. $350. Bob, 467-4222.

81 CUTLASS SUPREME - 2 dr., V6, a/c, p/s, p/b, am/fm, w/w radials. $4,300 or best offer. Ellie, Ext. 3395 or 325-1537 after 6 p.m.

84 MONTE CARLO - loaded, needs minor cosmetics, mech. excel., $6,300; 82 SUZUKI GS750T, 5,500 mi., rack, sissy bar, cover, $1,500. Paul, 698-6895.

74 VOLVO - 164E, p/s, a/c, am/fm cass., body & mech, both excel. $1,795. Kevin, Ext. 2065 or 473-0961.

75 FORD GRANADA - 87k mi., std shift, well maintained, rel. $500. Ext. 2455 or 331-1432.

73 CHEVY BELAIR - body rust, mech. OK. $250. Joyce, Ext. 4478.

80 PUCH MOPED - 2 hp, hardly used, excel. cond., extras, best offer. 473-5948 eves.

83 PULSAR SEDAN - loaded, 5 spd. manual, new am/fm stereo & cass, original owner, great buy. Ext. 2198 or 744-4662.

79 VOLVO - 242-DL, 4 spd with O.D., a/c, am/fm stereo cass., sunroof, new tires & brakes. $4,800. 929-4840.

73 PLYMOUTH KUDA - new engine, trans., tires. Best offer. 928-7139.

TIRES - (2) P195/75R14 Firestone 721 steel-belted radial w/w. $30. 727-5912.

74 VENTURA - 6 cyl, a/t, am/fm cass., good cond. 878-0684.

77 HONDA CIVIC - 4 spd., hatch, rebuilt trans., eng., new brakes, gen., battery. $585. Ext. 3164.

79 MONTE CARLO - a/c, p/s, p/b, original owner. Guy 758-6892 after 6 p.m.

TIRES - (2) 165R13. $10 both. Ralph, Ext. 4171.

76 FORD VAN - customized, must see, candy apple red, new paint, excel. cond., make offer. Ray, Ext. 3536 or 289-7615.

74 MG - $400. Ext. 7633.

79 HONDA - CX500 Deluxe, 13k mi., liquid-cooled, excel. cond. $975. Kevin, Ext. 2065 or 473-0961.

TIRES - (1) G78-14 tubeless; (2) G78-15 tubeless snowtires; (2) P175/80R13 radial; (2) L78-15 snow on wheels. Arnold, Ext 2050 or 473-6432.

80 DATSUN 310 - 4 spd., steel belted radials, am/fm, asking $1,200. 289-3380, eves.

CAR TOP CARRIER - large; wooden, canvas top, perfect for camping. $50. Ext. 2529.

78 PINTO WAGON - body good, 4 new tires & battery, runs well, $700. Joe, Ext. 4661 or 878-2203 after 5 p.m.

83 ESCORT - 4 dr, 2-tone blue, a/c, p/s, a/t, am/fm stereo cass. $3,800. Neil, Ext. 2023.

76 VOLARE WAGON - p/s, p/b, a/c, new exhaust, good cond., 83k, $950. Ext. 3458 or 369-2504.

82 DATSUN SENTRA - 4 dr. hatchback, sunroof, a/t, p/s, p/b, a/c, am/fm, excel. cond. $4,800. 298-5821.

73 GMC VAN - needs a little body work, $400. 732-8303.

86 SUBARU WAGON - 4 wd, loaded with extras, must sell, one mo. old, 13k. Asking $12,000. Beth, 475-4370.

78 MOPED - Honda Express, excel. cond: $390; CAP - fits 1978 Datsun std. bed pickup. $150. 286-8448.

77 GRANADA - 2 dr, in good repair, no rust, 44k mi., silver, 8 cyl, a/c. 924-6348.

CHEVY WHEELS - (5) 14-inch, two w/snows, $12 for all. 472-1314 anytime.

81 DATSUN 510 - 4 dr. hatchback, 5 spd., a/c, sunroof, perfect looking and running. $3,500. Ext. 3896 or 475-0396.

Boats & Marine Supplies

84 MERCURY 50 - elec. control, extras, mint, $1,875; 17' GARVEY, glass over wood, good cond. $300. Rich, 654-5437.

21' SUNRUNNER - 1984, 140 Mercruiser I/O; 1984 Easyload Shoreline trailer, power winch, 30 hr/motor, full canvas. Asking $13,000. 399-6729 after 7 p.m.

MUSHROOM ANCHOR - 50 lb.; $25. 758-6291.

16' BAYLINER - cuddy cabin, used once, 85 h.p. eng., trailer CG package, cover, garaged, showrm, extras. $7,000 firrm. 289-3360.

26' POLARIS - f/g sloop, Atomic 4 inbd., 7 sails incl. spin. & furling genoa, extras, $7,500. 928-3371 after 6 p.m.

TANZER 22 - excel., glass, new sails, roller furling, shoal draft (K/CB), 6 hp Chrysler, $7,700. Ed, Ext. 7943 or 589-3992.

21' VENTURE - in water, many extras, sailing lessons for new sailor. Bill, Ext. 2103 or 331-4768, eves.

Miscellaneous

POCKET KNIVES - old, new, private collection, 40%-60% below retail, American made. Don, Ext. 2705 or 281-2731 eves.

ANTIQUE SEWING MACHINE - Lorena brand. $125. 589-4327 after 5 p.m.

KIDDIE POOL - Coleco Mr. Turtle w/slide. $15. 744-9677.

SANSUI STEREO - rack system w/extras, excel. $50.; super 8 mm movie camera w/extras $75. Mark, Ext. 5350.

SIAMESE CATS - kitten and some adult cats, loving, good temperment. Ramona, 928-3088.

BEDROOM - 5 piece set, Italian Provincial, all wood, pecan, excel. cond. first $200 takes it. 567-0408.

TABLE SAW - 10" good cond. moderately priced. Dick, 878-1450.

AIR CONDITIONER - window, very good cond. $75. Pan, Ext. 3537.

BICYCLE - girl's, 10-speed, 26", good cond. $30. Bill, pager #923 or 281-0557.

VIOLIN - ½ size, Suzuki, $150. Peter, Ext. 7687 or 744-1112.

COMB STORM DOOR/SCREEN - alum., wood front w/weatherstrip, jambs, 1¾x36x6'8". 475-0509.

ROTOTILLER - for 10 hp, tractor, w/belts, pulleys, asking $250; seed spreader, tractor mount/flex. shaft drive, 1 bu. cap. Asking $55. Ed, 929-4522.

EARLY AMERICAN TABLES - (3) 1 coffee, 2 end, excel. condition. $135. 289-3667 after 7 p.m.

FURNITURE - Loveseat, $90; Sofa, $60; Folding bed, $40; Food Processor, $40; 13" color T.V., $130. Rajiv, Ext. 5161 or 924-1460 eves.

CAMERAS - Konica TC, Nicromat Ft-N, w/accessories, excel. cond. 225-0178 after 6 p.m.

CAPTAIN'S BED - w/three drawers on bottom, w/twin size mattress. Ext. 4666 or 878-6528.

3M DISKETTES - 5¼" ds/dd, new $10/10. Jim, Ext. 3372.

SONY STEREO - Component system, 55 w/channel includes receiver, cass., equalizer, turntable, two extra large Jenson speakers. $500. Rich, 281-1893.

POOL TABLE - 4'x7', like new, includes cues, balls and rack. $275. Frank, Ext. 3121.

FOOD PROCESSOR - Cuisinart DCL8, almost new; sewing machine; Coleman stove; cooler. 282-3129.

BICYCLES - (2) Schwinn Sting-Ray, 5-speed, stickshift, wide rear tire. $30/$20, $45 Both. Ralph, Ext. 2368 or 928-6654.

BOX FAN - 24", 2-speed, $15. Sandy, Ext. 3369.

TRAVERSE ROD - white, right side draw, perfect for sliding patio door. $10. Joe, Ext. 2898.

FLOOR FAN - new 3-speed, 20" fan w/auto. temperature control. $20. Ext. 4134.

UPRIGHT FREEZER - 12+ yrs. old, 17 cu. ft., original owner, frost free, works well. 744-4611 after 7 p.m.

COINS - uncirculated Morgan silver dollars and U.S. gold, MS63 - MS65, prooflikes, others. Paul, 698-6895.

BRITTANY SPANIEL PUPPIES - Champion bred, ready early July, training help avail. 929-3079.

COCKTAIL TABLE - hardwood, must see, 56"x21", 2 drawers, new cond. $75. Al, Ext. 4615 or 751-8462, eves.

B&D ELEC. LAWN MOWER - excel. cond. $45. Sal, Ext. 2460 or 744-9822.

SALTON CAPUCCINO MACHINE - $20; Biletti Capuccino machine, $15; 2 Saki sets, $4 each. 878-0357.

HANDPUSH LAWNMOWER - $10; lawn spreader, $5; bicycle parts, wheels, frames, tires, etc. $35 all. 878-6637.

BABY GRAND PIANO - 5', Lester, walnut color, ivory keys, good practice piano. $1,800. Judy, 751-8351.

MICROWAVE OVEN - 1.4 cu. ft, Tappan, $75; Zenith 19" b/w t.v., $45; Gerry infant backpack, $20. Ralph, Ext. 4171.

ROCKING HORSE - child's, excel. cond. $20. 472-1314 anytime.

DISK DRIVES - (2) 8" in cabinet w/supply aligned and checked w/manual. $175. Rich, Ext. 4172.

GREEN HOUSE - poly-type, 22'x100', boiler; whole-house heat & vest sys.; sprinkler sys., heavy duty const., $3,000. Jim, Ext. 4040 or 289-0876.

DIVING TANK - 72 cu. ft., steel, new valve. $40. Ext. 4575.

FLOOR POLISHER BUFFER - Regina, $25; boy's 20" bike, almost new, $20. Ext. 5384.

WASHER/DRYER - gas; crib; girl's bicycles. 751-4539.

SOFA - excel. cond. $75. Ext. 4192 or 751-7787.

Yard Sales

LAKE GROVE - 12 Hy Place (Hawkings - Long Street - Gould), 6/14.

SHOREHAM - 6/14, 6/15, 10 a.m.-6 p.m., 34 Fox La. Kitchen appliances & more. 744-0722 for directions.

Car Pools

GREENPORT - or vicinity needs riders. Ed, Ext. 3293 or 477-2880.

PATCHOGUE - Van pool, 2 seats open, leave name and number. Ext. 4669.

BELLPORT AREA - Driver to complete four-person car pool. Ext. 2388.

FARMINGDALE - student needs ride, 10:30 p.m., will pay. Waylon, Ext. 2277.

Free

KITTENS - available 6/17, black or gray. 924-5192, eves.

COLOR TV - 19", plays well, contrast needs work. 472-1314, anytime.

Lost & Found

FOUND - Necklace, on 6/11, in parking lot of Bldg. 703. Mike, Ext. 7594.

Real Estate

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

For Rent

CAPE COD/EASTHAM - 4 bdrm. home, 2 baths, completely furn., washer/dryer, dishwasher, deck, close to beaches. July & Aug, $600/wk. 727-3865.

SOUTH BELLPORT - elegant furn. room, priv. bath, garage, microwave, frig., cooking, short walk to village and Fire Island ferry. Quiet non-smoker. $380 per month all. 286-1479.

HILTON HEAD, S.C. - 2 bdrm. condo, beach, pool, golf & tennis, many extras. $400/wk for Lab employees & families. 585-9149.

PORT JEFFERSON - Belle Terre, furnished, avail. June 26-Aug. 6, 4 bdrms., 3 bath, lr, dr, fam. room, screened porch, large lower level, private wooded acre, $2,000, refs. and security, principals. Ext. 3791 or 928-7154.

SOUTHAMPTON - new house, 2,500 sq. ft, 3 bdrms., 3 baths, $1,150. or summer rental. 360-3357.

SHOREHAM - 8 rm. furn. house, 4 bdrms., 2½ baths, SWR schools, pool. 744-7642.

WADING RIVER - fully furn., lakefront, 3 bdrms., newly remodeled, SWR schools. Avail. 9/86-6/87. Ext. 3822 or 929-6527.

VERMONT - vacation, 3 bdrm. house, f/p, fully equip., beautiful view, woodland trails, Alpine slide, gold, summer theater, boating, etc, family oriented, avail. weekly. 732-6499 after 6 p.m.

SETAUKET - 1 bdrm. apt., priv. ent., large l/r, washer, non-smoker, single. $525 plus. 689-9409 eve.

For Sale

INVERNESS HIGHLANDS, FL - corner lot 100' x 300', ready to build. $5,500. 269-4156.

SAYVILLE - 3-4 bdrms, cedar Ranch, brick front, 2 full baths, gar., cent. air in all rms. and in full bsmt., eik, d/r, l/r, fam/rec rm, lg patio w/outside hot/cold shower, appl., w/w, sidewalks. Mint cond., walk to golf course and bay $146,900. 589-2681.

RIDGE - 1 acre bldg. plot, 100'+x400'+, 80% cleared, 20% wooded, ready to build, $45,900. 924-3236.

BROOKHAVEN HAMLET - (12) prime acres, Fire Place Neck Rd., former nursery, trees & shrubs, estate surroundings, 12"-14" top soil, lg. barn, (2) 4" wells, terms. Jim, Ext. 4040 or 289-0876.

MEDFORD - 2 bdrms, l/r, din., kit., f/p, w/w, appliances, attached 1 car garage, fenced yard, landscaped, residential & extras. $105,500. 698-0576 after 9 a.m., 286-2005 after noon.

OAKDALE - Idle Hour section near water. Two story Tudor, 4 bdrms, 2 baths, garage, attached full apt. w/private entr., located on ½ acre on dead end street. $189,000. 363-6940, eves.

MASTIC BEACH - 5 rm house, 80x100 plot, new well, excel. cond., no heat, $65,000. 744-2821.

SHOREHAM - spacious 4 bdrm. Colonial, eik, formal l/r, d/r, w/fp, mud room, 2 car garage, full bsmt, ¾ acre, garden, fruit trees, raspberries, SWR-SD. $204,000. 744-4594.

Wanted

PERSON TO CLEAN - do laundry for working couple, occasional child care, Mon.-Fri, 10 a.m.-1 p.m., non-smoker. 744-4611.

HOUSE TO SIT - experienced, professional couple, references. July/August. Ext. 4776.

FEMALE HOUSEMATE - own room, share house, yard, 7 mi., from Lab. $250/mo. Pat 281-0973 eve/wknd.

HOME - for abandoned gray, long haired cat, gentle, affectionate. 924-5192, eves.

APARTMENT/HOUSE - Stony Brook area, 2 bdrm., unfurnished for long-term lease. Jacobo, Ext. 2691 or 7920.

BARITONE SAX PLAYER - seeking to join or form group. Christoph, Ext. 4360 or 4349.

MEMBER OF RIFLE AND PISTOL CLUB - to help advise novice. Paul, 698-6895.

CLASSIC GUITAR - in good cond. Ext. 3105.

BULK TAPE ERASER - reasonable. Rich, Ext. 4172.

HOME - for all white spayed female cat, also kitten with shots. 744-2821 or 928-9537.

76-78 FIREBIRD - or Camaro, V6, good running cond., a/t, no rust. Reasonable. Joan, Ext. 2266, or 331-9264.

BOAT - small, light-weight (say 12' aluminum) that can carry a 15 hp motor. Ext. 3401 or 744-6229.

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