

## Self improvement — the distaff side

Although the last few years have seen a consciousness-raising in the role of women in society, and a determined effort in some quarters to place women in different kinds of jobs, there is still much that women can do for themselves.

The screamers and the yellers may get the most publicity, but there are many women working, without fanfare, to improve or change their lot. Mainly what it takes is patience, stamina and dedication, and a willingness to explore opportunities that are available.

Two opportunities for Laboratory employees are the tuition refund program and the craft apprenticeship program. Generally, twice as many men as women have taken advantage of tuition refund. And, up until last year, women didn't even think of the trades as a possible career.

For many women, the traditional pattern has been to start out on a job, then get married, have children and, some years later, go back to work. For those who want a satisfying career, rather than just an extra-money job, this often requires additional education or training.

A case in point is Betty Heldman in the Medical Department. She got her bachelor's degree 16 years ago in West Virginia, worked a bit, got married and had two children. Three years ago she decided to go back to work and got a job in Dr. Ursula Reincke's laboratory doing biological assays. In September 1975 she signed up at C.W. Post College to get her master's degree in medical biology.

In addition to working all day, she goes to school two nights a week. Yes, she gets tired but keeps on going because "it's not going to last forever," and the tuition refund program was "an opportunity I had to take." Her long term goal is perhaps a supervisory post in a laboratory hospital. In any case, she realizes that a responsible job just won't drop into her lap and that she must do something to prepare herself.

She loves working and is glad she lives in a time when women can work outside the home without feeling guilty. In this she has her husband's support as he agrees that "it is important to constantly grow."

Heldman works with Naomi Pappas in the same laboratory in Medical. The two of them are collaborating on a master's thesis on granulopoiesis, but each handles a different area of the subject. In their struggle for more education, they receive the support and encouragement of Dr. Reincke, who also acts as their project guide on the thesis.

Naomi Pappas is from Indiana and started her undergraduate work at a small college there where she met her husband. They moved east before she finished school. She joined the Brookhaven Medical Department in 1968 and finally got her bachelor's degree in biology from Adelphi University in 1971.

Now, going for her master's, she goes to school two nights a week and last summer, went four nights a week for five weeks. She admits that trying to juggle everything can be very trying, "but if you want to do it, you can do it."

Pappas doesn't belong to any women's groups, but does feel that they have brought women's rights out into the open and have given a lot of women the courage to speak out. "My mother was a quiet women's liberator," she says. "She always said, go and do what you want to do and forget that women should only do this or that."

Cynthia Morgan would agree with Naomi's mother. Last April, she started a career that has definitely been considered a male preserve. She was selected as an electrical apprentice in the Laboratory's Craft Apprenticeship Program. How does she feel about it almost a year later?

She is still enthusiastic. She finds it interesting and rewarding work, both mentally and financially, and has no regrets about moving from her former job as a secretary.



Cindy Morgan

She likes the feeling of accomplishment and being responsible for her own work, whether "good or bad."

Cindy received a bachelor's degree from a teacher's college in Maine about 14 years ago but, early on, decided she was not cut out to be a teacher. After that she worked in a number of offices.

Now she goes out on the job with various electricians, learning the different aspects of the trade. In the evening, she studies the correspondence courses which are also required in the four-year program.

"It's not easy work," says Cindy. "It's tiring, and many nights I feel I could go to bed at six o'clock." She "eats like a horse" but doesn't gain weight because she's on the run all the time.

Now that she has pioneered this field, what advice would she give to prospective applicants? "A sense of humor helps," she says. "It's an individual thing and each person must play it by ear. And don't expect anything glamorous."

According to Cindy the work is rough on the hands. And for crawling under build-

(Continued on page 2)



Betty Heldman (left) and Naomi Pappas

## Kindling The Fusion Reactor

Exciting news is in the works at BNL for energy, with strong prospects for a low radioactive-waste fusion reactor. The heat for commercial electrical power generation would come from thermonuclear micro-explosions, ignited by a heavy ion beam in a process theorized in recent years by Alfred Maschke, a physicist at the AGS.

Use of the beam from a special high-current heavy ion accelerator, presently in the preliminary design stage, for the ignition of fuel will be the thrust of Maschke's talk on Wednesday, February 16, at 8 p.m. in Berkner Hall. "Kindling the Fusion Reactor" is the 144th BNL Lecture.

The fusion reactor has an obvious advantage over fission reactors in present use, by producing much less radioactive waste. Maschke adds that the fusion reactor also has no "after-heat" problems, because energy is produced in highly controllable short bursts. This differs from the self-sustaining nature of the continuous fission reaction.

Fusion scientists are excited about the development of ion beam ignition of thermonuclear fuel. Accelerators, which would produce the igniting beam, are the product of a highly developed mature technology and have demonstrated their reliability. In addition, even the largest custom-designed accelerators have cost less than a large modern power plant.

Other schemes for ignition of thermonuclear fuel in fusion reactors were less powerful and limited the reactor to much smaller quantities of fuel usage and in turn, less power production. One of the most promising methods in the past employs a laser beam, which provides one-tenth the energy expected from the proposed heavy ion beam according to Maschke.

To ignite thermonuclear fuel, a heavy ion beam originated in an accelerator is extracted with conventional processes from the storage ring, analogous to the proton beam extractions on the AGS. The beam is aimed at a fuel pellet as small as a centimeter in diameter containing deuterium and some tritium.

Ignition of the pellet causes a thermonuclear microexplosion, "giving off  $6 \times 10^9$  joules or about the same amount of energy as one barrel of oil," explains Maschke. This heat energy is equal to about one ton of TNT or one million times smaller than a thermonuclear weapon.

The beam and pellets can be coordinated to collide every two seconds. "This would

produce approximately one million kilowatts, which is a standard capacity for presently operating reactors," said Maschke.

Fusion reactions are confined to a vacuum containment vessel Maschke calls a "boiler." Size may vary from 5-10 meters in radius and could be made of lead walls about one-third of a meter in thickness. The thermonuclear microexplosion of the fusion reaction is primarily a burst of heat with some radioactive waste products.

There is no "explosive force" in the usual sense of the word, since the reaction takes place in a complete vacuum. Only heat energy results . . . heat which may be used commercially to convert water into steam in order to turn the turbines of an electric power generator.

A buffet supper will be served in the Brookhaven Center before the lecture beginning at 6:30 p.m. Reservations should be made in advance by calling Ext. 3451 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the lecture.

Maschke joined the Laboratory in 1961 and is a Physicist in the Accelerator Department. From 1967 to 1972 he was on the scientific staff of FermiLab. He is a member of the American Physical Society.



Alfred W. Maschke

## Weather Wrap Up January

January 1977 was the coldest month in Lab history. The average temperature was 19.5 degrees. The average usually is about 29 degrees.

If the temperature is exceptionally low, the degree days are exceptionally high. This month had a record-breaking 1414 degree days. Previously, the record was for 1342 degree days in January 1970.

The coldest day during the month was a mere -3 degrees, a bit colder than any day in December, but not close to the record of -23 degrees on January 22, 1961.

Snowfall was more than twice the average at 16.75 inches, but again hardly touched the January 1948 record of 26 inches. Precipitation was very near the average at 3.09 inches.

Although Meteorology is very reluctant to speculate, as are most weather forecasters, they feel there is a good chance we may break more records this winter.

## Public Lecture On Sun Energy

"Solar Energy for the Homeowner" will be explored by Douglas A. Wilke in a public lecture at 12:30 p.m., Tuesday, February 15, at Berkner Hall.

Because of increased costs and limited supplies of oil, gas and electricity, solar heating and hot water systems have become of considerable interest to many homeowners. Mr. Wilke will discuss and show slides of current solar projects and of improved systems now becoming available.

Mr. Wilke is an architect and engineer responsible for the design of numerous solar projects, ranging from retirement homes in New England to two large buildings on Long Island. He received the Owens-Corning energy conservation award for the "1975 Building of the Year" and the Engineering News Record award as "Engineer of the Year." He is much in demand as a lecturer on solar energy both in the United States and abroad.



**Fashions In Protective Gear**

Even though the Safety & Environmental Protection Division is primarily concerned with eliminating hazards present in any job onsite, when that is not possible they have an array of protective equipment available. For instance, safety shoes which are tested to take a 2500-pound load on a toe. Gloves come in several varieties: standard, heat resistant and solvent resistant. Our model at

right is wearing a half-mast respirator, ear muffs, hard hat and safety glasses. S&EP emphasizes that any employee who orders a respirator is required to take a 3-hour training session with the equipment and later a test to ensure that the respirator fits properly. There are other types of respirators available, as well as a variety of goggles and face shields.

**Protecting The Fauna**

Plant Engineering is doing its best to help the wild animals on the Laboratory site make it through this cold winter.

Although the Laboratory does put out food for the animals every winter, this year they are covering more areas than usual. In addition to the cracked corn and oyster shells for rabbits, quail, birds and other small animals, they have spread hay and put out salt licks for the deer.

For the birds off-site Gil Raynor, who is active in the Audubon Society, suggests giving them commercial bird feed (especially sunflower seeds) and suet. However, he warns that if you start, you should keep it up until the weather gets warmer. Otherwise, you'll be doing more harm than good.

This year, there are an especially low number of birds wintering in the area. The cold fall and early start of winter sent many birds searching for warmer climes.

The biggest problem on the Island has been with water-fowl but, according to Raynor, the problem is not in our area, but further west where the shoreline is completely frozen.

The Civil Defense Office has released biscuits stored in various air raid shelters throughout Nassau and Suffolk Counties to ease the plight of the waterfowl. According to Capt. Hettrick, the biscuits, stored since

1962 in a trailer and in the six shelters on the Laboratory site, will be called for if the freezing weather persists.

Jerry Kinne, Director's Office, rescued a swan on Saturday. He was driving with his family along the Setauket Harbor and saw a bird sitting on the ice. They noticed it couldn't get up. The bird's belly feathers were completely frozen into the ice, leaving it immobile.

They were able to get it free without too much trouble and brought it home to revive it in the bath tub. The swan was very small and docile and didn't panic or peck at them.

The Kinnes knew it was coming around when the family dog stuck its nose into the bathroom and the swan reacted normally - squawking and bobbing its head furiously at the dog. As Jerry said, "it was back to its sassy self again."

But the bird was still weak - it wouldn't eat or stand up and was certainly not strong enough to set free.

A friend in Old Field, famous for her rescue efforts of all sorts of animals, agreed to take the bird. She was already nursing along four other swans and was happy to add one more.

**Arrivals & Departures**

**Arrivals**

- Teresa A. Barnett.....Supply & Materiel
- Robert Bernatzky.....App. Science
- Kris S. Dahms.....Reactor
- Doris M. Gainsford.....Plant Engr.
- William R. Gordon.....Biology
- Richard F. Krajewski.....App. Science
- Sandra G. Lane.....App. Science
- Robert R. Mele.....Plant Engr.
- Alan C. McLaughlin.....Biology
- Michael A. Pick.....App. Science
- Grace G. Shiue.....Chemistry
- Donald W. Slater.....Medical
- Joan P. Smith.....Adm. Sys. & Data Proc.
- Robert C. Stauber.....Plant Engr.
- Richard A. Thomas.....Accelerator
- Thomas N. Tudron.....Physics
- Jagdish K. Tuli.....App. Science
- Ronald G. Wittlock.....App. Math.
- Robert W. Zane.....Accelerator

**Departures**

- Fred J. Humphry.....Accelerator
- Herbert Sixsmith.....Accelerator

**Hospitality News**

A morning coffee will be held Tuesday, February 8, from 9:30 to 11:30 a.m., at the Brookhaven Center. "Bicycling through Europe" will be the theme of this coffee. Slides and a discussion of a two-month bicycle trip will be presented by Mona Rowe.

Please come and bring the children. Babysitting will be provided at no charge. It is suggested that you bring along a toy or two for your children to play with.

**Cooking Exchange**

Guten Tag! Join the members of the Cooking Exchange in a trip to Germany via the demonstrations that will be given by cooks that really know what German cuisine is all about.

The meeting will be held at the Recreation Building next Wednesday, February 9, at 12:30.

Coming up - seafood. If you would like to contribute your masterpiece, call Marjorie Stone at 281-1169.

**Service Awards**

The following employees will receive Service Awards during the month of February 1977:

**Thirty Years**

- Peter Paige.....Personnel
- Robert W. Powell.....Reactor
- Karl H. Walther.....Chemistry
- Joseph S. Washburne, Jr.....Personnel

**Twenty-Five Years**

- Marjorie Comstock.....Technical Information
- Stanley Sajnacki.....Reactor

**Twenty Years**

- Gordon T. Danby.....Accelerator
- William F. Gefers.....Accelerator
- Mary K. German.....Chemistry
- Harvey J. Lotko.....Supply & Materiel
- Ralph G. Perry.....Instrumentation
- Meyer Steinberg.....Applied Science

**Ten Years**

- Robert L. Marascia.....Accelerator
- Arnold M. Peskin.....Applied Mathematics
- Carl E. Schwarz.....Applied Science

**What's Happening?**

On Monday four candy vending machines were removed from the Lab site. During the following weeks, the rest of the candy machines on site will be hauled away.

Is this to keep us all trim and fit? Not exactly. The vending machines will be replaced by new ones with 20¢ candy bars. The day of the 15¢ candy bar is over. They are no longer being produced by candy companies.

Other vending machines for soda and cigarettes will not be affected at this time.

**Self Improvement (Cont'd)**

ings on hands and knees, the well-dressed apprentice wears sturdy pants, long johns, jacket and boots, and carries a small tool pouch.

Last year, approximately 61 other women at the Laboratory, were working full time and doing undergraduate or graduate work in the evenings. Because of additional family responsibilities, some have worked for years, a course at a time, to get a bachelor's degree.

To date, four women have applied for the 1977 Craft Apprenticeship Program and others have picked up applications.

In any case, the opportunity to expand one's horizons, or to venture into a new field is right at hand.

**Ping Pong Meeting**

Persons interested in playing ping pong should attend an organizational meeting to be held at noon, Tuesday, February 8, in Conference Room A, Berkner Hall.

**Curtain Going Up**



(From left) Richard Perry (Duke of Norfolk), Gail Thompson (a woman), Bob Kinsey (Thomas Cromwell), and Ed Beardsworth (Richard Rich).

The cast of "A Man For All Seasons" enters its last week of rehearsals in preparation for opening night on Friday, February 11. The large group of players includes two husband and wife teams - David and Denise Dew-Hughes and Bill and Jane Love. There is a newcomer to BNL audiences in the person of Richard Perry, a veteran actor who played Juror #9 in the recent Playcrafter's production of "Ten Angry Men." Another Playcrafter regular is Ray Rueger appearing in the role of Henry VIII. Those returning to Stage II from earlier productions are Ed Beardsworth, Kurt Fuchel and Bob Kinsey.

Tickets are now on sale at Berkner Hall and from the following: Sharon Smith - 510A, Gail Thompson - 197C, Bonnie McNair - 703, Helen Keeley - 911A, Paula Hughes - 902, Irene Steel - 463, Maureen Devereux - 750, Gail Williams - 460, and Blanche Laskee - 185.

A Man For All Seasons" - Stage II, February 11-12 and 18-19 at 8:00 p.m. Adults \$3.00 - Students and persons over 65 \$2.00.



Tony Fainberg (Sir Thomas More), David Dew-Hughes (Cardinal Wolsey and Archbishop Cranmer).

**Answers to Quiz**

- (1) 30%; (2) 30-60%; (3) Middle East;
- (4) Canada; (5) Oil-46%, natural gas-30%, coal-18%, hydro-4%, nuclear-2%, solar-less than 1%; (6) transportation-25%, industry-41%, residential-19%, commercial-14%; (7) Uranium - Heat - Steam - Mechanical Energy - Electricity; (8) 40 mph; (9) \$75; (10) Experts say 50 years.



## 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, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific 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, as indicated below. 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 Personnel Placement Supervisor, Ext. 2874 or 2882.

**LABORATORY RECRUITMENT:** Opportunity for present Laboratory employees.

58. SUPERVISOR - Requires fundamental knowledge of warehousing operations, with demonstrated competence in inventory management, scheduling, records maintenance and report writing. Two positions. Supply & Materiel Division.

59. DATA SERVICES ASSISTANT - Department of Applied Science.

60. SUPPLY & MATERIAL CLERK - Supply & Materiel Division.

**OPEN RECRUITMENT:** Opportunity for present Laboratory employees and outside applicants.

61. COMPUTER SCIENCE ANALYST - Seeking BS degree or equivalent experience in computer science with knowledge of SCOPE operating systems and scientific programming in FORTRAN. Applied Mathematics Department.

62. SECRETARY - Experienced in general office procedures with good typing and effective communication skills. Shorthand is desirable. Physics Dept.

63. SECRETARY - Experienced in general office procedures with good typing and effective communication skills. Supply & Materiel Division.

### Autos & Auto Supplies

2 SNOW TIRES - E78x15 (7.35x15) Atlas bias ply tubeless, practically new, excel cond. \$30/pr. Hendrie, Ext. 2912.

66 PLYMOUTH VALIANT - 6 cyl, 2 dr, r&h, automatic, avail end of Feb, \$450. Philip, Ext. 3382.

WHEEL RIMS - 15" from Merc, had H78-15 on them. \$4 ea or 2/\$7. John, Ext. 3292.

71 OLDS TORONADO - All power, ac, new carb, muffler, brakes, many extras. \$1600. 924-8835, Jim.

74 DODGE - 3/4 ton truck 8', 6 cyl std, 18-20 mpg, CB radio, am radio, new battery \$ snows. Asking \$2300. 475-8724 after 6.

73 PLYMOUTH STA WAGON - V8, ps/pb/ac, auto, tinted glass, roof rack, excel cond, 34,000 mi. \$2400. Niels, Ext. 4124, 732-3779 after 6.

74 GREMLIN - 23,000 mi, auto trans, ps/pb, x pkg, radio, roof rack. Dick, 286-8906.

71 VEGA HATCHBACK - 4 spd tr, radio, ac, options, extremely good cond. \$875. 269-6344.

VW TUNE UP KIT - 64-67, \$2; fuse kits, 60¢/kit. Ext. 3609.

AUTOMATIC TRANSMISSION - Chevrolet Turbo 400 w/converter. \$125. Lee, 4279, 286-0436.

PISTONS - Complete set of .030" over pistons for 350 C.I.D. Chevy w/rings. \$100/both. Lee, Ext. 4279, 286-0436.

CHEVY SHORT BLOCK - 283 block .060 overbore, 12.5 to 1 compression, crank needs turning. \$80. Lee, Ext. 4279, 286-0436.

76 BLACK CAMARO - 4 spd, posi-rear, Z-28 package, 6000 mi, immaculate, must see. \$4750. Ext. 3254, 727-3351 after 6.

74 DODGE VAN - B100 fully customized, immac, must see. Best offer. Ext. 3254, 727-3351 after 6.

72 CHEVY SPORT VAN - V8 307, belt radial tires, less 1 yr, camper equip, 928-4481 after 6.

75 YAMAHA - RD 250B, bought in June '76, 55 mpg, luggage rack, 1600 mi, new cond. Ext. 4019.

69 FORD LTD - 4 dr, hftp, ps/pb, 320 eng, 16-20 mpg, new tires, battery, exhaust, extra wheels, excel trans. \$650. Ext. 2492.

66 VW - Running but needs work. \$200. 878-1979.

73 PINTO - Squire wagon, radio, roof rack, excel mi and cond. \$1800. 751-0835.

72 BUICK - 225 EI, ask for Tommy, Ext. 3607.

69 CHEVY WAGON - 8 cyl, 327, auto, ps/r&h, good running cond. \$975, Ext. 2534, 281-8044 after 5.

76 VW RABBIT - Perfect cond, white, 2 dr, radial tires, fm radio. \$3600. 286-0703.

72 SAAB - 99 cm, 4 spd trans, front wheel dr, am/fm stereo, very good cond. \$2185. 924-4237 after 6.

69 COUGAR - XR7, 351 cu in, ps/pb, stereo, vinyl top, new radials, good cond. \$1300. 472-0035 after 5:30.

HOLLEY CARB - Fits Ford 302. \$15. Mac, 744-0296.

66 ENGLISH FORD CORTINA GT - Running cond. \$200, negotiable, 286-0315 after 4.

2 RIMS - 15" from Ford station wagon, 2 from Dodge station wagon. \$10 each pair. Ext. 2432.

2 SNOW TIRES - G78-14, used 1 month. \$55/pair. 727-7696 after 6.

2 SNOW TIRES - 14" Sears dynaglas on Chevy rims, very good cond. \$35. John, 744-2461.

71 VEGA HATCHBACK - In top cond, good mi, 4 spd, r&h, ac, rebuilt eng. Asking \$875. 269-6344.

HONDA 12" TIRES - Good cond. \$7.50 each or \$25 for 4. Tom, Ext. 2902.

70 CHEVY MALIBU - 307, ac/ps/pb, recent alternator, battery, starter, muffler, high mi, excel interior. Asking \$850. F. Gillespie, 286-0589.

75 MG MIDGET - 14,000 mi, white, saddle interior. \$2500. Pat, Ext. 2877.

15" RIMS - For '72 Ford or Merc, like brand new. Nick, Ext. 4810.

289 ENGINE - Heads good, rest good for parts, 588-6417 after 5. \$40.

NEW CAR STEREO - Audiovox am/fm stereo, \$70; 2 rims for Datsun w/tires, good for spares, \$25. Ext. 4060.

2 BATTERIES - 6V Delco, \$10 each. Hank, Ext. 3848, 472-0553.

70 HONDA 350 - \$450. 286-1251 after 5.

2 VW RIMS - 15", \$3; (2) 13" 5-hold rims, \$2. O. Booker, 727-5912.

69 BUICK RIVIERA - New paint job, ac/ps/pb, mag wheels, stereo, tape deck, good cond. Asking \$1200. 475-9102.

75 KAWASKI - 400cc deluxe, tan, chrome fenders, luggage rack, crash bars, elec start, mint cond. Roger, 732-9815.

73 SUZUKI - TS 250, road-n-trail, 2100 mi, excel cond, extra knobby tire and helmet. \$500. Pat, 286-3341.

### Boats & Marine Supplies

15' ORLANDO CLIPPER - Fiberglass, fully navy top, Tee Nee trailer. \$350. Marty, Ext. 2547/3753.

PUNT - Flat bottomed, square ended, 8' aluminum. \$50. David, Ext. 3501.

CANE MAST - M/sail - jib & booms, no hardware, new. 878-2134 after 5.

17' GLASPAR - Bow Rider, 65 hp Evinrude w/trailer & accessories, sleeps 2. \$1500 firm. 363-2475.

70 TRI HULL - 15' fiberglass boat w/40hp Johnson, outboard, 878-2704. '76 shoreline galv boat trailer. \$1500. Ext. 2547.

74 CHRYSLER OUTBOARD - 10 hp, new, never used. \$400. 878-2704.

ICE BOAT - Shingle type incl sails, needs mast & booms to complete boat. \$75. Joe, Ext. 4069.

### Miscellaneous

SKI BOOTS - Garmont, self-fit, size 11. \$20. Ext. 4309.

CAMERA - Keystone 8mm movie in very good cond w/leather case. Best offer. 751-6431.

BEDRM SET - Antique, 10-piece, solid mahogany, 50 yrs old, excel cond. \$245. Ruth, 589-2128.

CHAIN SAW MALL - 30", \$50; chain saw blade Oregon S-70, \$10. H. Vetter, Ext. 2043.

SKI BOOTS - Child's, 2 pair, size 1 rubber molded, good cond. \$4 each; 1 pair child's size 13, blk leather, fair cond. \$2. Ext. 3788.

SLIDE PROJECTOR - Revere model 555, w/9 slide trays, excel working cond. \$40. C. Nauman, Ext. 3412, 286-3764 eves.

MOTOR BIKE - NSU 50 cc, like new, needs some engine parts. \$125. Fred, Ext. 4407/4435, 864-1214 after 6.

MINI BIKE - Rupp Sprint, runs good, torque converter, 3.5 hp, Brigg-Stratton, \$60. Fred, Ext. 4407/4435, 864-1214 after 6.

SKATE BOARD - Like new, Big foot wheels & trucks, adjustable, blue alum. \$20. Fred, Ext. 4407/4435, 864-1214 after 6.

MINI BIKE - Cheeftah 1300, runs fast, clutch drive, 3.5 hp Tecumseh. \$60. Fred, Ext. 4407/4435, 864-1214 after 6.

COLOR TV'S - 1 table model GE, \$50; 1 solid state console, \$125, both 25" screen. Rickie, Ext. 4254, 734-7342.

WEDDING GIFTS - New, dinnerware, 45-piece Kensington ironstone, olive green, service for 8, \$40; 32-piece semi-vitreous, white w/floral pattern, service for 6, \$35. 928-1127 after 6.

WOMAN'S COAT - Size 12, heavy, \$15; stoneware for 6, \$25; skates, men's size 9, \$5; ladies size 8, \$5, avail end Feb. 286-2788.

BICYCLE - Girl's 20", \$7.50; 26", \$15; Zenith B&W TV 19", \$30; 2 life vests, \$3.50. 286-2788.

ARCHITECTS - Paoli Soleri's Arcology book, large format. \$20. 928-1127.

XMAS/WEDDING GIFTS - Never used, wok, electric, red, 12", \$30; fondue, electric, red, 1 1/2 qt, \$20. Ext. 2948, 928-1127 after 6.

EARTH SHOES - Never used, high boot, size 10 1/2, 1 yr, \$30, light tan. 928-1127 after 6.

MACRAME COVERED - Ship bumpers, great for nautical motif wall decor, ideal for home, restaurant or antique store. \$100 each. Must see to appreciate. 928-1127 after 6.

SOFA - 83" Italian provincial in perfect cond. Asking \$100. 585-4176 after 5:30.

TRAVEL TRAILER - 1970, 16", sleeps 6, elec refrig, self-contained, toilet, 3-burner gas stove, excel cond. \$1200. 585-3869 after 5.

WET SUIT - 1 full US Diver's w/accessories. \$45. 288-9086.

KEY MACHINE - 1 Curtis automatic w/board & blanks. \$125. 288-9086.

MUZZLE - \$1; new men's shoes, \$12, 9M; 3 sport jackets, good cond, 38, \$6, \$5, \$1. Ext. 3609.

COAT - Size 14, green check, \$8; brown jeans, 32-30, \$5; light fixture, \$3; plant holders, \$2 & \$3. 744-5871.

UPRIGHT PIANO - Good cond. Asking \$50, must be seen. 727-3907.

PAK-A-POOSE - Sears, never used, \$10. Tony, Ext. 3658.

ICE SKATES - Boy's, like new, size 3, Bill Taylor, Ext. 4662, 298-4089.

PIANO ACCORDION - 120 bass, ladies size, good cond. \$60. A. Scholtz, 924-3469.

ARX STEREO TURNTABLE - Base, dustcover, Shure & spare Empire cartridges, \$35; Norelco stereo record player, cassette changer, \$75. 246-6752, 9-5.

KODAK PROJECTOR - For 110 Instamatic pocket slides only w/case, zoom lenses & tray, all new. Fred, Ext. 4613.

I BEAM - 4 1/2"x9"x36", good for hoist hanger, girder for house, etc. 878-2134 after 5.

GOLF CLUB SET - & tennis rackets, very reasonable. 924-3066.

ORGAN - Thomas. \$150. Ext. 2485.

SEWING MACHINE - Zig-zag, portable, Spiegall, \$25; 400mm telephoto lens for Pentax mount; 35mm camera, \$25. Mac, 744-0296.

DRUM SET - 4-piece - w/high hat & cymbals, red sparkle, excel cond. Asking \$150. 289-3899 after 5.

MAGNETIC TAPE - 1200' & 1800' reels for tape recorder, used, \$1 each of 35 for \$25. Rick, 286-2108.

ASS'T LUMBER - 2x4's, 2x8's, 4x4's, make offer. Ext. 2032.

FIREPLACE - 34" conical, flat black, brand new, never installed. \$100. Rick, 286-2108.

BABY ITEMS - Wooden potty chair, playtex nurser set, old style car seat & car bed, \$10 for all. Ext. 3742, 289-6197.

GE REFRIGERATOR/FREEZER - 2 dr, 14 cu ft, self-defrost, white, excel cond. \$100 or best offer. Ext. 3855.

TAPE RECORDER - Tanberg model 64 4-track, tape deck, excel cond. \$275. Ext. 3828, 751-7250.

PHONO CARTRIDGE - Shure V15, type III, used about 20 hrs, new cond. \$35. Ext. 3828, 751-7250.

ENGLISH CRIB - Mother care, \$10. Tom, Ext. 3886.

SKI BOOTS - Henke plastic, size 8 1/2 M, very good cond. \$15. John, 744-2461.

VIDEO TAPE RECORDER - Sony betamax, SL-7300 new. \$1000. Ext. 4722, 725-0159.

CB POWER MIKE TUNER - M + 2. \$20. Frank, Ext. 4581. 588-3565.

PLOW - For John Deere, \$20. Tractors 55 or 5G. Frank, Ext. 2011.

2 CARD TABLES - 34x34 Samsonite, good cond. \$8 each. 286-8831.

FURNITURE - 8' contem corner sectional, \$150; bench couch w/end tables, slate tops, white vinyl, \$100; driftwood fl lamps & kidney-shaped coffee table. \$75 each. Ext. 3121, 744-5261.

GOLF BALLS - Used, good cond, very reasonable, Irene. 589-6468 after 5.

SKIS - Hart fiberglass 195cm; Fischer fiberglass 185 cm w/bindings, very good cond. \$40 each. Walt M., Ext. 3256.

WELL JET PUMP - 1 hp, 220 V, elec motor, complete, excel cond. \$75. Walt, 878-8967 after 5.

2 CAMERAS - 35mm Voiglander w/exposure meter; Zorki, Russian copy of Leica w/rangefinder. \$40 each or \$75/pair. David, Ext. 3501.

ACCORDION - 84 bass, \$100; old Underwood type-writer, good cond, \$20; 1975 Colliers encyclopedias full set, excel cond. \$350. Sharon, 878-2591, 924-5077.

CLOCK RADIO - Battery powered, for power failures. \$20. 281-2002.

HEAD BOARD - Brass plated for twin bed, \$10. 744-2404.

BABY ITEMS - Bilt-rite carriage, like new, \$50; crib mattress, brand new, \$10, walker, \$5; Baby Butler, \$10; infant seat, \$1.50. 744-2404.

VW ROOF RACK - \$5. Tom, Ext. 3886.

### 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 Sale

ROCKY POINT - The Tides, 3 bedrm ranch, 2 baths, w/w, den w/fp, eat-in-kitchen, basement, garage, priv beach, 1/2 acre. \$41,900. Ext. 4784/3566, 744-6767.

COMMACK - 3 bedrm ranch, finished basement, ac, landscaped, fenced, eat-in-kitchen, garage, all appl. P. Newhouse, Ext. 2042, 864-2536 after 6.

MIDDLE ISLAND - Coventry Manor townhouse, 4 bedrms, 2 baths, central ac, all appl, clubhouse, swim pool, tennis court, 9 min from Lab. 1 yr old, quiet community. \$31,500. 924-5457.

E SETAUKET - Colonial 4 bedrms, 2 1/2 baths, finished basement, patio, must see. 751-8918 after 5:30.

COLONIAL - 4 bedrms, 2 1/2 bath, living rm, dining rm, den, patio, finished basement, must see. 751-8918 after 5.

MILLER PLACE PARK - 4 bedrm, 2 complete baths, den living, dining, laundry rm, 2-car garage. 1/2 acre, 3 blocks school, 2 bl Sound. \$47,000. Ext. 4622.

BELLPORT - Raised ranch, 5 bedrm, 2 baths, eat-in-kitchen, dr, deck, garage, 1/2 acre, \$43,000. 286-8195.

### For Rent

ROCKY POINT - Share house, water-view, priv beach, furn, all appl, 15 min to Lab, immed occupancy. 821-0578.

VERMONT VACATION - 3 bedrm mobile home w/fp, close to ski areas. Weekly, weekends, 473-8186 after 6.

VERMONT CAPE - 3 bedrms, 2 bath, fully equipped, fp, near major ski areas, week, weekend, mid-week, x-country ski. 732-6499 after 6.

MT SINAI - Compatible person wanted to share expenses for contemp 2 bedrm waterfront home w/fp, deck & wooded property. Approx \$200/month/person. Ext. 2008, 928-5875.

HOLBROOK - Condominium, 2 levels, carpet, all appl. \$350 + elec. 732-5711.

VERMONT - Ski, xcnty ski on gnnds, furn chalet, stone fp, weekend, weekly, share season. 757-5599.

WADING RIVER - Small 2 bedrm house, quiet location, beach rights, \$190/month + util, sub-let to June/Aug, renewal possible. 929-4014 after 6.

BELLPORT - Raised ranch, 5 bedrm, w/bath, dr, eat-in-kitchen, 1/2 acre. \$350/month. 286-8195.

BROOKHAVEN HAMLET - Apt in older country home, furn, util incl, mature adults pref. 286-0129.

### Wanted

SKI BOOTS - Buckle type; truck, 1970 or on, reasonable. Jack, Ext. 2462.

OBOE - High quality, excel cond. Bill, Ext. 4774.

HOME - For young calico cat or to pound she'll go. Irene, 589-6468 after 5.

BABYSITTER - Experienced w/infants, Stony Brook area. Gil, Ext. 2886.

RIM - 16.5x8.25, 8-lug, w/ or w/out 10.00 tire, need for spare. Al, Ext. 4103.

SOMEONE TO SHARE DRIVING - To Florida, 286-8945.

2 RIMS - For 13" Ford Pinto, reasonable. T. Newham, Ext. 2351.

2 RIMS - 15x6 to fit '73 Chevy El Camino, reasonable, M. Kinney, Ext. 2351.

CHEMICAL DRUM LIDS - Steel 20", or larger diameter. Dennis, Ext. 4830/2510, room 78.

MEN'S GOLF CLUBS - Set in good cond. Bill Taylor, Ext. 4662, 298-4089.

TRACK LIGHTING - Howard, Ext. 3179.

OLYMPUS - 1/2 frame cameras, working or not, esp "F" or "FT". Rich, Ext. 4172.

STEREO (3D) CAMERAS - Viewers, projector or any other equipment pertaining to 3 D photog, working or broken. Rich, Ext. 4172.

REWARD - \$5 to 1st person supplying info leading to purchase of film cutter for a Viewmaster "personal" stereo camera. Rich, Ext. 4172.

PORTA CRIB - High chair, car seat, other baby furn. 281-5296.

OXY-ACETYLENE - Welding & cutting equip. Ext. 2946, 744-7968.

BABY CARRIAGE - Good cond, prefer 3-way convert, car bed, stroller, import ok. Daly, 363-2497.

### Carpools

NASSAU COUNTY - Driver to fill 4-person carpool. Meets near Exit 48 IIE. Al or Joe, Ext. 4216.

MANHATTAN - Drivers or paying riders, Daniel, Ext. 2017.

BAYPORT - 5th person needed for Bayport carpool. Cy, Ext. 4085.