



## A Showstopper Of A Secretary

[The Week of April 19 is National Secretaries Week]

Pat Towey is a performer. And she has been performing for some years as Executive Secretary to the Nuclear Theory and Particle Physics Theory group, as well as cavorting before the footlights in various theatrical productions after 5 p.m.

She has been at the Laboratory for 22 years and in her usual quick-witted way says, "it seems like only 30." After three years in other offices at the Physics Department, she transferred to the then "tiny" theory group and has been there ever since. The staff now numbers 22 and some of them she has known throughout their scientific careers - from graduate students to senior staff members. She says, "I even knew Arthur Schwarzschild when he had dark hair."

She was secretary to Joseph Weneser for many years and has been assisting Ron Peierls for the last thirteen. Of her, Peierls says, "Pat is the only person I know who can answer two telephones while she is typing a mathematical manuscript and, simultaneously, have everybody in the office in stitches over an anecdote. Nobody has ever asked her to chew gum at the same time."

Soon the summer visitors will be arriving and she loves this period at Brookhaven even though it's "insane." She is thrilled at the number of Nobel Prize winners that have crossed her path during her years with the Theory Group - T.D. Lee, C.N. Yang, I.I. Rabi, E.M. Purcell, Ben Mottelson - and that to them she is "Pat."

Brooklyn born, Pat and her husband moved out to Long Island in 1954 after her parents gave them a piece of land "we couldn't refuse, it was free." As soon as they were settled, she kept after the Brookhaven Personnel Office until she was hired. She had been a telephone operator, and a billing clerk in the city and had finally mastered a speed writing course after being bounced out of business school because shorthand was a mystery to her. But her real love is the theatre.

Her first part was that of a male butler in an all-girl high school production of an epic called "Dorothy Verdon of Haddon Hall" - a play which she characterizes as "pure unadulterated girl fun." She loved singing and studied with several singing coaches until she received an offer to perform with a USO entertainment troupe. Her father would not allow her to go on the road and she eventually drifted away from trying to make singing a career, a fact which she regrets. Now, she says, "if I had my life to live over and were about 20 years old, I would be haunting New York City."

After her arrival at Brookhaven, she headed for the Theatre Group and landed a small part in a Laboratory production of "My Three Angels." From then on, she did one or two shows a year, both here and at the Sayville Musical Workshop. Musicals were her forte and she gave memorable performances in *Cabaret*, *Most Happy Fella*, *Gypsy*, and *Dolly*.

Several years ago, a cabaret act called "Showstoppers" was put together by Jerry Friedman and Tony Nappi, initially as entertainment for summer visitors. They were such a hit that the group stayed together for about five years performing for charitable organizations and other fund raising



Pat Towey

groups. Pat was a charter member and loved doing it. "Oh, we made fantastic money," Pat says, "like \$8 a night per person, and it was all eaten up in buying more music and aspirins."

She hasn't performed much in the last two or three years and is now devoting some of her time to the National Secretaries Association. This year Pat will represent Western Suffolk County as "Secretary of the Year" and will compete in Rome, New York, in May for the state title.

Pat has belonged to the Association for five years and finds she gets a lot out of it. According to her, it stresses the need for continuing education and strives to make secretaries more aware of their own capabilities. The organization also assists younger girls, who are just starting out on a career, in techniques of job applications and interviews. Her chapter gives two \$500 a year scholarships to young women for use in studies related to business administration.

Pat has been married for 28 years to Gerald Towey, a long-time member of the Upton Post Office. They are off to Ireland in about a week to take her mother back to her native land for a visit. This is Pat's third visit to the old country. It is a return to her roots and the source of her warmth and irreverent wit.

### BNL Lecture

"Gene Swapping" will be the subject of a BNL Lecture by Jane K. Setlow, Biology Department, on April 21, at 8:00 p.m. in Berkner Hall.

## Speed Of The Neutrino Is Measured

Joshua Alspector and George Kalbfleisch, Physics Department, were among a group of physicists from three universities and two national laboratories who announced the first direct measurement of neutrino velocity in *Physical Review Letters* on April 12, 1976. The neutrino is a particle with little or no mass and without electrical charge. The need for the neutrino was suggested in 1931 to explain radioactivity. It was not observed experimentally until 1953, after nuclear reactors became available.

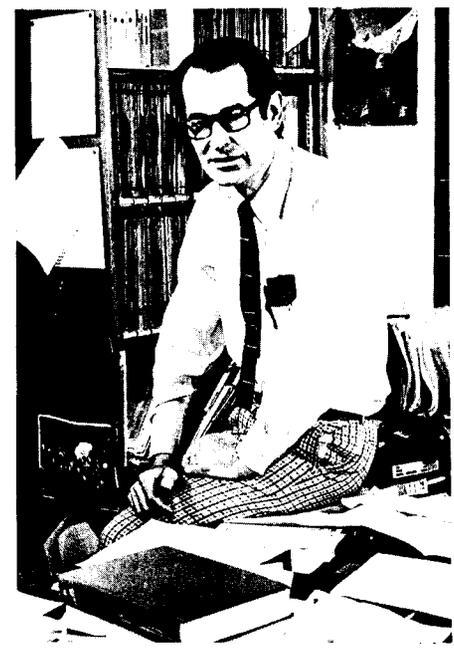
The velocity measurement was made in the neutrino beam of the Fermi National Accelerator Laboratory (FermiLab), to a precision of about five parts in ten thousand. Such precision was possible because of the grand scale of FermiLab's proton accelerator which has an energy of 400 billion electron volts and a diameter of one mile. The neutrino beam line itself is more than half a mile long.

Within the precision of this first measurement, the neutrinos fly through 1800 feet of dirt and steel at the same speed as light in free space. The enormous flight path through soil has led some of the scientists to suggest that this is truly a dirty experiment. A neutrino interacts so weakly with matter that it can penetrate material about one thousand times the thickness of the earth before it has a single interaction. The particles of light (photons) interact more strongly but also have no electrical charge and no mass; so the fact that the neutrinos move with the speed of light is not surprising. However, the neutrino is a rather peculiar member of the particle zoo. More precise measurements may well show that its velocity differs from that of light.



Joshua Alspector

Neutrinos for the experiment came from the decay of speeding charged particles produced when energetic protons from the accelerator struck a small metal target. At a moderate energy, only neutrinos could penetrate the 1800-foot shield of steel and dirt which lay between the evacuated decay pipe and the 150-ton detector made of electronic counters sandwiched between steel plates. At the highest available energy, other decay particles called muons could reach the detector. The measurement was made by comparing the distribution of arrival times of the neutrinos and the muons at the same counter. This pattern reproduced the short bursts of the protons orig-



George Kalbfleisch

inally striking the target. Therefore, the measurement indicated that all the particles travelled at the velocity of light. In some sense the experiment is like a race in which runners start in small groups every five seconds and all run at the same speed - the pattern of arrival times at the finish line is the same as the departures.

The other experimenters were: Neil Baggett and Earle C. Fowler, Purdue University; B.C. Barish, A. Bodek, D. Buchholz, F.J. Sciulli, E.J. Siskind and L. Sutte, California Institute of Technology; H.E. Fisk, G. Krafczyk and D.L. Nease, Fermi National Accelerator Laboratory; and Orrin D. Fackler, Rockefeller University.

## Enter Energy Expo

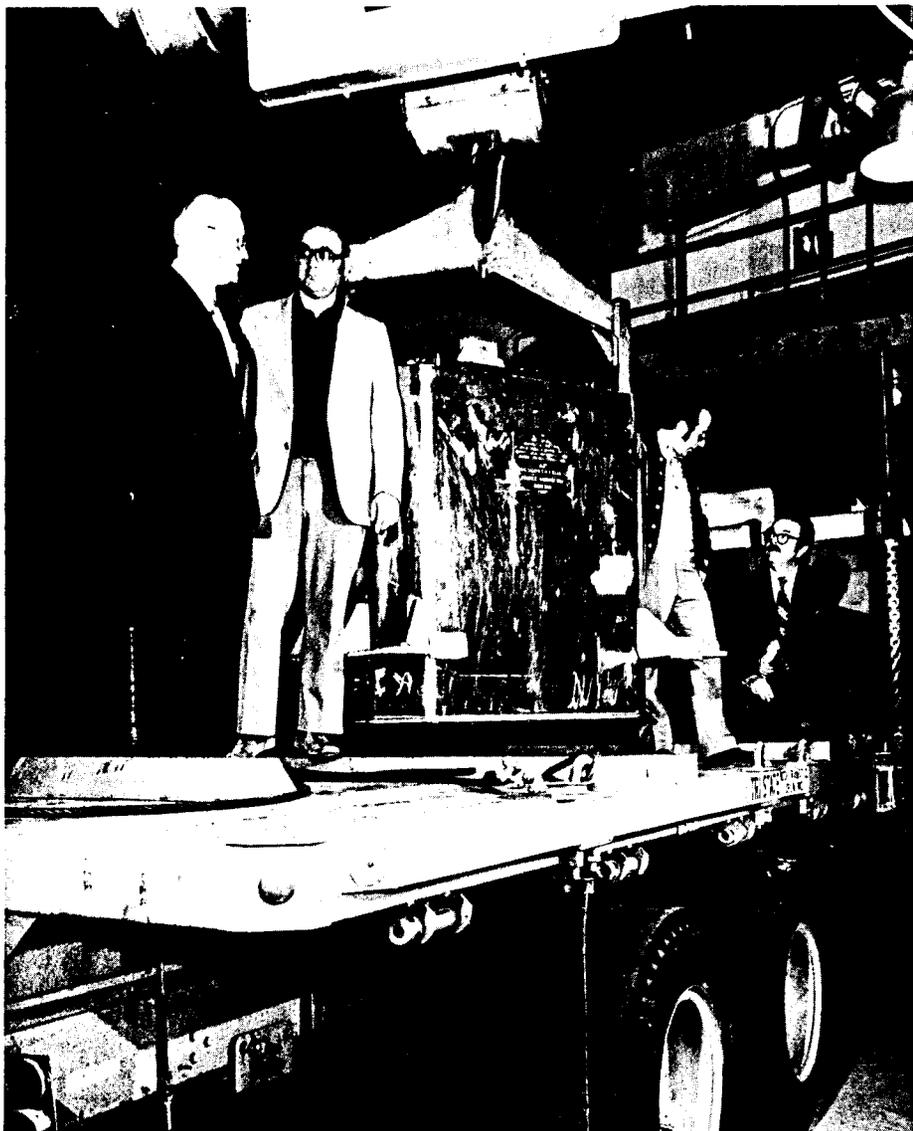
The house being built next to Berkner Hall is a visible reminder that the Energy Fair is shaping up. But, behind the scenes, there are almost sixty other exhibits in the works. Organizations and individuals from Maine to Florida are readying models of various energy devices and systems, literature, movies and slide shows for the Fair May 12-16.

This is Brookhaven's first go at an exhibition of this kind. From the way the phone is ringing off the hook at Public Relations, many people want to come to the Fair. Hundreds of students are planning to make it a field trip.

Solar energy techniques will be much in evidence. Among the exhibits are models of solar water heaters, solar panels, storage tanks, solar collectors and a solar greenhouse. A model of an elementary school in Georgia which has the largest and most sophisticated solar heating and cooling system in the world will be on display.

Exhibitors will not only be companies who are engaged in the business of solar energy, but also do-it-yourselfers. Arnold Roesch, Physics Department, will have a display of a solar panel made from recycled aluminum cans and of fruit that has been dehydrated by solar heat. One ninth-grade student has built a working scale model of a solar-heated house.

Pratt Institute will present six architectural models with alternative energy systems. (Continued on page 2)



The empty fuel cask which had contained the spent fuel elements from the HFBR was returned to the Laboratory from Savannah River, S.C. earlier this week, marking the sixth and last shipment on this historic run via the Orient Point Ferry. On hand to mark the occasion were some of the principal figures involved in the operation. From left, Associate Director Victor P. Bond, ERDA's David Schweller, Tri-State Corp driver Wally Wawczak who has been transporting the shipments for 11 years, and R.N. Hill, Purchasing Services Administrator.

## Library Offers Service To L.I. Researchers

A cooperative effort between the Technical Information Division and the Long Island Library Resources Council is making an extensive bibliographic service available to the major academic, public and industrial libraries of Nassau and Suffolk counties.

The Long Island Library Resources Council, a state funded organization, was created in 1965 to promote cooperative library projects for Long Islanders engaged in research. This includes students at the undergraduate level and above, researchers in industry and independent scholars, artists, scientists and those in such professions as architecture and law.

Brookhaven's Research Library, as a charter member of LILRC, has played an important role in the development of the Council. Members of the library staff have served on its Advisory Board and Standing Committees. The Research Library's most recent contribution to the work of the Council is the loan of its computer terminal for the Council's newest service, Project CISCO. Twice a week, Mrs. Judith Neufeld, the Council's librarian search analyst, comes to Brookhaven to conduct bibliographic searches for Council members. Using the commercial services of Lockheed's *Dialog* and SDC's *Orbit*, Mrs. Neufeld can search a variety of data bases composed of literature citations on a wide range of subjects including physics, chemistry, education, social sciences, psychology, agriculture, engineering and geology. Subject interests are broad, ranging from parapsychology to catfish farming, from robotics to myosin in non-muscular cells.

This experimental program is developing slowly and it is expected that with more publicity requests will increase. The twenty-five members of the Long Island Chapter of the Special Libraries Association who visited the Laboratory this week were given a two hour demonstration of the service. Should requests increase to the point that a full time search analyst is required, the Council will probably acquire a terminal and conduct the searches from its offices and Brookhaven will have had the satisfaction of participating in a bibliographic research project helpful to the community.

—John Binnington

## A Birthday Party

The theme of the next Hospitality Committee Tea and Sherry Party, to be held on Thursday, May 6, at the Brookhaven Center, is "Happy Birthday America."

We are looking for arts, crafts and antiques to exhibit at the Tea. If you can lend us any exhibition pieces that deal with colonial America, or if you know anyone who can, please let us know. We will handle all loaned articles with great care.

If you would like to help, call Lela Radeka, 286-0854; Stephanie Morris, 981-8370; Lucy Kinne, 941-9352; or Ruth Dimmler, 751-6342.

## Tour Guides Wanted

It is recruitment time again for BNL Tour Guides.

Both men and women are sought to guide groups of visitors around the BNL site and through various Laboratory facilities. Assignments per guide average three a year, and each tour usually takes half a day. There is a short indoctrination course for guides with the accent on the High Flux Beam Reactor. It is a good way to get to know the Laboratory.

If interested, first gain your department's approval and then contact Gail Williams, Office of Scientific Personnel, Ext. 3338.



Mrs. Ruth Pasternack received a copy of the resolution adopted by the Publication Board of the American Institute of Physics in honor of her late husband, Simon Pasternack, Editor of *Physical Review D*. The resolution which dedicated the Editorial Handbook to his memory was presented to her at a ceremony in Berkner Hall on April 5. From left, Chalmers Frazer, Managing Editor, *Physical Review*; A.W.K. Metzner, Director, Publications Division, AIP; and the Pasternack's son, Eric.

## Official & Special Events

Tuesday, April 20

Transportation of Radioactive Materials Meeting - Room B - Berkner Hall

Wednesday, April 21

BNL Lecture, Berkner Hall - 8 p.m.

Thursday, April 22

East Stroudsburg State College Tour

Friday, April 23

U.S. Military Academy Cadets Tour

## Cafeteria Menu

Week Ending April 23, 1976

Monday, April 19

Tomato Vegetable Soup  
Keilbasy w/sauerkraut 1.10  
Grilled Ham Steak & 1 veg. 1.25

Tuesday, April 20

Cream of Potato Soup  
Southern Fried Chicken & 1 veg. 1.10  
Macaroni & Cheese & 1 veg. 1.00

Wednesday, April 21

Beef Barley Soup  
Tuna Noodle Casserole 1.10

Mexican Special

Cup of Soup  
Tacos & Refried Beans  
Pie or Ice Cream

Small Beverage \$1.68 plus tax

Thursday, April 22

Chicken Noodle Soup  
Chili Dogs & Rice 1.00  
Salisbury Steak & 1 veg. 1.05

Friday, April 23

New England Clam Chowder  
Broiled Filet & 1 veg. 1.15  
Roast Sirloin of Beef & 1 veg. 1.30

## Expo

(Cont'd)

tens, one of which will be a futuristic "floating house" with walls of water and inflatable furniture, topped by a solar collector.

There will be exhibits of two systems that are often in the news - a floating nuclear power plant and a model demonstrating the offshore transfer of oil. ERDA will show "Atoms on the Move," a presentation on the nuclear fuel cycle, including transportation.

A minicar which operates on hydrogen and which incorporates technology developed at Brookhaven is expected to make its debut. Two electric cars and cars top-rated by the Environmental Protection Agency, will also be available for inspection.

The public will be able to check emissions from their own cars through the facilities of an energy van which will be on site for such testing purposes.

Environmental and consumer groups will be on hand to promote their viewpoints. One company will have a working model of an environmental water purification system which uses no electrical power.

The influence of energy conservation on housing construction will be demonstrated by displays of insulation for attics, insulated block panels, pipe wrap insulation, as well as a heat pump and energy saving doors and windows.

Other energy conserving techniques will feature a 76% efficient wood burning stove from Norway, an energy-conscious kitchen and a home garbage disposal unit.

The exhibits will be on display in and around Berkner Hall and in the Gymnasium.

## Pool Schedule

The swimming pool summer season will begin on May 1 and extend through August 31, 1976. Season passes will go on sale at the pool on Monday, April 26.

### Entrance Fees

Season Passes	
Employee	\$10
Family	\$20
Daily (effective May 1, 1976)	
Employee/Family Member	.75
Guest	\$1.00

### Schedule

Monday through Friday	
11:30 a.m. - 1:30 p.m.	Employees Only
5:00 p.m. - 9:30 p.m.	Employees/Families/Guests
Saturday and Sunday	
1:00 p.m. - 6:00 p.m.	Employees/Families/Guests

Only one guest per adult BERA member may be admitted to the swimming pool at any one time without prior arrangements. Adult BERA members may arrange to have more than one but not more than five guests at any one time by making advance arrangements with the Recreation Representative in the Personnel Office.

## Safety Shoes

Safety Shoes will not be issued on April 19 and April 26 (Monday afternoon). However, the shoe fitter will be available on Tuesday afternoon on both April 20 and April 27.

## Runners Corner

Just a reminder that the BNL Relay Race will be held on May 9. Distances for the relay will be 10, 5 and 2.76 miles. Those who wish to participate should get their applications in by April 26. Forms can be obtained from Bill Thomlinson, Bldg. 510B, extension 3978. For any further information, call Gus Prince, extension 2901.

## BROOKHAVEN BULLETIN

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### Inside Info

Joseph M. Hendrie, DAS Chairman, has been elected to the National Academy of Engineering and has been cited for his contributions to both physics and engineering of research reactors and to the safety of large power reactors. This is the highest professional distinction that can be conferred on an engineer.

John D. Axe, Jr., Physics Department, has been awarded a John Simon Guggenheim Memorial Foundation fellowship for experimental studies in solid state physics. The grants were given on the basis of "demonstrated accomplishment in the past and strong promise for the future."

Michael Bender, Medical Department, will serve as Co-Director with Dr. Harald H. Rossi, Columbia University, of the Radiological Research Accelerator Facility (RARAF). Dr. Victor P. Bond, who served as Co-Director since RARAF's inception, will continue as an investigator.

Martin Blume, Physics Department, has been appointed Chairman of the Synchrotron Radiation Working Committee to expedite the preparation of a BNL proposal for a synchrotron source of electromagnetic radiation. Other members of the committee are: J.P. Blewett, R.W. Chasman, B.C. Frazer, J.B. Godel, G.K. Green, M.L. Perlman and R.E. Watson.

### Soccer

John Skalyo

#### BNL 3 - St. John's University 1

The BNL soccer club met the St. John's redmen at the BNL Recreation Park and won 3-1 on Saturday, April 10. This was a return match which evened the score of a 2-1 loss at St. John's on March 20; BNL is advantaged on total goals 4-3 for the series.

The earlier loss found Cox as the sole goal-getter for BNL. The two goals for SJU came in the second half when a tiring array of mid-fielders couldn't keep pace with SJU on two breakaways.

The home game at BNL found a completely new mid-field array of players with F. Blume, Bottcher, Halliwell, and Woods controlling the area for the whole game. The wings were stronger at home also, with the addition of strong support from Gaffney on the right balancing Cox on the left.

The tone of the game was set early when at 12 minutes Gaffney took the ball in front of the goalie, moved to his right and placed the ball low into the corner of the net. At 33 minutes Batchelor put BNL ahead 2-0 which was how the half ended.

In the second half, Gaffney again solved the defense to put BNL on top 3-0 at 68 minutes. The game was not in doubt, although BNL eased up and permitted a lone SJU goal at 77 minutes (3-1). The defense of Fairchild, Levine, and Usher with Feiler in goal was strong in both games.

## Faces, Places



Helga Olender is a Chemistry Associate working with S. Srinivasan's water electrolysis and fuel cell research group in DAS. In brief, her job is measuring the half-cell currents of various catalysts in conjunction with fuel cell research. She has been at the Laboratory three months and says, "mainly I like the environment here and the challenge my work provides." She is married and lives in Westhampton.



Bill Keating is a Reactor Operator and will have been at the Laboratory 29 years on July 7. He started at the Brookhaven Graphite Research Reactor and has been at the HFBR for about ten years. He says, "I was raised on the job, so to speak, and I enjoyed growing with it." He is an avid golfer and does sculpture, oil painting and wood carving. Married, with five children and three grandchildren, he lives in Patchogue.

### Scotch Doubles Tournament Final Entry Date April 23

If you haven't already gotten an official entry form, the BERA Sales & Services has a supply ready for distribution.

The big event is scheduled for Saturday, May 1, from 2:00 - 6:00 p.m., at the Port Jeff Bowl. The rules of the tournament, adopted by the BNL Bowling Association, were published in last week's *Brookhaven's Bulletin*. A copy of the article is posted in the BERA Sales Office.

Cathy Van Noy, extension 2456, and Marie Brenner, extension 2457, are handling a Matchmaker Service for those having trouble rounding up a partner.

Irving Montanez, Chairman, will answer any questions regarding the tournament. Call him on extension 3582 or 3553.

### Bowling Tournament



Members of the BNL bowling team who are participating in the 33rd annual Long Island Invitational Bowling Tournament for Women, April 10, 17, and 24 in Hempstead are from left to right: Betty Roche, Lindora Boyd (alternate), Marge Stoeckel (captain), Cathy Van Noy and Marie Brenner.

## Classified Advertisements

### Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

74. TECHNICAL SPECIALIST - Extensive training and experience in the operation of FR-80 computer output microfilm processor. Assignment involves systems analysis and programming for an on-line microfilm processing operation. Photography & Graphic Arts Division.

75. SYSTEMS ANALYST - Assist in the formulation of linear programming models of energy systems and perform analysis and modeling of nuclear fuel cycles. Temporary position. Department of Applied Science.

76. RESEARCH SERVICES ASSISTANT - Temporary positions. Biology Department.

77. TECHNICIAN - Experienced in mechanical technology to include 2-3 years' high vacuum experience, including silver soldering and use of helium mass spectrometers. Power transmission project. Accelerator Department.

78. CHEMICAL ENGINEER - To assist in process design and evaluation studies in the Desulfurization of High Temperature Combustion and Fuel Gases Program and in the Conservation in Lime and Cement Industry Program. Department of Applied Science.

79. CUSTODIANS - Temporary positions. Staff Services and Plant Engineering Divisions.

### Autos & Auto Supplies

71 VOLVO - 164, automatic, 36,000 mi, orgi owner, am/fm, excel. \$2400. 567-0009 eves.

2 SNOW TIRES - H78x15 Uniroyal, used 2 seasons, excel tread. \$35. Bob, Ext. 4551, 289-2159.

2 SNOW TIRES - Goodyear polyglass belted, L78x15, mounted on GM wheels, used 1 season. Ext. 3828, 751-7250.

76 BUICK - Century Custom, white w/red interior, radials, mags, am/fm stereo tape deck, ac, Hearst Hatch sun roof. \$5500. 981-5993 after 6.

2 SNOW TIRES - Belted, on Toyota rims, \$15 each. Charlie, Ext. 2957, 744-3312.

72 CHEVY - Custom camper, 3/4 ton, 350 eng, 4 wheel drive. \$2800. Pat, 744-8425 after 6.

69 HONDA CB 160 - Excel cond, low mileage. \$300. Gene, Ext. 4670, 744-3945.

68 MERC WAGON - 8 cyl, auto, hitch. Asking \$500. 265-3731, Ext. 4547.

73 OLDS TORONADO - 23,000 mi, fully equipped. \$3800. 472-0531.

2 VW RIMS - \$7; (2) 13", \$5. O. Booker, Ext. 4719.

63 FALCON - 2 dr sedan, 6 cyl, auto, good cond. Rhodus, Ext. 3284, 924-3522 after 5:30.

66 COMET WAGON - 6 cyl std, good cond. \$450. Rhodus, Ext. 3284, 924-3522 after 5:30.

4 HUBCAPS - Supersport, 15". \$10. Sandra, Ext. 4207, 727-0560 after 5.

2 TIRES - J60-15", \$20; traction ladder bars for Chevy, \$40. Bob, Ext. 4672, 929-4753.

75 HONDA CR 125 - Dirt bike, racing head, air shocks, excel cond. \$675. 928-3088.

TIRE - A78-13, excel cond. \$8. R. Adams, Ext. 4417, 475-0002.

VW WINDOWS - Back & side for 62 VW, \$5 each; VW rims, \$5 each; 13" Sunbeam rims, 4-hole, \$5 each. Mike, 878-2486.

OIL FILTER - Lee LF-1HP, \$2; (2) 13" snow tires on Valiant rims. Marty, Ext. 3941.

74 DATSUN - 260Z, red, excel cond. \$5000. Adam, Ext. 3241 eves.

72 AUDI - LS100, ac, sun roof, automatic, low mi. \$2650. Ext. 3583.

## Autos & Auto Supplies

72 CHEVY NOVA - 2 dr htdp, 6 cyl, auto, pb/ps, very good cond, 27,000 mi. Eddie, Ext. 3082, 727-1069 after 5:30.

73 VEGA - 3 spd manual trans, radio, 8 track, excel cond. Asking \$1350. Bob, 475-8724.

2 TIRES - 9.50x16.5, General Jumbo Jet, good cond. \$30 for both. Paul, Ext. 2023.

73 DATSUN 610 - Gold wagon, 34,000 mi, 29 mpg, radials, am/fm, 4 spd. Bob, 698-9765.

54 PONTIAC - Excel cond, str 8, auto trans. \$675. Andy, Ext. 4497.

71 TOYOTA - Good cond, 28-32 mpg, new clutch, tires. \$700. Steve, Ext. 4008.

64 FORD - 289 eng, auto trans, ps, 4 dr, good running cond. \$275. Bob, Ext. 4679.

67 VW BEETLE - Good running cond. \$550. Al, Ext. 3941, 744-9866.

67 DODGE VAN - Standard 6 eng. \$450. Ext. 4108.

74 RICKMAN ENDURO - 125 cc, 900 mi, \$500 firm. Andrew Waski, 727-3887.

66 MERCEDES BENZ - 4 dr, mod 230, 6 cyl, 4 spd, body & interior good cond, 92,000 mi, running, engine needs work. \$600. Green, Ext. 2944, 473-2764.

69 VW BEETLE - Blue, white interior. Excel cond. Ext. 4851, 924-7547 eves.

74 DATSUN 610 - 4 dr sedan, ac, am/fm radio, reclining bucket seats, 110 hp, new paint, new steel radial tires. Asking \$3500. 744-2404.

## Boats & Marine Supplies

17' SAILBOAT - Fast planing hull, Mobjack class, equipped w/main sail, jib, spinnaker & trapeze, w/trailer, excel racing cond. Asking \$1100. Joe, Ext. 4069.

23' PEMBROKE - Sportfisherman, flying bridge, d/f, canvas, 6 cyl, extras, good cond. \$1500. Laird, Ext. 4068, 298-5092.

59 29' PACEMAKER - Sportfisherman, new eng in '74, 185 hp, V8, good cond, needs paint. \$1000. Ellis, 475-4305, 12-3.

59 EVINRUDE - Elec start, 50 hp, new plugs, completely checked over, still in winter storage, mint cond. \$150. Joan, Ext. 2549.

16' OPEN SKIFF - W/cent console fiberglass over wood, 71 40 hp Johnson manual start, orig owner. 475-3918, 924-3030.

73 WINNER 21' FIBERGLASS - 120 hp Merc, i/o, cabin w/head, dinette, stove, sink, ice box, many more extras. 473-8032.

34' BALTZER - 1953, twin 125 Chrysler crown eng, camper back, excel family or fishing boat. \$3700. 331-1718.

## Miscellaneous

CABINET - Provincial style, for bar or stereo. \$60. 928-2560.

MEDICINE CABINET - \$7; green ceramic soap dish, toothpaste holder, toilet paper holder, \$5; bathrm sink, \$20. 928-2560.

BOOKS - Used physics tests, good cond. Adam, Ext. 3241 eves.

OSCILLOSCOPE - EICO 460, Heathkit test chassis model EF2, all manuals, all brand new in cartons. \$125. Paul, Ext. 2023.

FURNACE - 12,000 btu, 12V forced air for camper or van. Cost \$190, asking \$100. Paul, Ext. 2023.

EICO 565 - Volt-Ohm milliammeter, new, never used, list price \$49.95, sell \$35. Paul, Ext. 2023.

GO CART - 3½ hp Tuc, blue, disc brakes, mags, slicks. \$115. 475-8211.

SPEAKERS - Electro-voice interface A w/equalizer, modern small speaker system, 14"x22"x8" w/ fantastic sound, perfect cond, must be heard. \$300. 473-8426.

RCA 19" B&W TV - Portable. \$25. 727-1329.

36" STOVE - Natural gas, 4 burners w/folding cover, old, clean, works fine. \$25. John, Ext. 2502, 751-6390.

REFRIGERATOR - 52" high, 1940's GE, ideal for apt or small kitchen. \$30. John, Ext. 2502, 751-6390.

ANTIQUÉ SEWING MACHINE - Singer, 60 yrs old. \$60. Bob, Ext. 4551, 289-2159.

21" ADMIRAL COLOR TV - In good working cond. \$25. Bob, Ext. 4551, 289-2159.

TURNTABLE & CARTRIDGE - Dual 701, direct drive, \$220. Shure V15 type 3, \$40, both slightly used. Ext. 3828, 751-7250.

GE WASHING MACHINE - 12 lb. \$35. 265-3364. Ted, Ext. 3515.

LEAVING FOR FLORIDA - Have HO layout, must sell, make offer, orig price \$250. Charlie, 744-3312.

TELEVISIONS - 23" color, Motorola console, maple, \$75; 19" B&W Zenith w/stand, \$25, very good cond. 581-5733.

FREE KITCHEN SINK - Used, white, American std w/ faucets, you pick it up. C. Goodzeit, 286-0271.

RIDING MOWER - Huff, elec start, 8 hp, 26" cut, 3 forward gears & reverse, air tires, hardly used. \$350. 475-7664.

KENMORE WASHER - Portable, 18 lb capacity w/ dryer, 110V, stacking stand, excel cond, moving, sacrifice. \$300, set. 281-1761.

CHILD CAR SEAT - Excel cond. \$7. 281-1761.

SEWING MACHINE - Remington, excel for student or beginner w/case. \$25. 281-5296.

LEAF VACUUM - Home made, gas powered, 4'x4'x 6½', built for pick up or utility trailer. \$35. Laird, Ext. 4068, 298-5092.

ORGAN - Hammond auto-base control, tape rec, leslie sp, extras. 878-4724.

RUG - Light blue polyester shag, 12'x14' w/pad. \$50. 473-2473.

SEARS FREEZER - 15.3, upright, warranty to 6/15/79. 878-2134 after 5.

WOOD BURNING STOVE - Cast iron, very good cond, \$60; upright piano, in good cond, \$50. P. Hichborn, 929-4133.

SINGER SEWING MACHINE - Slant needle, model 404 in cab, book, all accessories, button hole attachment, excel cond. \$80. P. Hichborn, 929-4133.

LIGHT FIXTURES - \$4 & \$5; plant hangers, \$3 each. 744-5871.

MEN'S SHIRTS - Medium, maroon & blue, \$4 each; spring coat, size 12, \$10; blue blazer, \$4. Ext. 3609.

MEN'S SHOES - 9M, brand new, \$15; new shirts, long sleeve 15-33 & 15-34, half sleeve, \$3 each. Ext. 3609.

23" B&W ZENITH TV - Small console, excel picture & cabinet, will deliver. \$50. Fred, Ext. 4597, 475-4935.

GE WASHING MACHINE - 2 yr old, 12 lb, ideal for apt. \$100. Lynn, 289-3870.

ELEC RANGE - Admiral, 289-6692 after 4.

SPRING COAT - Green check, good cond, size 14, \$8; men's brown & blue jeans, 34-32, \$5 each. 744-5871.

PIONEER RECEIVER - SX 1010, stereo, 100 watts, 6 months old, make offer. Dennis Turner, 924-3283/4 days, 744-4055 eves.

CHEST FREEZER - RCA Whirlpool, 8 cu ft, 36"x33"x 24", very clean, excel working cond. \$95. Nagle, Ext. 2263.

SPEAKERS - Car stereo w/grills, good cond. \$15 for both. 589-1069.

MEN'S 10 SPEED - Raleigh grand prix racer, like new. \$125. 473-0178.

MICROWAVE OVEN - W/defrost & browning dish. \$250, was \$439. Whitey, Ext. 2913, 928-3088.

TEAC CASSETTE TAPE DECK - Auto reverse, GXC-750, BSR 810 QX turntable. Dennis Turner, 744-4055, 924-3283/4.

BEDRM SUITE - Complete, walnut formica, like new; dining rm extension, 6 chairs, china cabinet, walnut formica. 289-0243.

MEN'S BICYCLE - 26" Schwinn. \$25. 744-0979.

JOHNNY JUMP UP - For child, 1-2 yrs. \$4. Les, Ext. 4074.

POOL TABLE - 7', used 3 months, balls, cues, ball return, folding supports. \$100. 751-0835 after 6.

FLUTE - Fine Armstrong, French keys, case, bargain at \$250. Ext. 4203, 751-0835.

YORKSHIRE TERRIER - Male puppy, ready April 3, superb companion, AKC, health guaranteed. Ext. 2902, 475-2627.

ROCKING HORSE - Low mileage, good cond. \$10. 286-8229.

BICYCLES - 20" girl's 3 spd, banana seat, hand brakes, excel cond. \$15; full size women's Schwinn, \$10. 475-4199.

2 END TABLES - Antiqued green, \$5 each; Shetland waxer & floor polisher w/attachments, \$5. Irene Merritt, 289-5126.

ORIENTAL RUG - Green, white & red design, 8'x 11½'. \$125. 475-4386.

SOFA - Traditional sofa w/green, orange, yellow print slipcovers, brand new & matching drapes. \$150. 475-4386.

LAWN MOWER - Toro 19" Whirlwind w/grass catcher, excel cond, 1 season old. \$95. 928-0297.

Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue

BABY ITEMS - Swing set, car seat, wooden play pen. Bob, 732-9517.

ORGAN - Wurlitzer spinet, double key board, like new, orig cost \$1600, sell \$800. 589-6151.

BUTLER'S TRAY - Early American coffee table, orig \$225, now \$150. 589-6151.

2 BOOKSHELVES - Pine wall units, early American, orig \$600, will sell for \$350. 589-6151.

LOVE SEATS - 2 off-white practically new, orig \$350 each, will sell both for \$450. 589-6151.

HYDRANGEAS - Potted 3 yrs old, \$2 each; American holly, up to 4', \$2 per foot, dig your own. John, 744-5867 after 6.

LIVING RM FURNITURE - Clayton Marcus couch, love seat, 2 dark pine end tables, new. \$450. 475-5903.

PACHYSANDRA - Good ground cover, 50 plants for \$5. Peter, Ext. 2528, 744-5448.

SWIMMING POOL - 15'x42", brand new, still in boxes. \$400 includes ladder, skimmer, filter, cover, liner. 281-1983 after 5.

300 MM LENS - Soligor auto 300mm F 5.5 tele lens, Bayonet MTG mit Nikon, etc, used twice, orig carton, \$90; Haze filter, \$5. Ext. 4641.

DOUBLE BED - Maple, \$15. Andy, Ext. 4497.

PA SYSTEM - 200 watts, 6 chan, 8-12" speakers, excel cond. Asking \$525. 289-0753.

CLARINET - Bundy, needs reconditioning, \$25; Sanky movie camera w/light. \$45. 289-0753.

DOG HOUSE - For medium sized dog, w/removable roof for easy cleaning. \$15. Ed Okula, Ext. 3082/3083 after 4:35.

DINING RM TABLE - 4 chairs, 5 leaves, also walnut cocktail table. Lois, Ext. 3046, 751-0023 eves.

FURNITURE - 1 bedrm suite, tb, mahogany; 1 bedrm suite, tb, walnut, good cond. 363-7119.

B&W TV - Excel cond, reasonable. 363-7119.

BABY ITEMS - Crib w/mattress, high chair, play pen, dresser, etc. 744-4942.

RAZOR - Norelco triple header, used once, paid \$28, sell \$15; junior crib for infant. L. Arnold, Ext. 2024, 281-2136.

3 LOUVER DOORS - 18"x84", \$6 each; channel master rotor, \$15. L. Arnold, Ext. 2024, 281-2136.

AMER INDIAN JEWELRY - Sterling silver, turquoise, rings, necklaces, bracelets, bolas, earrings, some signed pieces. Marie, 588-5586.

SWIM POOL - Above ground 18'x4', liner in good cond, extra lg filter, 4 yrs old, replaced by in-ground type. 286-3615.

SIMMONS HIDE-A-BED - Steel frame, double size, gray vinyl, excel clean mattress. \$50. Corlis, Ext. 4376/4438, 472-1585 after 6.

## 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

BROOKHAVEN - Colonial 4 bedrm, 2½ baths, 2-car garage, full basement, fireplace in large living rm, formal dining, country kitchen, den, ¾ acre, Middle Is Schools. \$47,900. 286-0158.

MIAMI - Land for sale, 1-5 acres. 399-1005.

RIDGE - Levitt Strathmore duplex townhouse, 2 bedrm, 1½ baths, central air, w/w carpet, 5 appl. 924-4070, Ext. 3541.

E. PATCHOGUE - Victorian, 10-rm colonial, 1 + acre, 2-car garage, rock garden, gazebo, beautiful shrubs, trees, circular driveway, full basement. 475-0168.

MASTIC - 3 bedrm ranch, w/w carpet, full basement, eat-in-kitchen, appl, fenced yard, near Lab. \$31,000. Ext. 2042, 399-0374 after 5:30.

BROOKHAVEN HAMLET - 9 rooms, fireplace, 1½ baths, 4-5 bedrms, study, 2½ car garage, small barn, boat landing, woods, marsh, 2.4 acres. 473-7667.

LEVITT STRATHMORE - Duplex townhouse, 3 bedrm, 1½ baths, wooded location, ac, w/w carpet, 5 appl, fenced patio, landscaped, low maintenance, owner sacrifice, low 30's. Ridge, 924-3361.

STRATHMORE RIDGE - 2 bdrm condominium, central ac, upgraded carpet, immaculate cond. \$3500 takes over \$20,000 mortgage. 924-3666 eves.

SHOREHAM - Large (2500 sq ft) custom cape, 6 bedrms, 2½ baths, lg kitchen, fireplace, 1 acre, beach rights. \$65,000. 821-0303 eves.

YAPHANK - German Gardens, older home, 3 bedrms. 924-4286.

MILLER PLACE - Water front, contemporary, 6 bedrms, 3 baths, 3 entrances, all appl, private beach, principals only, eves & weekends. 928-0348.

RIDGE/LAKE PANAMOKA - 3 bdrm ranch, full basement, 16x20 sun deck, 100x113 wooded lot, lake rights, Tarkill Rd. \$33,000. Ext. 4308, 727-9334 after 6.

WADING RIVER - 3 bedrm ranch, 1380 sq ft, oil heat, new well, all appl, basement finished & carpeted, 4 rms w/elec heat, completely paneled, 1.8 acres in Woodland Acres. \$57,000. Helen, Ext. 3415.

N. PATCHOGUE - 3 bedrms, finished basement, 1½ car garage, fenced yard. \$30,000. 475-6880 after 6.

## For Rent

3 VILLAGE AREA - Well furnished, 2 bedrm ranch, lovely property, central air, finished basement w/bar, priv community beach, 12-14 month lease, begin 6/1. S. Lindenbaum, Ext. 3918.

ROCKY POINT - 2 bedrm house, lg living rm, near LI Sound, no pets, see to appreciate. 744-9724.

APT AVAILABLE - Pine Hills Country Club, Exit 69, immed occupancy. \$240/mo. 924-8092.

BELLPORT - Spacious 2 bedrm apt, lower floor of duplex, private entrance, garage, all util, 1 yr lease required, avail May 1. 286-8850.

FURNISHED APT - Share apt w/male. Ext. 3800, 585-3794.

## Wanted

USED REELS - Crack 300 or Luxor brand, any cond, for parts. Ext. 4058, 286-0436.

MEN'S BICYCLE - & women's bicycle, 3- or 5-speed. Ext. 3583.

BASEBALL CARDS - Gum, bread, tobacco purchased. Keith, Ext. 3385, 286-9047.

JEWELRY DONATIONS - Old, used, no longer wanted. Needed for church fair. Cheryl, Ext. 4231.

BABYSITTER - Reliable in Shoreham, my home, 2 afternoons/week, 2:15-5:15. 744-7542 after 5:30.

SLEEPING BAG - Girl scout & girl scout camping equip. 298-4089.

TO RENT OR HOUSE SIT - 2 bedrm furn house or apt, need by July 1. Ext. 3609.

OLD GUNS - Esp good grade double barrel shotguns, top prices paid. 325-0098.

PICKLE RECIPES - Old fashioned using barrel method for bicentennial exhibit. Ruth Fillo, 751-4903.

2 OR 3 BEDRM HOUSE - To rent Bayport, Blue Point, Bellport, Brookhaven or East Patchogue. Ellen, Ext. 3747.

TENTS - For June campout by Wading River/Shoreham 7th graders, will return in orig cond. Rick, 929-4551 after 6.

SCRABBLE PLAYERS - Bellport area, non-fanatic. Bernstein, Ext. 4379.

ONE TERRIFIC CROCKPOT - W/heating unit inside pot. Sharon, 878-2591 after 6:30.

DEHUMIDIFIER - Andy, Ext. 4497.

2 MAN TENT - Preferably waterproof. Jim Lynch, Ext. 4510, 698-8614.

BAND - For parent's 25th wedding anniversary party, poor daughters seek good music for reasonable price. Diane, Ext. 2079.

AUTO REPAIR MANUALS - & owners manuals. Mike, 281-3460.

WOMEN TO INTERVIEW - Women 40-55 to supply psychological, sexual, emotional histories in taped interviews for book on understanding successes & failures of passage thru middle age. Anonymity guaranteed. 751-1401.

HOUSE TO RENT - 2-3 bedrm, starting July 1. Ext. 3856.

2 BEDRM APT - Quiet couple and 2 teenagers from the Big City want 2 bedrm apt, bath & cooking facilities in Wading River near beach. Weekends only. May-Sept or July-Aug. Janet, Ext. 3326, 929-8152.

## Car Pools

MILLER PLACE - Driver wanted for already existing car pool. Ext. 3609.

FREEPORT/ROOSEVELT/HEMPSTEAD - Driver(s) wanted for existing car pool. Oho, Ext. 4248.

BELLPORT/BROOKHAVEN - Opening in existing car pool, arrangements informal & flexible. Trudy, Ext. 3786.

MANHATTAN - Interested in joining car pool to Manhattan. Jim, Ext. 2485.