

1978 AUI Scholarships Awarded



Daniel Bloch



Andrew Albert



Franklin Chow



Carol Ann McKeown

Once again, twelve children of Brookhaven employees will go off to college in the fall with a generous assist from Associated Universities, Inc. Each student will receive an annual scholarship of \$1,250 for up to four years.

The successful applicants were notified last week by the Educational Testing Service (ETS) which administers the program for AUI. An independent committee appointed by ETS selected the winners from among 106 candidates. In addition to the twelve Brookhaven scholarships, two were given to children of employees of the National Radio Astronomy Observatory, which is also managed by AUI.

The 1978 Brookhaven winners are:

Andrew I. Albert, son of Carolyn Albert, National Synchrotron Light Source. Andrew is a resident of Riverhead, attends Riverhead High School and plans to enter Syracuse University in the fall.

Daniel L. Bloch is the son of Fritz Bloch, retired. He plans to attend Harvard University. Daniel lives in Bellport and will graduate from Bellport High School.

Alan H. Bornbusch, son of Henry G. Bornbusch, Plant Engineering, is a student at Bellport High School and lives in Brookhaven. He will enter Williams College in September.

Franklin T. Chow is the son of Joe G.Y. Chow, Department of Nuclear Energy. A resident of Northport, Franklin attends Kings Park Sr. High School and will be off to the University of Rochester in the fall.

Evan R. Cohn, son of Stanton H. Cohn, Medical Department is a resident of Smithtown. He attends Smithtown High School West and will enter Harvard University in September.

Mary Ellen Keane is the daughter of John Keane, Accelerator Department. She lives in Centereach and is a student at Centereach High School. She plans to attend the University of Virginia.

Carol Ann McKeown, daughter of Marilyn and Michael McKeown, Physics Department, is a resident of Brookhaven. She is currently attending Bellport High School and will go to the University of California at Santa Cruz in the fall.



Alan Bornbusch



Mary Ellen Keane



Evan Cohn



Laurie Morris

Laurie A. Morris, daughter of Thomas W. Morris, Accelerator Department, will attend Dartmouth College. She lives in Shoreham and is a student at the Shoreham-Wading River High School.

Ludmila D. Pavlova, is the daughter of Maria Pavlova, Medical Department. She attends Longwood High School and lives in South Haven. In the fall she will be off to Princeton University.

Mitchell J. Schulman, son of Herbert Schulman, Safety and Environmental Protection Division, is a resident of Port Jefferson Station. Currently a student at Comsewogue High School, he will attend SUNY at Albany in September.

Steven Warner is the son of George C. Warner, Accelerator Department, and lives in Farmingville. Now a student at Sachem High School, he plans to enter SUNY at Stony Brook.

Roderick P. Woodhead, son of Avril D. Woodhead, Biology Department, will enter SUNY at Stony Brook in the fall. He lives in Setauket and is a student at Ward Melville High School.



Mitchell Schulman



Ludmila Pavlova



Steven Warner



Roderick Woodhead

Soviet Visitors At Superconducting Power Transmission Test Facility



Three Soviet visitors have spent two weeks at Brookhaven discussing superconducting materials for power transmission cables. Shown left to right are, E.B. Forsyth, V.M. Pan of the Kiev Metallurgical Institute, D.E. Rummyantsev and E. Blinkov of the Krzhizhanovskiy Power Engineering Institute, S. J. Amoretty and J.F. Bussiere.

MPS Featured in BNL Lecture

The Multiparticle Spectrometer (MPS) is an instrument incorporating a high speed electronic system which allows scientists to observe the interactions of 100,000 particles a second from the AGS with a hydrogen target. This phenomenal rate permits detection of rarely occurring events.

In a BNL Lecture on May 10 at 8 p.m. in Berkner Hall, S. J. Lindenbaum, a senior physicist and one of the principal developers of this system, will outline the relationships of MPS investigations to other branches of physical science. He will also discuss why and how MPS investigations are undertaken and performed.

The MPS has been probing the matter states of elementary particles made up of the three well-known basic building blocks called "quarks." Intensive searches are now under way to observe elementary particle states which include the newly discovered charmed quark first found in the J particle discovery at Brookhaven.

The system is computerized and automatically reconstructs the path and characteristics of the charged particles created when a high energy particle strikes a proton. MPS contains a 700 ton magnet full of electronic detectors such as spark chambers, proportional chamber hodoscopes (planar arrays) and scintillation counter hodoscopes, surrounding a liquid hydrogen target. The electronic signals from these and other auxiliary devices are fed to the On-Line Data Facility's Data Handling and Computer Equipment, which, both mathematically by computer printout and visually via TV screens, tells the research physics team about the basic structure of elementary particles.

The MPS was designed and constructed primarily by the Lindenbaum-Ozaki group, with significant assistance from university user groups. It has become an important facility serving the university user research teams.

Lindenbaum, Co-Group Leader of the Particle Spectrometer Group, is also Mark W. Zemansky Professor of Physics at the City College of New York. He received his Ph.D. in physics from Columbia University in 1951 and, in that same year, joined the staff of Brookhaven's Physics Department.

Soon after his arrival, he developed the first gaseous Čerenkov counters and these particle selection devices are still widely employed in high energy experiments. He designed the Cosmotron shield and the basic parameters for the Alternating Gradient Synchrotron shield. In 1957 he served as a consultant on shielding to the Centre D'Etudes Nucleaire de Saclay of France.

Lindenbaum was responsible for the original development of the on-line computer



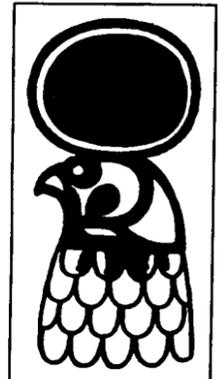
S. J. Lindenbaum

technique and the associated counter hodoscope detector system. In 1962 he and his group did the first on-line computer experiments. As an outgrowth of the experiments, the Physics Department established an On-Line Data Facility in 1964, and Lindenbaum became chairman of the policy committee and group leader of the user facility. His group then utilized a new Double V(ertex) Magnetic Spectrometer system with on-line computer and, in the next several years, published a number of papers on the dynamics of strong interactions observed. In 1975 the MPS, which he and his associates had been working on since 1971, was completed.

From June 1976 through September 1977, Lindenbaum was on leave from Brookhaven to serve as Deputy for Scientific Affairs, High Energy Physics Program of ERDA's Division of Physical Research.

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. 3541 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the lecture.

See
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For
Details





Aided by the sun focused on the ribbon by a Fresnel lens, R.C. Anderson, Assistant Director, "cut" the ribbon at 10 a.m. to open the Sun Day.

Sun Cooperates On Sun Day

The sun and wind were present during the day and so were over 3700 people at Brookhaven's Sun Day on April 30, the first of the celebrations organized throughout the County to bring solar power and other alternative forms of energy to public attention. May 3 was the official Sun Day, but as the Laboratory could not accommodate the public on a working day, it opened its doors on Sunday. The displays were concentrated in and around Berkner Hall and the Exhibit Center, and bus service was provided between the two points.

A popular demonstration outside Berkner Hall was a simple do-it-yourself cooker which cooked hundreds of cocktail franks

and solar soup (consommé) by the sun's rays. Inside the Hall, Brookhaven's *Quest* and LILCO's film on solar energy, "Tapping the Source," ran continuously, and four performances of a stage show on energy played to full houses. Young visitors were asked to participate in some of the demonstrations, for example, vigorously pedaling a bicycle to create enough energy to turn on a TV set.

Brookhaven staffers were on hand at the Exhibit Center to man some of the displays and to answer questions on energy. Besides viewing the special solar exhibits, visitors also were intrigued with the span of Brookhaven's research illustrated by the perma-

nent exhibits at the Center.

In addition to LILCO, which provided several solar displays and buses to transport visitors to the new solar homes in Wading River, other contributors included: Boces 2 students, Brookhaven Town Environmental Protection, DOE, Grumman, Sayville Elementary School, Suffolk County Cooperative Extension Bureau and Suffolk County Federal Savings.

Question: Which is the bigger energy consumer, a straight razor or an electric razor?
Answer: A straight razor - mainly because of the energy required to produce the hot water for a shave.



Karl Rosenbaum discusses a solar air collector with a visitor. The solar group is pursuing basic research on solar collectors, heat pumps and absorption cooling.



John Bouffard, Oak Ridge Associated Universities, rode an electric minibike around Berkner Hall at the close of the energy show, which was designed by ORAU and sponsored by the New York Power Pool. By the use of clever demonstration techniques, the presentation clearly illustrated the energy picture.



Frank Di Crescio manned the heliostat project exhibit. The heliostat is under development by Gary Cottingham's solar group.



In a windy spot next to the Exhibit Center, Ed MacDougall's Rhode Island Reds were snug in their solar henhouse.



Young visitors were fascinated by a radiometer at a LILCO solar energy panel.

About The New Trucks

The recent arrival on site of compact pickup trucks with DATSUN inscribed on the tailgate has raised the question: what happened to "Buy American"?

The answer is not that purchasing policies have changed. Rather, buying habits of both the private and public sectors have changed. Purchase of foreign equipment has always been allowed if certain criteria were met, i.e., a significant dollar saving or no American competition. The latter is the case with our recently delivered compact pickups. There are no similar vehicles manufactured in the U.S. Ford's Courier and Chevy's LUV, are manufactured in Japan.

The energy crunch has made everyone consider the purchase of smaller vehicles. BNL is no exception. The General Service Administration buys all our Government vehicles on a bid basis. Datsun was the low bidder and the color is as close as they could get to "Manufacturer's Standard Dark Green."

— William S. Webster

An Unexpected Visitor

Building 480 became a temporary wildlife refuge last Thursday, when a young doe, which had been chased by a dog, crashed through a window on the north side of the building and landed in an office in the Metallurgy Division.

Laboratory police waited with the frightened deer until a New York State conservation officer arrived at the scene. After the officer determined that the deer had only superficial cuts which required no treatment, it was tied up and carried outside, where, according to witnesses, it "took off like a shot" for the woods after being released.

The office in Metallurgy was occupied by two people when the unexpected visitor arrived; luckily, neither of them was hurt. They did, however, take the precaution of erecting a makeshift sign later in the day: "Caution - Deer Crossing."

New York Train Trip

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, May 17. Departure will be at 8:32 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$2.45, children under six years ride free.

Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York 11973, no later than *Thursday*, May 11. Make checks payable to "Brookhaven National Laboratory." Your tickets will be given to you at the train station. Refunds will be made only if cancellations are received by the *Friday* preceding the scheduled trip.

La Vache Qui Rit

The French Group of BNL will sponsor a showing of the film "The Cow and I," at 8 p.m. on Tuesday, May 16 in Berkner Hall.

La vache et le prisonier is based on a true story by Jacques Antoine, depicting the ingenious escape of a French soldier from a German prison camp, accomplished by taking a cow and a milk pail and walking four hundred miles to the border and freedom. While the film takes a few pokes at the absurdities of war, for the most part it simply lets Fernandel, the late French comic genius, do his thing. The film also features Marguerite (the cow), Rene Havard, and Albert Remy; dialog is in French, with English subtitles.

All members of the BNL community and their friends are invited to attend; those who are not members of *Le Cercle Francais de BNL* will be asked for a contribution of \$1.50 (75¢ for students) to help pay for the film and refreshments, which will be served afterwards.

Women Golfers

The BERA Golf Association is planning to have a league exclusively for women. If you are interested in playing golf but don't want to play in the regular BERA golf league, we have the answer. Our season will be shorter this year and if enough women request it, we can probably arrange for some basic instructions.

If you are interested, please contact Audrey Blake on Ext. 3489.

BROOKHAVEN BULLETIN

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Letters To The Editor

To The Editor:

Special thanks to administrators, advisors, professors, librarians, and everyone at BNL who has helped to make this a successful learning experience.

—Brookhaven Semester Students
Spring 1978

King Tut At The Met

A special opportunity for employees to view the King Tutankhamun treasures at the Metropolitan Museum next year is now being offered. Group excursions for Lab employees and their guests are being organized on consecutive Mondays, during the day, commencing in January 1979. The buses will depart from the Laboratory.

The deadline to sign up for one of these excursions is Thursday, May 11. Checks made payable to Brookhaven National Laboratory must be delivered to "King Tut," Box 322, Upton, New York 11973 before noon on May 11. The cost is \$15 per person, which includes the Museum entry fee and round-trip bus fare. Please provide a Lab or residence telephone number with your payment. Details of arrangements will be confirmed in future issues of the *Bulletin*. Don't miss this chance to see this incredible exhibit. It will be mobbed during its New York stay.

BNL Singers

The first rehearsal of the BNL Singers will be held in Berkner Hall on Thursday, May 11, at 12 noon. All are welcome.

Arrivals & Departures

Arrivals

Lucion Bloxon III Plant Engrg.
Rhea Chergey Tech. Info.
Joseph M. Collins Plant Engrg.
Joseph Cracco Accelerator
Peter E. Hammer Applied Math.
Jesus Marte Plant Engrg.
Glen R. Mitchell Energy & Env.
Daniel P. Mullaly Accelerator
Carl J. Pozgay Accelerator
Theodor Teichmann Energy & Env.

Departures

Jay C. Rowland, Jr. Plant Engrg.
Carol A. Russo Medical

Runners Corner

The BNL Roadrunners emerged victorious in the recently completed 3000 mile/3 month challenge race with Westinghouse. During 3 months of arduous winter running, the BNL'ers completed 3479 miles at an average overall rate of 7:01 minutes per mile. Due to very poor local running conditions during January and February, the Westinghouse team was permitted a two-month extension to log more miles. Westinghouse finished with an overall rate of 7:28 minutes per mile, making BNL the winner in this second match-up between the two teams.

Congratulations to the BNL team, which included (recorded mileages in parentheses): David Alburger (249), Bob Bari (41), John Beerman (142), Erik Cazzoli (294), John Duggan (175), John Ferrero (125), Dick Fuller (308), Jim Guppy (127), Dick Hogue (216), Ted Landry (763), Gus Prince (368), Don MacKenzie (65), Tom McMahon (431), Bill Thomlinson (98), and Ron Weider (77).



Janice Button-Shafer



Austin Reller

Violin-Piano Duo In Concert

Austin Reller and Janice Button-Shafer will play Beethoven's "Kreutzer" Sonata and the Brahms D minor Sonata, at 9 p.m. on Monday, May 15 in Berkner Hall. The concert is free.

Mr. Reller, a native of San Francisco, studied with Naoum Blinder (Isaac Stern's teacher), Henryk Szeryng and Nadia Boulanger. A well known soloist on the West Coast, he made his New York debut at Town Hall in 1965. John Gruen, in the Herald Tribune, wrote "... it was Mr. Reller's New York debut, but so polished, secure and knowing were his performances that one hardly suspected it. Beethoven's 'Kreutzer' Sonata was the evening's big number, and no better test could show

what a fiddler can and should do. Reller gave it fire, lyricism, beauty of line, and all manner of color, in short a performance of true distinction."

Janice Shafer started piano lessons at the age of seven. She performed as soloist with the Dayton Philharmonic at the age of 15. Some years ago Ms. Shafer decided to pursue physics as a career and music for pleasure. Currently she is Professor of Physics at the University of Massachusetts and spokesperson for AGS experiment 698 at the Multiparticle Spectrometer. Despite the demands of teaching and research, Ms. Shafer still finds time for music and has often played in concert with Mr. Reller.

Hospitality Committee

A morning coffee will be held in the Brookhaven Center on Tuesday, May 9, from 9:30 to 11:30 a.m.

All wives of Laboratory employees are welcome. Please come and bring the children. It is suggested that you bring along a toy for your child to play with.

Cafeteria Menu

Week Ending May 12, 1978

Monday, May 8		
Tomato Bouillon	(cup)	.30
	(bowl)	.40
Franks & Beans		1.10
London Broil & 1 veg.		1.45
Hot Deli - Pastrami	(on bread)	1.15
	(on roll)	1.25
Tuesday, May 9		
Minestrone Soup	(cup)	.30
	(bowl)	.40
Saga's Home-made Lasagna & 1 veg.		1.35
Chopped Steak & 1 veg.		1.10
Hot Deli - Knockwurst	(on bread)	1.15
	(on roll)	1.25
Wednesday, May 10		
Split Pea Soup	(cup)	.30
	(bowl)	.40
Short Ribs of Beef & 1 veg.		1.40
Fried Rice & Pork w/Chinese Noodles		1.30
Hot Deli - Italian Sausages & Peppers Hero		1.25
Thursday, May 11		
Puree of Mongol	(cup)	.30
	(bowl)	.40
Chicken Cacciatore on Noodles		1.20
Beef Liver w/Onions & 1 veg.		1.15
Hot Deli - Barbequed Beef	(on bread)	1.15
	(on roll)	1.25
Friday, May 12		
Clam & Celery Soup	(cup)	.40
	(bowl)	.50
Pot Roast & 1 veg.		1.40
Seafood Cakes & Spaghetti		1.10
Hot Deli - Smoked Tongue	(on bread)	1.15
	(on roll)	1.25

New York Tech Courses Set

Cycle D of the New York Institute of Technology's Accelerated Degree Program at Brookhaven will begin the week of May 22. Orientation is scheduled for May 16 from noon to 1:00 p.m.; registration and book sale for May 18 from noon to 3:00 p.m.; both in Berkner Hall.

All classes will be held in Room 101 of

Bldg. 555 (Chemistry) and are scheduled from 5:15 to 7:45 p.m. on the days noted below. No classes will be held on Memorial Day, May 29, and Independence Day holidays, July 3 and 4.

The following are the courses offered in this cycle:

Course Number	Title	Cr.	Cost	Day	Start	End
3501	Managerial Accounting	3	\$150	Mon	5/22	8/7
1020	English Composition II	3	\$150	Wed	5/24	7/26
2450	Human Relations in Industry	3	\$150	Thur	5/25	7/29

Rifle & Pistol Club

A meeting of the Rifle and Pistol Club will be held in the Conference Room of the Medical Building on Wednesday, May 10, at 5:15 p.m. (Please note change of meeting place.)

A special feature will be the showing of a film entitled "A Question of Hunting." Anyone interested in seeing this movie is cordially invited to attend.

Soccer

Port Jeff won the indoor soccer league. The last week's games were inconsequential, but the second place Stony Brook squad took solace in a 4-2 victory over Port Jeff.

Informal pickup games will be played outdoors at the BERA Park every Monday evening at 5:15, starting on May 8. Interested persons need only show up.

Final Standings

Team	W	L	T	Pts.
Port Jeff	10	2	3	23
Stony Brook	7	3	5	19
AGS-Chem	7	6	2	16
Energy-Med	6	7	2	14
Physics	3	10	2	8
Shorcham	3	12	0	6

Bowling

Pink League

Team standings are not available till the Personnelities bowl their makeup game.

The Gutter Getters took 7 but did Lindora Boyd have to try to do it all by herself? After a reasonable first game, she perked up to a 200 and then with the adrenalin flowing beat that with a 227 - giving her a beautiful series of 573.

Marie Brenner led the other bowlers with 172/175, Pat Oster had a 174, Marge Stoeckel 170, Carol Beckner 165 and Alice Trubisz 162.

Red League

A nice night for C. Bohnenblusch, a 242 game, 614/686 series (107 pins over average) leading the Sandbaggers to an 11-0 win over the Old Timers II. R. Meier had a 220. The 76'ers bowled great (3030 pins with an 1102 game) to down the Old Timers 8-3. R. Larsen had a 202/227 (620/641) night. That's the eighth time Rich had over 600 scratch. J. Connelly also bowled well with a 223-576/636 series. For the Old Timer, R. Adams had a 202. The Bubble Boys took the Blue Jays team 7-4. R. Barberich had a 211-542 scratch.

The Cosmos split their match with the Pick-Ups 6-5. The Anachems could only manage 3 points from the Got-A-Hit-Ums. Ed Gill had a good night with a 208-565/667 series which was 94 over average. The Designers only won 4 points from the Pinball Wizards. The Freon Loaders lost 8 to the red hot Sparks team. F. Stahman had a 548 series in this match.

Green League

Congratulations are in order for the Sparks who won the second half. They will meet the Blue Jays, the first half winners, on May 16, to determine the winner in the Green League. The Sparks took eight from the Freon Loaders with J. Carroll rolling a 207. The Old Timers II got bombed as the Sandbaggers took them for eleven. The Pinball Wizards came up with seven points from the Designers, while the Blue Jays could only muster up four points from the Bubble Boys. J. Berech had a 202. The Got-A-Hit-Ums took eight from the Anachems. The Dyno-Mites took eight from the Trouble Shooters. R. Vignato had a 209. The Pickups salvaged five from the Cosmos.

Purple & White League

The Flounders remained in first place with the Pen Macs in second by 3 points and the Pin Pickers in third.

The Stir Ups had a good night with Kathy Griffin rolling a 180, Jim Griffin 223, Grace Kyhl 226, Ove Kyhl 157, giving the team a 786 scratch series and a 952 gross series.

Joe Ferrante had a good night rolling a 203/224/185 for a 612 scratch series. Other good games were Dick Murgatroyd 224, Nate Carter 206, Gail Thompson 176, Kathy Carter 173, Carolyn Eterno 170.

May 9 will be position night, sweeps and buffet for the Red, Green and Pink Leagues.

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. 2882.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

621. METAL CUTTER A - Central Shops Division.

629. STATIONARY ENGINEER, SR (Group Leader) - Temporary assignment (May 15 - Sept 15, 1978). Plant Engineering Division.

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

622. SENIOR STAFF ASSISTANT - Requires MBA or equivalent and background in financial and material accounting and control. Should have experience in computerized record systems. BNL experience desirable. ISABELLE Project, Accelerator Department.

623. DEVELOPMENT ENGINEER (2 positions) - BS/MSEE or equivalent with experience in the design, construction and testings of sophisticated electronic systems. ISABELLE Project, Accelerator Department.

624. ENGINEERING ASSOCIATE - Requires BS/MS in nuclear or mechanical engineering and experience in probabilistic assessments and statistical methodologies as related to nuclear risk calculations. Knowledge of PWR and BWR plant systems or operations desirable. Department of Nuclear Energy.

625. NUCLEAR ENGINEERING ASSOCIATE (2 positions) - Requires BS/MSNE & good knowledge of nuclear reactor systems and associated thermal hydraulics. Background in power station operations desirable. Department of Nuclear Energy.

626. PROGRAMMING ASSISTANT - Requires AAS degree or equivalent and experience in computer-communications and assembly language programming. FORTRAN experience desirable. ISABELLE Project, Accelerator Department.

627. TECHNICIAN - AAS or equivalent in mechanical technology. Experience with power house or marine equipment and water analysis helpful. Accelerator Department.

628. REACTOR INSTRUMENT TECHNICIAN - AAS degree or equivalent. Experience with process/electronic instrumentation or nuclear radiation monitoring equipment desirable. Reactor Division.

Autos & Auto Supplies

66 CHEVY VAN - Good cond, excel running, \$500. Larry, Ext. 4764 or 281-2136.

UTILITY TRAILER - U-Haul covered type, good cond, 8'x5'x5 1/2'. \$295. Ext. 3786 or 286-2889.

73 CHEVY - Luv w/cap, wide oval tires & rims, excel cond, 55,000 mi, FM stereo cassette deck, \$1900. 289-1705 after 6.

TIRES - (4) 700-14" on rims that fit Chevy Luv, 5 lug. \$15 ea. 289-1705 after 6.

NEW & USED TIRES - Rims, repairs, snow, reg, radial, Dunlop-Michelin, FREE instal, balance avail. Fred Usack, Ext. 4597 lunchtime or 475-4935 eves.

68 CHEVY - Carryall, 4-wheel drive, excel cond, \$1200. Betty, Ext. 3671 or 281-8343 after 6.

74 FORD VAN - Blue, finished interior, 8 track, excel cond. \$3,400. 821-1327 after 3:30.

68 IMPALA - Small V8, 4 dr, \$200. Ext. 4108.

TIRES - (3) Radials, LR78-15 w/w, Excel cond, 18,000 guaranteed mi. Woody, Ext. 2290.

77 VOLKSWAGEN - Rabbit, less than 1 yr old, low mi, basic w/radio, \$3800. 286-1091.

77 CHEVY - Nova hatchback, 6 cyl, p/s, a/c, am/fm radio, mint cond. \$3500. 286-0682 after 6.

73 OLDS - 442 Salon, 350 auto, ps/pb/ac, 70 series, steel radials, swivel seats, mint cond, unemployed must sell, \$2400. Joe, 968-9197.

ENGINE - 69 Chevy, 350 complete, needs reblgd, w/saginaw trans. \$100 or best offer, Ext. 4742 or 744-2688.

73 CHEVY - El Camino, 350 V-8, black on black, 58,000 mi, ps/pb, mags. \$2400. Chris, 281-2051.

HONDA - CB-175 motorcycle, excel cond, lug rack, cover, crash-bar, carriers. \$495. 722-3692 after 5.

72 TOYOTA - Corona Mark II, 4 dr, auto, 2 new tires, 2 studded snow tires, good condition. Vivian, Ext. 3429.

66 - DART - 2 dr, 6 cyl auto ps/pb, many new parts. \$350. Steve, Ext. 3822 or 929-6527.

75 HONDA - 360 motorcycle, immac cond, low mi, extras. \$800. Gene, Ext. 4605 or 744-3945.

72 PONTIAC - Gran Safari Wagon, new tires, all power, very good running cond, luggage rack. \$1095. John, Ext. 3514 or 821-1296.

SHIFTER - 3 speed floor shifter, new, \$10; 2 rims, new, fit Dodge or Ford, \$6 ea. Bill, Ext. 4636.

RIMS - Ford 14", \$2.50 ea, \$10 for all; Chev rims, 14", new, \$5. Frank, 727-5527.

69 FORD - Custom, excel running cond, 4 dr, 8 cyl, auto trans, ps/pb. 475-7542.

73 CONCORD - Motor home, 24', sleeps 8, Dodge chassis, low mi, a/c, very clean. 475-8291.

TUBE - From 15" tire, \$10 orig, sell for \$5, almost new. Barry, Ext. 4118.

TIRE - Used, H78-15. \$7. Barry, Ext. 4118.

TIRES - (1) 165x15 Pirelli radial, snow tire, (1) 145x14 Michelin X radial, both fair to good. \$7 ea. Tony, Ext. 2920.

VW ENGINE - 1200 cc and several boxes of misc 6 v parts, \$30; VW engine stand, \$20; 6 v battery, \$7.50. Frank, Ext. 2022.

TIRE - (1) HR78-15 WSW Firestone steel belted radial, brand new. \$45. Doran, 473-9232.

74 MERCURY - Montego, ps/pb, am/fm, 44,000 mi, excel cond. \$2100. Call 399-2754.

65 CHRYSLER - Newport, 4 dr, ps/pb. \$150. Ext. 3788.

68 BMW - Not running, many new parts. Cathy, Ext. 3483 or 363-6290 after 6.

73 HONDA - 350G, 7500 mi. \$600. Harry, Ext. 3516 or 3513.

VW - Parting out, 67 bus (combi), trans, doors, wheels, etc., all or part. Tom, Ext. 3406, 924-0129.

Boats & Marine Supplies

20' FLYING DUTCHMAN - Molded plywood hull, rigged for solo racing, 4 sails and trapeze, good cond, best offer above \$800. Ken, Ext. 2008 or 928-5875 after 6.

AVON - 5 man boat w/engine mount & oars, never used, save 25%. \$545. 286-3647.

65 HARLEY-DAVIDSON - 900 cc Sportster, custom seat & paint, very clean. 924-8264 eves.

16' ELTRO - W/35 hp Evinrude and trailer. \$495; 22' Venture sloop, pop top, roller genda, 15 hp Johnson, \$4500. David, Ext. 3501 or 286-8097.

14' BLUE JAY - Sailboat w/trailer, 2 suits of sails, incl spinnakers, excel racing record. \$750. Horn, 589-2759.

18' GRUMMAN - Canoe w/paddles, dynamic bal. \$250. Ext. 2582 or 924-8297 after 5.

16' GLASPAR - Boat, 50 hp Evinrude motor, Little Dude Gal. trailer w/elec winch. \$1800. 472-0711 after 5.

14' JOHN DORY - Fiberglass boat, excel cond, accessories. \$395. 924-4872.

24' STAMAS - Fiberglass clearwater fisherman, 4 wheel Shoreline Trailer w/elec brakes, CB ship/shore radio, 225 hp I/O fresh water cooled engine. \$5750 firm. Ellie, Ext. 2978 or 369-2526.

23' COLUMBIA - Fiberglass, sleeps 4, head, galley, fabric cushions, bow, stern pulpit w/life lines, 4.5 Merc, 2 sails, main cover. 286-1076.

17' EXPLORER - Fiberglass daysailer, similar to O'Day, new mast & rigging, 4 hp Johnson, excel cond, ready for water. Ext. 4335 or 286-9458.

TONGS - 16 tooth, 10' handles, \$45; rakehead 22 tooth, 2 1/2 teeth, Huntington, \$15. Howie, Ext. 2043.

16' GARVEY - '71, ideal for clamming. \$120. Ext. 4309 or 475-4394.

27 FT AUX SLOOP - Custom built, teak and mahogany, needs work. \$1000. Jeff, Ext. 2953.

Miscellaneous

GARAGE SALE - Fri, 5/5 & Sat, 5/6, N Wading River Road, Wading River (1/4 mi East of Little Flower).

GITAR - Decarlo (copy of Gibson Les Paul) Rosewood, 3 mo old, 2 jacks, fuzz box, mint cond. \$145. Chris, 473-7797.

RECORDER - Panasonic Cassette, 1 mo old w/tapes. \$35. 473-7797.

RIDING APPAREL - Ladies, worn twice, blk dressage top boots, size 8B, \$50; beige "Equi-stretch" breeches, size 27R, \$20. Ext. 2434 or 666-5367.

PATIO AWNING - Aluminum 12x20 w/4 wrought iron supports, disassembled, you pick up. \$50. Ext. 2434 or 666-5367.

75 COLEMAN - Light weight trailer, extra canvas, good cond. \$500. 878-4695 or 878-4807 days or eves.

CANVASES - Artist's new 7x9, 6x7, .60/pk of 3, men's slacks, excel cond, some wool, mostly cotton, 34-30 mostly \$2-\$5. Ext. 3609.

VACUUM - Sears, 2 folding Army cots, alum folding table (new), 2 upholstered chairs w/new slipcovers, 5 hp riding lawnmower. 325-1961.

CAMERA - 35 mm Voigtlander, 10 mo old, filter, case. 286-8758 after 6.

DRUM SET - Complete \$40. Yashica 8 mm all power movie camera, zoom lens, \$20; campgrounds guide, \$3. Bill, Ext. 4636.

BUOY - 100-150 lbs for mooring 17' power boat. Ext. 2368 or 928-6654.

LAWN MOWER - Reel type w/riding seat, 30" Jacobsen. 475-4199.

SOFA - And matching love seat, black, white and grey design, Herculon, good cond. \$75. Ext. 4742 or 744-2688.

71 COX CAMPER - Cadet 210, spare tire leveling jacks. \$525. Ext. 2582 or call 924-8297 after 5.

STOVE - 30" White Roper Gas in good cond. Best offer over \$50. 924-3291.

AIR CONDITIONER - York 5000 BTU, \$40 firm; Norge, 75,000 BTU, \$50 firm; both in excel cond. 281-3213.

TV - Black & white portable w/table, \$25; Singer portable sewing machine, \$25; small refrigerator, \$25. Ruth, Ext. 3431.

FENCE - Anchor, 100' l x 3' h w/posts (2) gates and posts 3' & 4' wide. 744-9632.

RABBITS - 3 Dutch and hut. Best offer. Noreen, 281-7873.

SPRING COAT - Never worn, women's Misty Harbor, any weather, tie belt, dacron and cotton, rain/stain repellent, mach wash, size 10. \$45. 821-1148 eves.

LADDERS - 5' wood step and 20' wood ext, dollar sale on handyman tools. 475-4844.

6 TICKETS - 1st row seats to George Carlin Show, Westbury Music Fair, June 6, 8:30 p.m. \$8.50 ea. Ext. 4701 or 271-2877.

FOR ADOPTION - Adult female cat, 1 yr old, all shots, very lovable. Terri, Ext. 2927, 289-6842 after 6.

SKI BOOTS - Women's Reiker, size 7, fur lined, excel cond, blue only used 1 1/2 seasons. 286-1076.

GOLF SHOES - Size 9C, \$10; metal gas can 2.5 gal, \$3; B&W TV antenna, \$5; Van Wych Blender, \$15. Rich, Ext. 4011.

STEREO - Console in 42" cabinet w/AM-FM radio, tape deck turntable, excel cond. \$110. J. Rhodes, 475-1782.

BICYCLE - Men's 26", 3 speed, mechanically good. \$23. Dick, Ext. 3860.

APPLIANCES - Philco refrigerator, GE washer, Whirlpool gas dryer, all excel, \$75 ea; Coldspot freezer, needs work, \$25. Ext. 2257 or 331-3019.

POWER CASTER - Park your trailer with a power caster, at a touch of switch, forward or reverse electric, excel cond. \$195. Bob Johnson, Ext. 3354.

TYPEWRITER - IBM, electric, large carriage. \$75. Ext. 3121.

WICKER - Enclosed cat basket, w/cushion, never used. \$10. Gordon, Ext. 4095.

TRAILER - Utility, 6'x6'x18", excel, steel, plywood, cover and canvas, can be refitted as tent trailer, spare tire. \$150. Art, Ext. 3550.

TICKETS - (2) LI Symphony, Sat, May 13, Byron Janis, pianist, at Huntington HS, good seats. \$7 ea, Dan, Ext. 3145.

AIR CONDITIONER - 11,000 BTU. \$100. Joan, 744-3919 or Jack, Ext. 4447.

BICYCLE - 26", 5 speed. \$50. Joan, 744-3919 or Jack, Ext. 4447.

WEDDING GOWN - White, never worn, size 10-12. Call 744-2766.

BICYCLE - 23" Frejus, Campy and Universal. \$175 or best offer. Tom, Ext. 3406, 924-0129.

EARL GREY TEA - For discriminating tea drinkers, half price while they last. \$4/16 oz can. Rino, Ext. 2012.

FLOOR JACK - Mechanical, large, rolling garage type, 2 1/2 ton, fits approx 18". \$25. Rino, Ext. 2012.

CB RADIO - Single Band, 23 AM Channel, 46 side band Ch. Meter has S/RF/SWR Cal, built in power supply for AC/DC operation. Pa. Used little, \$115; 35 mm Ricoh rangefinder camera, extra lens, flash, excel cond, \$75. 878-8241.

75 COX CAMPER - Cadet, sleeps 4 or 5, like new, \$795; evergreens, 26" high, 2/\$5, you dig. 727-1617.

LAMP SHADES - (2) 17 1/4 new white, silk shades, \$10/pr; triple width 10" fiberglass aqua drapes, \$15; (2) pr, 63" fiberglass, blue/white flowered drapes, \$8 pr; 1 pr 45" bl open weave curtain, \$5. Carol, 821-9547.

LAWN SWEEPER - Lawn Pride, good cond, \$5; Sony reel-to-reel (3") tape recorder, like new, \$15. Tony, Ext. 2920.

ANTIQUA CHAIRS - Fireside, pr with ornate carving, beautiful upholstery, custom protective covers. Wells, 878-4214.

67 CAMPER - Dodge Pop Top, factory equipped, very clean, good running cond. \$1200. 757-0160.

LIVING RM SET - Colonial, 3 pc, sofa upholstery worn on front edge. \$55. K. Thompson, 286-9047.

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

E PATCHOGUE - 10 rm Colonial, beautifully landscaped, rock garden, gazebo, 1.4 acres, horse country, 4 bdrms, 30 ft l/r, fp, formal d/r, laundry room off of kit, 2 garages, full bsmt. Low 60's. 475-0168.

BELLPORT VILLAGE - 7 rm, an older very special extended cape, up to 4 bdrms, fp, garage, full bsmt, well planted 1/4 acre w/privacy, cedar shakes, appl, high 30's or rent reasonable. Ext. 2032 or 286-3455.

ST JAMES - 5 rm house, 2 car garage w/workshop area, walking distance to stores, rr, school, landscaped, fenced 1/4 acre. \$35,000. Seen by appt. 473-2038 after 6.

ROCKY POINT - "Tides North," 4 bdrm, colonial, fam rm, w/tp, eik, w/w carpet, full bsmt, garage, walk to private beach club. \$43,500. Call 744-1545.

ROCKY POINT - "Tides North," beautiful custom decorated colonial, 4 bdrm, den, fp, w/w, appl, fenced gorgeous 18' Florida rm, walk to private beach club. \$45,500. Call 744-1927.

HARBOR HILLS - 1/2 acre corner, 3 bdrm, 2 1/2 baths, 2 car garage, fam rm, fp, beach rights, low taxes, many extras. \$75,000. 473-2734.

SHOREHAM - Close to Lab, attractive 3 bdrm, contemporary ranch, wooded 1/2 acre, carpet, a/c, appl and more, low taxes. \$33,750. 744-6772.

BRENTWOOD - 3 bdrm ranch, 1 1/2 car garage, finished bsmt, encl patio, new cesspool, washer, dryer carpeting. Relocating, will negotiate, original owner. 273-6634.

MORICHES - Custom built on 1/2 acre, 7 rm split level, 3 bdrm, 1 1/2 baths, 19x34 fam rm, fully carpeted, professionally landscaped, waterview, beach and boat rights, extras. Call 878-8087 after 6.

BELLPORT VILLAGE - 1/2 acre, 3 bdrm, 2 baths, 2 car garage, screened porch, attached greenhouse, extras. \$49,500. 286-2724.

COPIAGUE - 2 bdrm condominium, central a/c, ref, stove, w/w carpet, balcony terrace, tennis, pool, marina, clubhouse. 887-1811.

E PATCHOGUE - Exclusive neighborhood, custom all brick 3400 sq ft ranch, 1/2 acre, 2 1/2 baths, fin bsmt, 3 bdrm, inground pool, all appl, carpeting, owner holds second mortgage. 289-3415.

SHOREHAM - Custom built colonial, 1 acre, 4 bdrm, 2 1/2 baths, eik, w/w carpet throughout, 2 car garage, \$56,500. 744-2821.

SETAUKET - 2 1/2 yr old, Mother/Daughter, hi-ranch, 1/2 acre, 4 bdrm, 2 baths, eik, furnished downstairs apt, 3 Village School, 3 mi to SUNY, 16 mi to BNL, mid 40's. Martha, Ext. 3307 or 751-8649.

ST JAMES - 5 rm house, 2 car garage w/workshop area, walking distance to stores, rr, school, landscaped, fenced 1/4 acre. \$35,000. Seen by appt. 473-2038 after 6.

N SHIRLEY - Mother/Daughter, 5 min from BNL, oil heat & hot water, garage, \$3,000 cash over \$28,000 mortgage at 8%. 585-1575 eves.

UPSTATE FARM - 153 acres, utilities, water, good road, frontage. Reasonable. Ext. 3688.

MASTIC BEACH - 2 bdrm, ranch, large den/dining, paneled deck, 120x100 corner lot, s/s, full bsmt, low taxes, freed, new kit, storage shed. \$28,000. 281-7763.

MASTIC BEACH - 4 yr old house, 6 rms, full bsmt, fenced, 80x125. Call 281-5498.

MIDDLE ISLAND - 4 bdrm expanded Cape Cod, 24' liv rm, dn/rm, eik, screened patio, fin bsmt w/bar, 2 car garage, 3 zone oil heat, low 40's. Ext. 3635 or 732-5338 after 6.

ROCKY POINT - 4 bdrm, colonial, eik, 2 1/2 baths, fp, w/w carpeting, all appl, garage, wood deck, 1/2 acre, priv beach. 744-1156.

MIDDLE ISLAND - Near Rocky Pt, 3 bdrm ranch, 4 1/2 yr old, 1/2 partially wooded acre, cul de sac, full bsmt, garage, quiet area. \$38,000. 744-9724.

SHOREHAM - 4 bdrm, cape, No of No Ctry, est neighborhood, deeded beach rights, eik, fp, deck, fin bsmt. \$49,500. 744-5801.

MIDDLE ISLAND - 6 rm ranch, 1/2 acre complete cyclone fenced, newly fin bsmt apt, quiet dead-end st, mint cond, carpeted throughout, separate garage. \$38,000. 698-1813.

HAUPPAUGE - 2 yr old, 6 rm ranch, 1/4 acre, partially sodded, plumbing in for 2nd bathrm, w/w carpeting, attic fan, eik, laundry rm, full bsmt, attached 1 car garage. \$45,500. Ext. 2413 or 265-0612 after 7.

CORAM - Dutch colonial, 3 bdrm, 2 1/2 baths, liv rm, fp, din rm, eik, one car garage, 1/2 acre beautifully landscaped, school dist # 11. Call 331-1640.

For Rent

MILLER PLACE - 3 bdrm house on secluded 3/4 acre convenient location. Available Aug 1st. 928-0821 after 5.

CORAM - 3 bdrm house, furnished, summer rental June 15 to Sept 4, rent negotiable. 928-9448.

BELLPORT - Cape, 3 bdrm, bsmt, newly remodeled interior. \$300/mo. 281-8016 eves.

WADING RIVER - June 25 to Aug 10, 10 min to BNL, 3 bdrm, 2 baths, fam rm, 2 car garage, all appl, 1 wooded acre, \$350/mo incl util. 929-6964 after 6.

PORT JEFFERSON - 2 rm, furnished garage apt, private, \$200 plus util. 473-7008.

MILLER PLACE - 4 bdrm, colonial, near beach, summer rental only, available June 1 - Oct 1. 928-6032.

BELLPORT - Cottage, 2 bdrm, kitchen, lr, bath, garage, bsmt, available July 1, \$225/mo. 286-1974.

POCONO - Chalet w/sundeck, sleeps 6, in priv community, nr Lake Wallenpaupack, tennis, swimming, hiking, etc. 289-2159.

BROOKHAVEN - 2 story furnished apt, 20 min from BNL (1) bdrm, full bath, liv rm, complete kit, priv entrance, utilities, incl, woods & river, rent negotiable, security. Call 286-2450 after 6 or write Box 277, Brookhaven, NY, 11719.

Wanted

TO SHARE - Lrg house in Miller Place from June 1 - Oct. 1. Ext. 2618 or 928-6032.