

Beyond Earth

Why should we explore space? "It's a collective cultural enterprise," said Bruce Murray, Director of the Jet Propulsion Laboratory, at his AUI Distinguished Lecture here last Friday, "in very much the same way that literature, art, or music are cultural enterprises."

"We are limited only by will as to what we can find out," he said, "because the technology is such we can do things that were unimaginable only a few years ago." He described one of these new concepts on the horizon which is called continuous low thrust propulsion. Using an artist's drawing of what looked like a huge square sail in space, he said the purpose of the concept "is to create such an enormous reflecting surface that there is propulsion to be gained from the sun's reflection and this propulsion of a character that permits one to go anywhere in the solar system and come back."

This would make it possible to rendezvous with Halley's comet when it returns in the middle 80's, he said, and would also make it possible to bring back a piece of other comets for analysis in the laboratory.

Another proposed project is for twin space craft to make passes at the planet Jupiter and its four satellites, and for automated robots to move around Mars collecting boulder samples which would be returned to earth by later space missions.

These proposals are by no means science fiction, Murray said. In fact, the technology is not as difficult as the recent Viking probe of Mars.

Because of this probe and previous space missions, Mars is no longer so mysterious to man, said Murray. Illustrating his talk with



Space expert, Dr. Bruce Murray, talks to some members of the audience in Berkner Hall after his lecture on "Viking and Beyond," last Friday.

slides of photographs taken of terrain fifty million miles away from earth, Murray commented that "Mars looks as though it were created by giants." Covered by a fine red powder, presumably iron oxide, it has huge impact craters and the largest volcanic features known in the solar system. The atmosphere is thin and composed mostly of carbon dioxide. Murray says that the evidence suggests that Mars had a very different atmosphere millions of years ago.

The main purpose of Viking was to look for life on Mars. Various tests performed show that possibility as highly unlikely, Murray said, at least "biochemical life as we know it."

The interesting question, Murray says is, "Why is there life on earth," not "why isn't there life on Mars?" The key seems to be that "we are the watery planet." Scientists think that watery planets may be common in the galaxy, but this cannot be determined theoretically, but only by observation. He added that his Laboratory is starting a survey program looking for radio signals from other societies around other stars.

Murray thinks that our space exploration is also a contribution to history. The artifacts left by man on the planets could become the only undisturbed record, from this period of time, of the first people who left the earth.

"The Key To The Universe," a special two-hour program about high energy physics and astrophysicists, was recently aired on Channel 13 and Channel 21. Those who are interested in the film and were unable to see it on television should contact Bob Walton in Photography. He made a video tape of the program.

Vineyard to Receive Honorary Degree

For his contribution to science, Laboratory Director George H. Vineyard will receive an honorary Doctor of Science degree from Southampton College of Long Island University. The degree will be presented to him at commencement exercises in Southampton tomorrow.

Dr. Vineyard's selection was initiated by a committee of students, faculty, and administrators, and was unanimously recommended by the College community and Board of Trustees of Long Island University.

Haworth Asteroid

An asteroid has been named in honor of Leland J. Haworth, Director of the Laboratory from 1948 to 1961.

Haworth was selected in recognition of his contributions to science, notably the negotiations which led to the joint funding by the National Science Foundation and the Ford Foundation of the 4-meter telescope at the Cerro Tololo Interamerican Observatory in Chile. He was director of the National Science Foundation from 1963 to 1969, following a term as a U.S. Atomic Energy Commissioner.

The announcement of the honor accorded Haworth was made by the Director of the Goethe Link Observatory, an affiliate of Indiana University.

The asteroid was discovered March 30, 1952, by astronomers at Indiana University and its permanent orbit was only recently determined. According to tradition, an asteroid cannot be named until its orbit has been determined and it has received a permanent number.

According to information from Indiana University, the Haworth asteroid will be visible June 5, by telescope, at 5° east of the bright red star Antares in the constellation Scorpio.

Dr. Haworth received his A.B. and A.M. degrees from Indiana University and was awarded an honorary D.Sc. degree from that university in 1961.

School Registration

The following graduate extension courses are being planned for the 1977 Fall Term:

Nuclear Engineering - Polytechnic Institute of New York will offer: NU 601, Introduction to Nuclear Engineering I, K.M. Chung; NU 705, Advanced Nuclear Engineering Laboratory I, D.C. Rorer; and NU 927, Energy Policy Issues, K.M. Chung.

Applied Mathematics - SUNY/Stony Brook will offer MSA 511, Methods in Applied Mathematics, Tuesday evenings.

Computer Science - The computer science courses which had been planned in conjunction with SUNY/Stony Brook have been postponed because of New York State budget cuts. Hopefully, these courses will start in 1978.

For further information, call Office of Academic Relations, Ext. 3336.

Distinguished Mathematician



Saunders MacLane, eminent mathematician, author of classic texts and Vice-President of the National Academy of Sciences, gave a tour of the successes, and some of the internal inconsistencies, of modern mathematics, to the staff on Monday. Above are Dr. MacLane (left), Applied Mathematics Department Chairman Robert Marr, and Physicist Richard Watson.

Smoke Detectors

As those people who ordered smoke detectors know, the BERA Board has experienced serious difficulties in obtaining the Guardian smoke detectors from the distributor with whom the order was placed. Because of this, the Board with excellent help and cooperation from the Purchasing Department, has been pursuing various courses in order to obtain these units.

One of the primary problems has been the fact that Consumer's Report recommended the Guardian as best buy and thus caused many people to buy that unit. This was coupled with an agreement by Pyr-A-Larm Inc., (the manufacturers of Guardian) to manufacture similar units under license to Norelco and Sunbeam. Consequent to this the Consumer's Association tested the Norelco and Sunbeam units and found them identical in performance to the Guardian FB-1.

The Purchasing Department has been able to contact Norelco to purchase their model HB0933 (the one found to be equivalent to the FB-1 by Consumer's Association) at the same cost to employees as the Guardian FB-1. Since delivery of these units is promised for the first week in June 1977, the Board decided to cancel the Guardian order and purchase the Norelco unit.

As soon as these units are delivered a notice will be put in the *Bulletin* advising employees of the distribution schedule. The Board is sorry for the delay in obtaining these units, and looks forward to an early delivery.

Bulletin

The 500-watt experimental helium refrigerating system for the Superconducting Power Transmission Project cooled down to 7°K on its very first run, with no hitches. The happy event took place late in the evening of May 19. See story in next week's issue.

Congressional Visitor



Long Island Congressman Thomas J. Downey (left) and some members of the Long Island Oil Heat Institute who visited the Laboratory recently. They came to see what we are doing in the way of testing resident and commercial oil heating systems. John Batey (right) briefs them on a home heating system under test in DAS.

—photo by Bull

At The Tea



Betty Cronkite pours tea for Ginny Thien, Grace Cohen and Pat McKenzie-Wilson at the Spring Tea and Sherry Party. Ginny and Pat are co-chairpersons of the Hospitality Committee and Grace



was chairperson of this event. The theme of the tea was "Preserving the Paumanok," which is the Indian name for Long Island. On display were artifacts, animals and marine life pertinent to Long Island's history.

Charlotte Schuette Added something extra

Charlotte Schuette, who has been a sympathetic and familiar figure to many employees in time of trouble, will retire at the end of this month. In charge of processing medical claims for the last fifteen years, she has come to know anyone who has been involved in a minor or major illness, which she says numbers about half the Laboratory employees.

"You get touched by people's problems," says Schuette. "Sometimes you sit down and cry with them." On the lighter side,



Charlotte Schuette

some people also like to chat with her about their operations and show her their scars. She got a first-hand look at how the system works when she broke her leg and was out for six months. "It works well," she says.

Now, she plans to garden and do "a lot of plain, straight nothing." In about a year, she and her husband George Schuette, a Lab air-conditioning and refrigeration engineer, hope to go to their 46 acres in upstate New York which they are developing as a recreational campground.

Pool Hours

During the coming holiday weekend, the pool will be closed on Monday, May 30, only.

Regularly scheduled open hours on Saturdays and Sundays are from 1:00 to 6:00 p.m.

Strawberries Unlimited

The 23rd Annual Long Island Country Fair and Strawberry Festival will be held on Saturday, June 18, from noon to 5:30 p.m. on the Mattituck High School grounds. There is a 50¢ admission charge. The fair will be held rain or shine.

Gardening Tips

- If there has been a wet period during flowering, spray dogwoods to control Botrytis.
- Look for evidence of pine sawflies.
- Apply liquid fertilizer to early annuals and vegetables.
- Stake plants that may be damaged by wind or rain before they get too tall.
- Look for evidence of striped smut and Helminthosporium leaf spot of turf.
- Examine for evidence of mites on ornamental trees and shrubs.
- Pruning spring flowering shrubs immediately after blooming.
- Prune back (½ way) new growth of needle-leaved evergreens if pruning is desired.
- If Fusarium blight was a lawn problem last year, apply the recommended systemic fungicide in late May and again in two weeks.
- Apply summer mulches to borders and beds.
- Plant tuberous begonias and caladium outdoor in shade.
- Sow seeds of biennials and perennials early to have more mature plants by Fall.

Lufthansa vs. BNL

Memorial Day will see a tennis tourney between a team of Lufthansa personnel from Munich, and BNL. Play will begin at 9:00 a.m. and taper off in the early afternoon.

All six courts will be held on reserve for these matches from 9:00 a.m. to 11:00 a.m., then three courts until the end of play. Matches will be predominantly doubles, so spectators come on out to see some good and interesting play.

"There is no national science just as there is no national multiplication table; what is national is no longer science."

— Anton Chekov (1860-1904)

First Visitors



John (Rusty) Humphrey, a physicist in the Accelerator Department, explains a model of the AGS to high school students on the first tour of the Laboratory this year on May 6. The model is under glass at the highest level of the Exhibit Center. Over the past three weeks nearly 2000 people have visited the Lab. Because of the holiday weekend, there will not be any public tours of the Lab on Saturday, May 28. On the following Saturday, June 4, the Medical Department will be the feature of the mini tour.

Diners' Note

The Center Club will be closed Sunday, May 29, the day preceding Memorial Day. However, it will be open on Monday evening, May 30.

The Cafeteria will be open from 9:00 a.m. until 2:00 p.m. on Saturday, Sunday and Monday, May 28, 29 and 30.

The Vended Food Service in Building 912 is in operation continuously.

Cafeteria Menu

Week Ending June 3, 1977

Monday, May 30	
Snack Bar Service: 9:00 a.m. - 2:00 p.m.	
Tuesday, May 31	
Beef noodle soup	
Knackwurst & sauerkraut	1.10
Sauerbraten & potato pancake	1.35
Hot deli - veal & peppers	
Wednesday, June 1	
Cream of potato soup	
Breast of lamb & 1 veg.	1.15
Hot deli - corned beef	
Davy Jones Fish Fry Special	
\$1.87 plus tax	
Thursday, June 2	
Chicken vegetable soup	
Cheese ravioli & 1 veg.	1.05
Roast chicken, stuffing, 1 veg.	1.15
Hot deli - Italian sausage & peppers	
Friday, June 3	
Fish chowder	
Spaghetti & clam sauce	1.05
Breaded pork chop & 1 veg.	1.35
Hot deli - smoked tongue	

Cooking Exchange

The final meeting of the Cooking Exchange will be held on June 1, at the Recreation Center at 12:30 p.m. The male members, led by the inimitable Les Lawrence, will present their annual talented demonstration. Even if you have missed all our other demonstrations, don't miss this one! Everyone is welcome and babysitting is provided - bring only your tastebuds and 75¢ to cover the cost of the ingredients. See you there.

Speakers Bureau June

June 6 - Mark Goldstein (DAS), Zionist Organization of America, East Meadow Meeting, on Carter's Energy Technology Strategy

June 8 - Morris Beller (DAS), Bell Laboratories' Crawford Hill Laboratory, on U.S. Energy Use and the Presidential Program

June 10 - R.C. Anderson (Director's Office), Radcliffe Club of Long Island and Harvard Schools Committee, on Energy Choices for the Future

June 16 - R.C. Anderson (Director's Office), League of Women Voters, Town of Roslyn, on Energy Choices for the Future

Retiring



Frank J. Garafola began working at the Laboratory on May 14, 1947. He works in Central Shops as an Experimental Machinist. He lives in Patchogue and will be retiring on May 31, 1977. —photo by Rosen

Trips To New York City

The Hospitality Committee is planning two group railroad trips to the city. The first one will be Wednesday, June 8, and the second, Tuesday, June 14. (For those who would like to visit the Museum of Modern Art, it is open on Tuesdays.) Each trip will be limited to 120 persons. Departure will be at 8:32 a.m. from the Patchogue LIRR Station. The round trip fare is \$2.45, children under six ride free.

Reserve a ticket by sending your fare through the mail to P.O. Box 322, Upton, New York 11973, no later than Thursday, June 2, for the first trip, and Thursday, June 9, for the second trip. Make checks payable to "Brookhaven National Laboratory," and indicate on check which trip you are taking. If you are planning on taking both trips, please send a check for each one. Your tickets will be given to you at the train station. Refunds will be made only if cancellations are received at least two days before the planned trip.

BROOKHAVEN BULLETIN

Published weekly for the employees of BROOKHAVEN NATIONAL LABORATORY

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Letters To The Editor

Dear Members of Brookhaven Lab,
My children and I appreciated the beautiful flowers you sent to Ray's funeral, as well as the moral support that your presence represented.
Even though Ray was not working for six years, it always meant so much to him to keep in touch with the Lab. He read every word of every Lab *Bulletin*, and he was always interested in how things were going there. Thank you for honoring a good man.

Sincerely,
Emily Stong

Table Tennis

The Table Tennis Association (we'll still speak to you even if you call it ping-pong) is starting the summer season with a ladder tournament.
Please sign up on the Film Service Office bulletin board as soon as possible. Play will begin the week of June 6.
For those of you who want to improve your game, we are planning a series of clinics and instruction.
For further information about the tournament, table tennis, or the club, call Dave Thomas, Ext. 4691.

Arrivals & Departures

Arrivals

David M. Bernstein.....Medical
Fernando Galdos.....Applied Science
Henry Schwartz.....Plant Engr.
Thomas H. Snowden.....Plant Engr.
Lawrence M. Woodworth.....Applied Science

Departures

Nellie I. Kennedy.....Plant Engr.
Linda C. Matusiak.....Applied Science

Fun and Games

These sunny faces were at the last day of school party held recently at Upton Nursery School. The Nursery School is a cooperative for three and four year olds of Lab employees. Enrollment is under way for next fall. Applications are available in Berkner Hall and the Recreation Building. For further information contact Sharon Paschos at 928-4270.



Reports Available

The following reports are now available to the Laboratory Staff and to Affiliates of the ERDA, AUI, and BNL. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161. Staff members should call Ext. 3484:

BNL-50550	\$7.75	BNL-50604	\$6.00	BNL-NUREG-50610	\$4.00
A Perspective on the Energy Future of the North-east United States.		The Impact of Alternative Nuclear Moratorium Legislation on the U.S. Economy.		Some Correlations of High- and Low-Cycle Fatigue Data for 2 1/4 Cr-1 Mo Steel in the Annealed, and Normalized and Tempered Conditions.	
J. Brainard, et al.		D. J. Behling, Jr.		P. Soo and J.G.Y. Chow	
BNL-50563	\$5.00	BNL-NUREG-50602 (Part I of II)	\$6.75	BNL-50432	\$4.50
Optimization of Water Conveyance Systems for Nuclear Energy Centers.		Preaccident Modeling of an LMFBR Plant for SSC-L.		Effects of Measurement Errors on Linear Calibration Equations	
P.M. Meier		A.K. Agrawal		S.C. Suda and D.F. Shepard	
BNL-50567	\$5.00	BNL-50611	\$8.00	BNL-50530	\$10.75
Multiobjective Location Analysis of Regional Energy Facility Siting Problems.		Proceedings of the 1976 ISABELLE Workshops.		Brookhaven Symposia in Biology Number 28. Chlorophyll-Proteins, Reaction Centers, and Photosynthetic Membranes	
R.L. Church and J.L. Cohon		J.C. Herrera and A.M. Thorndike		Various Authors	
BNL-50606	\$4.50	BNL-NUREG-50615	\$4.00	BNL-50595	
Safety and Environmental Protection Division Progress Report for the Period January 1, 1974 - December 31, 1975.		Assessment of Non-Linear Analysis Finite Element Program (NONSAP) for Inelastic Analysis.		Vol. I	\$6.00
J.W. Baum		Chang, T.Y., et al.		Vol. II	\$6.75
BNL-NUREG-50618	\$3.50	BNL-NUREG-50622	\$5.00	Proposal for a National Synchrotron Light Source	
Development of a Computer Code for Thermal Hydraulics of Reactors (THOR). Seventh Quarterly Progress Report April-June 1976.		An Analysis of Gas Layering and Flammability in the Containment Vessel of a High-Temperature Gas-Cooled Reactor Following Depressurization		J.P. Blewett	
A. Dubow, et al.		I. Omata		BNL-50614	\$5.50
BNL-50621	\$3.50	BNL-50621	\$3.50	Residential Space Heating and Cooling in New England 1972-2000	
Cementing of Geothermal Wells. Progress Report No. 3, October-December 1976.		Kukacka, L.E., et al.		R. Daifuku	
Kukacka, L.E., et al.		BNL-NUREG-50624	\$9.25	BNL-50638	\$3.50
BNL-NUREG-50624	\$9.25	Reactor Safety Research Programs. Quarterly Progress Report, October 1-December 31, 1976.		Small Momentum Width Beams in ISABELLE - A Useful Feature for Experiments?	
A. J. Romano		A. J. Romano		J.W. Humphrey and M. Month	
BNL-50629	\$3.50	BNL-50629	\$3.50	BNL-NCS-50593	\$6.00
Estimate of the Effect of Anomalous Length of Electron Bunch on Quantum Lifetime.		M. Month		Evaluation of Chromium Neutron and Gamma Production Cross Sections for ENDF/IV.	
M. Month				A. Prince	



PURPLE AND WHITE GOOD GUYS - Ellie Murgatroyd, Jere Austin and Mary Austin. (Dick Murgatroyd was not present for the picture.)

Bowling League - First Place Teams



BLACK AND BLUE POWDER MEDS - Bill Kristiansen, Elsa Kristiansen, Joan Skelton and Dick Skelton.



RED LEAGUE OLD TIMERS - Jack Fontana, Dick Adams, Jim Roseler and Walt Reams. Not present for picture, Skelly Frei and Neal Carciello.



PINK LEAGUE PINSPLITTERS - Not only were these "bowlers extraordinaire" first place winners in their league, they also came through victorious as BNL Champs in a spine-tingling roll-off against the Old Timers. Pictured are Kay Conklin, Grace Fales, Rene Rosati, Carol Beckner and Marge Stoessel.



GREEN LEAGUE SPARKS - Jim Carroll, Geoff Follenius, Ed Malcolm, Bob Rasmussen and Bob Sick. Not present for picture, Gil Spira.

—photos by Reben

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.

189. RIGGER'S ASSISTANT - Temporary assignment. Plant Engineering Division.

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

190. SYSTEMS ENGINEER - BS or equivalent in engineering, math, economics or business with strong background in statistics to gather data on potential residential targets for energy conservation. Department of Applied Science.

191. PATROL OFFICER TRAINEE - Shift work. Safety & Environmental Protection Division.

Autos & Auto Supplies

70 FIREBIRD - Formula 400, 4 spd, new white paint, excel. \$2250. Chris, 928-0043.

68 AMBASSADOR - 4 dr sedan, auto, excel cond, very reasonable. Ext. 3120.

68 JAVELIN - 2 dr, 6 cyl, good gas mi, excel cond. Chris, 298-0043.

72 SUZUKI - TS-185 Enduro, knobbies, street legal, good cond. \$365 firm. Mike, 473-2608.

76 PONTIAC - Trans-am, 4000 mi, 455 eng, 4 spd loaded, excel cond. \$5800. 477-2269 after 5.

72 SPORTABOUT - 30,000 mi, sunroof, ac, auto trans, new tires, flawless cond. Ext. 2914, 325-0363.

BELL SUPERMAGNUM - White, size 7, excel cond, used 3 days, in box. \$50. Ext. 2253.

71 CHEVY VAN - 6 cyl, standard, rebilt eng, new tires & paint, excel cond. Martin Sautter, 924-3338.

4 GOODRICH TIRES - Radial, 185-70-15, 12,000 mi. \$10 each. Mary Dohrman, Ext. 4215.

73 VEGA HATCHBACK - Green, radio, auto trans, 57,000 mi, orig owner, good running, a best buy at \$550. Saxon, 929-4701.

V8 ENGINE - 1965 289, very good cond. 281- 6784 after 6.

71 CHEVY MALIBU - 2 dr, ps, auto, new battery, tires, carb, starter, cassette stereo, must sell, moving to Japan. Asking \$1400. Ippel, Ext. 4076, 345-3098.

74 ZUNDAPP - 125 cc Enduro, good cond. \$300. Chris, 727-0092 after 6.

73 BUICK LTD - 4 dr hdtp, low mi, very clean, all options, real luxury car. \$3000. 928-0950.

TIRES - A78, C78, D78 x 13" tires. \$8-\$15. Ext. 4597 lunchtime only. Fred Usack.

69 CADDY - 84,000 mi, good cond. \$650. Bob, Ext. 4636, 289-0357.

14" WHEELS - Chevy, Ford, Pontiac, \$5/pr; 800-14, 775-14, good cond. \$8 each. Bob, Ext. 4636, 289-0357.

TIRES - 2 F78-15, w/w mounted on Ford wheels, \$10 each. 475-8766.

68 SS CHEVELLE - 327, 411 posi rear M21 trani, straight shifter, fancy paint, reduced for quick sale. Emil, 928-3088.

FARM TRACTOR - International Farmall C w/3 point hitch, excel cond. \$1895. 929-4487.

70 AMC HORNET - Very clean trans. \$950. 281-5498.

TAILGATE - Late model Chevy, white. \$20. 878-0201.

75 KAWASAKI - Model H1-500, helmets, crash bar, sissy bar, 4000 mi. \$1050. 924-4116 after 5.

RIMS - (2) 15" 5-hole VW, \$5; (2) 13" 5-hole, \$3. 727-5912.

73 BLAZER - 350 V8, auto, ps, H.D. suspension/cooling, am/fm stereo, good shape. R. Young, Ext. 4271.

77 HONDA CIVIC SEDAN - 400 mi, excel cond, am/fm radio, tinted glass, under warranty. \$3000. Joe, 765-5373.

72 FORD NOMAD WAGON - 72,000 mi, very good cond. \$1300. Pierre, Ext. 3979, 345-3076 after 6.

71 YAMAHA 350 - Excel cond, just tuned. Ext. 3688.

72 PLY FURY III - Sedan, 4 dr, ac, am/fm, new tires, 72,000 mi. \$1300. Jan Nitteberg, 345-3135.

69 CITROEN DS21 - White Pallas deluxe Citromatic, ac, am/fm, top mechanical cond. 929-8443 after 6.

TRUCK TIRES - Brand new, (4) 9.50 x 16.5 Goodyear, must sell. 744-3289.

72 KAWASAKI - F8 250 cc Enduro, 500 mi on rebilt eng, street legal, 55-60 mpg, many new parts. \$425. Paul, 588-6539.

70 CHRYSLER - 2 dr, ps/pb/p seats & windows, ac, good tires, snows. Ext. 3319, 751-7140.

74 PICKUP - Chevy, at/ps/pb, ½ ton, am/fm tape, Cheyene pkg, buckets, excel cond. \$3500, cap extra, \$325. Tallon, 473-3987, Ext. 4547.

Boats & Marine Supplies

17' THOMPSON - \$25. For information, call Ext. 2935 or 473-8995.

15' GARVEY - Fiberglassed wood, rebuilt Evinrude, trailer, extras. \$750. Ext. 2345, 472-1735 after 6 p.m.

20 HP MERC ENGINE - 1973, long shaft, mint cond. \$400. 286-3815.

CLAM RAKE - Huntington, 16 teeth, 3" long. \$25. Ext. 4047/4090.

74 SEAGULL - Silver Century Plus, 5 hp outboard motor, excel cond. 286-2406.

19½' THUNDERBIRD - Fiberglass, 135 hp, Evinrude, CB radio, ready to go, trailer. \$2000. Sonny, Ext. 4666, 727-4925.

22' THUNDERBIRD - Twin 120 hp, i/o, fiberglass, d/f, cabin, full canvas, many extras, excel. 281-2767 eves.

18' THOMPSON - In/out board, elec winch, Cox tandem trailer, good cond. 727-5912.

40 HP JOHNSON - Excel running cond, all elec w/controls, must sell. Ext. 4058, 286-0436.

20' DEEPVEE - Fiberglass runabout, F.W. 165 hp, V8, valve job, very good cond, extras, price negotiable. 286-0237 after 6.

GILL NET - 200' long, 16' deep floats & weighted, new ready to use. \$150. Ext. 3357, 929-4949.

14' ALUM BOAT - Floatation under seats. \$150. Ext. 3357, 929-4949.

13' FIBERGLASS SKIF - W/trailer. \$150. Marty, Ext. 3284, 727-7093.

36' EGG HARBOR - 1962 sport fisherman, 2 new '75 engs, sleeps 7, s/s, depth, CB, mint. 799-6478.

31' CHRIS CRAFT - 1968 Commander, all fiberglass, sport fish, sleeps 4, twin 327 FWC, FB, DF, press water, excel cond. \$17,500. 325-1855 after 5.

23' PENN YAN - 1975, fly bridge, cruiser FWC 250 Merc inboard, radio, head, 50 hr, excel cond. 924-3265.

Miscellaneous

TAPE RECORDER - Sony TC-530 solid state 4 track stereo w/lid, satellite speakers. Jack, Ext. 2907.

COLLECTOR RECORD ALBUMS - Orig '40's recordings - Peggy Lee, Inkspots, others. Best offer. 286-1688.

24" TV - Bradford console, B&W, works well. \$25. 286-1688.

BABY CARRIAGE - 5; fireplace screen, \$5; lawn mower, \$25. 744-7170.

GE FREEZER - Upright, 17 cu ft, no frost, 2 yrs old, excel cond. \$200. 363-2940.

30" MOWER - Locke Reel, excel cond. \$450. 727-7559 after 5 p.m.

TYPEWRITER - Heavy duty manual model, Royal. \$50. 286-0703 eves.

COUCH - Stuffed sofa, old fashioned, white, good cond. 286-0703 eves.

COCKTAIL TABLE - W/2 matched end tables, used less than 6 mos. \$145. 286-8517 after 5:30 p.m.

LAWN MOWER - Craftsman 20" rotary-self-propelled w/grass catcher, works well. \$20. Rick, 286-2108.

REFRIG - Hotpoint, works very well. \$25. Rick, 286-2108 after 6 p.m.

BOY'S DRESS CLOTHES - Navy/green plaid sport coat, prep 19, dk grn knit slacks, 28 w x 31 l, like new. 286-0958.

BOWLING BALL - \$5; Reader's Digest "Do-Yourself" manual, brand new; orig cost \$13; will sell \$5. 727-5912.

EVERGREENS - 18" to 20", 2 for \$5; lily of valley plants, 20 for \$1. 727-1617.

CHEST OF DRAWERS - (2) \$10 ea; lawn seed & fertilizer spreader, \$8; Presto 6 qt pressure cooker, \$8. 727-1617.

BANJO - 4 string tenor w/case & capo, very good cond, \$25. 331-1203 after 5:30 p.m.

TV 19" - B&W Admiral portable, \$60; Xmas tree, \$10; clock, \$4; steam iron, \$4. Marion, 345-3187.

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.

SHASTA DAISY - Giant hybrid, you order, I dig & deliver. 50¢ each. Fred, Ext. 4095.

COX CAMPER - Excel cond. \$700. 281-5498.

ALUM S/S WINDOW - Fits window opening approx 28" x 55", good cond. \$6. 929-4624.

CAMPER - 11' truck type, excel cond, must sell. Ext. 4058, 286-0436.

STRAWBERRY PLANTS - 20/\$1. 924-3066.

YARD SALE - Saturday, May 28. 115 Randall Ave. Port Jefferson.

B&W TV - Like new, \$40; hair dryer, \$5; steam iron, \$5. Pierre, Ext. 3979, 345-3076 after 6.

LAWN MOWER - Jacobsen reel type power drive, new spark plug, windup spring & pull cord, very good cond. Asking \$45. Ext. 2898.

GIUITAR W/CASE - Excel cond. Diana, 589-2338 after 6.

CUT COIN JEWELRY - Hand crafted, pendants, earrings, etc. 924-3236.

YARD SALE - Play equip, life jackets, gems & junk. May 27 & 28, 10-4, 256 Bayport Ave, Bayport.

GARRARD TURNTABLE - Record changer, very reasonable. Ext. 3688.

PELLET PISTOL - Crosman 600-CO₂, 12 shot semi-auto, very good cond. \$10. Rick, 286-2108 after 6 p.m.

CANNING JARS - Glass top qts. Ext. 2907.

CEMETARY PLOT - Consisting of 4 individual graves (can be subdivided). Lincoln section, Washington Memorial Park. \$600. G. Neuhoft, 475-0462.

QUARTER HORSE TRAILER - Hale 72, good cond. \$925. W. Kane, Ext. 3841, 286-9450.

WOOD STOVE - ¾ size kit range, cast iron, good cond. Ext. 3841, 286-9450.

CAMERA - Minolta SLR, 1.7 lens and case, 85-210 zoom lens & compartment case. \$175. 475-9395.

SINK - 18" blue. \$7. Ext. 4395, 653-4195.

REFRIG - 16 cu ft, white, excel cond. Asking \$60. Dick, Ext. 4339, 654-2591 after 6 p.m.

MANURE - Well seasoned. Ken, 289-8212 eves.

GIUITAR - Lafayette electric w/amplifier, good cond, \$30; children's ski shoes, size 1, \$10; seat for van, seats 2, \$25; Low band receiver, fire, police, etc, \$35. 473-9180 after 2.

LARGE DOG HOUSE - Very heavy, best offer over \$30; snow plow attachment for riding mower, \$35. 473-9180 after 2 p.m.

PICKUP CAMPER - Fits 8 ft bed, paneled interior, lots of storage. \$650. 744-4316.

TRICYCLE - \$7; Sears sewing machine case, used 1 mo, \$10 or best offer. 928-4922.

BABY THINGS - Crib, \$10; windup swing, \$7; backpack, \$3; stroller, \$12. 928-4922.

FURNITURE - 10' lg corner sectional, \$100; 8' lg contemp couch w/attached end tables, \$75; driftwood coffee table & floor lamp, \$100; encyc Britannica Jr set, 1964, \$50; bowling ball ace, \$10. Bob, Ext. 3121, 744-5261.

FREE KITTENS - Very cute, some with no tails! Pat, 765-5371.

FUSE KIT - VW, Opel, Mercedes Benz, Audi, BMW, Porsche, NSU. 60¢/kit; VW tune-up kit, 64-67. \$2. Ext. 3609.

CANVASES - Artist, only 20 pks left, 6 x 8 & 7 x 9, mostly 3/pk, some 6/pk. \$10. Ext. 3609.

GLASSES - Set of 8, Libby's silver leaf, \$4; screen-movie/slide, 40 x 40. \$20. Ext. 3609.

KENMORE GAS RANGE - Double oven, like new, copper-tone. Ext. 4597.

KILN - Paragon 2000° F. \$30. Mike, Ext. 4851.

CHILD'S TABLE - 30" dia, round formica top, very sturdy, 2 captain chairs, maple finish. \$20. Joan, 744-3919 or Jack, Ext. 4447.

REFRIG/FREEZER - 2 dr Delmonico, 12 cu ft, good cond, 6 yrs old. \$75. Call 727-5467.

KING SIZE BED - Sealey Posturepedic, premier luxury-firm mattress, box springs, frame, perfect cond, used 1 yr, under warranty, moving, must sell. \$600 orig, will sell for \$450 or best offer by June 1. 286-9107 eves.

KLIPSCHORN LOUDSPEAKERS - In cabinet 50" high, 24" deep, 34" wide in front, 10" wide in back. Best offer \$350. 475-4963 after 7:30 p.m.

TV GAME - Atari pong, like new. Make offer. Mac, 744-0296.

CAMERA - Mimiya mini-dash press, 6 x 9 professional 2¼ x 3¼ negatives. Like new, make offer. Mac, 744-0296.

WOOD STOVE - Scandinavian, all cast iron, double wall, air tight. \$234. 289-1235.

SHOES - Men's brown leather, size 8, Clarks, bought in England, brand new. Ext. 2032.

AIR COND - Philco, 8000 Btu, very good cond. Asking \$150. 929-4522.

CAP - Alum for 8' pickup, make an offer. 475-8724.

HORSE - Yearling filly, 14 hands, all brown, reg quarter horse, excel for race or show. Ext. 4672 or 929-4753.

BIKE - 20" boy's Huffy 5 spd, \$35; Gown hoop, \$5; baby bottles and sterilizer, \$5; patio umbrella, \$5. 289-1754.

BICYCLES - 2 boy's 26", 3 spd; Raleigh Sport, \$25; Dunlet, \$15. 286-1205.

PET CARRIER - Skyview, \$7; pet shipping carrier, 16", \$5. Mike, Ext. 2048.

16' TRAILER - 1973 Tag-a-long, self-contained, sleeps 6, awning. 924-8547 after 6.

GIBSON GUITAR - 1956 Les Paul, Jr, all orig, very good cond w/orig case. \$300. Ext. 3280.

CHARBEQUE - True charcoal flavor w/no charcoal mess, elec, in good running cond. \$15. Bob, Ext. 4551.

ELEC WINDOW FAN - \$7; 24" bicycle, \$10; exerciser bicycle, \$20. Ext. 2485.

WINDOWS - Used, dbl hung, 31" x 54" w/screens, 3 window setup, \$10/window, storms for above \$10 each. All for \$50. T. Morris, 744-5096.

TWIN BOX SPRING & MATTRESS - Like new. 744-6362.

COX POP UP CAMPER - Excel. 584-6729.

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

WADING RIVER - 4 bedrm cape, ¾ treed acre, fp, w/w carpet, full bsmt. \$54,000. 929-8813 after 5:30.

STONY BROOK - 5 bedrm, fp, garage, appl. pool. Ext. 3319.

PORT JEFF STA - 3 bedrm colonial, wooded ½ acre, appl. \$7500 over 7% FHA mortgage. \$33,500. 928-4922.

TOWNHOUSE - 2 bedrm 1½ baths, w/w carpet, ac, appl. \$27,500 or \$300/mo. Ext. 3541, 924-4070.

UPSTATE PROPERTY - 7-30 acre parcels, road frontage, util, secluded, views. Ext. 3688, 363-7032.

N SHIRLEY - 4 bedrm colonial, 1½ baths, fp, w/w carpet, hardwood floors, s/s, wooded ½ acre. \$39,900. 924-3794 or Alex, Ext. 4662.

E PATCHOGUE - Sm hse, sm lot, sm taxes, good retirement home. 475-2848 after 5:30.

BLDG PLOT - 1 acre, 100 x 400, quiet country rd, wooded. 924-3236.

MIDDLE ISLAND - 3 bedrm custom ranch, 2 baths, fp, appl, treed lot w/fenced rear. \$39,900. 924-5220.

MOBILE HOME - 12' x 50', 2 bedrms, awning, skirting, Peconic River Park. Ext. 4550, 727-1464 after 6.

ROCKY POINT - 4 bedrm colonial, 2½ baths, fp, ac, wooded setting, assumable mortgage. \$46,500. Ext. 4362, 744-7667.

MEDFORD PINES - Mother/daughter, 7 appl, 2 baths, 4 bedrms. \$5000 over mortgage. David, 924-7516.

E MORICHES - Kaler's Pond, 3 bedrm colonial, 2 full baths, fp, in ground pool. ¾ acre. \$55,000. 878-2640.

SHOREHAM NORTH - 4 bedrm lg colonial, 2½ baths, den w/fp. \$55,000. 744-3660.

SHOREHAM - 4 bedrm ranch, 2½ baths, fp, w/w carpet, cathedral ceilings, full bsmt, 1 acre wooded, priv beach, mid 80's. Ext. 2439, 744-1428.

BELLPORT - 3 bedrm ranch, ½ acre landscaped & part wooded, appl, low down, assumable mortgage. \$32,500. 286-1440 eves.

CALVERTON - 3 bedrm, 1½ baths, appl, w/w carpet, ac, s&s. Ext. 2978, 269-2526 after 6.

MOBILE HOME - 12 x 60, 2 bedrms, 40' screen rm, appl, adult park. \$12,500. 727-0192.

STONY BROOK - 3 bedrms, 2½ baths, garage, appl, w/w carpets, extras. Ext. 4663, 751-5479.

MIDDLE ISLAND - 3 bedrm ranch w/fp, attached garage, wooded ¼ acre. \$30,000. Ext. 3043.

E PATCHOGUE - 4 bedrm, fp, 2 baths, garage, glassed porch, ac, s&s. Asking \$70,000. 475-6916.

MORICHES/CRYSTAL BEACH - 4 bedrm ranch, ½ acre, pool, s&s, beach & boat dock rights. \$35,000. 878-0684.

MOTHER/DAUGHTER - 7 rms in all, 2 baths. Asking \$29,500. N Bellport. Ext. 2457, 286-0874.

MEDFORD - Appl, screens, ac, clubhouse, pool, golf, tennis. Below cost, \$29,500. 732-5252, 286-0838 eves.

N SHIRLEY - 2 bedrm ranch, fp, treed ½ acre, 6' fence, adj Southaven Park. June, Ext. 2970, 399-0836 after 5.

For Rent