



Laboratory Attracts Thousands

Brookhaven opened its doors for five days last week and invited the public to visit the Energy Fair and the weekend Open House. Almost 35,000 people took advantage of the invitation.

Not deterred by the hot weather on Saturday and the chill rain on Sunday, some 22,500 people tramped through the Laboratory grounds on the weekend. There were very few jam-ups. The efficient staff, the well-thought-out arrangements and Brookhaven's spacious grounds easily took care of the large crowds.

People who had not been here before were astounded and somewhat overwhelmed by the scope of the Laboratory. One person said, "it's like the World's Fair." Many agreed that one day was not enough in which to see it all and settled for seeing just a few things in depth. One woman said she spent two hours at the HFBR alone.

Months of preparation went into the Fair and Open House and, as a rough estimate, about 500 employees were involved in the countless details that make such ventures possible. "It was a splendid success," said Laboratory Director George Vineyard, "and as before, our staff performed nobly. Great credit is due all."

As visitors pulled up at the gate, Labora-

tory employees greeted them with "welcome to Brookhaven" and distributed guide books. After they were directed to parking areas, the visitors were free to go where they wished.

Scientists manned their posts throughout the departments, explaining their research. They had spent a lot of time and effort in creating exhibits which would effectively communicate their work to the public. In some cases, if it seemed somewhat esoteric, people wanted to know how it was to be applied, but then quite willingly accepted the explanation that what they were seeing was fundamental research.

Exhibitors were hoarse explaining their presentations to the public at Open House and, as one said, "the response was great - it was unbelievable." Displays by do-it-yourselfers were particularly popular: Arnold Roesch of Physics with his solar furnace and solar panels; Ed McDougall, a former employee of Brookhaven with his solar greenhouse; and a young Patchogue high-schooler, with his model solar house.

The "public" for the first three days consisted primarily of students, nearly 12,000 from elementary school age on up. The younger set was mostly interested in finding

out where to buy soda, the location of the bathrooms and in accumulating all the literature in sight. "Oh boy, a pot-bellied stove!" said one youngster as he dashed toward the wood-burning stoves. Some could not understand what these "old" stoves had to do with an up-to-date energy fair, but the exhibitor explained how present day models produced a lot of heat for a small amount of wood.

The older student asked questions of the exhibitors and flocked around the computer "answer man" at the DAS Energy Forum exhibit and the Energy Environment Stimulator game developed by Oak Ridge National Laboratory. Solar energy exhibits were a big drawing card, as were the electric and hydrogen automobiles. Of course, there were a few fist fights and other frolics on Brookhaven's grassy slopes. Eighty-two busloads of students from all over Long Island came through the gates on Friday alone.

It is unfortunate that a whole *Bulletin* could not be devoted to thanking by name all those who worked so hard on these events. Some, in particular, were pillars of strength and solved the many problems with patience and great competence.

Official & Special Events

- Monday, May 24
Chemistry Visiting Committee (24-26)
- Tuesday, May 25
International Energy Agency Steering Committee Systems Analysis - Berkner Hall (25-26)
- Wednesday, May 26
Netherlands Student's Tour
ISABELLE Workshop (26-28)
Navy Meeting
- Friday, May 28
BERA Art Show Opening
High Energy Discussion Group Meeting

- Monday, May 31
Holiday - Memorial Day

Tandem Achieves Record Energy

An improved design voltage of 13 million volts was reached by the Tandem Van de Graaff Facility on Monday. This is the culmination of the first stage of a program started in February, to upgrade the facility from an operating voltage of 11.5 MV.

The improved capabilities open up new areas of research for the Brookhaven physicist and for the many outside users of the facility. Andy Sunyar and Charles Flaum are already at work on a Coulomb excitation experiment using 197 and 204 MeV Ni beams, the highest energy heavy ion beams ever accelerated by an electrostatic accelerator.

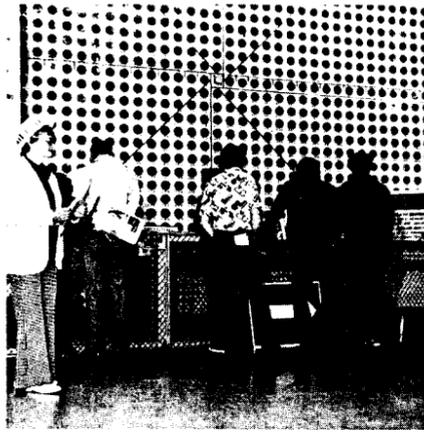
The present improvement, together with the previously implemented dual-stripping system, makes this the highest energy heavy ion accelerator of this type in the world. At the end of the summer, when the second stage of the improvement program will be completed and a large variety of high energy beams becomes available from the injector machine, even more unique capabilities will be realized.

Under the direction of Peter Thieberger, Head of the Tandem Facility Operations and Development Group, many people have worked very hard and with great enthusiasm to make the present achievement possible.

The operating and maintenance crew, under the leadership of Bob Lindgren, did most of the installation work; Chuck Carlson supervised evening shifts. Other members of this crew are: Hans Abendroth, Marc Barnett, John Dunn, Pete Erikson, Ernie Lange, Karl Rosenbaum and George Smith.

Mario Manni designed and supervised the fabrication of many of the components, some of which were made by Charles Hebrance and Alex Walker in the Tandem machine shop. Frank Rumph, Bernie Comfort, Ken Asselta and George Hummer helped with assembly and installation.

Mike McKeown and Ted Robinson took time away from their terminal ion source project to lend helping hands, and Irv Feigenbaum assisted in various aspects of installation and procurement. Leroy James and Rick Kalinowski, under the supervision of George Schwender, worked on some of the control improvements.



—photos by Rosen

Some of the people who worked on the Tandem improvement program meet in celebration after this accelerator reached the improved design voltage of 13 MV.

—photo by Rosen



—Photos by Rosen

Vignettes

One teen-ager when he left home on Friday to go to the Energy Fair, left his mother a note telling her that he also planned to run away from home that day. His frantic mother got in touch with the principal of the school, who telephoned Brookhaven to try and locate the teacher who headed the class's visit. As the call was being discussed at the Energy HQ, a staffer just happened to hear a student call that particular teacher's name in the lobby and rushed to get her. The teacher located the student, and apparently, everything was talked out and the student planned to go home after all. Out of thousands of people roaming around, the right name was called at the right time. What are the mathematical odds for that?

Another student, of an athletic bent, rolled down the hill from the Graphite Research Reactor (Exhibition Hall) and then dropped six feet onto a driveway. Fortunately, she only suffered cuts and bruises and a snow fence was put up at the bottom of the hill to break the fall of any other would-be rollers.

Visitor to parking attendant: Where do we park a horse? The horse was led to the old campground.

Many people brought their own lunches, but those that didn't consumed 3,600 hamburgers, 1,600 feet of hot dogs, 7,200 cans of soda, 2,000 bags of potato chips and 2,200 small cakes.

A problem arose as to how to move a large tent from Brookhaven Ave. opposite Berkner Hall to another area behind the Physics Building. There was no time to disassemble it. So nine men each grabbed a tent pole, and walking three abreast, moved the huge tent in stately procession down the street.

The Science Store in the Exhibition Hall sold out of balloons. The public also bought 150 bumper stickers, 1200 buttons, 300 coloring books, 100 ecology test kits, 500 nail puzzles, 500 pens, 900 postcards and 100 mechanical men.

A busload of students came down from Albany the previous weekend. Their professor had given them the wrong date. The guards at the gate were solicitous and gave them some literature. The students took it philosophically - "o.k." they said, "it was a nice drive."



—photo by Walton

Research In Motion

Warren E. Winsche, Associate Director for Energy, who pressed the study of hydrogen as a synthetic fuel at Brookhaven almost ten years ago, took a ride in a hydrogen-powered car with Roger Billings, President of Billings Energy Research Corporation, Provo, Utah. This company has applied the research initiated at Brookhaven to an automotive system making developments and innovations of its own. Their two-passenger hydrogen-powered car and hydrogen-powered mass transit bus were exhibited at Brookhaven's Energy Fair last week.

In this system, electricity is used to break water down into hydrogen and oxygen. The hydrogen is chemically stored as a

metal hydride in a tank that replaces the battery. The metal hydride tank fits into the battery space and is designed to have the same weight as a battery, but stores more energy. Hydrogen storage tanks are also as safe and as easy to recharge as batteries.

Storing hydrogen in the form of a metal hydride was first researched at Brookhaven by J.J. Reilly and R.H. Wiswall of DAS. Hydrogen is combined with an iron titanium hydride, a compound originally discovered here.

The car was on display in the gymnasium and the hydrogen bus ferried passengers on frequent trips around the site.



"Near Amalfi, Italy" by Louis Comfort Tiffany, one of the American paintings on loan from The Heckscher Museum to be shown at Berkner Hall, opening May 28 and continuing through June 17. A buffet supper, at \$5 per person, will be served at 6 p.m. prior to the opening at 8:00 p.m. For reservations call Ext. 3364.

Same Time, Next Year

Suggestions and comments are invited on the operation of the Open House. There is always room for improvement and we want to make this event as effective and as smooth-running as possible. Please communicate your ideas to Public Relations, Bldg. 460, so that they can be put to use in the future.

Cafeteria Menu

Week Ending May 28, 1976

Monday, May 24	
Cream of Mushroom Soup	
Chicken a la King on Rice	1.10
Cheese Omelet & 1 veg.	1.00
Tuesday, May 25	
French Onion Soup	
Chinese Pepper Steak on Rice	1.25
Roast Fresh Ham & 1 veg.	1.30
Wednesday, May 26	
Split Pea Soup	
Breaded Flounder Filet & fr. fr.	1.05
Special	
Spaghetti w/Meat Sauce & Garlic Bread	
All You Can Eat	\$1.00 plus tax
Thursday, May 27	
Cream of Chicken Soup	
Beef Hash & 1 veg.	1.10
Veal Pattie Parmigiana & 1 veg.	1.20
Friday, May 28	
Manhattan Clam Chowder	
Broiled Filet & 1 veg.	1.10
Meat Loaf & 1 veg.	1.15

Arrivals & Departures

Arrivals

James E. Glover	Applied Science
Edward E. Rogers	Plant Engrg.
Dar-Sun Tsien	Applied Math.
Lillian L. Yeh	Applied Math.

Departures

NONE

BERA Book Corner

If you're an avid reader and enjoy good books, our new Book Corner program may be just right for you. Every other month, a new listing of the latest, first-quality hard-covered books will be offered at remarkably low cost.

You may choose from top fiction and non-fiction, valuable home reference books, cookbooks, children's books, volumes on sports, recreation, homecrafts, gardening and entertainment. These are excellent quality books from Doubleday. They are the publisher's editions, not the usual book club editions.

Unlike a regular book club, you are not obligated to buy additional books; you will not be pestered by monthly offerings that must be returned; and you will not receive unwanted books in the mail. You simply select your favorite book bargain when you see it listed in the "Employee's Book Corner." Then fill out the coupon and mail it along with the proper amount to the address given. The book will be mailed within a few weeks.

The "Employee's Book Corner" listing is available at the BERA Sales & Services Office in the Cafeteria. Some of the selections during the present period are: "Trinity" by Leon Uris, priced at \$8.95; "1876: A Novel" by Gore Vidal, priced at \$7.95; "America On \$8 A Night" by Ellen and Robert Christopher, priced at \$3.50; "Good Housekeeping Cookbook", priced at \$6.95; "Sylvia Porter's Money Book" priced at \$11.95.

This is just a portion of the list. Pick up your copy and take advantage of this valuable offer.

Diners Note

The Center Club will be closed Sunday May 30, the day preceding Memorial Day. However, it will be open on Monday evening, May 31.

The Cafeteria will be open from 9 a.m. until 2 p.m. on Saturday, Sunday and Monday May 29, 30 and 31.

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

Washington Visitor

— photo by Rosen



Edwin E. Kintner (right), Director, Division of Controlled Thermonuclear Research, ERDA, with Krsto Prelec at the Negative Ion Source Laboratory, during a visit to Brookhaven this week.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

BERNICE PETERSEN, Editor

DOUG HUMPHREY, Photo-Journalist

CAROL PETRAITIS, Copy Preparation

40 Brookhaven Ave. Upton, N.Y. 11973
Telephone 516 345-2345

CARL R. THIEN, Public Relations Officer

Letters To The Editor

To All Worth's Friends at the Lab,

Worth's family wishes to thank you all for your beautiful expression of sympathy. We know he will be missed greatly.

Sincerely,
Isabel Austin & family

Inside Info

Pat Towey, Executive Secretary of the Nuclear Theory and Particle Physics Theory Group (see *Bulletin*, April 16, 1976) has just been named Secretary of the Year for New York State. She was selected from among 23 candidates statewide.

1976 Children's Summer Program

The Children's Summer Recreation Program will begin on Wednesday, July 7, and extend through Friday, August 27, 1976. The program will consist of two parts and will be supervised by experienced instructors.

On-Site Play Sessions

The morning portion of the program will be for the children of on-site residents only. Participants must be at least five years of age and teenagers are encouraged to register. The sessions will be held daily, Monday through Friday, from 9:00 to 11:30 a.m., at the Recreation Building in the Apartment Area.

Swimming Classes

Swimming instructions will be offered to children of all Laboratory employees. Each child will be scheduled for one lesson each week for a total of eight lessons. The instructors will evaluate each child's swimming abilities during the first session to determine his/her proper classification. The major objective of the program is to help the children improve their skills as much as possible in the time allotted. American Red Cross certificates will be awarded to those who qualify. All children, who attend regularly, will receive a card recognizing their participation.

Applications, with detailed information on each program, are available at the Recreation Office in Building 185. Applications must be submitted to the Recreation Office prior to June 30.

Direct any questions to Personnel, Ext. 2873.

May Service Awards

The following employees will receive service awards during the month of May.

Twenty-Five Years

John P. Galvin Chemistry

Twenty Years

Hugh N. Brown Accelerator

Ten Years

Josephine R. Candiano Applied Math.

Clinton J. Coone Supply & Materiel

Arthur M. Hansen Plant Engineering

Eugene A. Kern Central Shops

Lillian S. Kouchinsky Accelerator

John S. Read Plant Engineering

Robert Thomas Chemistry

Selected Reading

Chem. Eng. (N.Y.) 83, May 10, 1976

Win recognition through committee leadership.

P.S. Shane. 129-30

J. Am. Med. Assoc. 235, April 26, 1976

The artist as scientist. N.J.C. Andreasen. 1868-

72

Nature 261, May 6, 1976

Dishonesty and grants. L. Van Valen. 2

Science 192, April 30, 1976

Public participation in science: Still in need of

definition. B.J. Culliton. 451-3

Get Your Tickets!



The Dudgeon family and the minister of Westerbridge assemble for the reading of the will - a reading with an unexpected conclusion for all - in Act I of "The Devil's Disciple." From left, Sean Glynn, Jane Love, Sharon Smith, Robert Kinsey, Doug Gunwaldsen, Pat Gubbins, Mike Losquadro, Jr., Carolyn Wenck, Rita Straub. Tickets will go on sale on Monday, May 24, at Berkner Hall, the Personnel Office (Blanche Laskee) and at the Administration Bldg. 460 (Gail Williams). Tickets \$3; students and those over 65, \$2.



British baiter, Richard Dudgeon (Mike Losquadro, Jr.) contemplates the noose - the closing and climactic scene in "The Devil's Disciple," the coming Bicentennial production of the Theatre Group.

Trip To New York City

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, June 2. Departure will be at 8:29 a.m. from the LIRR station in Patchogue. Note the new departure time. The round trip fare for adults is \$2.45, children under 6 years ride free. Reserve a ticket by sending your fare through the U.S. Mail to Post Office Box 322, Upton, New York, no later than May 27. Make checks payable to Cash.

A Chinese "Deem Fum" luncheon is planned for the same day in Chinatown. If you are interested in participating in this event, send your reservation and check in the same manner as above. The cost of the luncheon is \$4.50 per person.

Litter Bugs

Ever notice how well kept and litter-free the grounds are here at Brookhaven. In order to keep our site from resembling a town dumps the Grounds Maintenance Group spends approximately 120 hours a week picking up beer cans, papers and trash discarded by some careless people. Refuse containers are located around the site for the disposal of these items. Everyone's cooperation is requested to help keep Brookhaven litter-free.

CREF Unit Values

1975			
January	\$30.67	February	\$32.80
March	33.77	April	36.12
May	38.07	June	39.88
July	36.81	August	35.86
September	34.31	October	35.89
November	36.61	December	36.34

1976			
January	\$40.31	February	\$39.76
March	40.75	April	\$40.10

Upton Nursery School

Upton Nursery School is currently registering new students for the 1976-77 school year which starts in September. Our classes are filling rapidly. If you are interested in enrolling your three or four year old, please call Linda Lynn at 924-8329.

Race Results

17.76 Mile Bicentennial Run
2.76 Mile

Under 16		
1	Brian Christian	16:26
2	Jacob Kahn	16:34
3	Glen Pappas	16:36
4 (tie)	Bill Hobbs	17:54
4 (tie)	George Skidmore	17:54
5	Mike Oldham	18:22
6	Charles Lefkowitz	20:09
7	William Sullivan	23:37
8	Desiree Weeks	27:03
9	Karen Hippner	27:23
10	Kathy Sullivan	27:24
11	Debbie Weeks	33:59

Males 16-39		
1	John Millener	16:25
2	Richard Eichler	17:26
3	Tim Oldham	18:22
4	Steve Goodwin	19:39
5	Paul Korelski	19:54
6	Hugh Isaacs	20:17
7	Franz Reidinger	21:01
8	Peter Adams	21:17
9	John Scrofani	21:28
10	Charles Nauman	23:29

Females 16-39		
1	Margaret Hubdell	21:04
2	Jean Burt	22:29
3	Geralyn McKiernan	26:09

Males 40 & Over		
1	John Elmore	19:09
2	Sol Pearlstein	23:56

Females 40 & Over		
1	Anne Nauman	24:07

5 Mile		
Under 16		
1	David Levine	30:36
2	Mark Terrone	35:36
3	Jeffrey Gross	37:03
4	Kim Schindler	42:05
5	Gregory Schindler	49:34

Males 16-39		
1	Michael Hobdell	31:14
2	Dan Bray	32:05
3	James Guppy	34:04
4	Tom Breeden	35:18
5	Naresh Bhagat	35:27
6	Boyd Osgood	35:47
7	William Deppe	36:29
8	Henry Makowitz	37:56
9	Tom Layden	38:07
10	Richard May	46:35

Females 16-39		
1	Karen Popp	38:18
2	Connie Christ	39:49
3	Frances Caruso	40:38
4	Evelina Sarles	50:28

40 & Over		
1	Cornell Cornish	37:13
2	Louis Addressi	37:14
3	Robert Phillips	39:19
4	Gerald Kinne	41:40
5	James Costanzo	42:40

10 Mile		
Males 16-39		
1	Lawrence Farrell	62:06
2	Martin Brekeller	63:41
3	Andrew McNewney	65:39
4	Wesley Querns	68:55
5	William Thomlinson	69:10
6	Robert Tucker	70:55
7	Sam Baumgarten	72:02
8	Robert Bari	74:23
9	Ron Weider	74:27
10	James Lynch	74:52
11	Bill Piel	76:55

Females 16-39		
1	Gail Waite	102:49

40 & Over		
1	Gus Prince	64:40
2	Vincent Zizzi	65:15
3	Don MacKenzie	69:25
4	Vincent Racaniello	72:45
5	Arthur Harris	80:25
6	Stuart Glass	90:14

Team Relay Results					
Team	Expected Time (min)	Actual Time (min)	Handicap Factor	Handicap Time (min)	Finish Place
A	265.9	261.8	.797	208.7	1
B	255.7	254.8	.829	211.2	3 (tie)
C	265.8	263.0	.798	209.9	2
D	268.1	272.7	.791	215.7	5
E	253.6	256.4	.836	214.4	4
F	268.6	267.7	.789	211.2	3 (tie)

A	D
Tucker, R.	Farrell, L.
McNerney, A.	Waite, G.
Costanzo, J.	Kinne, G.
Cornish, C.	Levine, D.
Pearlstein, S.	Oldham, T.
Scrofani, J.	Eichler, R.

B	E
Prince, A.	Bari, R.
Lynch, J.	MacKenzie, D.
(Average)	Makowitz, H.
Bhagat, N.	Osgood, B.
Adams, P.	Burt, J.
Reidinger, F.	Millener, J.

C	F
Wieder, R.	Piel, B.
Racaniello, V.	Thomlinson, B.
Phillips, R.	Caruso, F.
Guppy, J.	Addressi, L.
Nauman, A.	Isaacs, H.
Oldham, M.	Naumann, C.

Upcoming Cycling Events

The BNL Spring Bike Race, lengthened to 17.76 miles in honor of the Bicentennial will take place June 6 at 10:00 a.m., rain date (heavy rain only) June 13. There are six categories of racers: junior (under 16 years of age), senior (16-39) and veteran (40 or over), for both men and women.

This is not a time trial; all racers start at the same time (if the number of racers is large, two or more groups will be started). The race is open to all BNL employees and their guests. It is a fun race - if all you're interested in is a brisk ride in fresh air and meeting others with the same interest, come on along. But don't expect to be in the winner's circle unless you've practiced almost to the point of punishment because in previous races, there have been some darn good cyclists.

Average winning speeds have been about 22 mph. Advance registration forms (necessary for minors unless they bring a parent along) are obtainable from Gerry Morgan, Ext. 4841, Bldg. 815; registration is also possible on race day beginning at 9 a.m. Volunteers to assist in race chores are welcome.

There will be a joint tour with other L.I. clubs on July 18. This is the "Riverhead Run," a standard route clockwise from Riverhead via North Fork, Shelter Island and South Fork, for a total of 65 miles. Persons who missed the Beginner's Tour to Wildwood Park on May 2, would be wise to try a practice run of at least 25 miles at reasonably brisk speeds, say 12 mph, before attempting this tour. Advance registration with Gerry Morgan is necessary.

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.

100. MASTER METAL WORKER, GROUP LEADER - Central Shops Division.

102. TECHNICIAN - AAS degree or equivalent in mechanical technology or engineering science to assist in operation, maintenance and repair of the 7-foot bubble chamber and the 8° superconducting bending magnet. Shift work. Particle Detector Division. Accelerator Department.

103. SECRETARY - Department of Applied Science.

104. SECRETARY - AAS degree or equivalent in secretarial science with technical typing experience. Department of Applied Science.

105. RADIOACTIVE MATERIALS TREATMENT OPERATOR - AAS degree or equivalent in mechanical technology. Experience in chemistry and in the operation and repair of mechanical equipment. Department of Applied Science.

106. TECHNICIAN - Temporary position. Involves providing assistance in organometallic studies. Department of Applied Science.

107. TECHNICIAN - Requires strong background in the mechanical testing of metals and experience in the operation of servo-controlled electrohydraulic systems and associated instrumentation. A sound knowledge of the metallurgy of high temperature metals is required. Assignment includes electron microscopic and metallographic examination of failed specimens. Department of Applied Science.

108. LABORATORY CUSTODIANS - Application deadline: May 26, 1976. Plant Engineering Division.

109. OFFICE SERVICES ASSISTANT - Staff Services Division.

Autos & Auto Supplies

72 DATSUN - Orange, radial tires, standard trans. \$1200. 928-8044.

74 DATSUN - 610, 4 dr sedan, ac, am/fm, reclining bucket seats, 110 hp, new steel radials, excel cond, must sell. \$2950. 744-2404.

64 CHEVY - "Nose," perfect cond. Asking \$75. Larry, 751-2149.

KAWASAKI - 250 cc KX Motorcross, new tires, Koni shocks, forward mounted shocks. P. Hichborn, 929-4133.

74 KAWASAKI - 125 cc Enduro, expansion chamber, tuned exhaust, 950 mi, excel cond. \$590. P. Hichborn, 929-4133.

73 CHEVY VAN - C10, 1/2 ton, 307 V8, standard windows all around, very good cond. \$2000. P. Hichborn, 929-4133.

71 OPEL - Sedan, 2 dr, 4 spd, rebuilt engine. \$700. Ext. 2882.

67 OPEL KADETT - Good for parts, good tires, \$50. Kathy, Ext. 4379, 472-1518.

73 HONDA - Minicycle, S170, 72 cc, 4 spd, low mi, excel cond. 298-4045.

67 OLDS - Delta Custom, ac/ps/pb/pw/pseats, antenna, vinyl top, radio, \$700. 289-8382.

KAWASAKI 250 - Street & trail, '74, 1900 mi, like new. \$695. Bob, Ext. 4411, 727-2346 after 6.

69 CHEVY IMPALA - Very good cond. Asking \$750. Frank, Ext. 2957, 929-8317.

74 DATSUN - 260Z, red, new tires, excel cond. Adam, Ext. 3241 eves.

72 SUZUKI - 125 cc, 8 spd Enduro type. \$300. 653-5989.

71 FORD LTD - Station wagon, ps/pb/ac, 10 pass, clean. \$1200. Ext. 3085.

ROAD LIGHTS KIT - Marchal 850 GT, quartz halogenes, sells for \$70, like new. \$40. Mike, Ext. 3390.

64 OLDSMOBILE 88 - \$250. Ext. 4309.

63 PLYMOUTH - V8, auto trans, running cond. \$150 or best offer. George, Ext. 4308, 698-6051.

68 VW - Tan, very good cond, 53,000 mi, new battery, front bearings & carb. Joe Mead, Ext. 4255, 289-1831.

65 CHEVY IMPALA - Convertible, 455 Olds eng, \$250. Mike, 665-0004.

64 CHEVY IMPALA - 78,000 mi, \$150. Mike, 665-0004.

67 FORD FAIRLANE GT - 72 eng, 4 spd, new front end & brakes, very good cond. \$750. 751-6647.

FORD GENERATOR - 12 V. M. Tesla, Ext. 3284.

73 CHEVROLET - 3/4 ton, turbo-automatic, am/fm, 2 tone, white/yellow, excel, orig owner. \$3200. 325-1961, Ext. 3146.

69 OPEL COUPE - 1100 cc, 4 spd, r&h, new tires & exhaust, driven daily but needs transmission work. \$375. 325-0233 after 6.

73 PINTO - Station wagon, 4 spd standard, 34,000 mi, 26 mpg. \$1700. Jim Nekerman, Ext. 4810.

68 CHEVY CAPRICE - 327 V8, 2 dr sedan, ps/pb, ac, 8 track stereo, excel cond. \$600. Agrawal, 928-6032.

68 MONTEGO WAGON - 4 dr, ac, needs hose. Asking \$500. Ed Grahn, Ext. 4547.

70 TRIUMPH GT - Good running cond, orig owner. \$1500. 286-8923 after 5.

RIMS - (2) 15" VW, \$5; (2) 13", \$3. O. Booker, Ext. 4719.

75 FORD PICK UP - 3/4 ton, 4x4, automatic, V8, am/fm stereo, tape, many extras, low mi, must sell. Ext. 4068, 298-5092.

63 FORD FAIRLANE - 6 cyl, auto, good tires & battery, runs, needs radiator & windshield. \$50. Dunning, Ext. 4285, 732-4068.

71 CHEVY MALIBU - 6 cyl, 2 dr hdtp, auto, ps, new muffler & brakes. \$1600. Liz, Ext. 3940, 584-5216 after 6.

75 FORD PICKUP - Crew cab, 8' bed, 390 engine camper special, many extras. 14,000 mi. \$5600. J. Soler, 588-0147.

Boats & Marine Supplies

26' OWENS - Sleeps 4, rebuilt 283 Chevy eng, new manifolds, full camper back. \$2700. 924-6862.

16' PENN YAN - Lapstrake runabout, full canvas, no motor, good cond. \$250. 261-6964.

71 STARCRAFT - 14' aluminum, 33 hp Johnson, trailer, canvas. \$975. Joel, 286-8633.

34' BALTZER - 1953, twin Chrysler crown eng, camper back, excel family or fishing boat, perfect time to buy! Just in time for summer. 331-1718.

Miscellaneous

MATTRESS & BOX SPRING - Twin size, excel cond. \$25. 698-0013 after May 24.

REFRIGERATOR - Sealco, very good cond. Ext. 3850/3067, 929-6976 eves.

SANSUI - Stereo & quad, am/fm + turntable, 2 HK-20's, 1 yr old, must sell. Asking \$250. Andy, 473-7546.

WING BACK SOFA - Early Amer, 84", sturdy frame, needs reupholstering. \$40. Dick, Ext. 3910, 732-7564.

CLOTHES DRYER - Natural gas, Sears Kenmore, good operating cond. \$50. Dick, Ext. 3910, 732-7564.

SEWING MACHINE - Portable w/case, button hole & other attachments, Sears model T1. \$35. Ext. 4240, 286-0295.

MOVIE PROJECTOR - 8mm Argus w/case. \$10. Ext. 4240.

PORTABLE TV - 16", Olympic, excel cond & picture. \$35. Fred, Ext. 4597, 475-4935.

SWIMMING POOL - 15' x 42", brand new, includes ladder, filter, skimmer, liner, cover. \$350. 281-1983 after 5.

YORKSHIRE TERRIER - Male, 12 weeks old, shots, sweet tempered, lovable toy. Alyce Daly, Ext. 2902, 475-2627.

20" ROTARY LAWN MOWER - Good runner, easy start. Ed, Ext. 4597.

NEW BRICKS - Approx 300, finished 3 sides, 4"x4"x12", off-white for decorative walls, borders w/cap mold, will deliver. \$60. Fred, Ext. 4597, 475-4935.

24" GIRL'S BICYCLE - Ross. \$15. Al, Ext. 3170.

DRUM SET - 4 drums, 2 cymbals, 18" & 12", high hat, bass drum muffler, throne. \$225. Jeff, 653-4571 or John, Ext. 4661.

KITCHEN SET - Formica, 42" round table, white, 4 high back chairs. \$35. 487-8523.

DINING RM SET - Mahogany, 6 chairs, buffet, china closet, table w/leaves, \$50; high boy dresser, \$20. 487-8523.

2 AREA RUGS - Green, good cond, 9 1/2 x 12 & 3 1/2 x 5, best offer. Joe, Ext. 2063.

BEDSPREAD & CURTAINS - Quilted, queen size spread, matching curtains, 2 pairs, 2'x6'2", green & white pattern. Joe, Ext. 2063.

DINETTE TABLE - Unpainted pine, 4 captain chairs, (2) 12" leaves, buffet, coffee table. 286-0376.

COLONIAL SOFA - Hardware love seat & rocker frames, hard maple single bed, dresser, mirror, night table. 286-0376.

WASHING MACHINE - Kenmore 14 lb, good cond. \$150. 399-1553.

AM/FM STEREO RECEIVER - Midland solid state, needs minor repair, used very little. \$20. Ann, Ext. 3143.

SONY STEREO RECORDER - Excel cond, rarely used. \$100. Ann, Ext. 3143.

GUN RACK - 4 racks, w/drawer, maple. \$10. Ann, Ext. 3143.

STATUE - Darwin, \$3. Ann, Ext. 3143.

FM RECEIVER - Lafayette, \$10. Ann, Ext. 3143.

AM/FM STEREO RECEIVER - Lafayette, mod LA 215, good working cond. \$30. Ann, Ext. 3143.

WALLDESK - W/sliding door bookshelf & fold down desk top, \$25. Ext. 2041.

EASY WASHING MACHINE - In working cond. \$25. 744-9475.

YOUTH BED - Like new, excel cond, w/rails; baby crib, good cond. 399-0307.

STEREO SYSTEM - 2 large 3-way reflex enclosures w/15" woofers, 50 watt stereo amp & am/fm stereo tuner. \$250. Ext. 4121.

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

REFRIGERATOR - Philco, 15 cu ft, very good cond. \$40. 929-6976 eves.

17" CHAIN SAW - Sears. \$75. 473-3532.

HOSTA FUNKIA - Healthy plants, reasonable; used golf balls, asstd quality & quantity, reasonable. Irene, 589-6468 after 5.

CLOTHES DRYER - Natural gas, Sears Kenmore, good operating cond. \$50. Dick, Ext. 3910, 732-7564.

YORKSHIRE TERRIER PUP - Personality plus, health certificate, shots, reasonable, hand raised, akc. A. Daly, Ext. 2902, 475-2627 eves.

BASS AMP - Kustom 100, excel cond. \$150. 473-8995 after 6.

75 TRAVEL TRAILER - 19 1/2', sleeps 6, fully self-contained, bathrm, dressing rm w/stall shower, 4 burner stove, 6 cu ft refrig, tandem wheels, extras. Asking \$3750. Ext. 2978, 369-2526 eves.

GLASS JUGS - Large 5 gallon. Ext. 3696, 727-1494.

DINETTE - Blonde mahogany, 4 upholstered chairs, china & buffet. \$300 or best offer. C. Eterno, 929-6172.

QUILTED MATTRESS - & box spring, twin size, excel cond. \$25. 698-0013.

3 DRESSERS - (2) 3-drawer, (1) 4-drawer w/mirrors, rocking chair, tables, chairs, beds in all sizes, very reasonable. Cholly, 281-5385.

23" B&W TV - Magnavox, floor model, works. \$15. J. Guthy, 929-8287.

USED FURNITURE - 3 bedrm suites, walnut, mahogany, excel cond; misc items, prices negotiable. 363-7119.

73 SPRINTER TRAILER - 5th wheeler, model 4405B, air, radio & tape, heater, hot water, carpet, refrig & stove, full bath. \$6100; w/73 Ford F250, 360 cu in, \$8100. Gwathney, Ext. 2238.

VIKING II - W/122 VFO Hammarlund HZ140 & speaker, 2 Dewald CB sets & other ham gear. Fred, 698-0373.

STRAWBERRY PLANTS - 15 plants for \$1. 924-3066.

LARGE BUFFET - Quite old, walnut, \$50. 588-5833.

FIELDER'S GLOVE - Spaulding, fits right hand, used 1 season. Bill, Ext. 4662.

REEL LAWN MOWER - \$10; girl's bike, \$5; boy's bike, \$2. 727-5478.

EARLY AMER SOFA - Wing back, 84", sturdy frame, needs reupholstering. \$40. Dick, Ext. 3910, 732-7564.

RIDING HARD HAT - Size 6 1/2, like new, \$7.50; riding jodphurs, light beige, size 14, \$7.50. V. Jacobsen, 588-7635, after 6.

SONY AM/FM CLOCK RADIO - \$10; coffee perk, Farberware, superfast, low price; Farberware toaster, cheap, leaving Lab. Ext. 4388, 345-3214 eves.

COUCH - Danish walnut w/attached end tables, new foam. \$35; 55 gal type barbeque, never used. \$5; 21" TV stand, \$3. Bill, Ext. 4665, 732-9102.

LIVING RM - 3-piece Mediterranean sectional, 2 chairs, blue velvet, table, full bed w/frame, 6 months. 234-4205 before 4.

FISHING SEAT - Sears folding, folds to 10x7", used twice, good buy at \$2.50. 727-3608.

BABY ITEMS - GM infant car seat, \$4; baby car seat, \$18; umbrella type folding stroller, \$12; all excel cond. Ext. 4010.

73 DODGE MOTOR HOME - 22', sleeps 6, self-contained, stereo, ac, built-in vacuum, 10,000 mi. \$9500. 589-6243 after 6.

CORNER DESK - 5' baseboard heat w/thermostat, Ext. 3688.

TOYS - Ride around fire engine, \$8; bicycle, 18", good cond, \$8. Ted, Ext. 4163, 4126.

ELECTRIC HEATING UNITS - Baseboard units, enough for 3 bedrm house, \$14/kw or \$210, takes all. Ted, Ext. 4163, 4126.

SURFBOARD - Hobie Silver Bullet, 7'6", very good cond. \$55. Ted, Ext. 4163, 4126.

COPYMATE III - Copy machine. \$20. Ted, Ext. 4163, 4126.

CHAIN SAW - McClillock, heavy duty, model 250 19". F. Gill, Ext. 4725, 473-8716.

SWIMMING POOL - 24'x48" Coleco decorative embossed galvanized steel sidewall, fantail, redwood deck, alum fence w/self-latching gate complete w/Jacuzzi, 1 hp filter. Joe, 929-6387 after 6.

PACHYSANDRA - Good ground cover, 50 plants for \$5. Adams, Ext. 2540, 744-5448.

LAFAYETTE MODEL 750 - Mobile transceiver, 6 meter ham band, 12 volt transistorized. \$40. Al Campbell, Ext. 3354.

BICYCLE SEAT - Child's riding seat for adult bicycle, \$7. Ext. 2485.

GAS RANGE - Very old Roper; antique wood play pen w/wooden wheels. Ext. 2032, 286-3455.

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

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

CUTCHOGUE - 1 acre building lot, water view. \$14,500, must sell. G. Laird Stubbings, Ext. 4068, 298-5092.

RIDGE/LAKE PANAMOKA - 3 bedrm ranch, base-ment, sun deck, wooded lot. \$33,000. Ext. 4308, 727-9334.

CUSTOM CAPE - 6 min to Lab, shake shingles, garage, full basement, 5 rms & bath down, 2 1/2 rms up, partially finished, s/s, w/w, ac, central vacuum, 1/2 acre, fenced back. \$35,500. 924-8813.

EAST MORICHES - 150 yr old renovated school house, 3 bedrm, 1 1/2 baths, huge double lined cabinet kitchen, all appl, 1 acre, garage w/loft, walk to water. \$45,000. 878-4184.

SHIRLEY - Smith Rd, 3 bedrm ranch, 1 acre, w/w carpet, full basement, s/s, washer & dryer, swings, garage, barn shed, assumable mortgage. \$38,900. Completely landscaped. 281-1458.

SETAUKET - 4 bedrm, fireplace, skylight, brick patio, heavily wooded. 751-7416.

SHOREHAM - 3 bedrm colonial, den fireplace, w/w s/s, paneled living rm & dining, deeded beach rights. 744-7429.

ROCKY POINT - Pickwick colonial, 4 bedrm, 2 1/2 baths, w/w carpet, central air, deeded beach rights, 2-car garage, professional landscaped. Low 40's. 928-2954 after 6.

EAST PATCHOGUE - 10-rm Victorian colonial, 1 + acre, formal dining, fireplace, gazebo, beautiful trees & shrubs, full basement. 475-0168.

RIDGE - Levitt Strathmore duplex townhouse, 2 bedrm, 1 1/2 baths, 5 appl. Ext. 3541, 924-4070.

For Rent

SOUTHOLD - Waterfront vacation cottage, inlet off Peconic Bay, sleeps 5. Ext. 2633.

HAUPPAUGE - 1 bedrm garden apt, 25 min to Lab, 1 yr lease, \$250/month includes heat & gas stove, avail June. Steve, Ext. 4065, 234-7419 after 6.

BELLPORT VILLAGE - Furnished 3 bedrm, 200 yds from bay, 1 yr lease, avail July 1. Ext. 4122, 4132.

MEDFORD - 2 bedrm apt, all util incl. \$285/month. 924-7516/929-6442.

FURNISHED ROOM - Patchogue village, private home, suitable congenial mature woman. 475-2627 after 6.

PATCHOGUE - Furnished house for summer rental starting June 27. Ext. 4339, 475-4005.

RIDGE - Levitt Strathmore duplex townhouse, 2 bedrm, 1 1/2 baths, 5 appl. \$285. 924-4070, Ext. 3541.

BELLPORT VILLAGE - Studio apt, 2 large rms, private entrance, garage, util, 1 yr lease required, avail July 1. 286-8850.

BELLPORT VILLAGE - Spacious 2 bedrm apt, lower floor of duplex, priv entrance, garage, all util incl, 1 yr lease required, avail now. 286-8850.

Wanted

BIKE - 26" boy's, reasonable, good cond. Ext. 3316.

BABYSITTER - July 7, 8 & 9, day and eve, so scientist from Argonne can attend symposium. Ext. 3364.

BABYSITTER - For newborn infant, 8-5, prefer live-in, for Sept, salary + room & board, refs required. 473-8717 after 6.

PIANIST - To play for children's dance lessons, for info 473-2754.

26" REAR BICYCLE WHEEL - Coaster brake for middle weight bike. Bob, Ext. 4796/4452.

INFORMATION LIMERICK - Please phone. Ext. 3328.

2 BEDRM HOUSE TO RENT - Near Lab, young couple w/child, needed for June or July occupancy, leave message w/Ext. 2238 for Pauline.

HOME FOR KITTENS - 6 weeks old, long hair gray & black. M. Sacker, 298-4138.

TRAILER - For 15' boat, 500-750 lb capacity. Ext. 4122, 286-8512.

WOODEN LINCOLN LOGS - Any quantity. 286-8807.

FEMALE PERSON - To share house expenses for summer. Sharon Hoeffner, 878-2591.

Lost & Found

LOST - Wedding ring, white gold w/3 diamond chips. Ext. 3376, 281-1364.

Car Pools

CARPPOOLS - Need driver for existing carpool, Bohemia/Oakdale, Sayville area. Frank, Ext. 2311.

CORAM/STRATHMORE EAST - North of Pine Rd, will pay to ride or will share rides. Joe, Ext. 2063.

STONY BROOK - New employee desires carpool from Stony Brook, 1 block from intersection Christian & Blinker light. Share rides or ride only. Ed Kaplan, Ext. 2007.