

BULLETIN BOARD

Volume 20, Number 3

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January 13, 1966

BNL Short Subjects

Ski Club, January 20

The regular meeting of the Ski Club will be held on Thursday, January 20, at 5:15 p.m. at the Lake View Inn. However, for those going on the ski trip to Northern Vermont, a short meeting will be held on Thursday, January 13, at 5:10 in the Brookhaven Center.

Small Boat Classes at Southold High

Free classes in piloting and small boat handling will start in Southold High School on Monday, January 17, at 7:30 p.m. The course will run for twelve Monday nights and is free, courtesy of Peconic Bay Power Squadron. Everyone over the age of 16 is welcome.

Micromet Available

Micromet, chemical crystals designed to aid in the prevention of rusty water, is still available in a limited quantity. The crystals and a few feeders can be purchased at a substantial savings from Personnel Services, Recreation Office, 3 Center Street (open daily 9 a.m. to 1 p.m.).

Cooking Exchange Group Meeting

The Cooking Exchange Group will meet on January 20 from 3-5 p.m. at the Recreation Building in the Apartment Area. All Lab wives are cordially invited to attend. Baby sitting is available at a charge of \$.50 per mother.

Bulletin Board Readership Survey

Several weeks ago, a questionnaire was sent to the *Bulletin Board* readership polling their reactions to past stories and asking them what they liked or disliked about the publication. The 1186 questionnaire forms that were returned represent about a third of BNL's population, and it is presumed that in cases where the employee's family reads the *Bulletin Board*, their opinions are included.

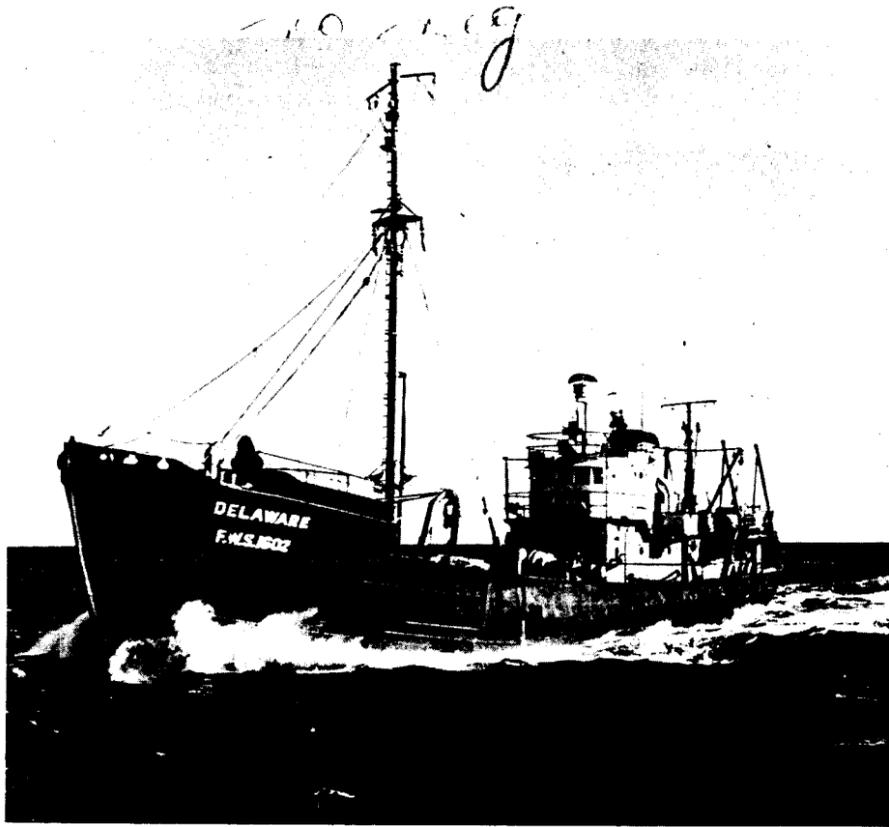
Questions asked on the survey form which do not appear on the table below are as follows. In answer to the question "Do you regularly take the *Bulletin Board* home?", 784 or 73 percent answered affirmatively; 294 or 27 percent replied negatively. "Letters to the Editor" received 81 percent of

the vote and is introduced as a new department in this issue. Ninety-two percent of those who answered the question indicated that they would like to see a Calendar of Events included as a regular feature. Arrangements are being made to develop this department, and it will be incorporated into the *Bulletin Board* format.

In answer to the question concerning delivery date: 2 percent of the respondents said they received the *Bulletin Board* on Wednesday morning; 44 percent said Wednesday afternoon; 26 percent said Thursday morning; 26 percent, Thursday afternoon; and 2 percent got their copies on Friday morning.

Category	No. answers	Interesting	Moderately interesting	Uninteresting
Lab news	1034	847 - 82%	140 - 13%	47 - 5%
Classified ads	1130	938 - 83	151 - 13	41 - 4
Arrivals & departures	1130	607 - 54	361 - 32	162 - 14
<i>Life</i> Review	1120	439 - 39	383 - 34	298 - 27
Class Problem	1123	191 - 17	214 - 19	718 - 64
<i>Life</i> Menu	1134	238 - 21	276 - 24	620 - 55
Reports on sports results	1156	439 - 38	386 - 33	331 - 29
Expanded coverage of				
BERA activities	1126	631 - 56	394 - 35	101 - 9
Technical stories in				
layman's language	1132	804 - 71	209 - 18	119 - 11

BNL Testing Gamma Device To Preserve Fish While Afloat



OUT O' GLOUCESTER—The Delaware, a research fishing vessel operated by the U.S. Fish and Wildlife Service, soon will have the world's first shipboard irradiator installed. The irradiator, designed here, is part of a research project to lengthen the storage time of fresh fish by low doses of radiation. Studies have shown that freshly caught fish, irradiated soon after they are caught, can have a refrigerated storage life 2 or 3 times longer than nonirradiated fish.

Gourmets of the Lucius Beebe genre who feel that seafood more than an hour out of the water is unfit for human consumption, and housewives in Kansas City whose only contact with seafood stems from a frozen mass out of the supermarket freezer can look to the results of a government-sponsored project to prolong the refrigerated shelf life of seafood by the use of irradiation.

The newest phase of the program in the continuing studies of food preservation by irradiation is the installation of a radiation source on board a fishing vessel. The unique irradiator, designed by the Radiation Division of the Lab's Nuclear Engineering Department, is scheduled to arrive today from the manufacturer. It will be tested and loaded with 30,000 curies of Cobalt-60 and delivered to the U.S. Department of Interior's Tech-

nological Laboratory at Gloucester, Massachusetts where it will be installed aboard The Delaware, a research fishing vessel operated by the Fish and Wildlife Service.

The AEC and other government agencies have studied food preservation by irradiation for several years. In 1964, irradiated shrimp, haddock, and flounder passed consumer feeding tests conducted by the Department of the Army at Fort Lee, Virginia after being stored three to four times as long as their normal refrigerated storage period. The Food and Drug Administration has approved bacon, wheat and wheat products, and potatoes, preserved by irradiation, as safe and fit for unlimited human consumption.

In the AEC project at Gloucester, fish irradiated with the new device See FRESH FISH page 2

Brookhaven Lecture Series

Nuclear Methods In Art And Archaeology

A pottery shard found in an ancient midden in Britain was found to have originated in the Near East and caused archaeologists to reevaluate their speculations on the extent of Phoenician commerce. In the treasury of San Lorenzo, in Italy, a vessel brought back by the Crusaders was thought to be either the Holy Grail or the Basin used by Christ to wash the feet of the



Dr. E. V. Sayre

Disciples during the Last Supper until analysis of the composition of the bowl showed that this would have been impossible. The facts were determined by a hypersensitive method of analysis - neutron activation.

In the forthcoming Brookhaven Lecture on January 19, Dr. Edward V. Sayre of the Chemistry Department will discuss his work done in the

realm of the fine arts and archaeology. To support his lecture, "Nuclear Methods in Art and Archaeology," Dr. Sayre will show slides.

The investigations of fine art and archaeological objects which Dr. Sayre has carried out concurrently with researches in solid state spectrography have been concerned to a great extent with the development of new non-destructive methods for determining the structure and composition of works of art.

In oil paintings, the nature and distribution of various pigments throughout the painting have been determined by neutron activation radioautography. Many details of how an artist "constructed" his painting are shown by a series of contrastingly different radioautographs that can be revealed by this type of investigation. Activation radioautography also has been used to reconstruct some of Fox-Tolbot's first photographic positive prints which are now badly faded. The radioautograph shows the details originally possessed by the print without materially altering its present condition.

The lecture will be given on January 19, 8:00 p.m. in the Lecture Hall. A buffet supper (\$3.00) will be served at the Brookhaven Center before the lecture, beginning at 6:00 p.m. Reservations should be made at least one day in advance by calling Ext. 2302 before 5:00 p.m. or Ext. 2453 in the evening.

Arrivals & Departures

Arrivals

Malcolm H. Slade, Accelerator . . . Janet E. Gibbons, Applied Math . . . Marcello C. Buiatti, Biology . . . Yoshihiko Hirono, Biology . . . Joseph C. Roecklein, Chemistry . . . Joseph A. Gallo, Medical . . . James H. Bell, Plant Maintenance . . . Clarence A. Hicks, Plant Maintenance . . . Arthur E. Nelsen, Plant Maintenance . . . Nicholas S. Masciopinto

Departures

Rita Frederick, Applied Math . . . James F. Carlon, Fiscal.

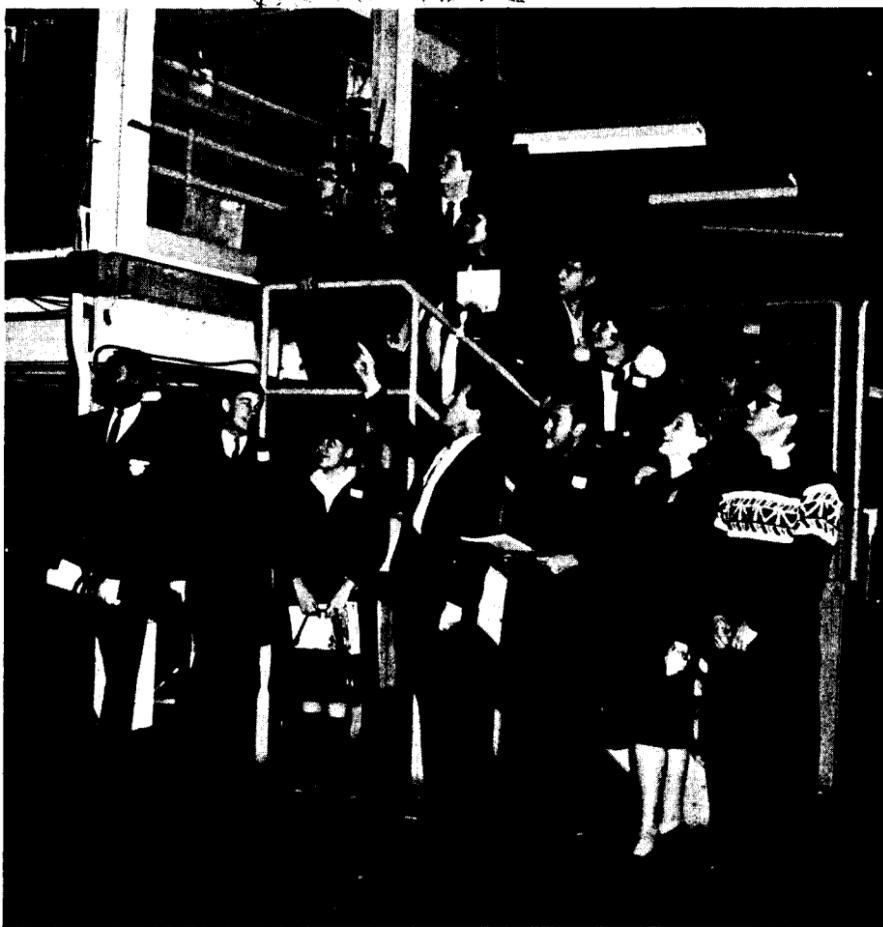
Work Starts on Extension of William Floyd to 25A

Heavy equipment is at work at the intersection of the William Floyd Parkway and Route 25 to construct a grade crossing elimination.

The project is part of a program to extend the Parkway north to connect with Route 25A.

AEC Kills Breeder Reactor Permit

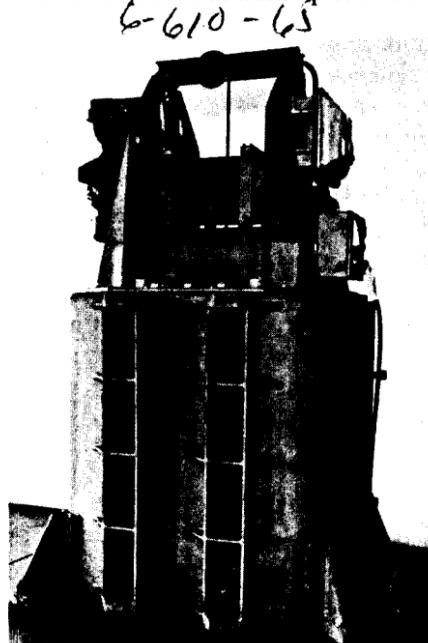
A special panel of the AEC has cancelled a permit to build a fast breeder reactor near Fayetteville, Arkansas because a West German organization was putting up part of the funds. The Commission said that the proposed reactor would be "subject to alien control," a situation barred by statute.



Dan Schaeffer of the Information Division explains the workings of the Graphite Reactor to a group of 14 students from schools in Mexico. The students, currently the guests of Southampton College, are in the United States for a two-month tour under the auspices of The Experiment in International Living.

Fresh Fish . . .

immediately after they are caught are expected to have 90 to 99 per cent of their spoilage bacteria destroyed. The process, a form of pasturizing, should keep the fish fresh up to two or



WORLD'S FIRST shipboard irradiator

three weeks after their exposure to gamma rays from the Cobalt-60 source. The shipboard device is approximately 7 feet high, 4 feet wide and 4 feet long, and weighs 17 tons.

Alien Address Reports Due in January

The Immigration and Nationality Act requires that aliens in the United States on January 1, each year, report their address during the month of January. This report is required even though the alien has not changed his address since the last report. This law does not apply to aliens here in diplomatic status nor to those who are accredited to the United Nations. The parent or legal guardian of alien children under fourteen years of age must submit an address report for them. Any alien who is temporarily absent from the United States on January 1, must report his address within ten days after his return.

Persons registering may go to any United States Post Office or any Immigration and Naturalization Service Office and ask for the Address Report Card, Form I-53. When the card is filled out, it may be turned in to any Post Office or Immigration and Naturalization Office. It may not be mailed. The alien must hand in the Address Report Card during the month of January each year.

An alien required to report his address who inexcusably fails to report is liable to be taken into custody and deported.

Letters To the Editor

With this issue of the **Bulletin Board**, a new feature – a “letters” column – starts. It is hoped that it will provide the members of the Lab with a means of communication with the editorial staff, and with the **Bulletin Board** readers in general. All letters submitted for publication must have the name, signature, and Lab extension of the sender and must conform to obvious standards of good taste. If requested, letters will be printed anonymously or with a pseudonym. Only those letters considered appropriate and suitable will be selected for publication. Letters should be sent to: Editor, **Bulletin Board**, 40 Brookhaven Avenue.

To the Bulletin Board

Many employees are in car pools. By and large, these are friendly arrangements and no money changes hands.

What happens in an accident? May the car-pool riders sue the car-pool driver for injuries sustained? If so, is there any special insurance available to the car-pool driver?

Roger Baldwin
Applied Math

19th Century Traditional Sparks BERA Art Exhibit



This painting, “Boy Playing A Jew’s Harp” by David Gilmour Blythe, is an example of the Nineteenth Century Traditional art that will be on exhibit in the Lecture Hall starting Friday, January 21. The BERA Art Committee has arranged with the Kennedy Galleries, Inc. of New York City for a showing.

Ed Note – A survey of negligence lawyers and insurance brokers produces the following:

The car-pool rider is considered a passenger and so may sue the driver just as any other passenger may do. He must prove negligence on the part of the driver in court in order to collect damages. Usually policies issued in New York State have provisions for passengers, and, therefore, the car-pool driver needs no additional insurance. In the case of a paying rider, the situation is the same as for a passenger as long as the fee paid by the passenger is nominal enough to be considered as a contribution to expenses. As one representative for a large insurance company put it: “As long as he (the car-pool driver) is not in the livery business or he is not giving rides solely for profit, he is covered by his standard policy.”

To My Friends at BNL:

As December 1965 unfolds I find myself remembering December 1964 when my friends surprised and delighted me with that wonderful luncheon and my glamorous “retirement watch.” It has brought you all to my thoughts many times.

1965 has been filled with new experiences and required adjustments; all have been interesting, some delightful – notably Greece. All in all, it has been a good year, and I hope you all can say the same.

Thank you again and accept my best wishes for the Holidays and the New Year.

Edith M. Webster
Retired 12/31/64

COMING

Valentine Dance
Sponsored by BERA
For all Employees
Friday February 11

Post Office Raises Fees

The Post Office Department said it will raise the fees charged for money orders, insurance, registry, certified mail and COD, effective March 26.

Six Million Persons Viewed AEC Exhibits During 1965

Nearly six million persons viewed domestic exhibits of the U.S. Atomic Energy Commission during 1965 – the biggest year in the Commission’s continuing program aimed at public understanding of the atom.

And That’s No Fish Story



Top fishermen are given their awards as the BERA Fishing Contest drew to a close. George Sabine (right) congratulates John McCafferty, Nuclear Engineering Department, for McCafferty’s capture of the Fisherman of the Year Award. McCafferty took top honors with a two-pound White Perch, a four-and-a-quarter pound Large Mouth Bass, a five-and-a-half pound Blackfish, and a twelve pound Bluefish.

Pete Hlavac (extreme left), Nuclear Engineering, led the Surf Casting Division with a thirteen-pound Blue, and John Pontieri (second from left), Nuclear Engineering, took the Fresh Water Division trophy with a Brook Trout weighing one pound, seven ounces. Carl Cantera, Mechanical Engineering Division (not shown) had top honors in the Boat Fishing (Trolling) Division with a thirteen-and-a-half pound Bluefish.

Cafeteria Menu

Monday (Jan. 17)

Entrees	
Roast L.I. Duck, Dressing, Orange Sauce.....	.65
Beef Burgundy, Noodles.....	.65
Ham Loaf, Cranberry Sauce.....	.65
Hot Special	
Hot Turkey Sandwich, French Fries, Cranberry Sauce.....	.70
Special Sandwich	
Genoa Salami & Provolone on French Bread, Tossed Greens.....	.65

Tuesday (Jan. 18)

Entrees	
Broiled Chopped Steak Au jus	.65
Turkey Tetrazzini65
French Toast, Bacon, Syrup.....	.50
Hot Special	
Meatball Hero, Tomato Sauce..	.60
Special Sandwich	
Baked Ham on Rye, Sliced Beets, Sweet Pickle.....	.65

Wednesday (Jan. 19)

Entrees	
Irish Stew, Vegetables.....	.65

Baked Lasagna, Meat Sauce.....	.65
Western Omelette50
Hot Special	
Cheeseburger, Potato Chips, Cole Slaw.....	.55
Special Sandwich	
Roast Beef on a Roll, Cole Slaw, Pickle.....	.65

Thursday (Jan. 20)

Entrees	
Special Juice	
Steamboat Roast	
Mashed Potatoes	Green Peas
Tossed Salad	
Bread & Butter	Beverage
pudding or Jello	
	\$.99
Chicken Chow Mein, Crisp Noodles.....	.65

Friday (Jan. 21)

Entrees	
Shrimp Creole, Buttered Rice....	.65
Roast Beef Hash.....	.65
Franks & Sauerkraut.....	.65
Macaroni & Cheese.....	.50
Hot Special	
Grilled Cheese & Tomato, French Fries, Cole Slaw.....	.60
Special Sandwich	
Crabmeat on a Roll, Cole Slaw, Sweet Pickle.....	.65

Classified Advertisements

Autos, Auto Supplies

1961 VOLKSWAGEN - White, sedan, South Wind gas instant heater, snow tires, push button all transistor radio, good cond inside and out. Must sell because family too large. Asking \$600. HR2-1392 after 5:30.

1961 OLDSMOBILE - F-85, white, 40,000 mi, auto trans, ps, w/w, r/h, air conditioning. Leaving Lab. GR5-2337.

1960 RAMBLER - 6 cyl sedan, std trans, r/h, body and mech good, 58,000 mi. \$350. P. Garvey, Ext 7118.

1955 JEEP - Pickup, 4 wheel drive, 6 cyl, 5 good snow tires, recent valve job, needs front rear end. Also, 1949 Jeep chassis, 4 wheel drive consisting of both rear ends, transmission & transfer case, drive shafts & wheels, to fit 1955 Jeep. Complete package \$350. 281-5759 or Ext 2304.

1961 MERCURY - 2 dr, V8, auto trans, needs some work. \$250. Jake, Ext 2211.

1961 FORD - Convertible, std trans, overdrive, 390 V8 engine, good cond. \$650. Ext 2304 or 281-3616.

1958 OLDSMOBILE - 88, 4 dr sedan, tires like new, car in mint cond, 45,000 orig mi. Must be seen. \$375. Ex- 2921.

NEW BATTERY - 12 volt autolite. \$22. Oji, Ext 2920.

1963 FORD - Fairlane 500, white w/red vinyl upholstery, 2 dr sedan, V8, auto trans, excel cond. \$1095. Glen, Ext 610 or JU1-3008 after 6 pm.

1958 OLDSMOBILE - 88, 4 dr, dented rear fender, otherwise good cond, tires good. \$125 or best offer. YA4-6587.

1956 BUICK - 4 dr, hardtop, body and mech good, great for a work car. \$100. Kevin, Ext 2921.

WHEELS - Ford, 14", \$3 each. Stewart Warner Tack w/sending unit, \$15. Dave, Ext 2304 or 281-3616.

1960 CHRYSLER - New Yorker, 4 dr, hardtop, full power. Must sell before new car is delivered. Price just above wholesale book value. Ext. 591 or AT6-8816.

1957 PLYMOUTH - 4 dr, 6 cyl, auto trans, r/h, excel shape, 2 tone gold & white, good tires. Best offer ove: \$175. Ext. 7139 or 878-1955.

1958 CHEVROLET - 2 dr Sport Coupe Impala, 348 cu in, V8, ps, r/h, 2 new snow tires, 2 new regular tires, great shape. Best offer. Ext 7139 or 878-1955.

1955 THUNDERBIRD - 292 hp, std trans, 3 speed w/overdrive, light grey, white interior, new paint, new tires. Best offer. Ext 7139 or 878-1955.

1964 VOLKSWAGEN - 22,000 mi, excel cond, green. \$1150. Ext 2138.

1962 OLDSMOBILE - Starfire, blue, 8 cyl, auto trans, full power inc windows, bucket seats, console, excel cond. AT6-8472.

1962 BUICK - Electra, convertible, 35,000 mi, 6 new tires, new brakes & muffler. All power. Ext 423.

TIRES - Two 6.50x13, used only 10,000 mi. L. Padwa, Ext 2441.

1960 GERMAN FORD - Taunus, 17M Delux, 4 dr black sedan, r/h, 28 mpg. \$325. K. Gedicks Ext 2485 or MO6-7284.

1956 FORD - 6 cyl, 2 dr, overdrive, one owner since new, excel mech cond. Must be seen and tried to be appreciated. \$150. Ext 2138.

1950 OLDSMOBILE - Auto trans, mech good cond, tires good, body fair. Best offer, Bill. Ext 620.

1961 CHEVROLET - Impala, 8 cyl, 4 dr sedan, white w/red interior, 36,000 mi, one owner, auto trans, r/h, very good cond. GR5-1584.

Houses

HOUSE - In West Islip, 3 bedrm split level, excel location, 75x150 fenced plot, covered patio, trees, 10 min to ocean, convenient to all stores, schools, railroad. \$16,500. Ext 2811.

HOUSE - Port Jefferson, 3 bedrm, split level, large family rm, 1 1/2 baths, laundry rm, covered patio, garage, basement, landscaped lot, almost 1/2 acre, desirable area. HR3-1620.

HOUSE - Port Jefferson, Harbor Hills, split level, 3 bedrms, 2 1/2 baths, lg playrm, partly finished basement, 1/3 acre wooded in rear, private beach rights. H. Katz, Ext 696 or HR3-1455.

Miscellaneous

BABY ITEMS - Handsome "Atlas" baby coach, \$35; Thayer playpen, \$10; extra large bassinet, \$8. All in excel cond. HR3-2879 after 5 pm.

BEDROOM SUITE - Blonde veneer, 6 drawer chest w/mirror, 5 drawer chest, night stand, bookcase bed. Excel cond. \$70. B. Baker, Ext 616 or 281-8024.

TELEVISIONS - 23" G.E. 1964, excel cond, \$80; 21" RCA 1955, table model still plays, \$25; 9" GE portable 1958, still plays, \$25. Frank, Ext 2430.

ANTIQU TRUNKS - Camel back, foot lockers, steamer trunks. Partially reconditioned. \$10 each. B. Baker, Ext 616 or 281-8024.

STORM WINDOWS - Aluminum triple track, 2 windows & 1 screen per frame, (4) 31"x63", (5) 28"x56", (9) 31"x55". \$10 per window. Micky, Ext 2334.

DEER HEAD - Have you been a frustrated deer hunter for years. Now is your chance to pur-

chase a deer head for your fireplace or in your den. Tom, Ext 2877 or SH4-8085.

REFRIGERATOR - Coldspot, 11 cu ft, excel cond. \$45. S.H. Cohn, Ext 2891 or AN5-0501.

MISCELLANEOUS - 8 cycle, Westinghouse laundromat and Hotpoint dryer, \$75 each (available Jan 20); couch, \$55; baby chifferobe, \$20; Heathkit amplifier, \$9.50; floor lamp, \$13.50; Zenith table radio, \$5.50; misc housewares and toys. GR5-2337.

VALENTINE'S GIFT - To the lady of your choice, 2 theater tickets for Monday evening, 2/14/66, for "Hello, Dolly" with lovely Ginger Rogers. Excel seats in front mezzanine, E-103 and E-104. Orig cost of each, \$6.90. Will go to the Romeo who makes the highest bid for his gal. Ext 2903.

CAMERA EQUIPMENT - Argus 35mm slide projector w/Aeroquipt changer, both excel cond, \$30; Waltz Flash Master folding flash gun, \$5. Sadofsky, Ext. 2709.

GE FLOOR POLISHER - Used twice, like new. \$22. Sadofsky, Ext 2709.

DISC SANDER - 9" high speed "Sioux," very good cond. \$60. Bill, Ext 620.

BRUNNING DRAFTING MACHINE - Very good cond. Best offer. Bill, Ext 620.

BICYCLE - 1962 Schwinn, boy's 24", good cond. \$15. Silkworth, Ext 611 or HR3-1578 evenings.

FISH TANK - To highest bidder, 10 gal fish tank complete with 7 fish, food, filter, light, heater and extra supplies. C. Hull, Ext 2916 or SH4-5969.

ICE SKATES - Canadian Rocket outfit, men's size 9 w/rubber sheath, used for only one hour. \$10 or best offer. Jeeva, Ext 2427 or 281-5178.

MISCELLANEOUS - Tire chains, \$5; assorted LP and Stereo records; two HiFi amplifiers, 15 and 20 watts, \$25 and \$30 respectively; 12" portable TV, \$50; new Gorham Melrose silverware, setting for four, 20% off list price; speakers, Acoustic Research Model 2AX (\$85) and Model 4 (\$42.50) both walnut; Dyna Mono pre-amplifier, \$40; assorted speakers, wide ranges, woofer, tweeters. P. Lieberman, Ext 7732.

STROLLER - War, Ext 7161.

FURNITURE - Dressers, 2, 1 baby dresser and 1 other regular, \$20 ea; baby tenda, adjustable legs, good cond, \$10. Jake, Ext 2211.

For Rent

APARTMENT - Front half of house, 4 rms on first & second floors, heat and hot water, in South Haven, 7 mi from Lab. \$95 per mo. AT6-2266 before 10 p.m.

HOUSE - Blue Point, for sale or lease, completely remodeled & redecorated, 7 rms, 1 1/2

baths, 2 car garage, large plot, low taxes. EM3-6673 after 4:30.

APARTMENT - 3 rms, bath, ideal for couple. \$85 per mo, inc utilities. YA4-6325.

APARTMENT - 5 spacious rms, modern kitchen, bath. Only 10 min from Lab. YA4-6118 after 3 pm.

HOUSE - Rocky Point, furnished 5 rm stone house, fireplace, oil heat, near beach. \$110 per mo. SH4-5282 after 7.

Wanted

HOUSE - On Sound, within walking distance of beach, 3 bedrms. Ext 301-45.

REFRIGERATOR - Recent model, no more than 5 years old, will make a reasonable offer. J. Conant, Ext 2741 or AT6-2266.

GARAGE - For storing small sport car for 2 to 3 mo. Hellstrand, Ext 2741.

House - Furnished, 2 or more bedrms, in a nearby village, from February or at latest from April to November with the possibility of six more mo, to be decided next July. Menzinger, Ext 7611 or 534 after 5.

BABY SITTING JOBS - Mother will take care of a child in own home, Patchogue Village. GR5-9319.

ROOMMATE - To share furnished 6 rm house on South Shore, completely equipped and cleaning service provided, reasonable cost. Bob, 281-7560 evenings.

HOME - For an adorable 5 mo old German Shepherd puppy. Scottie, Ext 7609.

Carpools

DRIVER - Wishes to form or join carpool from the Tides area in Rocky Point. C. Pumo, Ext 7692.

DRIVING/PAYING RIDER - Wishes to join or form carpool from Shirley. B. Baker, Ext 616.

DRIVER - RIDER - Wishes to join prompt carpool from vicinity of Oak St., Patchogue. E. Rowland, Ext 330

DRIVER - To complete existing carpool from Blue Point-Bayport area. Betty, Ext 2114.

Lost & Found

FOUND

KEYS - 2 "Asco", behind Bldg. 459.

GLOVES - Brown leather, outside cashier's window.

PRESCRIPTION - Outside cashier's window.

RAINCOAT - Man's, tan, Physics.