

FOR SALE

LIGHTNING SAILBOAT - #7187. Used one season. Completely fibre-glassed hull and deck. Dacron sails, stainless rigging. Moored in Setauket harbor. Price \$1500 firm. Ext. 491

DX 100 - Complete. \$160. AM-FM tuner (approved), pre-amplifier (Heath), 50 watt amplifier (KT 66-Dynaco transformer), 15 inch speaker (Lansing D-130) with tweeter, \$75. Call Nils Segerdahl, Ext. 311.

USED FURNITURE SALE - Odds and ends. Tables, chairs, beds, lamps, kitchen ware, rugs, refrigerators, ice box, books, free rowboat. Oct. 10 and 11, 10-6 p.m. 22 Bellport Lane, Bellport.

SNIPE SAILBOAT - 15½ ft. sailboat, suit of sails, does not leak. \$395. Call Jean Campbell at Bayport 8-3832 during day and Ext. 439 after 1600 until 2400.

STATION WAGON - 1953 6 cylinder Dodge 58,000 miles. Excellent condition throughout. \$350. GRover 5-8392.

PLYMOUTH SAVOY - going abroad. Have to sell excellent car. Powerflite, radio, heater. Asking \$950. Ledoux, Ext. 301.

HI FI - Grundig Majestic table model radio. AM-FM, shortwave, wood cabinet, excellent condition. \$50. Call Yaphank 4-3783 after 5, or Ext. 2398.

PLAYPEN - also small crib and feeding table. Call Ext 2125 or Stony Brook 7-1209.

MINOLTA CAMERA - 2¼ in. by 2¼ in. New condition, with filters and flash gun. Also set of Ascor speed lights. Model 90E. With stands and case. Ask for Ken at Ext. 2229.

MAPLE SOFA - 3 seat cushions, 3 back cushions. Upholstered in two-tone green. \$35. Also maple chair, upholstered in light green. \$15. Both in very good condition. R.M. Brown, Bellport 7-1214W.

POODLES - Registered standard French Poodles. Males \$65, females, \$55. Call SElden 2-5288.

CHRYSLER - 1951 New Yorker, fair condition, good transportation. Asking \$150 or best offer. Call Ext. 2382 after 4:45 or Park 7-0053. W.M. Bliss.

BABY CARRIAGE - Atlas Deluxe. Collapsible, perfect condition. Original price \$90. Asking \$25. Call Ext. 2222, O. Schneider.

TUNER - Scott model 310 FM tuner and Marantz preamplifier. Call J. Constant, Ext. 2373 or 618.

WATER HEATER - Electric hot water heater. 30 gallons, square top. \$15. Call Atlantic 1-9504, Mignone.

18 FT. MAHOGANY BOAT HULL - Suitable outboard or inboard. Needs work. \$150. Call Atlantic 4-8456.

RANCH HOUSE - For sale or rent. 1 yr. old. Close to schools and stores in village of Bellport. Cathedral ceilings, large living room with 2-way fireplace. Playroom 14 ft. by 28 ft. All-electric kitchen, two bedrooms, large dining-

room (can be converted to 3rd bedroom). 2 baths, full basement, hot water heat. Large picture windows throughout house. Plot 75 by 143 ft. Call Atlantic 6-8493.

JUNIOR DINING ROOM SET - Table and 4 chairs with 2 extra leaves. China closet with glass doors. Blonde oak. Ext. 2222.

BOAT - 28 ft Seahright Skiff, repowered 1955 145-hp Nordberg, electric head, automatic bilge pump, large flush cockpit, foam rubber mattresses, large icebox, galley, pulpit, etc. Veritable sea boat. Asking \$3700. Call BELLport 7-0508 or Ext. 592.

PORTABLE SEWING MACHINE - Westinghouse, electric, like new, four years old. \$35. Call E. Miller, Ext. 2347.

DUCK BOAT - 11 ft., oarlocks and assorted decoys. 4 hp Scott Atwater with shift. \$150 or will trade for 16 ft. boat trailer. W. Berg, Ext. 593.

FREE SKIS - Will give away 6 ft. 9 in. pair of skis. Poles and bindings. Fair condition. Call H. Brown, Ext. 790.

WANTED

Anyone interested in madrigal singing or recorder playing please get in touch with Steve Yamamoto, Ext. 2336.

Woman to baby sit occasionally on weekends. Call Ext. 536.

Old style piano stools. Call Lloyd, Ext. 2196.

the Bulletin Board

VOLUME 13 - NUMBER 9

Published by BNL Personnel Office

OCTOBER 7, 1959

BERA ART EXHIBIT

The first Art Exhibit to be sponsored by BERA will be held in the Research Staff Lounge, November 12 through 17. This will be a show of paintings by Balcomb Greene and constructions by the late Gertrude Greene.

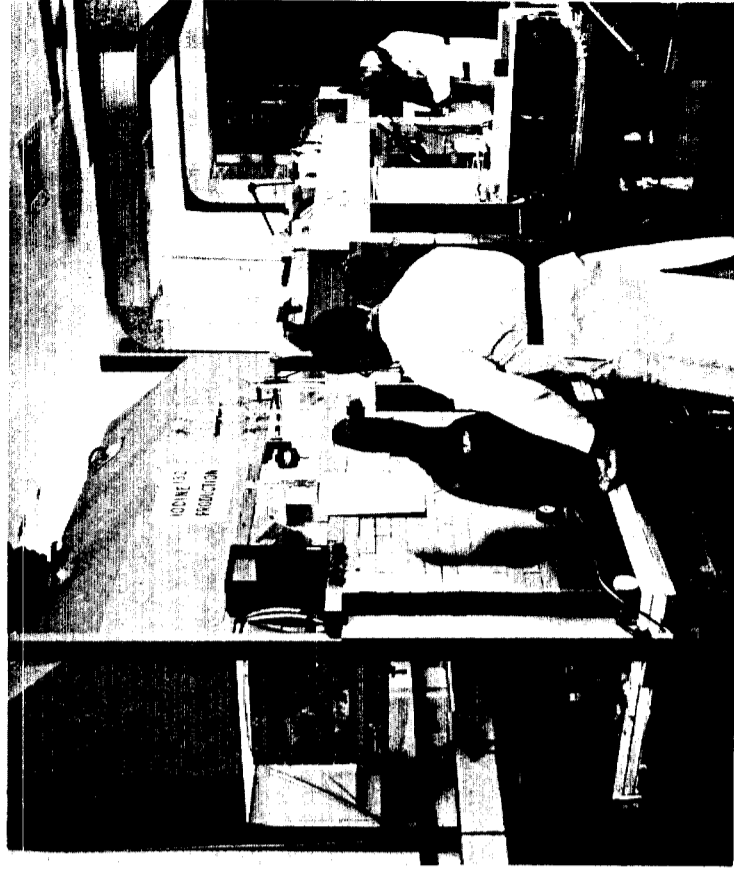
A contemporary artist, Mr. Greene is self-taught. His interests have been extremely broad, they include teaching English Literature at Dartmouth, and, more recently, teaching philosophy at the University of Pittsburgh.

Balcomb Greene is recognized as one of the outstanding contemporary American Artists. Art News Magazine listed his one-man show in 1958 as one of the ten best shows of the year. His work is represented, among other places, in the Museum of Modern Art, the Whitney Non-Objective Arts and the Whitney Museum. Starting October 5, the Bertha Schaefer Gallery in New York City is holding a one-man show of Balcomb Greene's work entitled "Twenty Years of Painting". He has also been invited to exhibit later this year in Paris and Munich.

Mr. Greene is a Long Islander; he lives and works at Montauk.

VISITORS' DAY, OCTOBER 31

On July 27, Dr. Haworth sent a memorandum to all employees inviting them, their families and friends to attend the annual Visitors' Day on Saturday, October 31. Since admission is by ticket only, those employees who have not yet requested their tickets are reminded to do so at once. Already, requests from the general public are being refused, due to the heavy demand and the necessary limitation of attendance. Requests from staff members should be addressed to Mrs. M. Kuper, Building 460. The only admission periods for which tickets are still available are the two afternoon sessions: 1:00 p.m. - 3:30 p.m. and 3:00 p.m. - 5:30 p.m.

ISOTOPE PRODUCTION AT BNL

One of the few self-supporting operations at Brookhaven is the radioisotope production work of the Hot Laboratory Division. The unique combination of access to the nuclear reactor, facilities for handling large amounts of highly radioactive materials, and the combined "know-how" of remote-control operation and radiochemistry made it natural for the Hot Lab to supply various radioisotopes that are in demand for scientific and industrial research, and which for some reason, are not available from other sources. Over the years, processes have been developed for the routine production of several of these, including iodine-132, iodine-133, fluorine-18, magnesium-28, technetium-99m, and yttrium-90. Each of these has its own importance, primarily in the fields of biological and medical research. In each case Brookhaven is this country's only source of supply of the radioisotope in the desired form. Several of the processes developed here have been adopted by the isotope production laboratories of other countries around the world. In addition to the radioisotopes that are produced routinely, many special jobs are undertaken, and work is going on continually in the development of methods for production of other isotopes that are needed but are not available or are not available in the required form, or purity, or specific activity, or are too expensive, etc.

The work of the Hot Lab Division should not be confused with that of the Reactor Division, which performs service irradiations of samples that are supplied by a customer and require no processing. The radioisotopes pro-

(continued on next page)

ISOTOPE PRODUCTION (continued)

duced at the Hot Lab require considerable handling and processing before they are ready to be shipped to the user. For example, iodine-132 production requires the use of a hot cell, the shielding of which consists of three feet of concrete, and which is operated through a one-foot thick steel face. The equipment and operations are viewed through periscopes.

This particular process starts with uranium that has been irradiated in the nuclear reactor. It is removed from the reactor directly into a heavy lead shield. In this shield the uranium, which is "hot" from the fission products that were formed by neutron irradiation, is carried to the Hot Lab and loaded directly into the hot cell. A specially designed trap door on the shield accomplishes this without exposure of personnel to the intense beta and gamma radiation that is being emitted by the fission products. After the uranium is dissolved, one of the fission products, tellurium-132, is separated "carrier-free" by radiochemical methods. A predetermined amount of the tellurium-132, usually 10 millicuries, is placed in a device, known as a "generator", and is shipped to the customer. Tellurium-132 decays into the desired iodine-132 with a half-life of 3.2 days. The customer obtains the iodine-132 periodically by pouring a dilute ammonia solution through the generator. The iodine-132, once it has been separated from its parent tellurium-132, decays with a half-life of 2.3 hours. It is used in the diagnosis of thyroid function in patients, and related experimental work. Different facilities and procedures are used for each of the other radioisotopes produced.

In the past year, 242 shipments of processed isotopes were sent to 41 hospitals, universities, and industrial laboratories from the Brookhaven Hot Laboratory.

BIOENERGETICS SYMPOSIUM, OCTOBER 12 - 16

A Symposium on Bioenergetics, sponsored by the AEC's Division of Biology and Medicine, will be held at Brookhaven from October 12 to 16. The program of papers is designed to treat with the processes which determine the disposition of energy packets within biological materials; these processes can be considered in terms of absorption, stabilization, transfer, and utilization.

It is anticipated that approximately 140 visitors, including some from overseas, in addition to a number of Brookhaven scientists, will attend the symposium. All the formal sessions will be held in the Lecture Hall.

BERA DANCE? WE NEED YOUR HELP!

Last week's call to all employees to stand up and volunteer for the committee to organize and run the BERA fall dance brought only a scattered response. We still need many more hands to make our dance a reality.

BNL SAFETY RECORD



46 Days Since Last Disabling Injury (Aug. 20, 1959 - Oct. 4, 1959)

LADY KEGLERS COLUMN:

The BNL Ladies League started the 59-60 bowling season Wednesday night. Although we are sorry to report that we have lost two of our old teams, we have acquired two brand new ones, and would like to take this opportunity to welcome the Strugglers and Sam's Gals into our League. Glad to have you with us, gals.

The season got off to a slow start - scorewise - which proves we all need practice after a hot, lazy summer. Of course we expect bigger and better things as time goes on. Therefore, due to circumstances beyond our control, we have no fantastic split shots to report, no 200 games (or even high scores), no nothing (and with that double negative we will close until next week). By all means, don't give up reading the column, we have every confidence that the "pro" bowling will be coming along shortly.

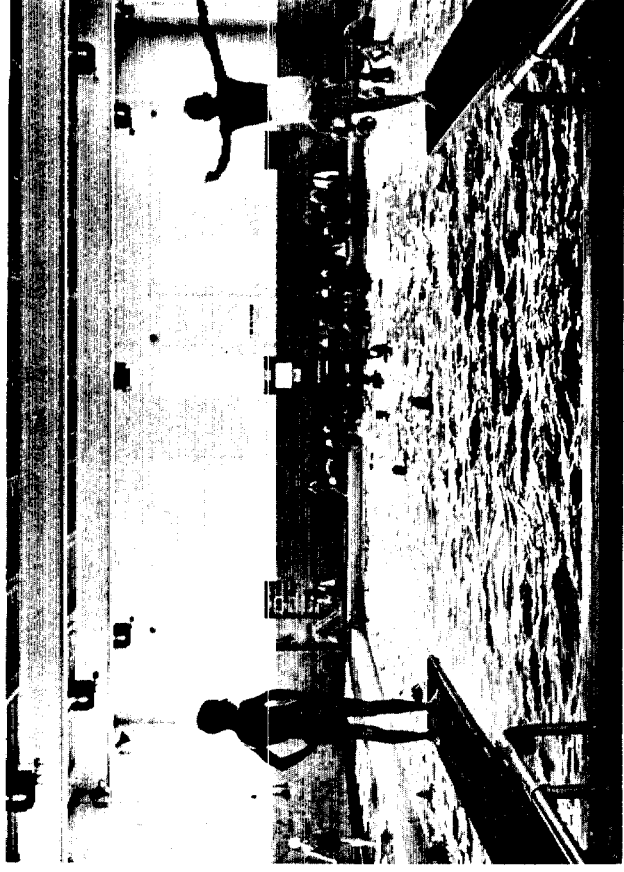
RECREATION BUILDING

Any weekday from 5 p.m. to 11 p.m. you will find the Recreation Building on York Lane in the Apartment Area open for your convenience and recreational activities. A B.E.R.A. attendant is on hand at all times to assist and acquaint you with the building's services. The main floor is equipped with a hall and music for dancing. A lounge offers comfortable chairs for reading, card playing, chess, etc. A piano is available. A fully equipped kitchen can be utilized for your barbecues and department parties. Liquid refreshments are on hand each evening. Outside you will find picnic tables and charcoal grills. The second floor houses our Ceramic Group, Camera, Rifle-Pistol and Model Railroad Club. Stop by and look the place over. Reservations are accepted for department or group parties.

REMINDER TO VEHICLE DRIVERS

141 staff members hold Federal licenses which expired on September 30th. Please check your license. If it has expired, apply to the Security Office for a renewal if you need to drive a Government vehicle.

SWIMMING POOL OPENS OCTOBER 7



After its face lifting and rest, the swimming pool is now ready for the winter season. The pool will open Wednesday, October 7 (not October 1 as was erroneously reported in last week's BULLETIN BOARD).

The following schedule of hours and rates will be in effect.

TUESDAY, WEDNESDAY, AND FRIDAY
7 P.M. TO 10:00 P.M.
THURSDAY - *5 P.M. TO 10 P.M.

*The pool will be open on a trial basis at 5 p.m. on Thursdays to accommodate employees wishing to enjoy a swim right after work.

Daily Rates

Employee or family member35¢
Guest of employee60¢

Season Rates

Employee or family member \$5.00
Family ticket \$10.00
Daily and season tickets may be purchased at the Pool Office.

COME OUT AND ENJOY THE POOL!

LOST AND FOUND

FOUND - Photo negatives found outside ADD building. Call Ext. 603.

FOR RENT

HOUSE - Located in Patchogue Shores, East Patchogue. 3 bedrooms, large living room with fireplace, dining room. Closed porch, attached garage. One block from private pool and marina. Please call GRover 5-9030.

WATCH FOR

ART EXHIBIT
SQUARE DANCE
BERA FALL DANCE
SWIMMING POOL OPENING

CALENDAR DATES

CONCERTS:

- Nov. 2 Quartetto Carmirelli
- Dec. 1 New Art Wind Quartet
- Feb. 25 Albeneri Trio
- Mar. 23 Duo Di Roma
- Apr. 26 Paul Doktor - Rafael Puyana

CLASSIFIED ADS

CAR POOLS

Drivers wanted from vicinity of Old Bethpage and Plainview. Or two drivers will join your pool. Call Eleanor Tingen, Ext. 360.

Wanted - join or form carpool from Bay Shore. Call Rod, Ext. 604.

Wanted - ride from Merrick or vicinity. Call J. Rothmann, Ext. 2286.

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