

SHOP YOUR CLASSIFIED ADS

FOR SALE

ELECTRIC HOT WATER HEATER - 40 gal. Rheem. Call Ext. 2452.

HOT WATER HEATER - Sears Roebuck, Homart 50 gal. Glass lined. Volts 236 AC only. \$40 or best offer. Call Ext. 577 or Shoreham 4-2029 after 6 p.m.

KELVINATOR REFRIGERATOR - 11 cu. ft. Frigidaire automatic washing machine. Maytag gas range. Asking \$75 each. Call Atlantic 4-8325 after 5:30.

1953 MERCURY - in good running condition. Want to sell right away. Call Atlantic 4-0672.

HALLICRAFTERS SX-71 - in good condition. All ham bands plus broadcast. \$125. Hohner 120 bass accordion, three shifts on treble and single and double bass, \$165. Radio, BC-314-G. Covers from 260KC to 1500KC. Will include AC power supply. Good working condition. \$15. Call Ext. 548 or RONkonkoma 9-9680 after 6.

FOR ADOPTION - beautiful Siamese cat. Family had to choose between new born baby and cat and has sadly decided cat must go. 2½ yr. old spayed female. Applicants will be carefully screened.. Call Ext. 436.

HEALTHWAYS SCUBA - with 70 cu. ft. tank. Excellent condition. \$70. Call Yaphank 4-3783 after 5 p.m.

BOXER-SHEPHERD PUPPIES - 6 wks. old, lively, charming. \$5 each. Ext. 2141.

BARGAINS - once in a lifetime opportunity to fill up your garage with junk. 17 inch TV - works on and off, \$20. 6 volt Ford radio and speaker, \$10. 10 ft. row-boat - minimum flotation, \$1 per foot. 50 pound mushroom anchor, 20¢ per pound. 16 inch rotary mower, as is, where is - \$10. R.H. 19x16 propeller, 1½ in. shaft, \$5. 2 burner alcohol stoves, one gravity feed and one pressure tank - \$5 and \$10 respectively. Paige's Bargain Basement, Ext. 2109.

STORM SASHES - 8 each 31 inch by 55 inch. 2 each 24 inch by 37½ inch. Also screens - 5 each 31 inch by 55 inch. 2 each 24 inch by 37½ inch. Excellent condition, \$30 all. Call W. Johnson, Ext. 482.

KITCHEN RANGE - combination gas and oil. 42 in. White porcelain. Good condition. Best offer. Call P. Borzi, Ext. 2164 or GRover 5-5789.

CAR POOLS

Want to join car pool from Brentwood and vicinity. Call Chas. Bartlett, Ext. 784.

Would like to form car pool with someone from Central Islip area. Call R. di Gerolamo. Ext. 573 or Central Islip 4-9365 after 6 p.m.

Want to join car pool from East Patchogue vicinity. Call E. Jenkins, Ext. 328.

Want two drivers to join car pool from Bayport to Lab. 8:30 to 5. Call Ext. 301-35.

Want to form or join car pool from Lake Ronkonkoma. Contact T. Browne, Ext. 2196. Or call RONkonkoma 9-8600 after 5:30 p.m.

Wanted - ride from Riverhead. 3 blocks south of traffic circle, Rte. 58, on Roanoke Ave. (Merritt's Pond Rd.). Call Mrs. Kurka, Ext. 2273.

Wanted - riders to enlarge 2 man car pool from Bay Shore. Call John Post, Ext. 772.

WANTED

CRIB - drop-side. Any condition. Phone Bill Link, Ext. 321 or Shoreham 4-3181.

CAR - C. Heymann. Call Ext. 706 or 607.

LOST AND FOUND

FOUND - blue rain hood and black eye-glass case. Call Personnel Services, Ext. 2107.

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NOVEMBER, 18, 1959

the Bulletin Board

THE HFBR — A NEW RESEARCH REACTOR FOR BNL

Congress has recently appropriated funds for the design and construction of a new research reactor at Brookhaven. The new reactor will be used primarily for experiments involving neutron beams and is called the HFBR, for High Flux Beam Reactor.

The HFBR will feature an advanced design which is expected to produce a neutron flux nearly 100 times greater than that of the BNL Graphite Reactor with only a small increase in power. The new reactor probably will be located southeast of the stack and cooling towers of the Graphite Reactor, across Cornell Avenue from Metallurgy. It will take about three years to finish the design and to construct the HFBR.

Plans for the new reactor go back to August 7, 1956, when Mr. Haworth appointed a committee to consider the best kind of reactor to meet Brookhaven's growing needs for an improved neutron research facility. By August 1958 the essentials of the reactor system had been outlined and the theoretical basis for the reactor performance established. A project was formed in early 1959 within the Nuclear Engineering Department to carry out the preliminary engineering design of the reactor complex. The Project Staff, which now numbers 12 full-time people, works in Building T-120, on Temple Place. At the same time, an extensive reactor critical experiment was started by the Reactor Physics Group to determine the optimum arrangement of the reactor core and experimental equipment.

The essential feature of the HFBR will be its compact, undermoderated core operating at high power density in heavy water. The "undermoderated" nature of the core means that almost all of the neutrons formed by the chain reaction will fly out of the core where they can be used for experiments. In fact, the useful neutron flux will be much more intense outside the core than inside. Heavy water, which will absorb only a few of the neutrons which pass through it, will be pumped through the reactor core at the rate of 18,000 gallons per minute to remove the heat generated by the fissioning of the uranium fuel. The intensity of the chain reaction in the hottest part of the HFBR core will be so great that a quart of core volume will produce as much heat as the furnaces of 40 eight-room houses.

The HFBR will be housed in a three level tank-type building similar to the Medical Reactor building but about twice as large. The neutron beam experiments at the HFBR will occupy the whole main floor of the building. The auxiliary machinery for the reactor complex and a canal for spent fuel elements will be in the basement. The reactor will be operated from the upper, or Operations, floor. Attached to the reactor building will be a small laboratory and office building, with the main entrance fronting on Cornell Avenue.

SOVIET SCIENTISTS TO VISIT BNL NOVEMBER 18

A group of Soviet scientists, including Vasily S. Emelyanov, Head of the Main Administration for Utilization of Atomic Energy in the U.S.S.R., is expected to visit Brookhaven on Wednesday, November 18. The Russians have been in the United States since November 5 and have visited a number of American research facilities devoted to the peaceful uses of atomic energy. Among the facilities visited were Argonne and Oak Ridge National Laboratories, Los Alamos Scientific Laboratory, and Lawrence Radiation Laboratory.

The scientists have come to this country at the invitation of the U.S. State Department. Chairman John A. McCone of the U.S. Atomic Energy Commission accompanied the group during part of its tour. This visit by the Russian scientists is in implementation of the information exchange arrangements agreed to during Professor Emelyanov's visit to the United States in September and is similar to the recent tour of Soviet atomic energy installations by Chairman McCone and a group of U.S. atomic energy scientists.

At BNL the Soviet scientists will see the Alternating Gradient Synchrotron, the Cosmotron, the Research Reactor, the 18 and 60 inch Cyclotrons, and the Van de Graaff. They will discuss accelerators and high energy physics with members of the Brookhaven staff.

ADMIRAL EDWARD L. COCHRANE, AUI Trustee, Dies

The Laboratory learns with regret of the death of Admiral Edward L. Cochrane, on Sunday, November 15. He had served on the Board of Trustees of Associated Universities, Inc. since 1952. Admiral Cochrane was Vice President Emeritus for Industrial and Governmental Relations at Massachusetts Institute of Technology and served as Chief of the Navy's Bureau of Ships during World War II.

PERSONNEL RECORDS

To ALL EMPLOYEES: Be sure to report any changes in address or telephone number to Personnel Records.

DON'T MISS THE ART EXHIBIT

If you haven't been to the Balcomb Greene Art Exhibit, you can see it until 5 p.m. Wednesday, November 18, in the Research Staff Lounge.

Fringe Patter

QUESTION: What out-of-hospital expenses are covered by the Laboratory medical insurance plan?

ANSWER: 1. Surgical benefits are paid whether or not the surgical procedure is performed in a hospital.
2. If you require emergency care within 48 hours following an accident, charges for x-ray examinations are covered by our basic plan regardless of where the examination is made.

3. Under our major medical coverage, when the employee incurs out-of-pocket medical expenses in excess of \$100 for a single cause within a calendar year, reimbursement will be made for 80% of the following expenditures:

- a. Treatment by a legally qualified physician or surgeon.
- b. Expenses of a trained or registered nurse other than a member of the family.
- c. Medical and surgical supplies.

Among the medical and surgical supplies covered are drugs and medicines obtained upon the written prescription of a physician or surgeon; diagnostic x-ray and laboratory examinations; and radium, radioactive isotope and other x-ray treatment.

Dental expenses are covered only when they are made necessary by an injury to natural teeth as the result of an accident occurring while you or your family members are insured.

EXAMPLES: 1. The wife of an employee cuts her finger preparing dinner. The surgical expenses for stitches taken at the doctor's office are covered, since surgical benefits are paid whether or not the surgical procedure is performed at a hospital.

2. An employee injures his arm in a fall at home. His doctor, suspecting that the arm is broken, takes x-rays on the day of the accident. The cost of x-rays is covered, since under the emergency provisions of our basic hospital plan, x-rays taken within 48 hours after an accident are reimbursable. The x-rays show that the arm was broken and the employee is given a second set of x-rays two weeks after the accident to check on the condition of his arm. These x-rays are also covered by our basic plan; one

set of follow-up x-rays is covered in the case of an accident under the provision for emergency care.

3. An employee has been bothered by back aches and goes to his doctor. The doctor takes diagnostic x-rays. These x-rays are not covered by our basic plan, but qualify as covered expenses under our major medical plan and are 80% reimbursable after the \$100 deductible has been met.

4. An employee's son has displayed symptoms of allergy. His parents take him to the doctor, who gives him a set of allergy tests. The tests show that the boy is allergic to a number of substances and the doctor prescribes medicine to relieve the symptoms and also gives him a series of shots. The allergy tests, shots and medicine, as well as the visits to the doctor, are all covered expenses under major medical and are 80% reimbursable once the \$100 deductible is met.

THANK YOU

Approximately 300 at the Friday the 13th BERA "Good Luck Dance" owe their good time to the hard work of a very small committee of eight volunteers who worked on the publicity, lighting, decorating and entertainment. A special thanks is extended to J. Cuccia, T. Coyle, W. Walsh, M. Daly, M. Krupski, B. Laskee, B. Watson, and B. Garnier.

BNL SAFETY RECORD

A good SAFETY record



41 Days Since Last Disabling Injury
(Oct. 6, 1959 - Nov. 15, 1959)

LEARN TO DANCE

There is still time for newcomers to join in the newly formed Arthur Murray Dance Class. Come on out and choose the dance steps you would like to learn. If you're not a beginner come out and brush up on the latest techniques. Bring your wife, husband, girl or boy friend and join in an evening's entertainment and instruction each week.
Thursday - 8 p.m.
Recreation Building - York Lane.

SEWING CIRCLE

All BNL wives are welcome to our informal sewing circle in the Recreation Building on Wednesdays 2:30 - 4:30. Bring your needlework and your children or just come to chat. There will be no meeting on November 25, the Wednesday before Thanksgiving.

CHRISTMAS CANDY

Orders for Christmas candy, cookies and fruit cake, accompanied by full payment, will be taken at Personnel Services through Friday, December 18. Orders may be picked up Tuesday, December 22.

PHYSICAL FITNESS

There have been several requests from employees to start a Physical Fitness Group in the evenings at the Laboratory, which would meet once a week at the gymnasium.

PURPOSE: To offer an opportunity to participate in a scheduled activity under the guidance of a trained instructor in order to get some exercise in the form of calisthenics, group and individual games or athletic skills. Arrangements will be made for informal classes for both men and women. The desires of those attending the sessions will determine the selection of activities. Here's your chance to get that exercise you have been promising yourself!

Come to the Gymnasium with gym clothes and sneakers this week. There will be a meeting of those interested (men and women) this Thursday at 7:30 p.m. If you cannot attend but would like to join the group call G. Sabine, Ext. 391.

GYMNASIUM ACTIVITIES

The gym will be open on its full time schedule (evenings) starting November 17th and the following schedule will be in effect:

MONDAY: 5:00 - 7:00 p.m., Tennis (by reservation).

TUESDAY: 5:00 - 6:30 p.m., General Activity; 6:30 - 10:00 p.m., BNL Basketball League. 2 department games, 7:00 and 8:15 p.m.

WEDNESDAY: 5:00 - 7:00 p.m., Tennis (by reservation); 7:00 - 10:00 p.m., Open for general activity, badminton, volleyball, table tennis, basketball, exercising, etc.

THURSDAY: 5:00 - 7:00 p.m., BNL Volleyball League. Two department matches each week starting at 5:15. Badminton, Table tennis. 7:00 - 10:00 p.m., Open for general activity, badminton, table tennis, basketball, volleyball, exercising.

Schedule for Men's and Ladies' physical fitness classes will be announced shortly.

FOLK DANCERS, HARK

On Monday evenings, beginning November 23, dance sessions for the semi-pros will be held in the Recreation Hall. Limited guidance will be offered by the Larks. Sessions start at 8 p.m.

SWIM CLASSES

There are still openings in both the adult and children's swimming classes. For information call G. Sabine, Ext. 391.

UPTON RIFLE AND PISTOL CLUB

Using a trusty 1903A3 Pete Colombo shot the big bore high score of the season at the Medford Range on Sunday, November 8. Pete had 197 out of a possible 200.

Al Lukas, second with an unbeatable 196, had been leading for the past six weeks. Usually reliable sources have it that Al said, "Wait till next year."

REMINER: Election of officers will be held at the December 3 monthly meeting. Come out and vote.



BERA BOWLING

GREEN LEAGUE

The Fire Department walked over the Reefers in the last two games for a 3-1 win. P. Peters had 190, 230, 511 series and J. Rhodes had 184 for the winners. The Teasers moved to fourth position by beating the Shamrocks 3-1. T. Holmquist 232, 171, 548 for the losers. Powers had a 197, 177, 171, 547 series for the winners. J. Lucas bowled three consecutive games of 149. Chemistry forfeited to the Electrons.

PURPLE LEAGUE

The Designers retained their first place as they downed the Fiscal team, 3 to 1. Rocklein led with a 248, Chirco 187, Sperry 184 and Cuccia 178. For the losers, Bohn had 193-526 and Rose 178-513.

The Phoubars with their 500 men at it again took 3 points from the Dirty Birds. Brown had a 213-553, Vogt 203-541, Red 193-525, Ole 195-518, and T. Marrior 194-512. The losers had Grisoli with a 194-541 and Walsh 182.

The Phuis took three points from the Bowl Aids. A. Beckwith had a 223-548, Hoffman 188 and Stelmaschuk 179. The losers had Ed Walsh with a 188.

The Toppers took four points from the Chain Gang. Reamy had 177-517 and Zelenka 176. Although Brems couldn't quite do it by himself as he had 209, 200, 553 series.

LADY KEGLERS

"And away we go". Wednesday night completed the first round of the 59-60 bowling season. Medical took 3 points from Sam's Gals. Odds and Ends lost 3 to the Allthumbs. The Nightingales, really coming up the line this year to upset a number of teams, again took 4; this time from the Frisbees. Chemistry, still plagued with bad luck, lost 3 to the Strugglers. Some nice split shooting was done by: Dot Ripperger of the Nightingales, converting the 4-7-10; Grace Stemen of the Odds and Ends, converting the 6-7-10; and Jean Men-ning of the Odds and Ends, converting the 5-10.

High games for the night were: Mary Rate 165 and Grace Stemen 162.

Next week is "position night" - this is a first in the annals of BNL bowling. It should be interesting to see just how the standings turn out, so be sure to "tune in" again next week.

BROOKHAVEN DIVERS CLUB MEETING

A meeting of the Divers Club was held on Monday, November 9, at the Recreation Hall on York Lane.

Many topics including club equipment purchases, insurance and financing were discussed. It was also decided that the club would sponsor classes in Skin and SCUBA diving at the pool this winter.

Starting in the very near future classes in the use of mask, flippers, snorkels and SCUBA gear will be conducted. These classes are tentatively scheduled for Monday nights and are open to all those interested in participating in a new and adventurous sport. The only requirement is that you be a moderately good swimmer, over 16 years of age. The starting date for the class will be in coming issues of the BULLETIN.

Watch for additional information.

U.S. MAIL SCHEDULE

Mr. S. Garrett, postmaster of the Upton Post Office, announces the following schedule of U.S. Mail deliveries and pickups.

Incoming	Outgoing
8:25 a.m.	1:00 p.m.
10:30 a.m.	1:45 p.m.
	4:20 p.m.
	4:45 p.m.

TV TROUBLE TRACERS

A new shipment of TV Trouble Tracers has been received in Personnel Services.

NOTICES

Will the person who cancelled an order for a vanity bench from L.&C. Mayer in the latter part of 1958 or the early part of 1959 and received no refund please call Personnel Services, Ext. 2106.