

the Bulletin Board

VOLUME 14 - NUMBER 37

Published by the BNL Personnel Office

MAY 23, 1961

LABORATORY RETIREMENT PLAN

All employees enrolled in the Laboratory Retirement Plan participate in TIAA, the fixed dollar annuity. As you know, participants may elect to place 25, 33⅓, or 50% of the total premium in CREF, the variable annuity.

However, the percentage of premiums placed in TIAA and CREF cannot be changed except on July 1 of any year. Therefore, any applications to change percentages must be completed at the Personnel Office on or before June 2, to allow time for processing and transmittal.

MEMORIAL DAY HOLIDAY

Monday, May 29, and Memorial Day, Tuesday, May 30, 1961, will be observed as Laboratory Holidays.

The Peoples National Bank facility on site will be open for business on Monday, May 29, during its regular hours, but will be closed on May 30.

All weekly time cards must be delivered to Payroll by 10 a.m. on Wednesday, May 31, 1961, in order to have the weekly checks ready by Friday, June 2, 1961. Please do not use the interoffice mail to send any time cards this week.

KILL BUGS, NOT PEOPLE

Spring may be late in coming, but the bugs have arrived right on schedule. This has sent many home gardeners for the bug killers. . .

CAUTION! Most insecticides are toxic to humans, as well as bugs. Chlordane in particular can cause trouble in that it is one of the very few chemicals which is more of a hazard on the skin than it is when swallowed. It is readily absorbed through the skin. When using any insecticide - read the label on the container and follow the directions carefully.

BROOKHAVEN DIVERS CLUB

The next meeting of the Brookhaven Divers Club will be held on Monday June 5, 1961 at the BNL Pool at 7:30 p.m. Plans for a dive on May 10th will be formulated as well as for the Block Island Dive which will take place some time in August.

For further information, contact Jean Lauer, Ext. 2390.

RETURN TO RONGELAP



Top: 21-ton steel whole-body counting room being loaded on Survey ship.

Bottom: Village scene. Rongelap Island.

The annual Medical Survey of the Rongelap people of the Marshall Islands in the Pacific was completed last month. Each spring, a team of physicians and technicians from BNL's Medical Department and other institutions examines a group of Marshallese people for possible late effects of radiation such as cancer and leukemia.

The following people from BNL participated in the 1961 Survey: Dr. Robert Conard, Dr. Stanton Cohn, Emil Adamik, William Scott, Douglas Clareus, and Ernest Gusmano.

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RETURN TO RONGELAP—Cont'd

The Rongelap people were accidentally exposed to fallout radiation in March 1954, following the detonation of a thermonuclear device on Bikini Island, western-most of the Marshall Islands Group. Of the inhabitants of the island of Rongelap, 105 nautical miles away from the detonation, 64 received the largest fallout exposure; an estimated dose of 175 r of whole-body gamma radiation, contamination of the skin sufficient to result in mild burns and some degree of internal absorption through inhalation and ingestion. People on three other islands received lesser amounts of radiation; these were not sufficient to cause observable illness or damage.

The effects of their radiation exposure caused many of the people exposed on Rongelap to be sick for a few days: they developed depressed levels of their blood cells, and some lost weight. For the first few months they also suffered from beta burns of the skin and loss of hair. They rapidly recovered from these effects and at the present time only a few residual findings are apparent.

The exposed people were evacuated from these islands about two days after the accident and taken to Kwajalein Naval Base. Because Rongelap Atoll was considered to be too highly contaminated, a temporary village was constructed for the Rongelap people on Majuro Atoll several hundred miles to the south, where they lived for the following 3½ years. In July 1957, after careful evaluation of the radioactive contamination situation, Rongelap Island was considered safe for habitation. A new village was constructed, and the Rongelap people were moved there by Navy ship. The annual Medical Surveys have since been carried out on Rongelap Island.

In addition to complete physical examinations with emphasis on cancer detection and complete blood studies, the survey team has been interested in possibilities of growth and development retardation in children, premature aging in adults, and evaluation of the radionuclide body burden.

To determine radionuclide body burden, whole-body counts were conducted aboard the Trust Territory Administration ship ROQUE in a 21-ton steel room which was designed and built at BNL and which is used every year during the survey. This steel room is stored at Eniwetok between surveys, and each year it is a ticklish job to on-load the room onto the ship (see photo at top). The survey team sailed aboard the ROQUE from Kwajalein to Rongelap, a 30-hour trip marked by high seas and considerable seasickness among the group. This year, as in previous years, the survey team completed its examinations in several weeks, living aboard ship and making its examinations both aboard ship and ashore.

As before, excellent cooperation was received from both personnel of the Trust Territory of the Pacific Islands Administration (which governs the islands) and the Marshallese people themselves.

After the examinations were completed, a party was held for the Rongelap people in a palm grove behind the village. Lemonade, cookies, and ice cream were served and small trinkets were given to them, to show the survey team's appreciation for their cooperation. The Marshallese sang several songs, and their clear voices and close harmonizing style, was most pleasing to hear, according to Dr. Conard. The survey team put on several humorous skits - takeoffs on the medical examinations of the people. They were somewhat slapstick but the people seemed to enjoy them a great deal.

In view of the fact that it is not likely that whole-body counts will be necessary next year, the 1962 Survey will probably be greatly simplified and the use of the ship for examinations will not be necessary. It is tentatively planned that the survey team will live on Rongelap during next year's survey.

FISHING CONTEST

Seems that fish are biting all over but most of the entries we get are coming from Nuclear Engineering. This month top honors are held by J.J. Baranosky with 254 points for a 14½ lb. cod caught at Montauk. He also got a 9 lb. 4 oz. pollack and a 3 lb. 2 oz. black on the same trip. There are bigger fish out there including snowshoe flounder! School strippers are showing on both North and South Shores.

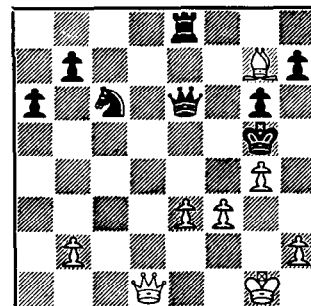
The ADD fishing crew went on a trip out of Captree in a chartered boat. The flounder were small but the trip was considered a success. Joe Cuccia caught a 1½ lb. sea robin in the tail - he did not enter it in the contest. A couple of beer cans were also caught.

HOW SAFE IS YOUR CAR?

Order blanks for auto seat belts at a discount are available at the Personnel Office. Belts listing for \$9.00 are available for \$4.50, with the deluxe \$12.00 list price belts available for \$6.50. This includes all parts and instructions for installation, which requires drilling two holes in the floor for each belt. The belts come in a variety of colors and meet both Federal and SAE specifications.

LIGHTNING STRIKES TWICE

During the course of the thunderstorm which occurred on Tuesday of last week, a shed located on Technology Street was struck twice by lightning. The shed is used to house three cows used for research purposes by the Biology Department. The second lightning bolt struck one of the cows, but she apparently suffered no ill effects from the experience.

CHESS PROBLEM

In this week's problem Black's King is in a bad position, but is a Rook ahead of White. It is White's move - but whose win? Answer elsewhere in this week's BULLETIN BOARD.

SQUARE DANCE TONIGHT

Recreation Hall

No Charge

York Lane

SEVENTH BROOKHAVEN LECTURE

The seventh in the series of Brookhaven Lectures was delivered on Wednesday evening, May 17th, in the Lecture Hall by Dr. George Vineyard of the Physics Department. The subject of Dr. Vineyard's presentation was "Defects in Crystal Lattices". First, the characteristics of linear defects in crystal lattices were summarized, and a demonstration was made of how these defects are responsible for such phenomena as spiral growth and the formation of etch pits in crystals. In the second part of the presentation, Dr. Vineyard dealt with point defects, drawing analogies between the movement of point defects in a lattice and movements of fundamental particles in a continuum. Results obtained with a computer-based model designed to simulate the production, stabilization, and annihilation of point defects induced by neutron irradiation of copper were demonstrated.

The final lecture of the present series will be presented on June 14th by Dr. Oliver Schaeffer, of the Chemistry Department, on "The History of Cosmic Rays in Meteorites".

RAIN FORECAST!

The Meteorology Group has graciously agreed with the contention of the bowling tournament committee that it could rain on Saturday, June 3rd. So if you're planning on boating, grass cutting or house painting - don't. . . Sign up for the Mixed Doubles Bowling Tournament! Do it now, before the deadline at 3:00 p.m., Friday, May 26.

LAST CHANCE

You have only until 3:00 p.m. this Friday (May 26th) to submit your entry for the Mixed Doubles Bowling Tournament at the Port Jeff Bowl. The tournament will start at 3:00 p.m. SHARP on Saturday, June 3rd and is expected to be over before 6:00 p.m. One fella and one gal to a team (at least one a BNL employee). It's handicapped, so everyone has a chance. Prizes for many - fun for all. Rules and entry blanks are at the Recreation Office in the gym. Don't miss out grab a partner and enter now!

DISCOUNT TICKETS

Discount tickets to the following shows and events are currently available at the Personnel Office, 58 Brookhaven Avenue.

1ST ANNUAL OUTDOOR - INDOOR SHOW
(L.I. Arena, Commack)
THE MIRACLE WORKER
(Playhouse Theatre, N.Y.C.)

**— Coming Soon —
BERA JUNE MOON DANCE**

FRIDAY, JUNE 9 AT 9:00 P.M. AT THE GYM

Music until 2 a.m. by Mike Greco

Employee and escort \$1.50 each

Guests \$2.00 each

Refreshments! Door Prize! Giveaways!

PICNIC - JULY 29

Only ten short weeks away. Tickets will go on sale the latter part of June. The committee, chaired by Bob Fuchs, is busy laying out plans for the menu, rides, races, entertainment, etc. The next committee meeting will be on Thursday, June 1, in the Recreation Building at 5:30 p.m.

ANSWER TO CHESS PROBLEM

WHITE

1. K - N2
2. P - R4 check
3. Q - R1 check and mate next . . .

or

1. K - N2
2. P - R4 check
3. Q - R1 check
4. P - B4 check
5. Q - R3 mate.

BLACK

- Q x KP
K x P
P - R4
K x RP.
K - N4
K x NP

BRIDGE TOURNAMENT

A team of Laboratory employees is being formed to compete in the "Commercial Team of Four Tournament" to be held on the evenings of May 31 and June 2 at the Statler Hilton Hotel, New York City.

All persons interested in competing in this or future tournaments call L. Lawrence, Ext. 2442 or Yaphank 4-6719.

U.R.P.C. PISTOL MATCH

On Sunday, June 11, at 3:00 p.m. the Upton Pistol Shooters will hold a match with the Hempstead Rifle and Pistol Club at the Laboratory Range. There will be two courses of fire, .22 calibre and center fire at 75 feet. All interested club members are urged to attend. Come and join the fun. Any questions? Ext. 324.

P. Colombo took top spot in last Wednesday's large bore competition by shooting a 189. Hot on his heels were A. Lukas 187, R. Domish 186, and J. Rutherford 186.

On Thursday, June 1, we will have our last monthly meeting until September. Plans for winter elections and programming must be made. Be sure to attend.

SOFTBALL**National League**

Monday: In a very well played game, the Cosmotron boys beat a greatly improved Medical team. Home runs for the winners were by Frank Thornhill (1), Bob Meier (1), and Dick Larsen (2). Don Sacker of Medical had a Grand Slam. Cosmotron 17, Medical 14.

Tuesday: Pop Ups vs Metallurgy. Rained out.

Wednesday: Phoubars seem to be on their way now that big Les is in shape. Phoubars 10, Gnats 4.

Thursday: A good little Dirty Sox team squeaked out a close one from the Old Timers, or more affectionately known as the "hitless wonders". Dirty Sox 4, Old Timers 2.

Brookhaven League

Tuesday: H.P. vs Untouchables, Rained out. Game rescheduled for June 5th.

Wednesday: Electronics vs E.O.A. After two scoreless innings, Electronics blasted their way to a 15-4 victory over E.O.A. Both teams made some fabulous catches in unusual positions.

STANDINGS	WON	LOST
Biology	2	0
Electronics	2	1
Untouchables	1	1
Potsareebies	1	1
Medical	1	2
E.O.A.	0	2
Health Physics	0	2



SHOP YOUR CLASSIFIED ADS

FOR SALE

1958 FIAT SPIDER - Conv., original owner. GRover 5-0462 after 5:30.

1960 CADILLAC - 4 dr. sedan, fully equipped. Six way seat, autronic eye. Like new, low mileage. H.L. Van Scoy, HA 2-0777.

1960 CHEV. CONV. - Red, auto. trans., r&h, excell. cond. Ext. 2200.

1960 KARMANN GHIA CONV. - Excell. cond. 15,000 miles. \$2299.95, available June 25. Ext. 301-70, or Ext. 514 evenings.

1958 BUICK SPEC. - White, 2 dr., hardtop, power steering, auto. trans., r&h, 2 brand new tires, other 3 good. Very good cond., and original owner. \$1500. AT 1-6502, after 7:00 p.m.

1961 VOLKSWAGEN - Sedan. Only 3000 mi. Ext. 423.

1940 DODGE - in running cond., recently inspected, inexpensive local transportation. Ext. 773.

1959 ENGLISH FORD - Angelia, r&h, 21,000 mi., excell. cond. John Walsh, Ext. 454.

1957 OPEL KAPITAN - 6 cyl., 4 dr. sedan, Blaupunkt FM-AM radio, two heaters, suntop, other extras. Approx. 30,000 mi. R.L. Vogt, Ext. 2107.

1954 CHEV. STATION WAGON - 2 new tires, 5000 mi., since brakes relined. \$250. 20,000 mi. since engine overhaul. Runs well, Ext. 777.

HOUSE - Mastic, 8 mi from Lab. Six rooms, hot water heat, 80 x 100 fenced in plot. Sacrifice. \$10,500. AT 1-8532.

HOUSE - Brookhaven, 120 x 120 ft. corner lot, two bedrooms, den or third bedroom, living room with fireplace, kitchen, dining area. Many extras, \$13,000. Ext. 746.

HOUSE - Bellport, 3 bedroom ranch, jalousie windows in front of house, storms in rear. 10 x 18 ft. breezeway, car and half garage, 95x 100 ft. fully landscaped lot. AT 6-9112, after 6 p.m.

HOUSE - Holbrook, very quiet street, last house on south side of Albert St. 1 block off Grundy Ave., 5 rooms, bath, enclosed sun porch, 1½ garage, landscaped, 100 x 100 ft. fenced lot. Asking \$7,000. Fred Ruppert, Ext. 2435.

MOBILEHOME - Lincoln custom, used. 45 x 10 ft., 2 bedrooms, bath, kitchen, living room, furnished, reasonable. WA 9-4781.

OUTBOARD - 18 h.p. motor and boat, cover, anchor, lights, oars, cushions, etc. R.A. Beth, Ext. 2263 or AT 6-8215.

OUTBOARD - 16 ft., 1959 12 h.p., full controls, steering, windshield, full cover. Painted and in the water ready to go. Mike, Ext. 2387.

30 FT. AUXILIARY YAWL - S.S. rigging, dacron sails, fiber glass on marine plywood hull and cabin, multiple-hull construction. Very roomy and fast. Sleeps 6 in 3 separate compartments. \$8750 or trade for smaller boat or real estate. Ext. 2324.

1957 5½ H.P. JOHNSON - been run just enough to break it in, looks and performs like it just came off the assembly line. \$125. Ext. 482, or BE 7-1092 after 5:30 p.m.

OSCILLOSCOPE - Dumont 279, excell. cond., \$25. J. Faust, Ext. 2255.

.22 CAL. MOSSBERG - with 4 power weaver scope and sling. AT 1-6784, after 6 p.m.

DINETTE SET - Charcoal and pink, formica top, 4 chairs, excell. cond. \$50. LT 9-4360.

KIRBY VACUUM CLEANER - Brand new, used but six times. Deluxe model plus all attachments. \$95. AT 9-1855.

TRAILER AXLE - 2 wheel, solid, dropped and extra wide. Chev. rims fit hub. \$10. Ten ft. racing inboard, class C hull, Crosey engine, direct drive. \$185. Ext. 464.

BABY SUPPLIES - 1 baby carriage, carriage removes for use as car bed, frame collapses for easy portability. 1 stroller, collapsible. 1 baby jump seat, 1 baby swing, seat detaches for use as car seat. 1 reclining infant seat. Last two items essentially brand new. \$12 for the lot, will sell pieces individually. H. Bolo-tin, Ext. 648.

DRAPERIES - Beautiful, old-fashioned velour draperies, two panels, each approx. 50 x 108 in. Reversible, one side green with wide gold border, figured with roses. Other side all gold with same rose border. BE 7-1214-W.

TUNER - Scott Model 310-B. \$100. Heathkit 20W, ampl. and preamp. model W-4, \$50. KLH bass speaker and matched tweeters, \$200. EMI record player and G.E. cartridge, \$30. Hallicrafter S-15 communications receiver, \$35. Fredi, Ext. 2129.

ONE TWIN SIZE BOX SPRING - Good cond. and clean \$15. R.M. Brown, Ext. 455 or BE 7-1214-W.

PHILCO AUTO. REFRIGERATOR - Model 847, 6 yrs. old. A-1 cond., best offer over \$75. M. Burns, Ext. 574.

BC-611 WALKIE TALKIE - 3.5-6.0 mc, good cond. \$15. Also, Springfield Model 1884 45-70 rifle, very good cond. \$20. Bob Williams, Ext. 2369.

COACH CARRIAGE - Dark blue and white, \$20. Playpen, \$6. Carbed, \$3. Carol Cohen, Ext. 2371.

OUTBOARD - 1957 Johnson. 5½ h.p., used 2 seasons, in excellent shape. Has 5 gal. gas tank, and a full gear shift. Bill Tuthill, Ext. 2255 or JA 2-3468 after 6:00 p.m.

ITHACA PUMP SHOTGUN - Featherweight, 12 gauge, excellent condition, \$400. Also, JC Higgins 30-06 Mauser Model 51, excellent condition, \$50. SE 2-6840.

WANTED

HOUSE - 2 bedrooms for August and September. Anyone going away for vacation? Ext. 707.

WHEELBARROW - builders' type with large rubber wheel. A. Rosenka, Ext. 445 or YA 4-3553.

TRICYCLE - Small, and outdoor play gym. Also 26 in. bicycle, English or American. F. Maslan, Ext. 2348.

ENCYCLOPEDIA BRITANNICA - Set from 1950 up. R. Mignery, Ext. 782.

FOR RENT

HOUSE - Stony Brook Shores. For summer. Ideal for visiting scientist and family. 3 bedrooms, living room, breezeway, garage, beautiful residential area, beach privileges. Furnished, ½ acre, wooded. Ext. 2200.

HOUSE - Center Moriches, unfurnished, 2 bedroom ranch, garage, automatic wash. machine, G.E. stove and refrigerator. Near bay, village and schools. Call after 6:00 p.m. at AT 4-1574.

FOUND

SAFETY GLASSES - in case found in front of Hot Lab. Call Personnel Services, Ext. 2107.

CAR POOLS

Two drivers from Sayville-West Sayville area wanted to round out existing carpool. J. Daane, Ext. 779.

Driver needed for Blue Point carpool. G. Strickland, Ext. 2383.

Would like ride or to join car pool from Sayville Blvd., Sayville. F. Maye, Ext. 2480.