

the Bulletin Board

VOLUME 14 – NUMBER 11

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RESULTS OF FALLOUT SHELTER EVALUATION

Results have been received from the firm of Edgerton, Germerhausen, and Grier concerning their evaluation of the basement of the Laboratory section of the Medical Research Center as a fallout shelter in case of nuclear war. In the tests, conducted this past July, cobalt sources and tubing were used to simulate a fallout field, around the building and on the roof. The survey showed that the building structure and the earth around the building would attenuate fallout radiation from the outside into the basement by a factor of 150 to 200 (the safety factor varied in different parts of the basement). This means that a fallout radiation count of 3,000 roentgens outside the building would be reduced to 15 to 20 roentgens inside the basement. The safety factor in the basement is well above the protection factor of 100 recommended by Civil Defense.

These results present interesting possibilities in the use of similar laboratory buildings as emergency fallout shelters.

THANKSGIVING HOLIDAYS

Thursday, November 24, and Friday, November 25, will be observed as regular Laboratory holidays.

Members of the staff who are paid on a weekly basis will, therefore, be paid on Wednesday, November 23. They will receive their checks at the same hours and the same place as on Fridays.

The Peoples National Bank facility will maintain the same hours on Wednesday, November 23, that it normally maintains on Fridays; and will be open from 10:00 a.m. to 3:00 p.m. on Friday, November 25.

Weekly employees on a shift basis who will be off Wednesday, November 23, may have their checks mailed to them if they will leave their life number, name and address with the Cashier not later than Monday, November 21.

FIRST BROOKHAVEN LECTURE

by Professor Edward Purcell

Title: Radioastronomy and Communication Through Space

NOTE: Change of location
Lecture Hall, 8:00 p.m.

Wednesday, November 16

Refreshments available in Research Staff Lounge following lecture.

BROOKHAVEN'S LEFT BANK



The Illustration Section is a part of the Photography and Graphic Arts Division. The Section's primary function is the preparation of drawings or sketches submitted by scientists, so that they will be suitable for reproduction in publications or for use as slides. In this respect the Section is helping to implement the Division's part in the publication of information on the progress of the scientific work carried out at Brookhaven.

The preparation of drawings generally involves tracing them with ink, using varying sizes of letters and line weights, depending upon the size of the drawing and how much reduction is required for it to fit in a three-inch column or slide.

The necessity for readability and consistency of appearance in finished work could be a considerable problem, when it is realized that the five artists in the Illustration Section each year produce over 3,000 drawings intended for use in publications or as slides. The Section has developed a system for the determination of letter sizes and line weights which eliminates guesswork, and becomes a simple matter of reading a chart that supplies the necessary detail.

In addition to the routine work described above, the Section also designs the formats and produces the art for the Laboratory's myriad publications, ranging from special graph papers or simple programs to the more formal technical and annual reports.

The design and production of exhibits that explain the Laboratory's programs has been a continuing responsibility of the Illustration Section. This activity reaches its climax at the annual Visitors' Days, but the preparation for this event starts many months in advance for the Illustration Staff. This year, design work for Visitors' Days began in July. In the production of exhibits the Section depends upon the cooperation of other Laboratory groups: the Sheet-

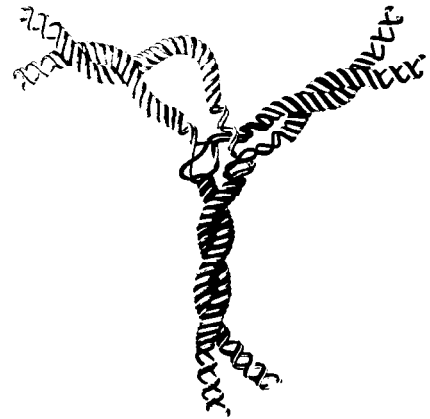
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metal Shop, Cabinet Shop, Paint Shop, Sign Shop and Electricians. Without the help of these people and others, the exhibits would still be just designs on paper.

Some years ago the Section, along with other AEC art groups, was asked to submit designs for a commemorative stamp that would memorialize the Atoms for Peace plan presented by President Eisenhower to the United Nations. The design proposed by Brookhaven was selected by the President from about sixty submitted by the various groups and became the Atoms for Peace stamp which the Post Office Department subsequently printed; 120,000,000 copies were distributed.

The Section is called upon to perform a wide variety of illustrating services, both for the scientific departments and other groups at the Laboratory. Architectural aerial renderings, patent drawings, three dimensional engineering drawings, schematics and maps of all kinds, designs for seals, emblems and letterheads: these help to indicate the variety of work that flows through the group. One of the characteristics that sets the BNL Illustration Section apart from other art groups is the fact that versatility and not specialization is its most important asset.



This schematic drawing of a chromosome, an assignment from Biology, is one of the more bizarre products of the Illustration Section.

RETIREMENT PARTY BY DALU 24426

Three members of DALU 24426, AFL-CIO, will retire in December. They are Roberta Elliott of Staff Services; Robert Hill of the Cabinet Shop and Henry Hofmann of the Shops Division.

A party for DALU members will be held in their honor at the Pulaski Hall in Patchogue on Thursday evening, November 17, immediately following the regular union meeting. Plenty of food and refreshments will be served.

CAMERA CLUB

All members are urged to attend the meeting Wednesday, November 16. Members who attended the last meeting are asked to bring slides and prints for review. In addition there will be a portrait lighting study with a model.

Recreation Building, Apartment Area, 8:00 p.m.

PROPERTY MANAGEMENT

Very few people have taken advantage of Property Management's credit turn-in policy. If you have good, usable capital equipment items that you are not using, please let us know as we have potential customers at all times.

CHRISTMAS CANDY AND CAMERAS

Orders for Christmas candy, cookies and fruit cake, accompanied by full payment, may be placed at the Personnel Office, 58 Brookhaven Avenue. In addition to the film and film processing service, during the Christmas season cameras may be ordered at the Personnel Office.

BNL SAFETY RECORD

11 DISABLING INJURIES at BNL thus far in 1960 (for a rate of 2.59 injuries per 1,000,000 manhours - compared to the All AEC Research Contractor rate of 1.53).

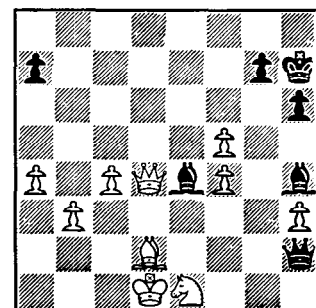
WEEKLY SAFETY HINT

JACK FAUST, Safety Representative to the new Accelerator Department, after a review of BNL accidents, comments: "As we have decreased the number of conditions that cause accidents, it has become apparent that most accidents at BNL are due to careless acts or a lack of safety awareness. In order to continue our present record of 1,850,000 manhours without a disabling injury, all of us should take another look at our jobs with safety in mind."

ADVICE TO THE LOVE LAWN

Leaves should be removed from all lawn areas. Accumulated leaves will cause the grass to smother with resultant bare spots. Mowing should continue as long as the grass is growing; keeping the grass cut to 1½ - 2 in. high will facilitate leaf removal. If the lawn area is large, a Lawn Sweeper is a good investment. These sweepers are much faster than hand raking and do a cleaner job.

In answer to the question, "Why are the Chrysanthemums at the Administration Building compact in contrast with the leggy home grown variety?" The answer is that we shear them with hedge clippers repeatedly during the growing season, keeping them at a desirable height. Shearing is discontinued when the flower buds begin to form in late August or September.

CHESS PROBLEM

Black to move and win

In this week's problem it is black's move. Black is three pawns behind, and needs true neatness and dispatch to win this one. Can you do it? Solution elsewhere in this week's BULLETIN BOARD.



BERA BOWLING

GREEN LEAGUE
10/31

The Old Timers II rolled over the Mole-Stars 4-0. Keating had 187 for the winners. The Old Timers III went into a tie for first place, winning over the Black Birds 4-0. Hardman's 487 and Ream's 176, 191, 177, 544 series helped the cause. The Reefers won over the Fire Dept. 3-1. Lucas's 195-514 series and Ratyca's 193-531 helped them along. Kinney had a 185-515 series, converting the 6-10-7 for the Fire Dept. The Electrons came up with 4 more points, this time over the Old Timers I. C. Tomesch had a 204-541 series and B. Dvorak had a 197 - 509 series. Two points separate the first seven teams, with the Old Timers I trailing behind with 6 pts. out.

PURPLE LEAGUE

Dick Vogt 226-225/623.

The Phoubars, with D. Vogt at his best and R. Caiazza 168, also pitching in, gave the Scotchies a hard time. The Scotchies had all they could do to keep from losing their shirts. F. Cermak's 184, J. Nocar's 182, and P. Reamy's 178 held the match to a split 2-2.

The Designers, with L. Chirco's 192-521, Sperry's 185-510, Roeklein's 208, took 3 from the Dirty Birds. G. Kuzmack, with 182, was in there again, to get one point for the Birds.

The Woodbutchers took four points from the Hopefuls and moved into 3rd place. W. Milian's 192-491, and Benson's 174 led the way. For the Hopefuls K. Thomson's 166 was the best.

The Bowl Aids, cellar birds, are now enjoying the sunlight. They moved into 6th place by taking 3 points from Fiscal. D. Schulz had 181-509, Walsh 159, and Sawyer 157; and A. Saletros 175, Bohn 171, and Brouwer 170 could not tie them up.

RED LEAGUE

The battle between the Bugs and Downunders who hit the deck for the full count of 4 was won by the Bugs. The sluggers for the Bugs were Laurine 479, T. Iarocci 502, and Shipley's K.O.-punch 522. The Downunders that had any power in their punch were Lotko 449, Perry 455 and Biesel in with a 470. (Zorro didn't even get on his horse.)

Well, the Bismuth Kings are still handing out points and they gave 2 to Biology. The men quick to grab up the points for Biology were Belohlavek 422 and McGovern 410. The Bismuth Kings that didn't want to give away the points were Carsten 459 and Atherton 422. (I think both teams wanted to play with the Twinkle Toes.)

The Gnats and Skins rolled it off with an even amount of men (3 on each team) but that's where the equality ended for the Skins took 3 points. The Skins that came through with their skins intact were Lento with a 531 and Schroeder with a 468. The Gnats that fought to take that one point were VanNorman 539 and Selleck with a 423. Selleck must have bowled at least one game on the right alley.

BLUE LEAGUE

The Techs maintained their league lead and set a new individual high game score when Bob Wessel bowled a 277 game. The Nuclides split 2 and 2 with the Techs. Sensing a possible perfect game, the Nuclides fell apart and the best score they could muster in the third game was 125. Hildenbrand for the Champs bowled a 205, 506 series.

The Pacers and Meteors split a fairly close contest with total wood separating the teams by 11 pins. Ed Dexter for the Pacers bowled two 182 games for the only 500 series on either club.

The Splitters took the Snafus for the bundle - best game of the contest was rolled by the losers, Sucher 213, 522 series. For the winners Carter rolled a 200, 512 and Gallagher a 191, 523.

The Bubble Boys came to life and won 3 points from the Powermites. For the winners Scheliga rolled a 213, 522 series and Ferrante a 186, 502 series. The losers lost.

Blue Ball goes to Bob Wessel for his 277 game and high gross series of 617.

LADY KEGLERS COLUMN

Odds and Ends were nudged out of first place last night with the Medigals going out in front by one point, having taken 3 points from our "not so nimble" Twinkle Toes. It is to be noted here that Jackie Haller of the Medigals wasn't just fooling, which she proved by converting the 7-10 split to the complete astonishment of both teams. We haven't checked, but we believe this to be a "first" in the annals of BNL bowling. Odds and Ends lost 3 to the Nightingales in spite of Rosemarie McCann's 180/483, and Grace Siemen converting the 5-7 split. The Boo Boo's took 3 points from the Alley Kats and are slowly moving up the ladder toward 1st position. The All Thumbs came in with a 3 point victory over the APC's with Elaine Daniels rolling 171/456 and Beverly Nine converting the 5-10 split. Other high games were: Grace Siemen 174, Nancy VanNorman 164, Helen Stern 157, Theresa Barbato 156, Barbara Oelkers 154, and Elinor Norton 151.

BASKETBALL

The six-team league has been organized and will start its 15 week season this Tuesday evening. There will be three games played each week. The new slow-break rules will be in effect. It is expected that the players will hear quite a few referees' whistles for violations until everybody is re-educated.

Games this week: 6:15 Health Physics vs. Big Five; 7:25 Oldtimers vs. Biology; 8:35 Odd Balls vs. Metallurgy

MIXED CHAMPS

Barbara Garnier and Red Carsten combined their talents to cop the first place honors in a handicap tournament at the Century Lanes in Huntington last week. A beautiful trophy as well as a sizable cash pot went to the victors.

WESSEL'S 277 BNL TOPS



Bob Wessel, who has been bowling with the Laboratory leagues for several years, showed everyone how it's supposed to be done as he rolled 277 at the Port Jefferson alleys. This score is the highest ever bowled by one of our employees in BNL league competition. Bob ran off a string of six strikes on his way to the mark. Before this accomplishment he was averaging a neat 165 on the Technicians team.

SWIM INSTRUCTION

Registration is being accepted for the Adult Swim Class to be held on Tuesday evenings at 5:15 p.m. and the Children's Class scheduled for Fridays at 6:30 p.m. The lessons will be one hour each for a seven week period for a fee of \$4.00. Classes will start as soon as enough registrations are received. Call George Sabine for information.

GYM SCHEDULE

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

TUESDAY: 5:00 - 6:00 p.m., General Activity; 6:00 - 10:00 p.m., BNL Basketball League. 3 department games, 6:15, 7:25 and 8:25 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. Badminton, Table tennis. 7:00 - 10:00 p.m., Open for general activity, badminton, table tennis, basketball, volleyball, exercising.

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

FOLK DANCERS FEATURE SQUARE DANCING

On Friday evening, November 25th, the BNL folk dance group will meet for a special session of square dances and New England contra dances. The guest caller will be Roger Knox of Ithaca, leader of the Cornell Folk Dancers and a popular square dance caller all over the Finger Lakes and Southern Tier regions. The program will probably include both Eastern and Western style square dances, New England contra dances, and a few folk dances from other countries.

Anyone who enjoys square dancing will be welcome. There will be a modest admission charge. TIME: 8:30. PLACE: Recreation Building in Apartment Area.

DANCE CLASS BEGINS

A good turnout enjoyed the Arthur Murray Exhibition given last week and a new dance class was organized. The sessions have been rescheduled and will start this week on **Tuesday** evening at 8:30 p.m. in the Recreation Building. Registration will be accepted both this and next week. The course will run for 10 weeks.

NEWS NOTE! BROOKHAVEN SKI CLUB

Local skiing for members only one night a week in Huntington at a private club. More information about this opportunity and the first trip to be taken the weekend of January 7th and 8th to Vermont or New Hampshire will be discussed at the Club's next meeting, Tuesday, November 22nd, 5:15 p.m., at the Recreation Building in the Apartment Area. A ski film will be shown after the meeting.

For further details call John Walsh, Ext. 454 or Ginger Moore, Ext. 301-40.

UPTON RIFLE AND PISTOL CLUB

This week the NRA winter league pistol matches will begin. On Tuesday, November 15, and on Thursday, November 17, matches will be held at the Riverhead Armory starting at 7:30 p.m. On Sunday, November 20, there will be a match at the Southampton range starting at 3:00 p.m. Range directions are on the club room bulletin board. These matches are for .22 cal. pistol only and the course fired is the NRA 50 ft. course. Only the top four scores will decide the matches, but the more shooters who shoot on a team will give that team a wider choice of scores, so let's have a good turnout.

CLASSIFIED ADS

FOR SALE

1950 FORD V8 - engine in good running cond. Body needs repair. Best offer over \$60. Port Jefferson 8-0735 after 6 p.m. or Ext. 2151.

1955 FORD V8 - 4 dr. station wagon. Good cond., 1 owner, not an oil burner. R&h, 2 good snow tires. Best offer. Brakes just re-lined and new generator. Steve Garrett, Ext. 2123.

1954 CHEVROLET - automatic trans., power brakes, r&h, \$300. N. Porile, Ext. 616 or Atlantic 9-0714.

1960 CITROEN DS 19 - black, 4 dr., 5,000 mi. Air suspension, power steering, power brakes. B. Bassett, Ext. 607 or Bellport 7-0538.

1959 FORD STATION WAGON - 9 pass., white, power steering, brakes, and seats. White-walls, good cond. \$2095. Sally Kubik, Ext. 319.

HOUSE - 2 family. Centrally located in Patchogue. 6 rms. upstairs rented. 4 rms. downstairs. Good investment house. Well landscaped property, 2 car garage. Ext. 2453 after 3:30, or Atlantic 4-0749. Monahan.

1 ACRE BUILDING LOT - 110 ft. x 417 ft. High ground overlooking Great South Bay. Sidewalk, front hedge, trees and large barn on property, offered at sacrifice price for quick sale. Bellport 7-0129.

12 FT. BOAT - heavy gauge alum. Aerocraft. 7½ horsepower Scott Motor and trailer. Late 1957. All for \$350. H. Shipley on Ext. 448 or Ronkonkoma 9-9247.

BABY GRAND PIANO - \$575. G. Munoz, Ext. 393 or Juniper 7-0711.

SPINET - needs work. Best offer. Atlantic 6-8744, evenings.

GUILD GUITAR - cutaway model, single pickup. Dark mahogany (sunburst), \$45. Don, Shoreham 4-3282.

FLOOR FURNACE - Coleman kerosene. 50,000 btu's. 1 yr. old. Excell. cond. Also 30 gal. elec. hot water heater (110 v. - 2 elements). AT 1-9269, after 5:30.

M-1 CARBINE - over 250 rounds ammo, 9 clips, \$85. Excell. cond. Also 10 ft hydroplane with 25 h.p. Evinrude outboard motor. Very fast and in good cond. A. Timpe, Ext. 434, after 4 p.m.

ACCORDION - Morelli. 3 switch. 120 bass. \$125. Ext. 672.

"ABLE" CORNER CABINET - handsome. With Altec 604 15 in. coaxial speaker. Cost \$300. Best offer. S. Jungreis. Ext. 301-45.

AM-FM RADIO - with amp., push pull output, 2 extra inputs (phonograph & ext.), phono power (110 v AC) and 12 in. speaker. \$40. J. Humbert, Ext. 422.

GONSET COMMUNICATOR II-A - with 2 power cables and whip antenna. McMurdo silver model 703, pre-tuned bandpass frequency multiplier. Command xmtr. 3-4 mc. Blonder-tongue DA2-1 TV distribution amplifier. Coleman hot water heater, kerosene, \$10. G. Kiriokos. Ext. 422.

LADIES MOUTON FUR COAT - size 11-12. ¾ length. Excell. cond. \$25. Ext. 2268.

TRUMPET - excell. tone, new cond., with case music holder, oil, etc. \$40. J. Kelsch, Ext. 354. AMERICAN FLYER - "S" gauge locomotive, 7 cars, 2 switches, and whistling sign. All or part. First reasonable offer. J.E. Phillips, Ext. 661.

LIONEL TRAIN SET - smoking engine. 3 freight cars, automatic uncoupling. 8 straight, 8 curved track. Very good cond. \$12. Frank Rumph, Ext. 2221.

LARGE OAK DESK - 6 drwr. \$25. R.B. Aronson, Ext. 301-17 or Ext. 701.

PAIR OF CHAIRS - 4 rung mahogany ladder-back chairs, upholstered seats. \$25. Weitzel, Ext. 2261.

KENMORE AUTOMATIC WASHER - 10 lb. capacity, filter flow, controls water temp. and level, complete timing cycle. Excell. cond. About 2½ yrs. old. \$80. Jake, Ext. 2208.

FOR RENT

STUDIO APARTMENT - 2 rms. Furnished. All utilities. Centrally located in Patchogue. G.Rover 5-1880.

WANTED

USED RUG - 9 x 15 ft. Roland Alfred, Ext. 749.

USED PIANO - Mrs. R. Holland, Yaphank 4-3513.

PORT-A-CRIB - with mattress in good condition. George Latham, Ext. 373.

ONE CALICO KITTEN - preferably male. Also roller skates with shoes for boy, size 4 and for girl size 7 or 7½. W.G. Creller, Ext. 301-28.

BIKE - for 3 yr. old. Jake, Ext. 2208.

CAR POOL

Ride desperately needed from area of Bayway Ave., Brightwaters-Bayshore, beginning November 16. Please call H. Tevnan, Ext. 2135.

FOUND

Call Personnel Office, Ext. 2106

BOY SCOUT RING.

WATCH - found inside east door of Administration Building.

MAN'S TOP COAT - grey, found in Nuclear Engineering.

PARAKEET - anyone lose a parakeet? A yellow bird with green breast seen November 9 socializing with a flock of sparrows just east of gym.

ANSWER TO CHESS PROBLEM

WHITE

- 1.
2. K x B (or B x B, Q-B7 mate)
3. K - K 2
4. K - K 1

BLACK

- B x N
Q - R 8
Q - B 6
B - Q 6 threatening mates at K 7 and at B 8 (5 Q- B 2, Q - R 8)