

the Bulletin Board

VOLUME 14 — NUMBER 12

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BNL NEWS FLASHES

SIR JOHN COCKCROFT visited the Laboratory on Tuesday, November 15. Sir John has been a leader in the development of the nuclear research program in England, and is Master of Churchill College, Cambridge.

OCCUPANCY of the Chemistry Annex on Rochester Street will be completed within the next several weeks. Among the laboratories housed in this building, number 318, are the geochemistry and radiation chemistry laboratories.

SAFETY BELTS will be installed in the near future in BNL cars which are regularly used off-site.

AFTER THE FINAL count had been completed, it was determined that nearly 400 people visited the 2nd Annual BERA Art Exhibit, held from November 2 through 9. Miss Perle Fine, one of the three artists represented this year, attended the opening of the exhibit.

AN EXHIBIT TROPHY has been awarded BNL's display at the Suffolk County Fair by Fair officials. Our exhibit, which included a model of the BNL Research Reactor, was honored as an outstanding exhibit at the Fair, held in September.

BNL SAFETY RECORD

The BNL Safety Record reached an estimated 1,757,446 manhours without a disabling injury when it was terminated by the motor vehicle accident on Upton Road on November 15, 1960. This figure represents the longest period that BNL has gone without a disabling injury.

POOL

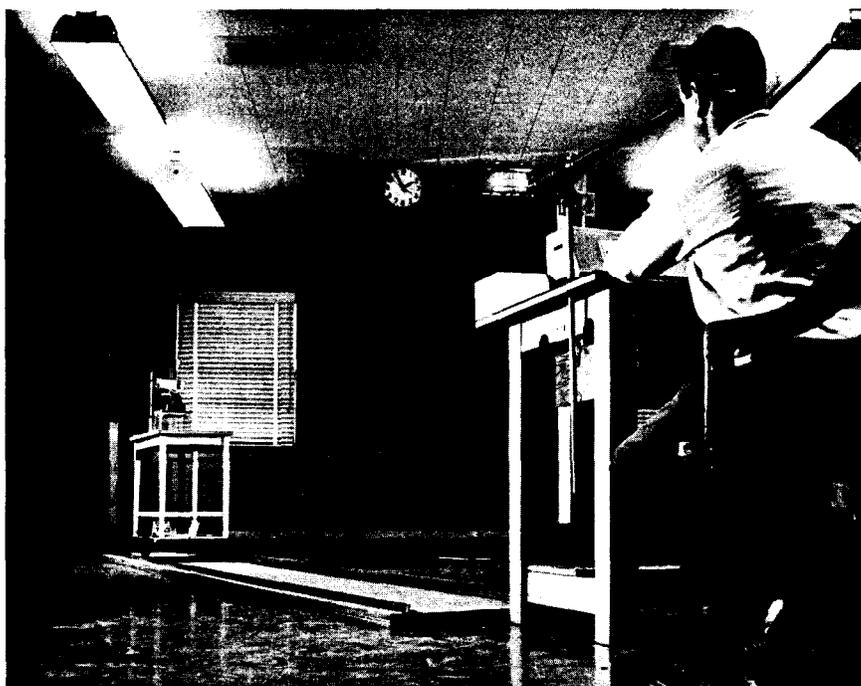
The Swimming Pool will be closed Thursday and Friday, November 24 and 25, because of the Thanksgiving Holidays.

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.

CALIBRATION'S TROLLEY

The Calibration Laboratory is part of the Instrumentation and Health Physics Department. Its new location is on West Brookhaven Avenue just east of the Meteorology Building. The group in the Laboratory repairs and calibrates all portable radiation detecting and monitoring instruments. When new instruments are purchased, they immediately receive a coating of "Cover-lac". This is a thin transparent plastic which is sprayed on to protect the instrument from contamination.



Instruments brought back for service are immediately surveyed for contamination. If clean, they proceed to the repair bench where batteries, tubes, and electronics are checked and necessary repairs made. If the instruments are contaminated, they are cleaned off as much as possible. This is done by stripping off the thin plastic coating of "Cover-lac" and washing the instrument with mild solvents. Most contamination occurs on the probes, handles, and feet, which can be easily replaced. When clean, the instruments are completely resprayed. Small amounts of contamination can be completely covered with this spray.

After repairs are made, the instruments are calibrated at the section of the Laboratory pictured above. In the basement of the building are stored two types of radioactive sources: radium and cobalt-60. These are shielded by several feet of concrete. The radium is used as a standard and has been checked by the Bureau of Standards in Washington. The cobalt is calibrated by comparing it with the radium source.

The source to be used is brought up to the main floor by means of a vacuum system. Instruments are placed on a small motor driven cart which

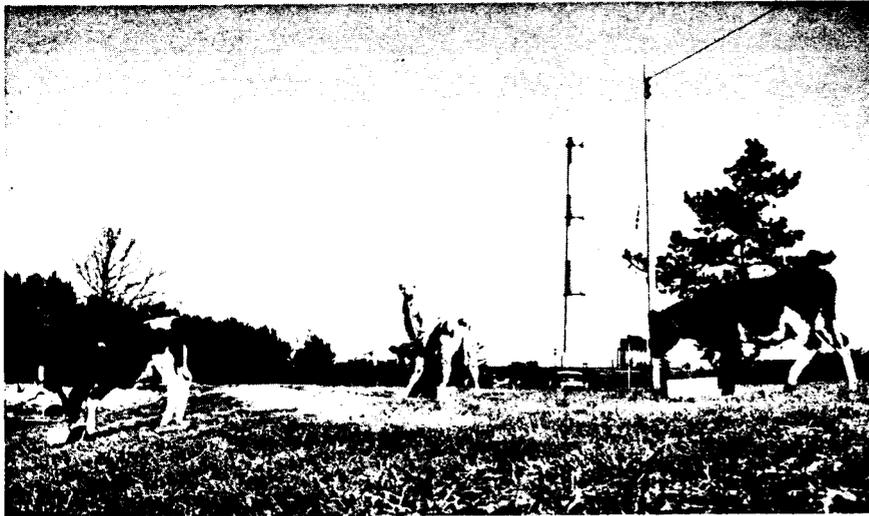
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TROLLEY—Cont'd

travels along a "trolley" track. The cart is sent remotely to a known distance from the radioactive source. Thus with a known source and a predetermined distance from the source, the tester knows what the monitoring instrument should read and can test its accuracy. The meters are read through a telescope; several points on each scale are checked.

Approximately 3,000 instruments per year pass through the Calibration Laboratory. At present the Laboratory depends upon the people using the meters to return them for checking and service; it is planned in the future to establish a pick up and delivery service.

NEWCOMERS TO BNL



Three recent additions to the Biology Department; Alpha, Beta, and Gamma, are becoming accustomed to their new surroundings. In the photo above, Peter Van Ree, Animal House Supervisor, soothes one of the heifers.

FULL HOUSE FOR FIRST LECTURE

The Brookhaven Lecture Series was off to a fine start last Wednesday night. It was especially gratifying to see among the overflow crowd in the Lecture Hall a number of scientifically trained wives who are now kept busy in the day time by their growing families.

Dr. Purcell's lecture on "Radioastronomy and Communication Through Space" consisted of three parts. In the first part he reported how the radio astronomers had, in recent years, been able to determine the shape of our galaxy. They found that it is a thin, very flat disk with the edges turned on two opposite sides so as to give a "snap brim" effect. How it obtained this shape is still a great mystery.

In the second part of the lecture, Dr. Purcell proved that space travel is impracticable, at least outside our solar system. As this topic has been widely discussed in recent years, frequently in a rather optimistic manner, it was interesting to hear that in order to make a round trip to the nearest star and using the most efficient fuel imaginable, namely the energy from the annihilation of antiproton-proton pairs, a fuel load many million times the pay load is required!

In the third part the speaker indicated how, in contrast to the forbidding cost and effort needed for space travel, a wealth of information, even on the farthest regions of the universe, can be gained relatively cheaply by continuing the observations described in the first part, with more sensitive detection methods. He compared the "space travel versus radio communication" issue with the attitude of a child who, when taken to a fine arts gallery, wishes to touch the paintings instead of looking at them from a distance.

The success of the lecture was greatly enhanced by a number of imaginatively conceived slides and a demonstration model of the galaxy, to which the able help of the PHOTOGRAPHY AND GRAPHIC ARTS DIVISION contributed. Following the talk, a lively discussion further clarified various aspects of space research.

The second Brookhaven Lecture, entitled "Current Ideas on the Endocrine Regulation of Cellular Processes", is scheduled for December 14, 8:00 p.m. It will be given by Dr. Irving Schwartz from the Medical Department of BNL.

"THE ALAMO"

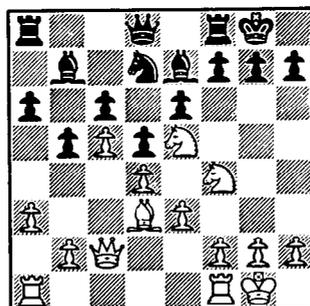
Special discount coupons are available to employees of the Laboratory at a 20% reduction to the movie spectacular, "The Alamo", playing at the Rivoli Theatre in New York City. The offer is good for dates from November 27 through December 1. Coupons have been sent to all departments and are available at the Personnel Office, 58 Brookhaven Avenue.

CAMERA CLUB

The next meeting of the Camera Club will be held on Thursday, December 1, at 8:00 p.m. in the Recreation Building in the Apartment Area. Members who attended the meeting in November 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.

CHESS PROBLEM



FOLK DANCE GROUP SQUARE DANCE THIS FRIDAY

The BNL Folk Dance Group is sponsoring a square dance in the Recreation Building in the Apartment Area this Friday, November 25th. The caller will be Roger Knox from Cornell University who calls both Eastern and Western style squares and also New England contra dances.

Everyone who enjoys square dancing is invited to attend. Dancing will start at 8:30 p.m. There will be a modest admission charge.

CB-11 CLUB TO FORM

An interested group has requested that a Citizens Band Radio Club be formed so that the people can get together to discuss ideas, to aid in keeping a little check on equipment troubles that do pop up at times and to promote more careful use of the airwaves.

A meeting will be held directly after work on November 30, to plan for the club's formation. The meeting will be held in the Recreation Hall. All parties interested in the forming of this Club are urged to attend.

BASKETBALL

Lower scores but closer games were evident as the league, playing under the slow-break rules, got started last week. Health Physics stayed with the Big Five for one half of the game and the spread was only 6 points. However, they couldn't find the range after that and went under 31-19. The Old Timers went down the wire with Biology before they were able to salvage the win by 4 points, 23-19.

The see-saw of the evening was between Metallurgy and the Oddballs. The OB's blew their chance at the victory when with 7 seconds remaining, they missed the game-winning shot.

The action in all games was slower than expected but this was attributed to the fact that the teams, because of the newness of the rules, were slow on the offense. New patterns and tricks of the game will come with experience.

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

CHRISTMAS CANDY AND COOKIES

Orders for Christmas Candy and Cookies are now being taken at the Personnel Office at 58 Brookhaven Avenue. All orders must be accompanied by payment.

DIVERS PHOTOGRAPH ACTION



The first annual Open House held by the Brookhaven Divers Club was a huge success. Between 85 and 100 visitors attended the pool session, with about half of them trying out aqua lungs donated by the club members. Harvey Marshak, equipped with his home-made underwater camera, covered the proceedings from below sea level and the pictures will be on display in the Recreation Office.

Registration for the Skin and Scuba Diving class is still open. If you're interested in registering, contact George Sabine. The first meeting of the class will be held on Monday night, November 28, at 8 p.m. in the Recreation Building on York Lane. All persons who signed up for the class should attend this important meeting. You will be able to meet your instructors and discuss the course content and find out what equipment you'll need and how to obtain it.

Actual diving is tentatively scheduled to begin on Monday night, December 5th and will continue for 8 weeks. The class will be divided into a 45 minute lecture period followed by a 45 minute session underwater. The first three or four lessons will cover basic skin diving with fins, mask and snorkel. The final half of the course will advance to Scuba Diving with full equipment. Full equipment is not needed to register for the course.

Don't forget the important meeting on November 28th. If you're interested, but can't attend, contact Jean Lauer, Ex. 2390 for full particulars.

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.

ANSWER TO CHESS PROBLEM

- | WHITE | BLACK |
|------------------------|---|
| 1. B x P check | K - R 1 |
| 2. N x P check | R x N |
| 3. N - N 6 check | K x B |
| 4. N - B 8 check | K - N 1 (or K - R 3,
5 Q - N 6 mate) |
| 5. Q - R 7 check . . . | |
| and then mate. | |



BERA BOWLING

GREEN LEAGUE

The Old Timers II took over first place beating the Black Birds 4-0. T. Holmquist and M. McKenna were the big guns for the Old Timers II, bowling 189-222/584 and 189/505 series respectively. The Reefers managed to hold second place, taking the Electrons 3-1. J. Lucas had a 219-198/545 series for the Reefers. The Mole-Stars, on the downgrade, lost to the Old Timers III. 3-1. G. Hardman's 198-521 and J. Pontieri's 190 for the winners helped a lot. E. Hoyle had 210 and W. Tremel had 190-507 for the losers. The Fire Department lost four points to the Old Timers I. J. Rhodes' 206-531, McFadden's 188-510 were the standouts for the Fire Department. Frei had 203-500 and Adams had 194-193/565 for the Old Timers I.

PURPLE LEAGUE

The hot Woodbutchers with Capt. Milian's 240-518, a new league high game, took 3 points from the Designers and moved up to share 2nd place with them. Benson had 189-510. For the Designers Roecklein had 213, Sperry 180, and Texiera 179.

The wee Bowl Aids with team bowling at the right time to back up Ed Walsh's 196, walked off with 3 points from the cold Phou-bars. D. Vogt's 191-505, and B. Brown's 170-493 were the only warm ones.

Fiscal, with H. Bohn's 204-513, R. Brouwer's 174, and Saletros's 171, started a fast pace, taking the first game, tying the 2nd. But they could not keep it up, and the Scotches came back and grabbed the last one to get 2½ points. For the Scotches P. Reamy had 211-533 and F. Cermak had 188.

The Dirty Birds, back in the groove again, took 3 points from the Hopefuls, who could only get together for one game. G. Kuzmack had a good night, with a 202-530.

BLUE LEAGUE

Bowling IS scheduled for Wednesday, November 23rd. Lineups for Position Night will be as follows: Techs with (18 points) vs. Nuclides (17); Splitters (17) vs. Pacers (16); Meteors (14) vs. Snafus (14); Powermites (10) vs. Bubble Boys (6).

(11/16)

The Techs' grasp on 1st place was loosened by the Pacers who took 3 points away from the Champs in a well contested match. For the Techs, Gangamella bowled a 182, 509 series. Hildenbrand had a 189, 502 and Larsen a 181 game. The Pacers were helped by Dexter's 170 game and a heck of a lot of handicap.

The Nuclides took 3 points from the Meteors. Bowling with only 4 men, the Nuclides lost the first game only to win the last two and total wood. Kukacka for the winners had a 185 game.

The Splitters who haven't given a point to anyone since losing 4 to the Pacers 10/26

continued their record by taking 4 from the Powermites. Gallagher bowled a 191, 202, 548 series for the Splitters. For the Powermites the best series was bowled by Ed Shelton - almost 100 pins over his average.

The Snafus squeaked 3 points away from the Bubble Boys. Snafus won total wood by only 6 pins and lost their second game by 94 pins. Uddman's 186 and Newman's 185 helped the winners. Scheliga of the Bubble Boys rolled a 182, 515 for the best series of the contest.

Blue Ball of the Week to John Gallagher for his 587 gross (Inc. Handicap) series - Best in the League.

ANOTHER TURKEY FOR LARSEN

This time Dick won a real one when his name by drawn by (non-partisan) Al Christofersen from among all the bowlers in the Blue League. The drawing was held at noon Friday in order to allow the winner to plan his Thanksgiving Dinner.

RED LEAGUE

The Bismuth Kings were de-throned again by the Bugs to the score of 3-1. The Knights of the Order of the Bugs were Iarocci 468, Shipley 513 and their leading knight, Laurine, thundered down the alley to roll a 530. The defending knights for the Bismuth Kings were Watson 466, Carsten 478 and Sir Lawrence Atherton with a 531.

The Downunders and the Gnats rolled it off and split 2-2. The Downunders fighting to hold their spot were Lotko 458 and Perry coming up out of the ranks to roll a 513. The attacking Gnats who fought hard to gain the 2 points were Van Norman 501 and Selleck 472.

The Skins tried to strip Biology of their hides completely but only got away with 3-1. The Skins who rolled their fingers to the bone were Borzi 458, Potter 466, Schroeder 493, Lento 500 and Weinmann who rolled a really hot ball to wind up with a 545. The Biology men who still have part of their hides are Belohavek 447 and Rigopoulos with a 516.

THANKSGIVING HOLIDAYS

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



CLASSIFIED ADS

FOR SALE

1951 CHEVOLET - 2 dr. sedan, std. shift, r&h. Runs well. \$150. Ext. 451 or AT 1-7942.

1960 FALCON - 4 dr. r&h, automatic trans. All white, white wall tires, 7,700 mi., orig. owner, \$1600 takes it. Ext. 2365.

1956 FORD V8 - 2 dr. ranch wagon. Good cond. 2 snow tires included. Dunbar, Ext. 336 or Atlantic 6-8924.

1955 FORD FAIRLANE - V8, Fordomatic, r&h, plastic seat covers, whitewall tires, dual exhausts. Asking \$493.27. What will you bid? Borg, Ext. 301-7.

1960 MG - red, 4,000 mi. \$2200, ww, heater. T. Browne, RO 9-8600.

1958 VOLVO - 4 speed box. R&h. New tires. \$1095 sacrifice. Atlantic 6-8484.

1953 PONTIAC - auto trans. R&h, new generator. 59,000 mi. Owner leaving country. \$200. Yoshijima, Ext. 2356.

SNOW TIRES - 6-70X15. Used one season. \$11 for pair. R. Betts, Ext. 670.

HOT WATER HEATER - 30 gal. gas fired. In good working order. R. Baldwin. Ext. 2459.

LABRADOR RETRIEVER - beautiful, affectionate, female. 6 mos., all shots, wormed. Sired by current AKC champion. Excell. blood line. Will sell "Annie" without papers at greatly reduced price to right person. Ext. 2169 or GRover 5-3195 evenings.

AMERICAN FLYER - "S" gauge locomotive, 7 cars, 2 switches, and whistling sign. All or part. First reasonable offer. J.E. Phillips, Ext.

AMERICAN FLYER - "S" gauge locomotive, 7 cars, 2 switches, and whistling sign. All or part. First reasonable offer. J.E. Phillips, Ext. 661.

TARPAULIN - 20X32 ft. 12 oz. waterproof tarpaulin, suitable for boat cover. \$40. T. Honnett, Ext. 577.

DINETTE SET - maple finish table and 4 chairs. \$25. GR 5-9359.

WANTED

MOTOR SCOOTER - J. Powell, Ext. 2319.

CAR POOL

Driver to join existing car pool from village of Patchogue. B. Benedict, Ext. 353.

Would like to join car pool from Bellport, Bob Wayte, Ext. 2233.

Would like transportation from Bohemia to Lab. E. Semon, Ext. 2379.

Organized car pool from Massapequa, Farmingdale, Nassau area is in need of 1 driver. Centrally located pick up point. Joseph O'Donnell, Jr. Ext. 593.

Need 3rd man for car pool Huntington Sta. vic. M. Goldberg, Ext. 2135.

FOUND

Call Personnel Office, Ext. 2106

GLOVES - women's black kid. Size 7. Found in vicinity of Personnel Office.