

the Bulletin Board

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ELEVENTH BROOKHAVEN LECTURE

By DR. MAURICE GOLDBERGER
DIRECTOR, BNL

Title:

FUNDAMENTAL PARTICLES

Lecture Hall: 8:00 p.m., Wed., Nov. 15

A buffet supper (\$2.75) will be served at the Brookhaven Center before the lecture, beginning at 6:00 p.m. Reservations should be made at least one day in advance, by calling Extension 2302 before 5:00 p.m. or Extension 2453 in the evenings.

Refreshments will be available in the Research Staff Lobby following the lecture.

RADIATION MEASURING KITS

Orders for Bendix home-survival radiation measuring kits, with full payment of \$18.75, will be taken by Personnel Services through Friday, November 10.

SUPERVISORY SEMINARS CONCLUDE

The final session of the current series of Supervisory Seminars was held last week. The series consisted of three sessions, with approximately 250 supervisors attending.

Included in the meetings were talks by the Director and the Deputy Director, and representatives of the Safety Engineering Group, Fire Group, Personnel Division, Plant Maintenance Division, Supply and Material Division, Purchasing Division, Central Shops Division, and Fiscal Division.

THANKSGIVING DANCE

November 17

DON'T BE one of the unfortunate souls who miss BERA's ultra-gala Thanksgiving Dance on November 17! The password for the evening is PARTY and a party it will be.

The Bubble Chamber Group, which is presenting the dance, plan to decorate the Gym next week and make the final preparations for the gala.

So be sure to mark Friday evening, November 17, on your calendar – and don't forget the Twist contest! Prices of admission are \$1.50 for employees and \$2.00 each for guests.

METEORITES REVEAL FACTS ABOUT COSMIC RAYS



The scarred face of the Treysa Meteorite yields information about outer space.

Meteorites are thought to be fragments of large solar-system objects (asteroids or small planetoids) that were created when these objects collided in space. While meteorites travel through space, they interact with cosmic rays in much the same way the Cosmotron protons interact with matter. By studying these cosmic ray interaction products in meteorites and the similar products of the Cosmotron protons in suitable targets, Dr. Oliver Schaeffer and other members of BNL's Chemistry Department have obtained information about the past history of meteorites and have gathered data on the spatial constancy and intensity of cosmic rays far from the earth.

By measuring a radioactive product from cosmic ray production and then its stable daughter, it is possible to tell how long the meteorite was exposed to cosmic radiation in space. A number of meteorites measured give values near 500 million years. This suggests that 500 million years ago, a catastrophic collision took place in the solar system to produce these meteorites.

Dr. Schaeffer and his group have also determined the variation of cosmic rays in space by measuring the disintegration rate of a relatively short-lived activity such as Ar^{37} in a recently fallen meteorite and comparing it to a longer-lived activity. The short-lived activity reflects the cosmic ray intensity over the last portion of the meteorite's orbit before it intersected the earth's orbit. The longer-lived activity gives an average of the cosmic ray intensity over the meteorite's entire orbit. In its orbit, the meteorite may get even closer to the sun than the earth does, and, at its outermost point, it may be more than

(continued on following page)

METEORITES — cont'd.

three times further away from the sun than the earth is. This comparison has been made for several meteorites and it was found that cosmic rays are constant in space.

To find out whether cosmic rays have had the same intensity in the past as they have now, the BNL scientists have measured the disintegration rate of two radioactive products with different half lives and then compared this ratio to the ratio produced by Cosmotron protons. For example, after comparing the ratio of the disintegration rates in several iron meteorites of Cl^{36} (308,000-year half life) and Ar^{39} (320-year half life) to the value for an iron target bombarded by protons in the Cosmotron, it was possible to say that cosmic rays averaged over the last thousand years had about the same intensity as averaged over the last million years.

A final type of investigation of present-day cosmic rays is on their interactions with satellites. In the case of Discoverer XVII, which was recovered last November and studied at BNL, it was found that a lead sheet carried on the satellite contained Bi^{205} , Hg^{203} , and Ar^{37} activities. These were measured and it was concluded that the activities were produced by the solar flare that occurred during the satellite space trip. From the activity levels, it was possible to estimate crudely the spectrum and intensity of the solar flare protons.

TO RETIRE NOVEMBER 10

On November 10, 1961, Mr. Charles A. Schmidt, a senior BNL employee, will terminate his work here to retire. Mr. Schmidt has served the Laboratory since 1947 in the Supply and Materiel Division.

In behalf of all BNL employees, THE BULLETIN BOARD wishes Mr. Schmidt good luck in his retirement.

VISITORS' DAY ANSWER MEN AT WORK

Nuclear Engineering's Frank Rizzo answers questions about model of the High Energy Radiation Development Lab, now under construction.



Frank Berry handles a query from Bellport high school students on model of the BNL Biology Department gamma field, which was displayed in the Gymnasium.

NIMRODS ARCHERY CLUB

The Club had a very good turnout for the Republic match on Saturday.

The shooting consisted of one Chicago round and a twenty-yard Flint indoor round. Total scores for the day were:

Chicago	Nimrods 1789
	Republic 1982
Flint	Nimrods 1052
	Republic 1226

Old Reliable, Mal Johnson, shot high score for the Nimrods' Chicago round, a 496, followed by Sal DiSalvo, 436, and Al Delph, 429.

In the Flint round, high scores were: Sal DiSalvo, 358, Frank Humphrey, 276, and Al Delph, 207.

Another shoot will be scheduled in the near future. Watch THE BULLETIN BOARD for its announcement.

UPTON RIFLE-PISTOL CLUB

Sunday turned out to be another perfect day in the large bore schedule with competition as keen as ever. Lukas fired the high score of 93, followed by Rutherford, 91, and McClelland, 90. Winners of the rifle tournament will be announced next week.

ATTENTION SKIERS AND WOULD-BE SKIERS!

The first meeting of the Brookhaven Ski Club will be held Monday, November 20, at 8:00 p.m. in the Recreation Hall. A Swiss film, "Speeding Skis," will be shown and plans for the coming season discussed.

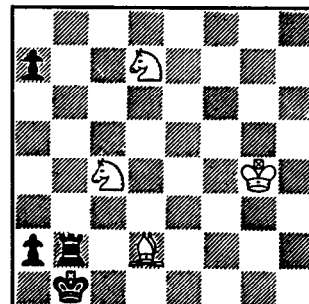
LADIES VOLLEYBALL

When the girls saw last week's announcement of the formation of a volleyball league (we forgot to say men's league), several called to indicate their interest.

So . . . if you are a girl and would like to play volleyball, call G. Sabine, Ext. 391. If there is enough interest, we will schedule a ladies' volleyball period weekly at the Gym.

CHESS PROBLEM

Although it is White's move, Black looks like a sure winner since he is one move away from queening a pawn. Still White wins. How? Answer elsewhere in this week's BULLETIN BOARD.

**PERSONNEL RECORDS**

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

REC SPECS

Gymnasium

Open this week

Dance Class

First lesson Tuesday, November 7

Adult Swim Class

First lesson Wednesday, November 8

Children's Swim Class

First lesson Friday, November 10

Skin Diving Class

First lesson Monday, November 6

Volleyball

Team entries now being accepted.

Basketball

Captain's meeting Friday, November 10 at noon.

SKINDIVING CLASSES START

The 1961-62 Brookhaven Divers Club skindiving classes have started at the Pool. Meetings are held each Monday night at 7:30 p.m. It's still not too late to come down and join up. If you've been interested in skindiving, but haven't tried it yet, now is the time to get in on the fun.

BIG BRIDGE TURNOUT

Twenty-six players took part in a very enjoyable full master point duplicate bridge game on October 26. Although the quality of the game is improving, it is still at such a level that rubber bridge players who have never played duplicate need not hesitate to attend. Everyone has a good time at the games. This Thursday, November 9, free coffee will be served. Time: 8:00 p.m. Place: Recreation Hall.

Last game's winners were:

N-S

1. Virginia Pond and Bertha Kugelman
2. Bob Dvorak and Hazel Williams
3. Mr. and Mrs. Robert Schermer

E-W

1. Harry Sternheim and Mary Kinsley
2. Mr. and Mrs. Morton Sternheim
3. Harold Schwarz and Gidi Czapski



BERA BOWLING

Pink League

The Nightingales flew high and killed the Dipions with 4 points. The only life in the Dipions was a 163 game rolled by D. Svendsen. M. Hill had a 153 game and D. Hillen made a 1-3-7 split for the Nightingales.

The Twinkletoes sparkled in their first game with the Allthumbs, scoring a total of 1018 and thereby gaining the honors of high game for the season thus far. P. Cosier came up
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ALBENERI TRIO CONCERT - NOVEMBER 13



The second concert of the 1961-62 BERA concert series will be held at the Brookhaven Center on Monday evening, November 13, at 8:30 p.m. The featured artists will be the Albeneri Trio - Artur Balsam, piano; Giorgio Ciampi, violin; and Benar Heifetz, cello. Their program will consist of works by Beethoven, Schubert and Faure.

Considered one of the best chamber music groups now appearing before the public, the Albeneri Trio have appeared at past BNL concerts and, each time, have been well received. Their recital in New York two weeks ago was acclaimed by the New York Times and the Herald Tribune.

Series tickets at \$7.50 are still a good buy and are available from Rudy Sher, Ext. 453. Single admissions to the concert are \$3.00 for adults and 75 cents for children and high school students.

The Brookhaven Center will serve a buffet supper (\$2.75) from 6:00 to 8:00 p.m. before the concert. Reservations are necessary and should be made before 5:00 p.m., November 13, by calling Ext. 2302 or 2453.

½ PRICE COUPON

BROOKHAVEN NATIONAL LABORATORY NIGHT

at the

LONG ISLAND ARENA IN COMMACK

for the

HOCKEY GAME — LONG ISLAND DUCKS vs JOHNSTOWN JETS

SUNDAY, NOVEMBER 19, 7:15 P.M.

Present this coupon at box office for purchase of one or more tickets at ½ regular price for both children and adults.

REGULAR PRICES — \$1.50 — 1.75 — 2.50 — 3.00

BERA BOWLING—Cont'd

with a 163 and D. James rolled a 170, high for the night. The Allthumbs bounced back to win the remaining 2 games and final 3 points.

The Question Marks and the Contacts split 2-2. High for the latter were M. Doherty who scored 161, giving her high game with handicap (246) for the season, and C. Lydecker who rolled 158-163/425. For the Question Marks, J. Hughes rolled 162/426, D. Dioguardo's high was 161, and I. Detmer had a 148.

Purple League

The Phoubars took 4 points from the Scotches, thereby moving into first place. Phoubars moving were Vogt, 218/542, and Gardener, 188/529. Scotches resisting were Germak, 174/511, and Galen, 169.

The Toppers took over Fiscal, 3-1. The top Toppers were Nocar, 190/527, and Scatton, 210/519. Rose and Saletros of Fiscal had 159 and 166.

The Designers rolled the Bowl Aids over for 4 points. Designers rolling were Dugan, 173, Dick, 174, and Rocklein, 179. For the Bowl Aids, Sawyer rolled a 167 and Schultz a 147.

By bowling 705 totals for their 3 games, the Woodbutchers stole 3 points from the Hopefuls. Benson and Milian came up with a 164 and a 169. The trying Hopefuls were Kuzmack, 201, and Hanson, 164.

Green League

The Gnats are starting to come alive, winning over the Black Birds 3-1. For the winners, Bachsmith rolled a 190/537 and B. Wilson a 189/534. Zelenka had a 503 series for the losers.

The Old Timers II beat their one-time teammates, the Old Timers III, by 3-1. Old Timers II scores were: Frei, 184/522; Gilmartin, 226-198/596; and Reams 212/505. Walker and Keating of the Old Timers III had 189/500 and 213/538, respectively.

The Reefers won over the Old Timers I, 3-1. Lucas came up with a 193/514 for the former. Hardman of the Old Timers rolled a 194.

The Fire Department lost to the Electrons 3-1 and onw share first place with the Old Timers II. For the Fire Department, Takats had a 202-209/548, and Texiera a 223/581. The Electrons' Tomesch came up with 245-186-186/617 for his first 3 games of the season.

ANSWER TO CHESS PROBLEM

WHITE	BLACK
1 N-R3 Check	1 K-R8
2 B-B3	2 P-R4
3 B-B6	3 P-R5
4 N-K5	4 R-N3
5 N-B6 Check	5 R-N7
6 N-Q4	6 R-KN7 Check
7 K-B3	7 R Anywhere
8 N/4-B2 Mate	

POOL OPEN? YES!

TUESDAY - WEDNESDAY - FRIDAY
7:00 P.M. TO 10:00 P.M.

THURSDAY
5:00 P.M. TO 10:00 P.M.

CLASSIFIED ADS**FOR SALE**

1951 DODGE - R&h, eng. overhauled 12,000 miles ago. Good local transp. \$70. Dave Biggins, Ext. 2212 or MO 1-6754.

1951 ODLSMOBILE - Hardtop, r&h, 8 cyl., hydramatic, 55000 miles, inspected. \$75. Creed, Ext. 2182.

1960 MGA 1600 - White with black interior, wire wheels, r&h, 14,000 miles, one owner, \$1,600 F.O.B. BNL. Jack, Ext. 2552 or Ya 4-6140 evenings.

1951 FORD SEDAN - Good running cond., good tires. \$100. AT 6-0619.

1951 JEEP STATION WAGON - Gd. mech. cond. Ext. 2184.

1955 DODGE - very good cond., new carburetor, new tires, \$450. Saito, Ext. 625.

1954 MERCURY MONTEREY-4 door. Exceptional, many extras. GR 5-1285 after 6:00.

1955 CHEVROLET - 2 door sedan, r&h, 6 cyl., std. shift, orig. owner. Winterized, 33,000 mi. \$500. H. Williams, Ext. 2205.

1957 FORD FAIRLANE-T-BIRD - V-8 Fordomatic. Power steering and brakes. 45,000 mi. orig. owner, ex. cond. Must sell! \$600 firm. Ext. 2188 or SH 4-2097.

HOUSE - 7 rm. split, full ½ acre with trees, dead-end st. in Huntington. Liv. rm. with firepl., dining rm., rec. rm., patio, laundry rm., basemt., 3 bedrms. 2½ baths, garage, all appliances, oil h-w/heat, storm & screens, many extras. Ext. 2102 or HA 7-6066.

COLONIAL CAPE HOUSE - Blue Point, near bay, 11 yrs. old, 6 rms., screened porch, 1½ baths, flagstone patio, fin. basement, laundry, firepl., appliances, 2 car gar., landscaped ¾ acre. \$23,750. Ext. 2482 or EM 3-6741.

CAPE COD HOUSE - Shoreham, 4 bedrms., 2 full baths, 1½ car gar., finished basement, 95x125 fenced plot, 16'x30' concrete patio, 4½% G.I. Mortgage, sacrifice, \$15,900. Ralph, Ext. 481 or SH 4-9921.

RANCH HOUSE - 1 yr. old, in Hampton Bays. 2 bdrm., blue stone fireplace in large living room, many desirable features. To Rent \$95/mo. or for Sale. HA 2-1367J. Call any time.

HOUSE - Patchogue, walking distance to center of town, 2 family, large plot, landscaped. Jennings Ave., good chance to buy income house reasonable. AT 4-0249.

CUSTOM RANCH HOUSE - Brookhaven, 3-4 bedrms., 2 full baths, basement, fireplace, appliances, oil-hot water heat, ¾ acre plot. Owner leaving Lab., must sell by Dec. 1. \$17,900. AT 6-1261 or Ext. 453.

BOAT - 18' THOMPSON - with twin 25 hp Johnsons, Navy top. Boat completely refinished, engines rebuilt. Ext. 483.

BABY CARRIAGE - like new, very sturdy, folds, asking \$20. SH 4-5096 or Morris, Ext. 739.

SNOW TIRES - Two, 14", good cond. Frank Rumph, Ext. 2221.

GATE LEG TABLE - Walnut finish, good cond. \$15. R. Lundgren, Ext. 782.

REMINGTON TYPEWRITER - good cond., needs cleaning, new ribbon. \$10. Ruth Neuss, Ext. 2185.

TV - 21" Dumont, mahogany with matching swivel-top table, needs work. Reasonable. J. Connolly, Ext. 2116.

FRENCH LESSONS - Intermed./advanced, conversation emphasized. Class taught by Bellport h.s. teacher now being reorg. for second year. Weekly sessions in Bellport. Ext. 396 or AT 6-8521.

LIONEL FREIGHT TRAIN -Type O. Very gd. cond. Large locomotive, tender, coal & milk car, light tower. 190 w transformer with 2 controls, runs 2 trains on same track. Complete village, instruction book. Orig. cost \$188; now \$43. Wagner, Ext. 618.

WOMAN'S WINTER COAT - Orlon and Dynel, beige, size 16, like new. Cost was \$175 one year ago; now \$40. Ext. 618.

FOR RENT

2 MODERN HOUSES - Center Moriches, 9 mi. from Lab. One 2-bdrm. furnished; other 3 bdrm. Available immed. Levine, Ext. 464 or AT 4-0248.

SMALL HOUSE - Furnished, hot water heat, all improvements, Rocky Point, rent till June. \$75 mo. SH 4-2461 after 6:00.

WANTED

HOUSEHOLD HELP - Steady, 1 day per wk., in Shoreham. SH 4-5096.

BABY STROLLER - Yoel, Ext. 581.

SITTER FOR CHILDREN - Between 3-6 p.m. weekdays, Shoreham vicinity. Kammer, Ext. 2502.

MAN'S BICYCLE - Reasonably good cond., under \$10. Ext. 506 evenings.

RELIABLE WOMAN - To care for 2 children, 2 and 4 yrs. old. Prefer woman on site. Betty, Ext. 574.

BABY SITTING JOBS - Brookhaven Village vic. only. AT 6-1192.

TRICYCLE - 12" wheel or larger. Also, Irish Mail. Ext. 722 or 2441.

DAY WORK - Practical nurse, housekeeper, cook. Part-time basis. Floria, PA 7-1577.

LOST AND FOUND

BOY'S SWEATSHIRT - Lost in vic. of apt. area. Size 4, white zippered. Ext. 722

KEYS - Found in cafe parking lot. Personnel Services, Ext. 2106.

EYEGLASSES - Found in cafe parking lot. Personnel Services, Ext. 2106.

EYEGLASSES - Gray frame, found behind bldg. 134. Personnel Services, Ext. 2106.

EYEGLASSES - Found AGS 2nd floor tech. shop, about 1 wk. ago. Personnel Services, Ext. 2106.

CAR POOLS

DRIVER needed to join established carpool, Strong's Neck-Setauket area. Males or females preferred, no pets allowed. Detmer, Ext. 369.

RIDE wanted from NYC on Thursdays or Fridays. Also to NYC on Mondays. Share gas. Purohit, Ext. 354.

Want to join car pool from Merrick. Rider only. FR 9-4059.