

# *the* Bulletin Board

VOLUME 13 - NUMBER 29

Published by BNL Personnel Office

MARCH 23, 1960

## **BERA BOARD ELECTION RESULTS**

In a close election in which more than 1400 employees voted, Alf Christoffersen, Larry Fuller, and Mary Semerjian were elected for two year terms to the BERA Executive Board.

Each year half of the board is selected. The new members will join John Binnington, Grace Siemen, and Ed Sayre to form the board for the coming year.

Alf Christoffersen, Photography and Graphic Arts, replaces himself on the Board. Chris organized the choral group and has participated in many BERA activities. Larry Fuller, Nuclear Engineering, is active in softball and badminton and has been chairman of a dance committee. Mary Semerjian, Accelerator Development, has been connected with numerous BERA activities, particularly in helping to organize Operation Get-Together and BERA dances.

## **YUGOSLAV DELEGATION VISITS BNL, MARCH 21**

On Monday, March 21, the Laboratory received a visit from a delegation of five Yugoslav atomic energy officials. They are in this country at the invitation of the AEC and the Department of State, to discuss possible expansion of U.S.-Yugoslav collaboration in the field of the peaceful uses of atomic energy. Their particular interests are in the development of reactors and hot laboratories.

Upon arrival at Brookhaven at 10:30 a.m., the delegation was greeted by Dr. L.J. Haworth, and given a short introductory talk on the Laboratory's history and its current research programs and major facilities. Visits were then made to the following areas, with presentations of the related research given by the appropriate BNL staff members: Health Physics, Research Reactor, Critical Assembly, High Flux Beam Reactor Project, Hot Laboratory, Waste Disposal, Metallurgy and AGS. Before returning to New York City the same evening, the visitors dined at the Brookhaven Center. Before the visit to BNL, the delegation had visited a number of other atomic energy installations in the United States.

## **METEORITES AS PROBES OF OUTER SPACE**



LEFT - A stone meteorite. A sample of the Hamlet, Indiana fall, which fell October 13, 1959.  
RIGHT - An iron meteorite. A sample of the Aroos fall which fell in Azerbaijan, a province in Russia, on November 24, 1959.

Meteorites are samples of material which have been in stable orbits in the solar system for millions of years. Some of the meteorites are stones while others are an iron-nickel alloy. The picture above shows a sample of each of these kinds. The meteorites fall to the earth because at some time in their travel their orbit happens to intersect the earth's orbit. During their passage through space the meteorites are bombarded by high energy cosmic rays. These cosmic rays cause the atoms of the meteorite to change in much the same way the high energy protons of the Brookhaven Cosmotron cause matter to undergo nuclear reactions. By the use of very sensitive techniques it is possible to detect and measure the extent of such changes. Thus one has a probe on the happenings in the solar system over vast distances and long expanses of time.

By measuring the small amounts of radioactive products it is possible to determine whether cosmic rays are constant in time and space. In order to understand how this is done, imagine what happens when cosmic rays produce a radioactive element. At first the radioactive element accumulates in a uniform fashion, say a million atoms each year in each pound of meteorite. As the years go on the number of radioactive atoms increases. Now the decay rate, or rate of disappearance of a radioactive nucleus, increases as the number of atoms increases, so after a time there are so many radioactive atoms present that the same number decay as are being formed. From this time on no change in the total number of atoms will occur as long as cosmic rays are constant. If, however, cosmic rays should become more or less intense then the total number of radioactive atoms present will readjust to the new condition. The length of time it takes for the readjustment is related to the half life of the radioactivity; a short half life isotope adjusts more rapidly than a long lived one. It takes roughly three half lives to adjust. If one now measures the amounts of two elements with different half lives, say argon-39 with a 260-year half life and chlorine-36 with a 308,000-year half life, one can say something about whether cosmic rays are constant in time. The argon-39

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## Meteorites (continued)

activity is representative of cosmic rays of the last 1,000 years while the chlorine-36 is representative of cosmic rays of the last 1,000,000 years. These measurements were made for the first time at Brookhaven and it was found that within the error of the measurement that cosmic rays have been constant during the last 100,000 years.

Recently the Brookhaven chemistry department was fortunate in receiving two meteorites which fell last fall: one in Indiana, the Hamlet fall, and one in Russia, the Aroos fall. The pieces sent to Brookhaven are shown in the picture. The total Hamlet fall weighed about five pounds and it is a stone meteorite. The Aroos fall is an iron meteorite which weighed about 300 pounds.

If one has such a fresh fall it is possible to study shorter half lives. In these cases the 35-day argon-37 was compared to the 260-year argon-39. One now has the possibility of testing the variation of cosmic rays in space. The argon-37 in the meteorite at its time of fall has been produced by cosmic rays near the earth in the last 100 days of its flight while the argon-39 is representative of cosmic rays much further out in space. This comparison is presently under way and when it is complete it will be possible to say whether cosmic rays are constant or not over a space of about 300,000,000 miles.

## APRIL FOOL RALLY

There will be an April Fool Rally, April 3rd. This will be a straight time rally - no average speeds nor road instructions.

Registration will start at 12:30 p.m. at the cafeteria parking lot. General instructions will be given when contestant registers. Club members and non-club members welcomed. Fee for club members is \$2.00; non-club members, \$2.50. Trophies will be given to driver and navigator for the first three (3) places. First car will start off at 1:31 p.m.

We hope to have a good turn out.

For further information, please call Ross Mayer, Ext. 481 or Howie Farrell, Ext. 548.

## ARE YOU A SCOFFLAW?

During February the Laboratory Police issued 101 Courtesy Warning tickets for these violations of the Laboratory Traffic and Parking regulations:

Speeding (Range 40-60 mph)	7
Thru Red Light	9
Passing STOP signs	25
Obstructing Fire Hydrants	9
Parking in Official Spaces	4
Parking in Restricted locations	44
Parking left to curb	2
Parking on grass	1
<b>TOTAL</b>	<b>101</b>

PLEASE DRIVE CAREFULLY. The cause for receiving a traffic ticket could mean your life, the life of your fellow worker or costly damage to your car. Why take a chance?

## BNL SAFETY RECORD

**10 Days Since Last Disabling Injury  
(March 11, 1960 - March 20, 1960)**

# B.E.R.A.



## APRIL FOOL DANCE

### Friday, April 1st

Music By The "High Fives"

9:00 P.M. TO 2:00 A.M.

REFRESHMENTS AT COST

## At The Gymnasium

Admission - Employee and Escort 1.50 ea.  
Guest 2.00 ea.

The Decorations Committee for the BERA sponsored April Fool's Dance to be held April 1 at the gym are conjuring up some mighty tricky decorations to transport you out of this world!

A door prize (an island in the Pacific) will be awarded and the first 150 ladies to arrive will be especially honored with their choice of a mink stole or a trip to Paris. (Remember, it's an April Fool's Dance.)

The magic carpet leaves at 9 p.m. with the "Hi-Fives" playing "On the Road to Mandalay" - wish we could get them to play in the gym!

Next week's BULLETIN BOARD will contain final news on the dance - watch for it!

## Fourth Concert— DANIEL ABRAMS, PIANIST

This Wednesday evening, March 23, the young American pianist, Daniel Abrams, will give the fourth concert in the current BERA Series in the Research Staff Lounge. This concert will be a replacement for the originally scheduled appearance of the Duo di Roma which was canceled due to an illness of the pianist, Miss Santoliquido.

Mr. Abrams is a graduate of the Mannes College of Music in New York and spent two years, 1954-56, at the Royal Academy of Music in London under the auspices of a Fulbright grant. While in Europe, he played in concerts in England, Sweden, Germany, Switzerland, Spain and The Netherlands. He recorded 12 of the 32 Beethoven Sonatas in England and expects to complete the series when he returns to Europe.

Daniel Abrams has also shown facility in composition. While in Europe he wrote an Opera, a violin concerto, a piano concerto and several chamber music works. Two of his works have been published by an English concern.

The Brookhaven audience will have an opportunity to hear one of his compositions, a piano sonata. He will also play a Bach Prelude, a Beethoven Sonata and finish the evening with the Schumann "Caravel".

The concert will begin at 8:30 p.m., Wednesday evening. Tickets will be on sale at the door at \$2.00 for adults and \$0.75 for children. All Laboratory Employees and their friends are invited.

## CAMERA CLUB

The BNL Camera Club will meet this Wednesday (March 23) at 8 p.m. in the Recreation Building. Mr. Charles DeBevois who is an active amateur and professional photographer will speak on various photographic activities. Mr. DeBevois is the official photographer for the Borough of Queens, is president of the Little Neck Community Camera Club and has been president of the Long Island Camera Club Council in addition to various other positions. His experience and interest in photography is such that his talk should be both informative and enjoyable for all who are interested in photography.

Everyone with any interest in photography, whether a club member or not, is urged to attend.

## MICROMET SALE

Orders for Micromet accompanied by full payment are now being taken at Personnel Services, Building 185. No orders will be taken after Friday, April 1.



## BERA BOWLING

### PURPLE LEAGUE

The Phoubars and the Designers fought toe to toe as position night still left them tied for first place. For the Designers, Sperry came up with a 232-558 series, backed by a 500 series by Rocky. Scatton had 185. For the Phoubars, T. Marrior had 187-511 series with Ole's 209.

The Toppers, still in third place, had little opposition from the Fiscal team. For the Toppers, Nocar had 197, Green had 190 and Zelenka 180, while the losers had Bohn with a 181-507.

The Ptu's moved into fourth place as they enchainned the Chain Gang and Bud Pollack, taking them for 3 points. Becky had a 211-507 series, Lambeck 205 and D. German 197. For the losers Lacey had 188, Brems 181 and Hagelberg 167.

The Bowl Aids had a bye.

### GREEN LEAGUE

Another forfeit by Chemistry gave the Reefers 4 points. The Old Timers, behind J. Gilmartin's 627 series, swamped the Fire Department 3-1. The Electrons took 3-1 from the poor showing of the Teaser's 3-man team. High games were: McFadden 241, Gilmartin 190, 213, 224, Dvorak 186, 185, 528 series.

### RED LEAGUE

The Loopers bowled it out with the Bismuth Kings again last Wednesday. When the smoke cleared they had taken four points with the help of B. Sick's 551, D. Malloy's 517 and weak wrist, S. Sparacino's 481. For the losing Bismuth Kings, G. Spira and N. Carter tried hard with 464 and 446 respectively. This puts the Loopers 10 points out in front.

The Woodbutchers met the Gnats and each team had only 4 men. They split 2-2. For the Woodbutchers, it was D. (Larry) Lewis with 474 and (Swinging) W. Milian with 472. The power for the Gnats was E. (P.K.) Selleck's 448 and L. Newman's 418. Not to forget (in the tank) Sucher's 410.

The heat the Hot Lab applied to the Metalliks melted them down only enough to take one point. The Metallik's shielding was B. Jones's 526 and B. Galen's 485. For the Hot Lab it was J. (Dreamer) Walker's 508 and B. Sylvester's 472. The final standing was 3-1 Metalliks.

The Nuclides and the 7-10's went at it again - hard, too. The Nuclides came out on top 3-1. W. (WoJo) Johnson's

498 gave L. Kukacka something to shoot at and he came up with a 477. The best looking old man for the 7-10's was G. (Curly) Hardman, who had a 231 game in a 583 series. This was just 3 pins short of a high series.

### 3/16 BLUE LEAGUE

The Techs took four from the Fire Department with D. Holdenbrand high with a 202-522 series for the Techs. The Irregulars took 3 from Biology and so the fight for second continues.

The fully manned Cosmotron team again came through with 3 from the Skins. Palermo tried his utmost to stop the Cosmos with his 210-214-571 series.

The missing drive of G. Fales from the line-up of the Down-unders cost a big four. Seeing the loss of the leader Carsten, Atherton and Reams laid it on heavy. Carsten had a 574 series, Atherton 209, 516 series and Walt Reams 202.

### LADY KEGLERS COLUMN

As we roll into the 4th and final round of the 59-60 bowling season, competition gets keener. Odds and Ends remain in 1st place, this week taking a complete victory of 4 points from the Nightingales. Medical valiantly trying to maintain their 2nd place position, took only 1 point from the Frisbees, while the Strugglers (possible contenders for 2nd place) also only took 1 from Sam's Gals. Allthumbs are back in there fighting this week, taking 3 points from Chemistry. With Nightingales, Allthumbs, and the Frisbees all vying for that 3rd place spot, looks as though the Strugglers will have a battle on their hands. Should prove to be an exciting fight. Come on down and root for the team of your choice.

High games and series for the night: Grace Siemen 182 - 530 (new high series for the league); Grace Schiro 170; Barbara Garnier 158; and Terry Bianco 156.

### SOFTBALL

We're off to an early start this year as the captains have met twice and have the organization of the leagues well under way. Eleven groups have already entered their teams - Dirty Sox, Plant Maintenance, Metallurgy, Old Timers, Phoubars, Thumpers, Cosmotron, Gnats, Health Physics, Potsareebies, and Medical. Is your department's team listed here? If not, why not? There is still room for one or more teams. This is a game everyone can enjoy. SLO-BALL! Contact chairman Tom Prach or the Recreation Office for details. Plans are to begin the season in early May. However, you must enter your team now!

### SET SHOTS

The top ten in our Basketball League scoring department at the close of the 1959-60 regular season are:

L. LAWRENCE, Thumpers	179
G. SABINE, Biology	144
W. REAMS, Old Timers	138
N. LARK, Chemistry	118
W. KENNEY, Metallurgy	115
L. ATHERTON, Thumpers	98
A. CARSTEN, Thumpers	93
W. LANYI, Metallurgy	86
J. BRANDON, Metallurgy	84
H. FREI, Metallurgy	79

Les Lawrence also compiled the best average per game at 16.3. Don't forget - Championship game Tuesday, March 22, 7:00 p.m. Thumpers vs. Metallurgy.

### ADULT SWIM CLASS

Want to learn to swim? Want to improve your present strokes? Want to be able to breathe while swimming - without bathing your insides? Then register now for the adult classes which will be held on Tuesday evenings at 5:15 p.m. each week for a seven week period. A fee of \$4.00 must accompany your registration. Sign up now at the Recreation Office or the Swimming Pool. For further information call Ext. 391. Classes will begin when a minimum of 10 register.

### UPTON RIFLE - PISTOL CLUB

At 6:30 p.m., Tuesday, March 29th, there will be a group leaving the Recreation Building for the pistol match with the Mattituck Rifle and Pistol Club. The match will be held at the Riverhead Armory. Directions are in the Club Room.

On Sunday, April 3rd, our first home match will take place against the Brookhaven Pistol Club. Starting time is 2 o'clock and the police course will be fired. Any caliber pistol may be used.

### CHESS

The Chess Club holds its weekly meetings on Tuesday evenings at 8 p.m. in the Recreation Building Lounge. All chess players are invited to come and join our games. If you own an extra chess set please bring it along to supplement the ones we have. In the early part of April we expect to begin a tournament. If you are interested in this, please try to join us at one of our meetings between now and then to register and practice.

## RADAR RELAY STATION UNDER CONSTRUCTION ON SITE

A 280 foot radar relay tower is being constructed by the Federal Aviation Agency under a permit by the United States Atomic Energy Commission at a location on the north boundary of the BNL site. The tower will complete a radar microwave link between the Montauk Point Radar Station and the New York Center at Idlewild Airport.

The link itself will consist of three repeater stations approximately thirty miles apart running the entire length of Long Island. The stations will be located at Southampton, Upton, and South Huntington.

The purpose of the towers is to extend the air traffic control ability of Idlewild Airport by radar information transmission from Montauk Point.

Each installation will consist of a 100 foot square plot on which is located a steel guyed tower and a concrete block building 26 feet by 14 feet 8 inches.

The installation on site is located along the north boundary approximately 850 feet east of the entrance road on a 90 foot elevation. The building, containing instrumentation and an emergency power supply, has been constructed and it is expected that the tower will be completed this spring. The station will not be manned on a continuous basis, but will be inspected at intervals.

## GYM CLOSED

Because of the preparations of the decorating committee for the April Fool's Dance, the Gymnasium will be closed for recreational activities from Tuesday, March 29 at 5:00 p.m. until Tuesday, April 5.

## NEW TELEPHONE DIRECTORY TO BE PUBLISHED

A new telephone directory will be published on or about April 1st. Any employee who is incorrectly listed in the present directory should submit a Report of Change - Telephone Book Listings (Form 241 A) to the Communications Section, 2 Center Street. Employees who have already notified Communications of a change need not resubmit another form.

## MICROMET SALE

Orders for Micromet accompanied by full payment are now being taken at Personnel Services, Building 185. No orders will be taken after Friday, April 1.

## CLASSIFIED ADS

### FOR SALE

1953 RAMBLER - 2 door sedan, r&h, standard transmission. New engine, averages 20 mpg. \$350 or best offer. Owner leaving country. Ext. 2356, Hellsten.

STATION WAGON - 1954 blue Ford Country Squire, automatic shift, Fiberglass trim, clean and without known mechanical defects. Bellport 7-1094 after 7 p.m.

1956 FORD STATION WAGON - automatic, radio and heater. Ext. 423.

1949 STUDEBAKER - Champion, 4-door, good nylon tires, radio and heater, B&W overdrive, good mileage. Asking \$75. B. Homeyer, Ext. 301-25 or ROnkonkoma 9-3521.

1957 MERCURY CONVERTIBLE - white with black top. Power steering and brakes. Radio, heater, 4 new white sidewall tires. Ext. 645.

1954 DODGE - Coronet, 4 door automatic transmission, heater, radio. Owner leaving the country. Vito Svelto, Ext. 542.

1951 BUICK SPECIAL - 2 door sedan. Heater, clock, cig. lighter. Standard shift. Good transportation. Sound body. 4 new tires and battery. \$100. Carl Cantera, Ext. 2376 or SAYville 4-4883.

HOUSE - for sale or rent. Bellport. Near schools and village. 4 bedrooms (1 very small). Modern kitchen, garage. ATlantic 6-8850 evenings.

HOUSE - Cape Cod, East Patchogue. 2 bedrooms, full cellar, expansion attic, lot 65x130 ft. South of S. Country Rd. \$10,500. B. Keck, Ext. 752 or GOver 5-0043 evenings.

HOUSE - Colonial, Bayport, 3 bedrooms, dining room, 23 foot living room with fireplace, kitchen with large pantry, screened in porch, storm windows, corner lot 104x135. One block to schools. BAYport 8-1935 after 5 p.m.

HOUSE - Center Moriches. Bulkheaded waterfront. 6 rm. Cape Cod, 2 car garage. Spotless condition. 2 blocks from new St. John's school. ATlantic 4-9266.

BREWSTER - FM TUNER - in wooden cabinet. Original cost about \$40. Priced for fast sale at \$20. Ext. 2205.

21 INCH TV SET - RCA. Metal cased. Table model in working condition. 3 yrs. old. Jake, Ext. 2208.

ROYAL PORTABLE TYPEWRITER - 3 yrs. old in excellent condition. Gray typewriter and matching gray carrying case with built-in locks. Price \$50. Fred Merritt, Ext. 2373.

FLOOR WAXER - turbine type Electrolux, attachment usable with any tank type vacuum cleaner. \$10. Ext. 597.

SNOW TIRES - two 6.70x15 Firestone Town and Countries. Not recaps. 1954 Ford rims, new tubes. \$34 takes all. W. Berg, Ext. 593.

TRIMBLE BATHINETTE - like new. Ladies ice skates, size 9, used once. Men's roller skates, size 10. Swivel rocker, turquoise leatherette and nylon covering. Jig saw, 24 inch throat, like new. Best offers, owner leaving Lab. SElden 2-3578.

BOY'S BICYCLE - 20 inch, newly painted. Good condition, new tires, \$17. Call ATlantic 4-8325 or Ext. 2385.

TELESCOPE - 60 mm. refractor 40-115 power, complete \$75. Aquarium tanks, both for \$8. One copy "Histology" by Ham, third edition, excellent condition \$8. Hi fi equipment - cabinet and speaker cabinet - both for \$30. Eico pre-amp, \$25. J. Faust, Ext. 301-3 or YAPhank 4-6447.

8 FOOT DINGHY - with oars, \$30. Ext. 2315.

HOUSE - 6 yrs. old. 2 bedrooms, picture-window living room with wall-to-wall carpeting, eat-in kitchen, colored tile bath, attached garage, aluminum storms and screens, washing machine. Many shade trees on this 80 ft. x 128 ft. lot. \$55 per month pays all. Price \$8500. ROnkonkoma 9-5562 after 6:00 p.m.

SAILFISH - standard size, one year old. Dacron sail, aluminum spars. B. Keck, Ext. 752.

SAILBOAT - Blue Jay No. 1076. Completely equipped including nylon spinnaker and cushions, etc. Bertha Conway, Ext. 301-39 Medical.

21 INCH TV - RCA, metal cased, table model. In working condition. \$50. Model No. 21-T-7152. If interested please call Jake, Ext. 2208.

BATTERY - Willard, 12 volt. Model ATX-4NF. For Ford or Mercury. Used 2 months. D. German, Ext. 2212.

TYPEWRITER - Royal portable. 3 years old and in excellent condition. Gray typewriter and matching carrying case with built-in locks. \$50. Ext. 2373 or SAYville 4-5126 evenings.

### FOR RENT

FURNISHED APARTMENT - Bellport. 2½ rms. Private entrance, utilities, TV antenna. ATlantic 6-8850 evenings.

THREE ROOM APARTMENT - unfurnished. Location: East Patchogue. Available April 1, 1960. Call Alex, Ext. 388.

### WANTED

GOOD BASSINETTE - and/or crib and mattress. Ext. 2148.

SNARE DRUMS - for student. Ext. 589 or ATlantic 1-9269 after 5:30.

ENLARGER - 2¼ in. by 3¼ in. Call Ext. 353.

### CAR POOLS

3 man car pool leaving Bay Shore desires other members. Jake, Ext. 2208.

Wish to join car pool from vicinity of Middle Road and Blue Point Ave. in Blue Point. Call Ext. 548, J. Costanzo.

### LOST AND FOUND

LOST - small gold earring. Probably lost at or near bank or at AGS. Description - heart imposed on heart. Small round gold ball in center. If found, please call Marie Gross, Ext. 2172.

FOUND - gold pin found in parking field across from Cafeteria. Call Personnel Services, Ext. 2107.