

# the Bulletin Board

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## IMPORTANT COMING EVENTS

THE MATCHMAKER, to be presented by the BERA Theatre Group on February 4, 5, and 6, will be sure to entertain you. The action (and there's plenty of it) of this comedy centers around the efforts of Horace VanderGelder, a Yonkers storekeeper (Harold Schwarz, Chemistry), to find a suitable wife. To this end, he has brought in Mrs. Levi (Perk Stoenner, Chemistry), who lists among her unusual occupations the role of Matchmaker.

VanderGelder's niece Ermengarde (Mary Vise, Chemistry) is at the same time engaged in a romance with an unemployed artist (Joe Vise, Physics), of whom the old man strongly disapproves.

When VanderGelder goes to New York on business, his two young assistants (Jack Rush, Chemistry, and Dennis Greenberg, Biology) decide to leave the store and visit the city for the first time themselves. In their search for adventure, they wind up in the hat salon of Mrs. Malloy (Barbara Swartz, Cosmotron) and her assistant Minnie (Sylvia Springhorn, Biology), where the play almost collapses in some marvelous slapstick and faldral.

The confusion heightens as the scene moves to the Harmonia Gardens Restaurant in the Bowery where there seem to be two plays going on at once for most of the act. After many a chase and some intrigue in which many identities are changed, several romances are solved and the plot resolved (well, almost) in the drawing room of Aunt Flora van Huysen (Ginnie Sayre, Directors) and all comes to an uproarious conclusion.

If the stage seems empty at this point, don't forget that Cliff Swartz, Cosmotron; John Gibson, Solid State; Don and Doris Wimber, Biology; Clemens Averbach and Jerry Lellouche, Nuclear Engineering, are continually running on and off the stage in variations of the plot which the director (Ed Sayre, Chemistry) probably no longer understands but finds wildly hilarious. (Continued Page 2)

## SPOTLIGHT ON PHOTOGRAPHY



A photograph through a microscope of living porkworm larvae (*Trichinella spiralis*), 0.5 mm. in size, the infective agent for Trichinosis in man and an aerial photograph of the 1/2 mile ring of the Alternating Gradient Synchrotron are examples of the wide range of subject size for the Photography group's cameras.

The BNL Photography group faces many problems and challenges since it serves all scientific departments representing various scientific disciplines. Photographic subjects range in size from the eye of a drosophila (fruit fly) photographed through a microscope, to smoke dispersion, which covers many miles from Meteorology's towers and has been photographed on pre-dawn aerial flights. The group has over thirty different cameras to handle the wide variety of requests. These include a high-speed motion picture camera, a time-lapse microscope camera, a motion picture camera, several microscopes and still cameras of many sizes. Despite this the group sometimes finds it necessary to design needed equipment which is not available commercially.

In the life sciences experiments with living organisms frequently require periodic photographic recording to establish the growth or changing states of the organism. Some examples might include mutations in irradiated African violets, tumor growth on tobacco plants, or plants grown from seeds irradiated in the Reactor. Clinical Medical photography and a growing use of radioautography also add to the variety of activity.

In the physical sciences experiments may require the use of a high speed motion picture camera. An example is the photography at 8000 frames per second of a Uranium detonation in Bromine Trifluoride solution. Projecting the finished film at the normal speed of 24 frames per second gives the scientist an opportunity to examine in minutes an event occurring in a fraction of a second. This means a slowing down of time by a factor of over 300.

On the other hand a scientist may wish to speed up time. An event may produce change over a period of months, too long to monitor visually 24 hours a day and recognize changes. An example of time-lapse motion pictures is the recording of an Acrylamide crystal irradiated in the Reactor. This crystal was photographed through a microscope at the rate of 1 frame every fifteen minutes. When projected at the normal speed of 24 frames per second the scientist can examine in minutes, the movement, interchange and other phenomena of an event occurring over a period of months. Motion pictures at normal speeds are made of a wide variety of subjects, including the fabrication of the AGS magnets and the effects of radiation on mice.

(Continued on Page 2)

**PHOTOGRAPHY—Cont'd**

In still photography, devices such as borescopes are used to photograph the interior surfaces of such things as pipes or holes, and sometimes even around corners. Pictures have been taken 40 feet inside the Reactor in order to examine various internal configurations. Still photographs are also made of the construction of our major facilities. These put in the record actual details which are 'covered up' as construction progresses and become valuable, for example, when we need to know what's "inside the wall".

Pictures of electronic chassis, in-pile loops, corn plants (or what do you need?) are part of the every day routine. The group also has activities that do not involve their cameras. A continuous processing machine will develop some 200 miles of film from the bubble chambers during the next twelve months, at an average rate of 40 feet per minute.

A facility for processing thick emulsions is also operated. The average thickness of nuclear emulsions, used to record the paths of charged particles, is 400 microns as compared to between 4 and 20 microns for the average popular films. An entirely different processing technique is required which takes days as compared to the usual minutes. If standard procedures were used, the outer layers would be overdeveloped before the center was even wet. Thus it is necessary to slow down chemical action with low temperatures. As the emulsions must be as distortion free as possible, changes of solution are made very gradually by semi-automatic devices, and the whole procedure takes a week.

An interesting use of photography without a camera was the accurate location of the gamma source in the mast in the center of the Biology Radiation field. A strip of film was wrapped in a light tight container placed against the mast and exposed by gamma rays. The processed film was measured with a densitometer and the source position determined.

Some of the production figures of the BNL Photography group give an idea of the size of the operation. 7,135 photographs, 1,405 photomicrographs, 8,138 lantern slides, 47,553 photographic prints, 20,560 photostats, 430,193 ozalid prints were made in the last fiscal year.

**COMING EVENTS Cont'd**

You cannot afford to miss THE MATCH-MAKER, February 4, 5, and 6 in the Theater. Tickets will go on sale next week. Seats will not be reserved, contrary to the previous announcement. Admission is only \$1.00, the best bargain East of Broadway. Get your tickets early.

**ALIEN ADDRESS REGISTRATION**

Every alien must report his address during January of each year to the Commissioner, Immigration and Naturalization Service. Alien address report cards are available at the Upton U.S. Post Office, 2 Center Street.

**TRUSTEES MEETING**

A meeting of the Trustees of A.U.I. will be held on Friday, January 15, at BNL. The Executive Committee of the Trustees will meet on the preceding day.

**ON SITE GYMKHANA**

Notice to all auto enthusiasts. There will be a Gymkhana held on site Sunday, January 31, at the Cafeteria parking lot. Each auto will fall into its own class, thereby eliminating operating a large bore machine against one of a smaller displacement.

Winners will be selected for each of the nine classes from A to H and also for the best overall time. Trophies will be awarded.

The main purpose of this contest is to find and form together all those interested in organizing an auto club at the Laboratory. Anyone interested in helping with this event, please contact T. Broome, Ext. 2233.

**BNL SAFETY RECORD**

**6 Days Since Last Disabling Injury  
(Jan. 5, 1960 - Jan. 10, 1960)**

**NEW SWIM CLASS**

The present adult swimming class is nearing completion. A new series of instruction at our pool will begin as soon as enough employees sign up.

Classes will be held at 5:15 p.m. on Tuesday evenings. Each lesson will be one hour and the sessions will run for seven weeks. A fee of \$4.00 MUST accompany your registration. Sign up now at the Recreation office or the Swimming Pool.

**SQUARE DANCE JANUARY 26**

This is a treat you can't afford to miss. After several months of negotiations we have finally gathered all four corners of the "FEARSOME FOURSOME" together to form a perfect square on Tuesday, January 26th at 8:30 in the Recreation Building. There is no admission charge for you and yours to join in the evening's entertainment. Dress comfortably and come prepared to enjoy yourself. As usual, refreshments will be available.

**ENGLISH FOR THE FOREIGN-BORN**

There is an evening course offered by Port Jefferson High School called "English for the Foreign-Born", beginning January 18th. If enough people are interested, a similar class could be held on site. The fee would be from \$2 to \$4 depending on the number signing up. Those interested are urged to call Betty Parker, Ext. 525.

**PHYSICAL FITNESS**

Informal sessions are being held each Thursday evening at 7:30 p.m. at the Gymnasium for those employees wishing to get some regular exercise in one form or another. A BERA instructor is on hand to supervise the activity. Men and women - bring gym shoes and clothes.

**SEWING-CHATting SESSIONS**

The Wives of Brookhaven employees are reminded of the sewing-chatting sessions on Wednesday afternoons at the Recreation Hall. Come at 2:30. Newcomers and their small children are especially welcome.

## CAMERA CLUB

The BNL Camera Club will meet this Thursday (January 14) at 7:45 in the Recreation Building.

The program is designed to give color slide photographers a chance to "blow their own horns". Members are requested to bring in 3 or 4 slides about which they would like to say a few words. No judging, no criticism (unless requested), just a chance to show off one's work and to learn from others.

The following types of slides are requested: a) Slides that you like, even though judges (or your spouse) don't care for; tell us why the judges are blind. b) Slides that you are proud of because of overcoming some difficulty or because of the use of some special technique. c) Slides that are "almost perfect" and you would like to tell how you would improve them if given a chance to retake the picture. d) Any slide that you would like to show off and comment upon.

## SUCCESSFUL SKI CLUB TRIP

The Ski Club's trip last weekend to Speculator, New York, seems to have been, by common consensus, extremely successful. Few of the twenty-six members and guests who went on the trip got a full night's sleep, but skiing was excellent plus. After skiing, fireside activities were warm and congenial, heightened somewhat by a power failure and candlelight. The trip home was hazardous, due to poor driving conditions, but all returned safely, sore, and happy.

There will be a ski club meeting on Monday, January 18 at 7:30 in the Recreation Building. There will be a movie after the meeting. Last weekend's trip will be discussed and further plans for the February trip will be made. For any additional information, call John Walsh, on Ext. 457. Any guests will be welcome.

## COMING EVENTS

Jan. 26 - Square Dance  
Jan. 31 - Gymkhana  
Feb. 4, 5, 6 - Play - The Matchmaker  
Feb. 25 - Concert - Albeneri Trio

## UPTON RIFLE AND PISTOL CLUB

The reloading equipment is now available for use to all members of the Upton Rifle and Pistol Club for reloading 12 gauge shotgun shells, 30-06 rifle and .38 pistol shells. Members planning to use the reloading equipment must first contact a member of the Reloading Committee listed below:

F. Bugala, W. Stafford, F. German, C. Goodzeit, J. Ferrer, P. Hichborn, and P. Colombo.

The Large-bore Rifle Trophy was presented to P. Colombo, who edged out Al Lukas by one point in the final match of a series conducted at the Medford range. The winning score was 197 of a possible 200 fired at 100 yards in four positions.

## CLUB ACTIVITIES

If the winter had you pacing the floor in idleness, try one of our club activities as a prescription. For information contact the following or the Recreation Office:

Camera Club - W. COHEN  
Model Railroad Club - J. HALLOCK  
Ski Club - J. WALSH  
Rifle-Pistol Club - F. GERMAN  
Ceramics Club - P. LEVY  
Skin Diving Club - R. YOUNG

## WATCH FOR

BERA DANCE  
FOLK DANCE WORKSHOP

## NEW YORK ROVERS DISCOUNT TICKETS

Arrangements have been made through the management of the Long Island Arena at Commack for discount tickets to hockey games played by the New York Rovers of the Eastern Hockey League.

Half price tickets are available to our employees if we purchase them in quantities of 25 or more for a particular game. If you, your family or friends would like to see the Rovers play Charlotte on February 7 or New Haven on February 14th call G. Sabine, Recreation Office, Ext. 391. Games are on Sunday afternoons beginning at 3 p.m.



## BERA BOWLING

### LADY KEGLERS COLUMN

After weeks of absenteeism, our column is back. Apologies to those avid readers who have missed it, and shame on those of you who haven't. Wednesday night Medical maintained their 1 point lead on 1st place by taking 3 from Sam's Gals. Odds and Ends kept that lead to only 1 point by taking 3 from the Allthumbs. The Frisbees and Chemistry, who have both been in a slump this year, look like they may have come out of it with the Frisbees taking 3 from the Nightingales, and Chemistry taking 3 from the Strugglers.

High games and series for the night: Grace Siemen 180, 487; Chris Podlaski 173, 461; Helen Kelly 163; Phyl Mirabelli 161.

Next week is position night and since the 8 teams are fairly close to one another, it should be an interesting night of bowling with everyone fighting for position. Why not come down and spur the gals on - women, you know, are not above hair pulling, scratching, etc. - it might prove to be a first class "battle". One thing we can promise you - it will be noisy. See you there.

## PURPLE LEAGUE 12/30/59

The Designers pulled away to first place as they took three points from the Toppers. Ed Sperry had 208, 547, Rocky 190, 544, and Scatton 183, 544. for the losers Reamy had 212, 509, Nocar 192, 555 and Green 171.

The Phoubars took four points from the Bowl Aids. Bob Brown had 211, 203, 587 series, Red 181, 520 and Ole 190, 517 series. Walsh of the Bowl Aids had 202, 507.

The Ptuis moved to fourth place as they took four points from the Dirty Birds. C: Bubka had 201, 504 and Lambeck 175.

The Fiscal team managed to squeeze four points from the Chain Gang. Eberbach had 205, 511, Bohn 186 and Saletros 180. A. Brems had 190, 523 for the Chain Gang. (Continued on Page 4)

**PURPLE LEAGUE—Cont'd****1/6/60**

The Chain Gang managed to draw a split with the Designers 2-2. The Designers had Sperry with a 178, 506 and Rocky 179, while Brems had a 179 for the losers. The Phoubars, trying hard to gain, could only take three points from the Ptu's. Dick Vogt had 207, 203, 580 series, Red 187, 514 and Ole 172. For the losers A. Beckwith had a 177 and Lambeck 168.

The Toppers took three points from the Fiscal team. Rose had 190 for the losers.

The up and coming Bowl Aids took three points from the Dirty Birds. McIver had 177, Celentano 170 and Walsh 164. For the losers P. Pion had 178.

**GREEN LEAGUE****12/28/59**

The Fire Department took the lead again beating the Shamrocks 3-1. Rhodes had 190, 206, 541 and Strier 528 for the Fire Department. Holmquist's 200, 528 series and Tierney's 202 in the last game salvaged one point.

Chemistry walked over the Reefers 4-0. The Electrons took the Teasers 3-1. Brockman had 207, 514 and Levy 187, 180, 181, 548 for the winners. Power 190, Lutz 505 series for the losers.

**1/4/60**

After three complete rounds, the Fire Department held on to their lead by beating the Teasers 4-0. Rhodes had 184, 187, 534 and Peters 203, 504 series for the winners. The Shamrocks met Chemistry in a grueling match, losing the first game, an 896, by 14 pins. The Shamrocks came on to take the next 2 games. Gilmartin's 219, 573, Tierney's 210, 205, 544, and Holmquist's 201, 204, 574 helped the winners. E. Bindel had 198, J. Webster 193, 522 for the losers. The Reefers won over the Electrons 4-0. J. Lucas 195, 541 and P. Ratyca's 502 series were just enough.

**TV TROUBLE SHOOTERS GUIDE**

An order of Do-It-Yourself TV Trouble Shooters Guides has arrived at Personnel Services. They are on sale at 40¢ each.

**CLASSIFIED ADS****FOR SALE**

1959 VOLKSWAGEN - convertible. Perfect condition. Fully equipped. Make reasonable offer. Ext. 2316.

1953 OLDS - 4 door sedan. Radio and heater. Good condition. Reasonable. Call Ext. 678.

1950 CHEVROLET - 4 door sedan. Radio and heater. 6 cylinders, good condition. Any reasonable offer. Call Ext. 2133.

1958 RENAULT DAUPHINE - black. 4 cylinder, four door, white wall tires, heater, radio. Call Port Jefferson 8-0673 after 6:00 p.m.

1958 OPEL REKORD - 2 tone paint, deluxe interior, radio and heater. Gets honest 29 miles per gallon. Excellent condition. Call R. Young, Ext. 590.

1959 VOLKSWAGEN - blue. Excellent condition. Bellport 7-0945.

HOUSE - six room ranch house located in village of Shoreham. \$22,500. For information call Shoreham 4-3401, evenings.

SHOE SKATES - girl's white, size 5. Worn 4 times. \$6.00. Call Ext. 2200.

CIRCULAR SAW - 6½ inch electric hand circular saw. Craftsman, with guide track. Good condition. Price \$25. D. Kassner, Ext. 632.

TIRE - one very good 600x16 tire mounted on Chevrolet wheel. \$10. Daniel Stelmaschuk, Ext. 2151.

**WANTED**

FOOT LOCKERS - wanted for overseas transport. Call B. Dejon, Ext. 2450.

BICYCLES - one girl's and one boy's 26 inch bike. Call A. Friedman, Ext. 2133.

HOUSE OR APARTMENT - begin occupancy July 1. 2 or 3 bedrooms. Furnished or unfurnished. Must be within 20 mile travel distance from Lab. Phone S.C. Mo, Ext. 793.

BABY CARRIAGE - Call Heymann, Ext. 706.

CLOTHES - pretty 1880's clothes to be used as costumes in THE MATCHMAKER. Also high button shoes - any size. Call G. Sayre, Ext. 436.

SEVERAL CARDBOARD WARDROBES - type used by movers. To be used by Theatre Group for storing permanent collection of costumes. Call G. Sayre, Ext. 436.

ROW BOAT - 12 or 14 foot. Also outboard motor, 5 or 7½ h.p., boat trailer for 14 foot boat, and one 8 inch tilt-arbor-saw. Call ATLantic 1-8253 after 5:30 p.m. or Ext. 635.

**COMING EVENTS**

See THE MATCHMAKER, Feb. 4, 5, and 6.

**FOR RENT**

APARTMENT - 2 rooms and kitchenette. Bellport village. All utilities. TV antenna, private entrance. \$85. Call Ext. 2463.

HOUSE - Brookhaven. 2 bedrooms, guest room, fully furnished. Convenient to Lab. Available March 15 for one year. \$110 monthly. Bellport 7-0757-M.

**CAR POOLS**

Ride wanted from East Islip vicinity. Call Ext. 667.

Need ride from West Ave., Patchogue, starting January 18. 8:30 to 5. Call Ext. 2463.

Wish to join two or three man car pool from vicinity of Blue Point Ave. and Middle Road in Blue Point. Call James Costanzo, Ext. 548.

Wanted - two drivers to join car pool from West Sayville. Must be punctual. Anyone working north of Cornell Ave. need not apply. Call Carl Cantera, Ext. 2376.

**FOUND**

CIGARETTE LIGHTER - Ronson. Initials N.M. Found in Gymnasium.

GLOVES - girl's red leather, fur lined gloves found in vicinity of Meteorology Building.

CAR KEY - found in Bank.

**CALL PERSONNEL SERVICES, EXT. 2107.**