

the Bulletin Board

VOLUME 13 - NUMBER 44

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THREE MEN IN A BOAT FIRST SUMMER FILM

BERA's summer film series opens on Monday July 11 with the British comedy "Three Men in a Boat" adapted from Jerome K. Jerome's classical novel. The film stars Laurence Harvey and Shirley Eaton.

This uninhibited romp concerns three men who try to get away from it all by roughing it on a boat trip. Their total ignorance of outdoor life and their clumsy efforts to impress the girls they meet along the way make for the hilarious escapades that have kept the book a best seller through the years.

Shows at 7 P.M. and 9 P.M. in the Lecture Hall.

Admission 75¢ Monday July 11.

STONY BROOK MUSIC FESTIVAL

Order forms for the purchase of tickets to the Stony Brook Music Festival are available at Personnel Services. The festival lists the following program for the 1960 season:

Saturday, July 9

DIXIELAND AT DOGWOOD, with 2 dixieland bands.

Saturday, July 16

RACHMANINOFF NIGHT, with Eugene List, Pianist.

Saturday, July 23 Sunday, July 24

COUNT BASIE & BAND

Saturday, July 30

"POPS NIGHT", starring Raymond Paige, Conductor at the Radio City Music Hall

Saturday, August 6

BENNY GOODMAN & BAND

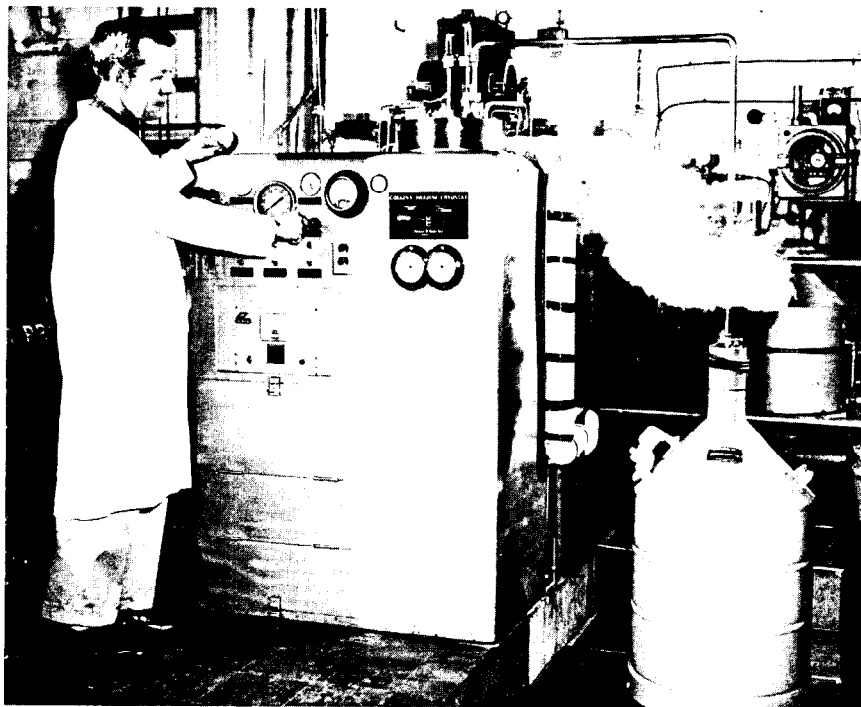
Saturday, August 13

"ALL GERSHWIN NIGHT," featuring Leonid Hambro, Pianist, and James Santis, Vocalist

A group discount purchase plan is available for each performance. The purchase of 25-50 tickets will allow a 10% discount, purchase of 50-100 a 15% discount, and the purchase of 100 or more a 25% discount.

Employees who are interested in obtaining tickets under the group discount plan should contact Personnel Services, Ext. 2107 and place their requests. The ordering of tickets will depend upon the receipt of a sufficient number of ticket requests.

LOW TEMPERATURES FOR RESEARCH



Delivering liquid helium to transport dewar.

Many of the phenomena of interest in the study of the structure of matter can only be investigated at very low temperatures. The reason for this is that the thermal agitation of the atoms at ordinary temperatures is usually sufficiently large to mask the effects one wishes to examine. If the material is cooled to within a few degrees of absolute zero, this random thermal agitation is reduced and the sample is in a simplified state which can be studied experimentally and treated theoretically. Therefore, since the early days at BNL there has been interest in the production of very low temperatures.

During the last century, experimenters succeeded in liquefying one after another of the so-called "permanent" gases until at the end of the century liquid helium finally succumbed and there were no more left to conquer. Since liquid helium boils at -452 degrees F. (absolute zero is -459.8 degrees F.), it provides a medium for carrying out experiments at this temperature or lower. At the present time experimenters in England have succeeded in reaching temperatures of about .00001 degrees above the absolute zero.

From the beginning of the twentieth century until the end of World War II, research in low temperature physics was severely restricted because of the unavailability and high cost of the complex machinery needed to liquefy the gases. Since that time liquefiers based on the design of Professor S. Collins of M.I.T. have become commercially available and are now in widespread use throughout the world.

(Continued on Page 2)

LOW TEMPERATURES—Cont'd

The original liquefier at BNL was installed in January of 1949 and has undergone several revisions, the latest being in April of this year. At present the liquefier can produce eight liters of helium per hour. The helium is transferred into large metal dewars for transport to the various experiments all over the Laboratory.

The liquefier is housed in a specially designed room in the Chemistry complex and operated by a group of trained technicians, who perform all repairs and maintenance as well as run the machine.

Although the liquefier is operated by the Chemistry Department, the use of liquid helium is by no means restricted to it. For example, the nuclear alignment experiment being carried out by the Physics Department makes large use of liquid helium. Similarly, many groups doing neutron diffraction at the Reactor make use of liquid helium to study the structure of various materials at low temperatures. A helium bubble chamber has also been supplied with liquid from the liquefier. Optical spectroscopy has been done at liquid helium temperatures. The use of low temperatures at Brookhaven has been steadily increasing and the prospect is for this trend to continue.

DIRECTOR AWARDS TEN YEAR PINS AND CERTIFICATES

The third annual presentation of certificates and pins by Dr. Leland J. Haworth to employees who have completed ten years of service with the Laboratory took place last Wednesday, June 29 at the Brookhaven Center. The presentation was made to employees whose first ten years of employment were completed during 1959. After the presentation, the employees and supervisory personnel gathered for refreshments.

Dr. Haworth gave a brief talk expressing the Laboratory's gratitude to these employees for their years of faithful service and their contributions to BNL's achievements. He briefly reviewed the development of the Laboratory since these employees joined the organization in 1949.

Nearly 100 employees reached the 10 year mark in 1959. Almost 700 pins and certificates have been presented to BNL personnel since 10 year service recognition was initiated in 1957, representing more than one third of the staff.

PROFESSIONAL OPENINGS**AT BNL**

From time to time, THE BULLETIN BOARD lists job opportunities for which employee referrals are sought. At the present time there are openings at the Laboratory for Electronics Engineers and Metallurgists.

If you know of anyone who might be interested in exploring these or other professional vacancies, notify P. Paige, Ext. 2100 or R.C. Anderson, Ext. 741.

PERSONNEL SERVICES

The following items may be purchased at Personnel Services, 58 Brookhaven Avenue, at the present time:

FILM (ALSO FILM PROCESSING)
RADIO AND TV TUBES
COFFEE

Any profit derived from the above sales is given to BERA.

DIVERS CLUB MEETING

The monthly meeting of the Brookhaven Divers Club will be held on Monday, July 11, at 8 P.M. in the club room at the Recreation Building on York Lane.

Current and future dives will be discussed and final plans to be formulated for the Club dive to Block Island on July 23.

Guests are cordially invited to attend the meeting. If you are a diver and not as yet a member of our club, why not come down and join in the session? Club members dive weekly at both north and south shore locations. Summer's here - don't miss the fun!

BOWLING PARTY PICTURES

The candid shots of the season end Bowling Awards Party have been posted at the Gymnasium, which is open until 9:00 P.M. Monday through Thursday.

DISCOUNT TICKETS TO "FIVE FINGER EXERCISE"

Exchange discount tickets to FIVE FINGER EXERCISE at the Music Box Theatre in New York City are available at Personnel Services, 58 Brookhaven Avenue. These tickets must be exchanged at the box office. They are good for all performances until July 13.

ADVICE TO THE LOVE LAWN

Shrubs such as yew, hemlock, and the broadleaved evergreens can safely be planted in July, after the new growth has hardened off, that is, turned from light green to a color matching that of last year's growth.

In general, evergreens should not be planted late in the fall. Transplanting destroys part of the root system and the evergreen top gives off more moisture than the injured root system can supply. If desired, evergreens such as yew, hemlock, and holly types can be sheared at this time. The pruning is not beneficial to the plant and is done solely to remove unwanted growth.

Roses, phlox and other plants that are subject to leaf spot should be sprayed with a fungicide now and resprayed after each rain.

RECORD DANCE

WEDNESDAY, JULY 6 8:30 P.M.

Recreation Building

Refreshments

Admission 25¢

BNL SAFETY RECORD

PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

9 DISABLING INJURIES at BNL thus far in 1960 (for a rate of 3.92 injuries per 1,000,000 manhours - compared to the All AEC Research Contractor rate of 1.67).

UPTON RIFLE AND PISTOL CLUB Festival Atmosphere

Last Thursday evening the U.R.P.C. small bore rifle shooters lifted their "shootin' irons" for the first time against outside competition, the Grumman Gophers. This team has just received honors for winning the championship of the Long Island Industrial Winter League. As targets were being tallied a bit of uneasiness became apparent with the Gophers. It could be anybody's match! It was. The Gophers won with a total of 701 points to our 689. A close match. High shooters for our team were R. Domish 177, E. Hart 174, P. Colsmann 172, and A. Lukas 166. Possible was 200.

A rematch was set for Monday evening, July 18, at our range. Everyone is welcome.

ON SITE PLAY SESSION

To on site residents whose children find time hanging heavy on their hands—your worries are over. Beverly Wellings and Gene Collins are back again this summer with a bag full of new games, and of course the old favorites, to keep your boys and girls busy and active from July 11 to August 31.

The increase in recreation area around the Recreation Building on York Lane will enable us to plan more activities around a centralized area, regardless of the weather conditions.

Be sure to fill out the applications which have been distributed throughout the apartment area and turn them in at the Recreation Office in the Gymnasium, 3 Center Street.

FIRE EXTINGUISHER SALES REOPEN

In response to a number of requests, orders for Kidde 2½ pound fire extinguishers have been reopened and will be taken until Friday, July 15. You may place your order, accompanied by payment, at Personnel Services, 58 Brookhaven Avenue. The group purchase price is \$12.50.

This fire extinguisher, approved by the Underwriters' Laboratories and the U.S. Coast Guard, is equivalent in fire killing power to 8 one-quart carbon tetrachloride extinguishers. It is useful on boats and in the home. A sample fire extinguisher may be seen at Personnel Services.

SWIM CLASS SCHEDULES

The schedules giving dates and times for all children registered for instruction at the Laboratory pool have been completed and will be posted at both the swimming pool and gymnasium on Thursday, July 7. Classes will begin the week of July 11.

**Planned For Operation
Get-Together No. 3**

Games, entertainment and food, food, food will highlight this year's Operation Get-Together No. 3. Each hour of the festivities will be packed with a never ending stream of activities to delight young and old alike.

The children will again enjoy pony rides, kiddy rides, movies, a sprinkler area, games and contests and plenty of food. Trophies, favors and prizes galore will be distributed to all participating children.

Adult recreation is not being forgotten. "Dip the Doll" and other booth endeavors are returning bigger than ever. Dance music will be provided by the bands in popular, Western, and Latin American rhythms. Special features this year will include a jazz festival and a marching band. A full day's program of music to listen and dance to is assured.

Food will be succulently prepared on the large charcoal braziers and served by our own BNL chefs. The menu will again include ample supplies of beer, soda, hamburgers, franks, corn, watermelon, ice cream and all the fixings.

Operation Get-Together No. 3 is a joint project of all BNL's departments. In order to insure complete success it will require the assistance of many individuals. A Lab-wide memo is being prepared which will ask for volunteers for the many activities of an affair of this size. The wider the participation, the more fun you can have.

DON'T FORGET THE INDIANS!!

Ticket sales are now under way and business is brisk. The deadline is Friday, July 22 at 3 P.M. Following is the complete list of ticket sellers:

Joan Siebert	Physics	420
Pat Cosier	Physics	688
Barbara Garnier	Physics	407
Pat Towey	Physics	602
Inger Nielsen	Physics	648
Marie Susa	Physics	541
George Lowe	Physics	402
Ernie Windschauer	Physics	424
Carmen Spirio	Physics	791
Isaac Cole	Physics	424
Pat Ferrigno	Tech. Info.	2273
Chris Podlasky	Medical	301-14
Sally Kubik	Biology	319
Pat Benkenstein	Cosmotron	752
Mildred O'Neill	A.G.S.	603, 664
Trudi Neuhooff	Photography	2178
Ted Jasson	Plant Maintenance	586
Pete Delmonte	Machine Shops	577
Rina Hilgemeier	Reactor	394, 2189
Grace Siemen	T-100	2190
Tom Alaimo	Heavy Machine Shop	566
Sophie Kostuk	Chemistry	608
Eleanor Tingen	Administration	2131
Helen Cooke	Electronics	542
Carol Bindel	T-197	565
George Sabine	Gym.	391
Bob Still	Fiscal	557
Walter Becker	Plant Maintenance	2136
Janet Moore	Personnel	2107
Ruth Neuss	AEC	2194
Lois Norman	Metallurgy	555
Grace Jones	Nuclear Eng., T-197	463
Grace Searles	Hot Lab	2268
Betty Phillips	Cyclotron	432

WANTED

MORE ENTRIES

IN THE BERA FISHING CONTEST

There has been a noticeable lack of entries in the past few weeks. The fishing couldn't be that bad.

So far, no entries at all have been received in each of the following species:

Striped Bass	Sea Bass
Cod	Kingfish
Mackerel	Tuna
Brook Trout	Large Mouth Bass

The largest entries that have been received are no monsters so they should be easy to beat.

Don't forget, any size fish is eligible for entry. Call the Recreation Office for a supply of entry blanks and let's go fishing.

"MEET ME IN ST. LOUIS" AT WESTBURY

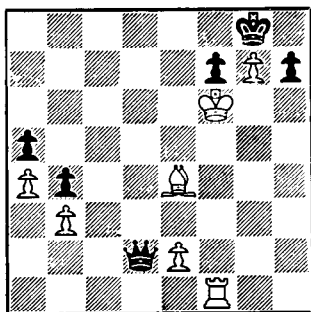
MEET ME IN ST. LOUIS, an all-time favorite musical, is the current attraction at the Westbury Music Fair. It will play until July 17.

20% discount tickets are available to BNL employees and their families. Seat reservations and payment are made directly through Personnel Services, 58 Brookhaven Avenue. **Payment must be by check made payable to Westbury Music Fair.**

CHESS PROBLEM

The answer to the problem in THE BULLETIN BOARD of June 14 is as follows:

WHITE	BLACK
1. R - R7 check	K - N5
2. P - Q7	R - Q7
3. R - R4 check	K - N6
4. R - Q4	R x R
5. N - K2 check followed by	
6. N x R... and then ultimately	
white queens.	



In this week's problem it is white's move. Who is going to win it, black or white?

CLASSIFIED ADS

Deadline each week for BULLETIN BOARD Classified Ads is Friday afternoon at 3. Send ads to BULLETIN BOARD, 58 Brookhaven Avenue, or bring them to the Personnel Office, same address.

Ads must contain a signature and Laboratory telephone extension. If you do not want your name to appear when the ad is printed, put it in parentheses.

FOR SALE

1951 FORD - 2 door sedan, in excellent running condition with radio, heater and 4 all-most new tires (no recaps). Body needs some fixing. Owner leaving country. Best offer. C. Broertjes, Bio., Ext. 397 or after 5 p.m. Ext. 537.

1949 OLDSMOBILE 88 - 1 owner, 108,000 mi. \$115. M. Perlman, BAypart 8-2974 or Ext. 637.

1951 CHEVROLET - business coupe. Ext. 2201.

1958 VOLKSWAGEN - excellent car in tip top condition. Less than 2 yrs. old. Going abroad. Dr. De Meutter, Ext. 301 or 514.

1959 PLYMOUTH - Fury. Red, hard top, 2 dr., auto. trans. Power steering. R&h. 9,000 mi. \$1,750. T. Papa, ATLantic 1-7595 or Ext. 604.

1950 CHEVROLET - 4 dr. sedan, new battery and newly relined brakes, very good running condition. \$75. Ext. 629.

1957 AUSTIN HEALEY - "100-6". R&h, over-drive, wire wheels, all extras! Original owner. Low mileage, car in excellent shape. Best offer over wholesale book value. A great buy for the person looking for a real sports car. R. Young, Ext. 590

1958 MORRIS MINOR - convertible. Excell. cond. Must sell, leaving country. New top and tires. R&h. Ext. 2196.

1954 CHEVROLET - Belaire. 2 dr. sedan. Good running condition. R&h. \$325. Ext. 2208, G. Woodson.

1959 CHEVROLET - Belaire. 2 dr. sedan. 6 cyl. R&h. Light blue. Excellent running condition. White walls. \$1700. G. Woodson, Ext. 2208.

HOUSE - 6 rooms with built up patio on 100 X 150 wooded lot. Nice locality in South Country Shores. Nearby marina for boating enthusiasts. \$15,500. 132 Southern Blvd., E. Patchogue. GRover 5-1254.

HOUSE - 7 rm. split level on wooded half acre lot. Fireplace, private beach rights. SHoreham 4-9635 after 5:30.

HOUSE - 3 bedroom ranch, Smithtown, non-development, wooded 1/2 acre. S. Rottenberg, Ext. 458.

HOUSE - Center Moriches, 7 Shirley St. 3 bedroom ranch with 12' X 12' breezeway and garage on fully landscaped 150' X 235' and vegetable garden. L shaped living-dining rm. U shaped kitchen, built in wall oven and gas table top range. Full finished cellar with utilities inclosed. Oil-hot air furnace with ducts, automatic humidifier and summer cooling. Gas hot water. Washer and dryer. Alum. storm windows and screens. Asking \$19,000. S. Garrett, Ext. 2123 or ATLantic 4-1002.

HOUSE - Cape Cod in N. Patchogue. 2 bed-rooms, l. r., kitchen, tile bath, foyer, on main floor. Expansion attic - insul. plus floor - used as 1 g. bedroom. 2 car garage, 2 cesspools,

large doghouse, flower bushes. Cyclone fence surrounds all. Maple shade trees. Lot 50' X 123'. Purchase with or without fence - priced accordingly. GRover 5-2876.

BOAT - 1956 15 ft. Barbour Vacationer with walk through, 30 h.p. Evinrude motor, excellent condition, ready to go, steering wheel and controls, running lights, canvas cover, auto. bilge bailer. STony Brook 7-1638.

TV SETS - one 21 in. Muntz, \$35. One 21 in. Zenith, \$40. Ext. 2348.

KIRBY VACUUM CLEANER - several attachments, good condition. \$40. Also 12 1/2 inch Muntz TV, needs repair, table model, \$10. Ed Potter, Ext. 2456.

STROLLER - collapsible, alum., good cond., \$3. Also elec. baby bottle sterilizer, \$3. Otto, Ext. 2222.

2 PIECE SECTIONAL SOFA - also floor lamp, both 2 yrs. old. Any reasonable offer accepted. Call Brussel, Ext. 429.

5 VENETIAN BLINDS - 36 in. wide, white plastic and metal, excell. cond. K. Fuchel, Ext. 415 or ATLantic 9 1631.

IRRIGATION PIPE - 300 feet, 20 foot length, all 1 in. galvanized (clean) with couplings and brass nozzles. \$25 takes all or \$2.00 per 20 ft. length. W. Kalinowski, Ext. 2129 or BELLport 7-1474 J evenings or all day on week-ends.

GIRL'S BIKE - 24 in. Schwinn, pink and white, excell. cond. Orig. cost \$70, selling price, \$25. GRover 5-2629.

ROTARY MOWER - new 20 in. Jacobsen. 2 cys., 2 1/4 h.p. Has everything! Used 3 times. \$90. Call Port Jefferson 8-0131 W after 6:00 P.M.

WOMAN'S SWIM SUIT - size 9-10. Multi-color one-piece crinkled cotton, Jantzen brand. Worn only once. Will sell for \$5. YAp-hank 4-6555.

ELECTRIC RANGE - GE. 2 yrs. old, clean, double oven, timer, etc. M. Hillman, Ext. 779, or EMerson 3-6787.

FOUND

Call Personnel Services, Ext. 2107.

CAR KEYS - for car from Washington State. Found in apt. area.

MAN'S WRIST WATCH - Swiss. Found outside cafeteria.

WANTED

OLD ROWBOAT - 10 1/2 ft. Seaworthy enough to carry wife and 2 children across creek. S. Earle, Ext. 591.

LARGE WOODEN BOX - or footlocker for shipment overseas. C. Broertjes, Bio, Ext. 397 or after 5 p.m. Ext. 537.

BOAT TRAILER - 2 wheel for 14 ft. boat. Tee-Nee, etc., Ext. 2316.

PLAY PEN - and baby stroller. B. Goodman, Ext. 634.

CAR POOLS

Two drivers wish to join existing car pool from Blue Point. M. Hillman, Ext. 779.