

*the Bulletin Board*

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## BIOLOGY SUMMER CONFERENCE

The 14th annual summer conference sponsored by the Biology Department was held June 5-7. The theme of the symposium, "Fundamental Aspects of Radiosensitivity," attracted more than 100 participants from various parts of the U.S. and other countries. Papers were presented on radiosensitivity at the molecular level, cellular and tissue levels, mammalian and plant responses to radiation, and the nuclear factors affecting radiosensitivity. Printed reproductions of the papers will be available in about six months.

A similar symposium topic was used several years ago, but the accumulation of new ideas and data deemed a repetition beneficial. Questions which were discussed dealt mainly with the factors that control or influence radiosensitivity.

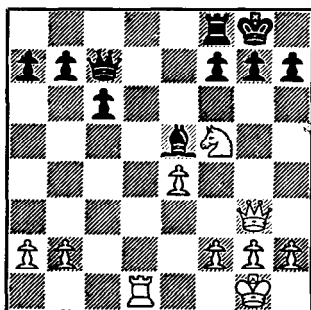
## ORDER BLANKS AGAIN AVAILABLE

The demand at Personnel Services for seat belt order forms was great enough to exhaust the original supply. We have now replenished the supply. Samples of belts and colors may be examined at Personnel Services. The supplier of the belts tells us that as of last week BNL people had purchased over 100 belts.

Most experts agree with the National Safety Council, the U.S. Department of Health, Education & Welfare and the American Medical Association whose report states, "the automotive seat belt is the most effective single item of protective equipment available to reduce the toll of traffic injuries and deaths."

## CHess PROBLEM

In this week's problem the positions are almost even. Black's position is a little better, but it is white's move, and its Queen is under attack. How would you play it and who is to win? Answer elsewhere in this week's **BULLETIN BOARD**.



**BROOKHAVEN**  
**HIGH FLUX BEAM RESEARCH REACTOR**  
**PATENT PENDING**



Clarke Williams, Nuclear Engineering Department Chairman, presents a check for \$25 to each of the co-inventors of the Brookhaven High Flux Beam Research Reactor. Left to right are Jack Chernick, Julius Hastings, Joe Hendrie, Clark Williams, Ken Downes, and Herb Kouts.

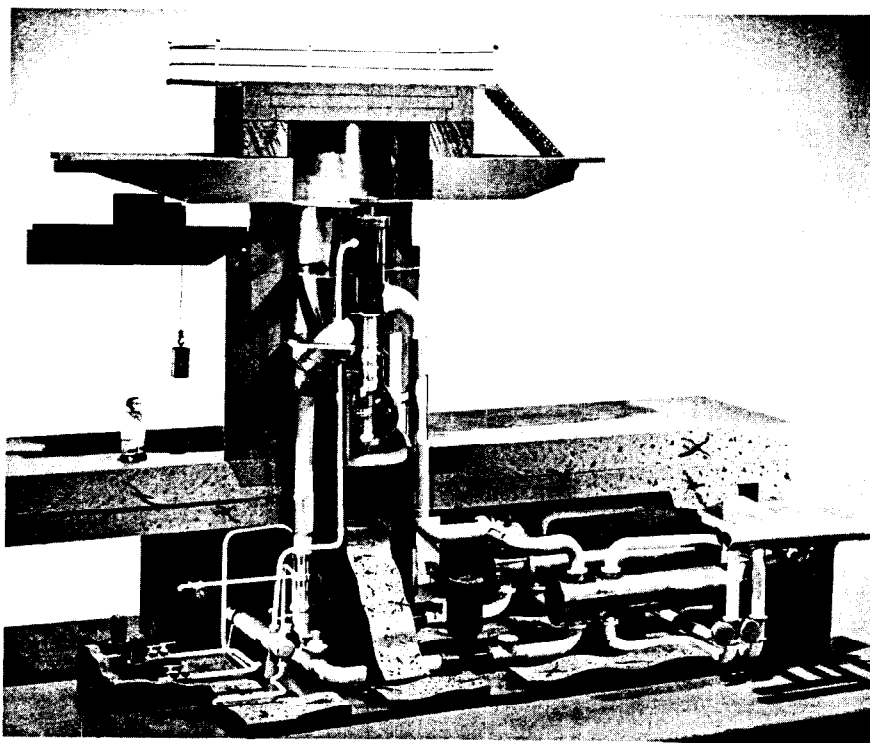
If Brookhaven National Laboratory were in the nuclear reactor manufacturing business, the High Flux Beam Research Reactor (HFBR) would be imprinted with the well-known phrase "Patent Pending." This would be legally correct because an application has been filed with the United States Patent Office for a patent covering the inventive features incorporated in this new research tool. In the top photograph the inventors of this reactor are shown with each one receiving the honorarium paid to every BNL inventor when he signs a patent application for the Atomic Energy Commission. This group of five establishes a BNL record since it is the largest group of co-inventors thus far to apply for a patent here.

The HFBR, on which construction is expected to start during the summer of 1962, will operate at 40 million watts of heat, or twice the power level of the Graphite Research Reactor, housed in the familiar building on the hill. It will be housed in a hemispherical dome located to the southeast of the reactor stack. This new research tool will provide a peak thermal neutron flux at least

(Please turn to Page 2)

**HFBR - continued**

30 times greater and epithermal neutron fluxes about two orders of magnitude larger than those now available at the Graphite Research Reactor. With these greater neutron fluxes, research scientists at BNL will be equipped to carry out experimental programs not presently possible.



Developmental model of the HFBR.

The new reactor will uniquely combine the features of (1) a compact, enriched-uranium core, (2) a heavy water coolant and moderator, distributed to produce a thermal neutron flux which is at a maximum in a zone external to the core, with (3) beam tubes which do not penetrate the core but approach the core tangentially within the zone of the maximum thermal neutron flux, and (4) control rods arranged external to the core to result in minimum perturbation of the thermal neutron flux at the beam tubes.

Because of this unique arrangement of the reactor components it will be possible to provide in each external beam a neutron flux which is without equivalent anywhere. Not only will the external thermal and epithermal neutron fluxes be higher than previous available, but each external beam will be of outstanding purity, with contamination by very high energy neutrons and gamma rays greatly reduced below the level normally found in such beams. To the research scientists, minimum contamination of the thermal neutron flux can often be as important as a higher thermal neutron flux.

**ANSWER TO CHESS PROBLEM**

White wins with N - R 6 check, so black is forced to move its King to Rook 1. Now White makes a good move - Q x B. If Black takes the Queen, White wins a piece and a pawn and the Black Queen by N x P check.

If Black's Rook takes the Knight, White's Rook to Queen 8 check would follow with mate.

**UPTON RIFLE AND PISTOL CLUB**

Both matches with the Hempstead Rifle and Pistol Club were decided by small margins. Our team won the .22 calibre match, 1025 to 1012. High scorers were Colsmann, 262; McClelland, 259; Goodzeit, 258; Johnson, 246. The center fire match was won by Hempstead, 896 to 880. High scorers for our team were McClelland, 254; Colsmann, 243; Diener, 205; Rutherford, 178.

**DANCE HIGHLIGHTS**

It was white carnations for all the ladies who came to our June Moon Dance last Friday. The door prize (a jug of moonshine) was won by Mrs. J. Gil-martin.

The audience at the Charleston contest couldn't make up its mind between the two finalists and decided to award duplicate prizes. Al Guthke from A.G.S. and partner finished first in a tie with a couple, whose names we unfortunately did not get.

The surprise entertainment publicized in the paper turned out to be a hilarious novelty dance routine featuring Joe Cuccia of the Design Group and Carmen Spirio (male member of the Bubble Group). Joe took the lead in tails, goatee and mustache, while Carmen with the aid of necessary make-up and props, danced the female part.

Again, thanks go to the committee who made the dance a reality and a success; Don David, Ginger Moore, Tillie Penney, Carmen Spirio, J. Friedman and Ruth Neuss.

**LADIES TENNIS INSTRUCTIONS**

As a result of your requests, arrangements have been made to offer to our female employees a beginners' course in tennis. Our Mary Lou Buchanan (BNL's Lady Champion) will provide the instruction for the six week course which will be held on Wednesday evenings at 5:15 and 6:00 p.m. on our tennis courts. In the event of rain, classes will be held in the Gymnasium. Girls will be required to register in advance at the Recreation Office. A fee of \$1.00 for the entire course must accompany your registration. Sign up early as the class participation will be limited.

Each girl will be expected to provide her own racket and one can of fresh balls. Registration will be closed as the class fills up or on June 23.

**OPERATION GET-TOGETHER NO. 4**

July 29, 1961, 1 p.m. Until?

Pony Rides — Covered Wagon  
Amusement Rides — Prizes  
Cartoons — Contests  
Music — Dancing Food — Beer

A carnival atmosphere will prevail on Saturday, July 29 when the BERA sponsored Operation Get-Together will be held on-site. The Committee has great plans for the day and many surprises. Tickets will be available shortly. Adults - \$1.50; Children (under 18) - \$.25; Infants free.

WATCH THE BULLETIN BOARD  
FOR FURTHER DETAILS.

**EIGHTH BROOKHAVEN LECTURE**

By DR. OLIVER A. SCHAEFFER  
Chemistry Department

Title: The History  
of Cosmic Rays in Meteorites

Lecture Hall: 8:00 P.M., Wed., June 14

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 Lounge following the lecture.

**POOL SCHEDULE CHANGES**

The pool will remain on its winter evening schedule through Friday, June 16.

TUES. - WED. - FRI. 7:00-10:00 P.M.

THURS. 5:00-10:00 P.M.

Beginning Monday, June 19 the summer schedule of rates and hours will be in effect as follows:

POOL OPEN MONDAY THROUGH FRIDAY  
2:30 P.M. to 9:30 P.M.

**DAILY ADMISSION RATES**

Employee	\$ .35
Family member	.35
Guest	.60

**SEASON TICKETS**

(June 19th to August 31st)

Employee	\$ 5.00
Family	10.00

Tickets will be on sale at the Pool Office.

**DON'T BRING CHILDREN BEFORE 2:15 P.M.** The pool does not open for general admission until 2:30 p.m. daily. Parents bringing children to the Laboratory to swim are requested not to do so before **2:15 p.m.**

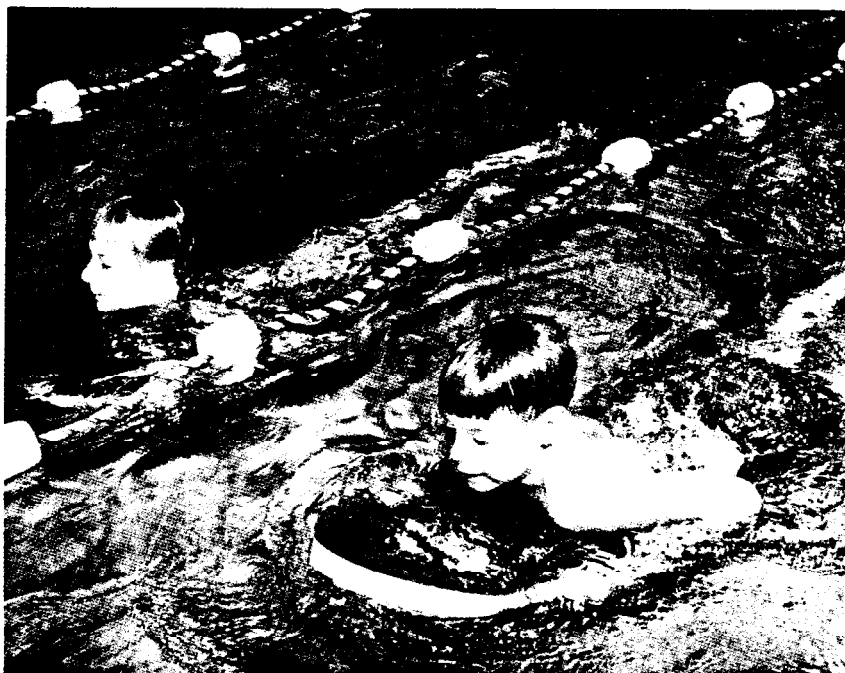
**SAFETY RECORD - CORRECTION**

Last week we reported two disabling accidents at BNL in May and described both accidents. One described an employee falling into a trench. This did happen but no lost time was involved.

The employee who suffered an injury that kept him away from work was scraped on the leg by a piece of floor plate which had been left leaning against a wall. The employee inadvertently jarred the plate and it struck his leg as it fell to the floor.

**CALIBRE .22 RIFLE TOURNAMENT**

The small bore rifle tournament is off to a hot start with Paul Colsmann and Judd Diener tied for first place at 213 out of 250. Al Lukas is pressing close on their heels with 212. Come and join the fun next Thursday.

**CHILDREN'S SWIMMING INSTRUCTION**

Once again classes in swimming will be conducted at our pool for children of Laboratory employees. Certificates of participation will be given by BERA and Red Cross certification will be awarded to those who qualify. The course will begin the week of July 10 and will continue for a seven week period.

**SWIM CLASS**

APPLICATION: Swimming Classes Date: .....  
Name Son/Daughter Age\* Classification

1. ....
2. ....
3. ....
4. ....
5. ....

\*If under eight years old, state height.

I wish to register the above children in the Swimming Classes. I understand that he or she is not permitted to leave the SWIMMING POOL AREA. I agree that he or she may be denied participation in the program for failure to observe the rules.

.....  
(Employee's Signature)

.....  
(Life No.)

.....  
(Extension)

Forward this application with registration fee to the Recreation Office, 3 Center Street, on or before July 1.

**REGISTRATION DEADLINE - JUNE 30**

Please register early! A program will be arranged based on the returned applications. The BULLETIN BOARD will announce the time and schedule of classes.

**Important:** If there are days your child can NOT attend classes, indicate this on application. No registration fees will be refunded.

**SWIMMING CLASSES:** 1:00 - 2:30 p.m.

1. These classes are for all Laboratory employees' children.

2. Children must be eight years of age or four feet in height.

3. Each child will be scheduled for a specific period, probably once a week depending on response.

4. A fee of \$2.00 per child must accompany application. (Make checks payable to BERA).

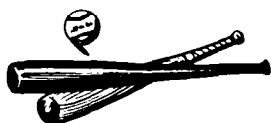
5. Children will report at the Swimming Pool not earlier than 12:50 p.m.

6. Classes will end at 2:30 p.m. Off-site children must remain in the pool area until picked up by parents. On-site children must remain in the pool or proceed directly to apartment area.

7. Children will pay daily admission fee (.35) or present season ticket to enter swimming pool.

8. To the best of your knowledge, select and write in on application the group your child qualifies for: **Beginner**, Non-swimmer or NOT able to swim 40 feet. **Intermediate**, Can swim at least 40 feet. **Swimmer**, Can swim 100 yards.

## SOFTBALL



## BROOKHAVEN LEAGUE

On Monday Health Physics lost another good one to the hard hitting Untouchables. However, Health Physics proved themselves at bat by scoring 17 runs against 23 for the metal men.

Biology dumped a good one to the Dirty Sox in the National League by a score of 14-13.

Tuesday came and Electronics went down to 5th place by losing to the Golden Gloved Potsareebies. The final score was 10-4.

Wednesday E.O.A. took their first league victory over Health Physics by a forfeit. Come on, Health Physics, you can't sell that goose egg in the win column.

Thursday; Untouchables 8 - Medical 9. These two teams were so evenly matched that it took 13 innings of heads-up ball for Medical to latch on a tie for first place.

## League Standings

TEAM	WON	LOST
Untouchables	4	2
Medical	4	2
Biology	2	2
Potsareebies	2	2
Electronics	2	3
E.O.A.	1	3
Health Physics	0	4

## NATIONAL LEAGUE

<b>MONDAY</b>		
Dirty Sox 14	Biology 13	
Red Carsten's gland wasn't enough.		
<b>TUESDAY</b>		
Old Timers 31	Gnats 9	
They're unconscious.		
<b>WEDNESDAY</b>		
Phoubars 4	Pop Ups 1	
Getting better?		
<b>THURSDAY</b>		
Cosmotron 5	Metallurgy 4	
Good one to win - heartbreaker to lose.		

## Standings

TEAM	WON	LOST
Cosmotron	5	1
Metallurgy	4	1
Phoubars	3	2
Dirty Sox	3	2
Old Timers	3	3
Pop Ups	1	2
Gnats	0	5

## BROOKHAVEN DIVERS CLUB

The next meeting of the Brookhaven Divers Club will be held on Monday, June 19, 1961 at 8 p.m. in the Recreation Building. Films of last year's skin diving expeditions will be shown and plans made for future dives. Guests are welcome.

For further information, please contact Jean Lauer, Ext. 2390.

## FISHING NEWS

Reports of some exciting action have come from one of our Laboratory policemen. Sgt. Flynn accompanied by two of his neighbors hit into some excellent fluke fishing at Shinnecock Inlet. Using a spinning rig and squid the trio boated 196 of the flatties by the trolling method. The fish ranged from 1½ - 3 pounds. A six pounder which swam by Flynn's hook was enough reason for him to be planning another trip immediately.

## BILL BOARD

Discount Tickets Available  
Personnel Services, 58 Brookhaven

## Now Playing

MY FAIR LADY  
Mark Hellinger Theatre - N.Y.C.  
ALL THE WAY HOME  
Belasco Theatre - N.Y.C.  
FLOWER DRUM SONG  
Westbury Music Fair

## Coming Attractions

PARADISE ISLAND  
Jones Beach Marine Theatre



**JOSÉ GRECO**  
and his Company of  
**SPANISH DANCERS**  
Singers and Musicians

**JUNE 24**  
**8:30 P.M.**

JOSÉ GRECO AND HIS COMPANY  
OF DANCERS  
Forest Hills Music Festival

## REMINDER — MICROMET

If you haven't picked up your Micromet order yet, why not stop by today? Personnel Services, 58 Brookhaven.

Next time you are tempted to start a heated argument, remember: Anger is only one letter short of danger.

## CLASSIFIED ADS

## FOR SALE

1956 DODGE - 4 dr. auto, 6 cyl, economical on gas. Excell. cond, many extras. \$495. B. Serry, Ext. 488.

1955 MERCURY CONVERTIBLE - r&h, auto. trans. New tires, top. 38,000 mi. Orig. owner. \$600. M. Smilay, Ext. 301-30 or AT 9-1594.

1958 FIAT SPIDER CONVERTIBLE - orig. owner. GR 5-0462 after 5:30.

1953 OLDSMOBILE - r&h, good cond. \$200. Ext. 2540.

21 IN. CONSOLE TELEVISION - new 8-in. Hi Fi speaker \$30. AT 9-1413.

PORTABLE PHONOGRAPH - 3-speed automatic changer, diamond stylus, good tone with 20 LP record albums, light classical and mood music. All for \$30. Royal Portable typewriter, deluxe model with magic margin and adjustable touch, needs minor adjustments, \$15. Play pen with pad, \$8. Roger Caldwell. Ext. 2374 or 501.

PIANO - Studio upright, excellent condition. \$100. Bayport - HR 2-0136.

GASOLINE HEATER - South Wind, new, never used. Also Hawaiian steel guitar, 1 yr. old, like new. Roller skates, Girl's Chicago, size 6½, good cond., wooden case included. 2 ea. walkie-talkies, BC 611, 3.6-4.0 mc. Bob Williams, Ext. 2369.

MATTRESS - 4½ in. foam rubber and matching box spring. Used 1 yr. Also Davis Imperial tennis racquet, 4½ in. med. nylon strung. E. Raka, Ext. 310.

REFRIGERATOR - Frigidaire 9 cu. ft., very good cond., \$75. M. Smilay, Ext. 301-30, or AT 9-1594.

BEDS - 2 sing. \$15. 1 double with chest of drawers, \$10. File cabinet, \$30. Gym set w. glider and slide, \$10. Large book case, \$20. 18 in. Lawnboy mower, very good running cond., \$35. 21 in. Spartan console TV, maple, \$35. AT 9-1413 or AT 9-0706.

SOFA - Lawson type, comfortable and cheap. GR 5-4103.

## FOR RENT

HOUSE - unfurnished. Bayport, 6 rm. ranch, porch, garage, ½ acre, nr. schools, bay, dishwasher. Avail. 6/24/61. B. Serry, Ext. 488.

## WANTED

CAR - 1955-58 std. trans., good cond. A. Hummel, Ext. 628.

APARTMENT - or someone who wishes to share his apt. or house with single admin. staff man. Ext. 2512.

HOUSE - 3-4 bedrm., unfurnished, in Bellport on or about Sept. 1. Ext. 648.

## LOST AND FOUND

FOUND - Leopard print scarf. Also brown notebook, and pair of eyeglasses. Personnel Services, Ext. 2107.

FOUND - headlight rim from sports car. Found June 2 on W. Floyd Pkwy north of exit. Call Personnel Services, Ext. 2107.

LOST - black wallet. If found, please call Personnel Services, Ext. 2107.