

# *the Bulletin Board*

VOLUME 10, NUMBER 25

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## FIFTEENTH BROOKHAVEN LECTURE

By A.O. ALLEN  
CHEMISTRY DEPARTMENT

Title:

WET ELECTRONS -

THE RADIATION CHEMISTRY OF WATER  
Lecture Hall, 8:00 p.m., Wed., March 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 Ext. 2302 before 5:00 p.m., or Ext. 2453 in the evenings.

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

## MANY VISIT BERA ART SHOW

It is estimated that between 400 and 500 people visited the BERA Member's Art Show at the Exhibit Hall on site. The exhibition opened on February 14 and closed last Friday evening.

## A COMPUTER LEARNS TO SEE

The Fourteenth Brookhaven Lecture, entitled, "A Computer Learns to See," was given by Dr. Paul Hough of the Physics Department on February 9. As the title of the lecture implies, ways and means were described to feed visually available information to a computer, analogous to the eye feeding information to the brain. The "thinking process" of modern digital computers, including magnetic core storage, binary system, etc., was illustrated by Dr. Hough. Information stored on photographic film, for instance, is transformed by means of a Flying Spot Digitizer, the "eye," into data that the computer can use. Here a very small spot of light produced mechanically by a fast-revolving disc scans the film. Bright and dark regions are located and corresponding electric signals are fed directly to the computer which is programmed, ideally, to interpret whole arrays of these signals. Applications to track measuring and fitting in bubble chamber pictures were discussed, the ultimate aim here being for computers to recognize and process various track patterns encountered in high energy physics.

## NEW COMPUTER FACILITY

## BEGINS OPERATION



The Applied Mathematics Division formally began operation of the Brookhaven IBM 7090 computer at 9:00 a.m. on Wednesday, February 21. Now, Brookhaven joins many of the other great research laboratories of the United States in having large electronic computer facilities available directly on the laboratory site.

Modern scientific research involves massive numerical and logical manipulations. Scientific investigation often requires complicated statistical analyses involving collecting and processing millions of data. Much of today's research would be impossible without such data processing facilities.

The Brookhaven IBM 7090 installation with its 1401 peripheral system is tailored to meet the demands of scientific research. The computer can remember 32,000 words in its high speed internal core store. Data is transferred into and from the internal memory on 18 magnetic tape transports. Special data channels allow the 7090 to proceed with calculations while the memory is taking in or transmitting data. The data processor can also draw pictures and make other pictorial displays with its cathode-ray tube attachment. Probably one of the most important special features of the device is the Direct Data Connection. Through this connection, the 7090 can serve as the controlling brain for automatized processes. The first of such systems, the Hough-Powell Device, completely removes the burden of bubble chamber film measurement from human operators.

Merely having one of the country's most advanced computation installations won't do much data processing. The 7090 solves problems only after these problems have been arranged in a program. The computer needs to know each step it must perform for the solution. The computer takes in directions and data and presents results under control of an internally stored monitor program. This monitor and the programming aid available from the Applied Math Division, and the IBM Library frees the researcher, who wants immediate solutions, from having to spend his life programming and pushing buttons. We can expect this combination of man and machines to be a significant supporting factor in tomorrow's scientific advancements.

## Arrivals and Departures

### WELCOME TO BNL

AGS	
Edward Grahn	Ext. 2412
PHYSICS	
Austin Gwilt	686
Janet Kirklewski	574
PLANT MAINTENANCE	
Larry Ratcliff	639

### LEAVING BNL

CHEMISTRY	
Ningondappa Biradar	
MEDICAL	
Carolyn Sievers	
PURCHASING	
Greta L. Fischer	

## THEATRE GROUP NOTICE

The next meeting of the Theatre Group will be held on Wednesday, March 7 at 8:30 p.m. in the Recreation Building.

At previous meetings, great interest was stimulated in the following plays: "The Moon is Blue," "Dial M for Murder," and "Arms and the Man." We would like to have your vote for one of these for our next production. Suggestions from the floor will also be accepted for a production.

Remember - this is your group and your interest will keep it active. Come on out and give us your ideas and your vote for a production on March 7 at 8:30 p.m.

## UPTON RIFLE—PISTOL CLUB

The monthly meeting of the Upton Rifle - Pistol Club will be held on Thursday, March 1, at the Recreation Center at 8:00 p.m. A movie, "Trick Shooting," will be shown.

The pistol shooters, members of the East End League, have finished their league activities for this year and will have a dinner meeting at the Suffolk Air Force Base on Tuesday, March 6.

## KARL SCHRAG EXHIBIT

A collection of paintings, gouaches and drawings by Karl Schrag is on exhibit (to March 10) at the Kraushaar Galleries, 1055 Madison Avenue, New York City. Mr. Schrag was one of the artists represented in the collection of paintings and sculpture lent by the Kraushaar Galleries for the Third Annual Brookhaven Art Exhibit last November.

## BERA FILM SERIES

### OTHELLO

March 1 Lecture Hall 8:30 p.m.

As an actor, Orson Welles plays the tragic Moore with artistry and perception. As a director who understands William Shakespeare, Welles has produced a motion picture with taste and imagination. Desdemona is excellently portrayed by Suzanne Cloutier. Othello is a great classic and Welles has made it a great motion picture.

## BROOKHAVEN DIVERS CLUB

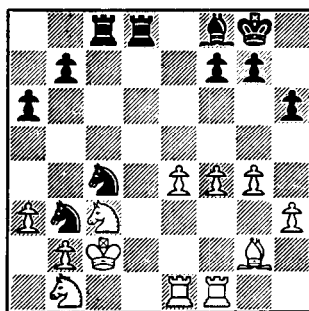
At the last meeting of the Divers Club the 1962 officers were elected. Bob Young and Jean Lauer were re-elected President and Secretary-Treasurer respectively and Eric Forsyth was elected Vice-President.

The next meeting of the Divers Club will be held on Monday, March 5, at 7:30 p.m. at the Pool. There will be a showing of the new underwater color film, "Rendezvous in the Reef" plus practice time in the pool afterwards. All members are urged to attend. All guests are welcome.

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

## CHESS PROBLEM

In this week's problem it is Blacks move and win. How? Answer elsewhere in this week's BULLETIN BOARD.



## DUPLICATE BRIDGE

A duplicate bridge game will be held Thursday, March 1 at 8:00 p.m. in the Rec. Hall. The next major event in the world of bridge at BNL in the Team-of-Four Tournament, to be held April 12. Organize your team now!

## EN GARDE

The Fencing Club is back in action and will meet every Wednesday in the Gym from 5:00 p.m. to 10:00 p.m. Expert instruction and fencing equipment are available. Everyone is welcome.

## SKI CLUB TRIP

The next Ski Trip will take place on the weekend of March 10 and 11. The Club is planning to ski in Sugarbush Valley. A minimum of 25 people must sign up. The next club meeting will be held on Monday, March 5, 8:00 p.m. in the Recreation Hall. If anyone is interested in the trip, please call N. Ashton, Ext. 2532 or G. Raka, Ext. 310.



## BERA BOWLING

### BLUE LEAGUE

The Techs managed to take 3 points from the Needlers. For the winners, Larsen rolled 211/565, Meier 210/529 and Hildenbrand 190/521. For the losers, Sunyar rolled 186/523.

The Alleygators managed to squeeze 4 points from the Nuclides. For the Gators Lambeck rolled 172 and Sucher 169, while the losers had Kukacka rolling 184/512 and Isler 207.

The Skins took 4 points from the Bubble Finks. Skins that helped were Weinman 188/508, Schroeder 209 and Borzi 194. The losers just coasted.

The Splitters took 4 points from the Bubble Boys. For the Splitters Spira rolled 200/558 and Sick rolled 180/511 while the losers just couldn't bubble.

The Sleepers took 4 from the Leftovers. Bauernfiend rolled 230/508, Streeter 191/534, while the losers had Svaboda with a 213/524 and Ruege with 193/508.

### PURPLE LEAGUE

The league leading Phoubars lost a close match, 3-1, to the hard bowling Toppers. Topper's straight shooters were Reany 189/534, Nocar 186/534, and Scatton 171. Phobar's best were Vogt 203/519, Cox 185, and Gardenier 175, all hands checking the score of the last game after the anchor men flipped their anchors.

The Designers took 3 points from the cellar Hopefuls, the latter getting together to win one game. Designers rolling were Chirco 175/484, Roecklein 171, and Cuccia 162. Hopefuls together were Sundberg 191/515, Hanson 164, 162 and Thomson a wee 82.

Fiscal's Bohn and Coughlin, back in the line up after being absent since last year, were greeted with a hearty welcome by their teammates and the Scotchies. The latter, then with a display of some classy bowling, swept the match 4-0. Classy Scotchies were Cermak 195/503, Galen 183/485, and Pontieri 179. Fiscal's best were Bohn 195 and Coughlin 178.

The hot Bowl Aids banged the pins around on the Woodbutcher's to take the match, 3-1. This loss banged the Woodbutchers right out of 2nd place. Bowl Aids with the bang were Walsh 189/488, Sawyer 161 and McIver 160.

(Continued on page 4)

## BERA BUYS BOX SEATS FOR NEW YORK METS BASEBALL GAMES

BERA has recently purchased a box of four seats for the home games of the National League's new Baseball team, The New York Mets, at the Polo Grounds. By making our arrangements early, we were able to secure a choice location - box between home plate and third base. The seats were bought to provide another service to our employees by making the tickets for excellent seats available for sale right here at the Recreation Office.

Beginning March 1, orders for tickets (accompanied with cash) will be accepted for 38 playing dates which include opening game, **all** the **night** games, **all** the **Sunday** games and one holiday game. Tickets will be priced at \$3.50 each.

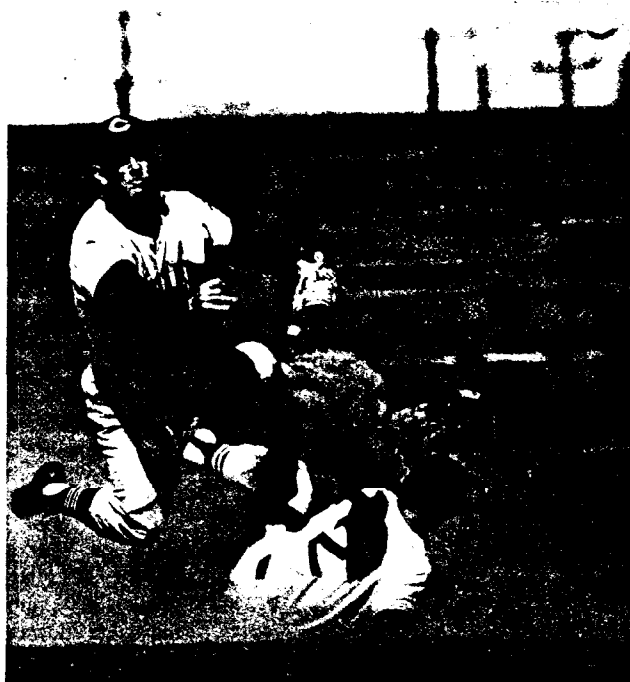
Don't be disappointed! Don't wait until the last minute! Make your plans now! Purchase your tickets early for the date of your choice. We have only a limited supply which will be sold on a first come, first served basis.

Employees are urged to follow the "Ticket Practices" outlined below so that the box can be enjoyed by as many people as possible.

### TICKET PRACTICES

1. The Recreation Office will be open for ticket sales and information Wednesday, Thursday and Friday, 1:00 p.m. to 5:00 p.m.
2. Tickets are intended for the employee and members of his immediate family. It is understood a single employee might wish to purchase an additional ticket for his or her escort.
3. Employees may purchase either 2 or 4 tickets.
4. Tickets will not be sold to any one employee for more than 2 games in advance.\* An employee who has purchased tickets for 2 games in advance will be permitted to buy additional tickets only after he has attended at least one of his games. In other words, tickets will not be sold to anyone currently in possession of tickets for 2 unplayed games.
5. Tickets will not be returnable or accepted for refund unless the game is postponed or rained out.
6. If a game is rained out or postponed:
  - a) Refund will be made at the Recreation Office upon presentation of ticket.
  - b) Ticket holder may have preference on the rescheduled game if he requests same no later than one week after the cancellation.

\*If there are tickets which have not been sold one week before game time they will be sold regardless of the number of tickets already in the purchasers possession.



### TICKETS ON SALE MARCH 1 FOR GAMES LISTED BELOW Opening day - 23 nights - 13 Sundays - 1 Holiday

April 13	Pittsburgh, Friday.....	Opener
April 15	Pittsburgh, Doubleheader.....	Sunday
April 29	Philadelphia, Doubleheader.....	Sunday
May 1	Cincinnati, Tuesday.....	Nite
May 11	Milwaukee, Friday.....	Nite
May 13	Milwaukee.....	Sunday
May 15	Chicago, Tuesday.....	Nite
May 30	Los Angeles, Doubleheader, Wednesday.....	Holiday
May 31	Los Angeles, Thursday.....	Nite
June 1	San Francisco, Friday.....	Nite
June 3	San Francisco.....	Sunday
June 15	Chicago, Friday.....	Nite
June 17	Chicago, Doubleheader.....	Sunday
June 18	Milwaukee, Monday.....	Nite
June 22	Houston, Friday.....	Nite
June 24	Houston, Doubleheader.....	Sunday
July 6	St. Louis, Friday.....	Nite
July 8	St. Louis.....	Sunday
July 12	Los Angeles, Thursday.....	Nite
July 13	Los Angeles, Friday.....	Nite
July 15	San Francisco, Doubleheader.....	Sunday
July 16	San Francisco, Monday.....	Nite
July 19	Pittsburgh, Thursday.....	Nite
Aug. 1	Philadelphia, Wednesday.....	Nite
Aug. 3	Cincinnati, Friday.....	Nite
Aug. 5	Cincinnati.....	Sunday
Aug. 17	St. Louis, Friday.....	Nite
Aug. 19	St. Louis.....	Sunday
Aug. 20	Pittsburgh, Monday.....	Nite
Aug. 22	San Francisco, Wednesday.....	Nite
Aug. 24	Los Angeles, Friday.....	Nite
Aug. 26	Los Angeles.....	Sunday
Sept. 10	Milwaukee, Monday.....	Nite
Sept. 14	Cincinnati, Friday.....	Nite
Sept. 16	Cincinnati.....	Sunday
Sept. 18	Houston, Tuesday.....	Nite
Sept. 21	Chicago, Friday.....	Nite
Sept. 23	Chicago.....	Sunday

**BOWLING CONTINUED —****RED LEAGUE**

Entering the final round the Red League standings and average handicaps indicate a close race.

	WON	HANDICAP
Utilities	55½	148
Biology	51	220
Cosmos	45½	240
H.P. Ins	44	198
Downunders	37	191
Ah So's	36	217
H.P. Outs	34	294
Mecca	33	250

According to "Dofester," the H.P. Outs are favored. Last week they rolled three games over 1000, lead by Caldwell, Champagne and Faust all rolling 30 pins per game over their average. Ah So's were ready to give them their shirts. The Utilities with Connelly's 229/606 and Iarocci's 209/558 turned back Biology 4-0. Mecca with 100 pins advantage take on the Utilities next. So?

At the beginning of the evening Bud Pollock was given a triplicate award (132 three times). He was so overcome he couldn't talk so the league had a quiet evening.

**SOLUTION TO CHESS PROBLEM**

WHITE	BLACK
1. ....	1. N on B5 to R4 followed by
2. Any move if 2N to Q2.	2. N to R8 check. Etc. or 2R x N check.

**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**

1960 CORVAIR 700 - 4 dr. sedan, 34,000 mi. stick shift. M. Greene, Ext. 770 or AT 6-0237.

1953 CHEVY - Hard top. J. Di Cola, Ext. 772.

1950 FORD - As is, runs. No offer unreasonable. Best price gets all. Ext. 648.

1956 FORD V8 - 4 dr., hardtop, blue & white, auto. trans., power steering, power brakes, good tires, new battery, new brakes. Steal at \$395. SE 2-8830 after 5:30 p.m.

DUTCH COLONIAL HOUSE - Patchogue, 6 rooms, 3 bedrooms, 20' liv. room., cypress paneled sunken din. rm., 2 baths, oil/hw heat. 60' by 183' plot with beau. shade trees, 2-car garage. Close to village, low taxes. L. Van Kollem, Ext. 445.

HOUSE - Contemporary ranch, 100'x160' plot, aluminum storm windows & doors, blk. top driveway, full cellar, hot water heat, gutters & leaders, 3 bedrooms, 6 rooms total. Screened porch. \$4000 and you take the mortgage. If interested call E. Heins, Ext. 464 or AT 1-7469 after 6:00 p.m.

LYMAN RUNABOUT - 15'5", complete with full length boat cover, navy top with side curtains and compass. Navy top, steering wheel and compass new last year. \$350. Lucas, Ext. 2193.

REVCO FREEZER - Chest type, 15 cu. ft. cap. Excell. cond. \$150. YA 4-6790.

TYPEWRITER - L.C. Smith, standard model. Aged, but in good working order. Eye it, try it and you'll buy it. \$20. W. Dunnigan, Ext. 445.

1956 EVINRUDE - 30 hp motor. Very clean. \$150. E. Heins, Ext. 464.

BRIDGE LESSONS - At practically no cost. So you don't know an ace from a deuce? It doesn't matter! Learn to play bridge by taking some easy lessons one night a week. Dates and times to be arranged. Call Sandy Wagner, Bridge Club Chairman, on Ext. 618.

SPEAKERS - 2 Lafayette SK 128, 8 in. speakers in mahogany satellite enclosures. (Size: 14 in. w, 10½ in. h, 7½ in. d.) Great for wall of party room. G. Black, Ext. 628.

**FOR RENT**

APARTMENT - 3½ rooms in Patchogue Garden Apartments for sub-lease from May, 1962 until Dec. 31, 1962. Rent is \$95/mo. After that you may lease from landlord. GR 5-1744 after 6:00 p.m.

HOUSE - To rent or buy, Bellport-Brookhaven village area, three or more bedrooms. V. Spinrad, Ext. 503.

**WANTED**

BROTHERS KNITTING MACHINE - Reasonable cond. & price. E. Heins, Ext. 464.

SNOW TIRES - Good cond. Size 760-15. Ext. 604 or 2410.

HOUSE - Unfurnished, 2 bedrms., located in Riverhead School District. Ext. 2112 or JA 2-4892.

CAMPING EQUIPMENT - 1 drop or fly sheet. 2 sleeping bag covers and/or bed comforters or blankets. Ext. 2351.

PICNIC MOVIES - To borrow. Have you taken home movies of any of our Operation Get-Together's? If so, we'd appreciate borrowing them for a short while. Please call George Sabine, Rec. Office, Ext. 391.

STRING BASS - In good cond. Also, tenor banjo. Reasonable. G. Loesch, Ext. 476.

**LOST & FOUND**

WOOL GLOVES - Found. Tan leather & wool gloves. Personnel Services, Ext. 2107.

WOOL HAT - Maroon scarf, 2 plaid scarfs. Found at Lecture Hall. Personnel Services, Ext. 2107.