

the Bulletin Board

VOLUME 18, NUMBER 46

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BNL SHORT SUBJECTS

Woman's Bridge Group

This group meets again Tuesday evening, September 28 at the Center, 8-11:30 p.m. All welcome. **Newcomers:** don't hesitate, it's just pleasant, social bridge.

A.M. Coffee Meetings Resume - Newcomers and Oldtimers

Meet your neighbors in the Apartment Area, Area Chairmen, and friends from off-site over coffee & danish (fruit juice for the children, so bring them along) in the Apartment Area Recreation Building, Monday, September 27, 10:30 a.m. till noon.

Adult Education Programs

Anyone interested in Patchogue-Medford Public Schools Adult Education Program can obtain booklet by calling Joan Webster, Ext. 493.

Sports Car Event

The Brookhaven Laboratory Auto Sports and Touring Club will conduct a sports car event on Sunday, 26 September, 1965. The event is open to club members, BNL employees and guests.

Registration will commence at 10:00 a.m. First car off at 11:15 a.m. Mufflers and seat belts are required as part of the technical inspection of the car.

Newcomers to sports car events are most welcome. Club members will be available to provide all the guidance and instruction you may desire. The general location of the event will be in the vicinity of the warehouse area along S. Princeton Street. See you then?? Further info - Dick Jones, Ext. 591.

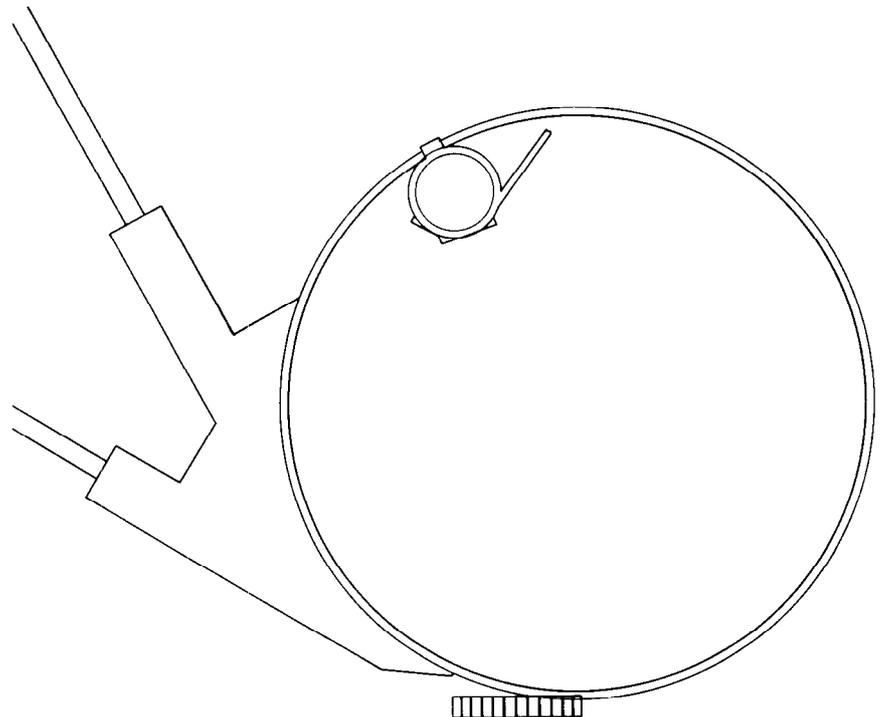
Cooking Exchange Group

The Cooking Exchange Group will start in October on Thursdays from 3:00 to 5:00 p.m. Exact dates will be announced in a later Bulletin Board.

Camera Club Meets Thursday

The Camera Club will meet Thursday evening, September 30, at 8:30 p.m. Bring your ideas for scheduling future meetings and activities. An election of officers will be held. The meeting will be held at the Recreation Hall in the Apartment Area. See you there!!

BNL SURVIVES FIRST ELIMINATION FOR AEC'S 200-BEV ACCELERATOR



200-BEV GIANT — The positive particle accelerator presently in the limelight is a mile in diameter and more than three miles in circumference. In the upper left of the ring is a linear accelerator and a circular booster accelerator drawn in comparative size. The booster unit is only a shade smaller than BNL's AGS.

Like so many half-backs who don't survive the cuts when a football team trims down to fighting strength, some 70 sites have been eliminated from the Atomic Energy Commission's list of possible locations for a proposed 200-Billion-Electron-Volt positive particle accelerator. The 200 BeV machine would be located in a new National Accelerator Laboratory. The remaining 85 candidates, including BNL, are scattered in 43 states. The AEC has asked the National Academy of Sciences to evaluate the remaining proposals, and it is expected that it will be well into 1966 before a site is chosen.

The 200-BeV device, costing some \$300 million to build, promises to be one of the richest scientific plums to come down the pike. In addition to supplying many thousands of construction jobs, it will cost \$60 million a year to run, require the services of at least 2,300 scientists and technicians to operate it, and is expected to attract at least 1,000 visiting scientists per year.

Small Boat Handling Classes

Free classes in piloting and small boat handling will be given in Hampton Bays High School starting September 28 at 7:30 p.m.; and in Riverhead High School starting September 29 at 7:30 p.m. Instruction is given by the Peconic Bay Power Squadron.

Rifle and Pistol Club

This year the small bore rifle team again qualified as a regional award winner in the National Industrial Recreational Association tournament. The team took third place regionally and fifteenth place in the national rankings.

JERRY WEISS TAKES BGA OPEN

The final round of the BGA open was played on Tuesday, September 14. All five flight winners played together as a fivesome.

After the first nine holes, Jerry Weiss was leading Len Galanter by one stroke and Joe Friedes and Leon Meshel were two strokes back, Bob Brown, having had difficulty on the first two holes, was 5 strokes behind the leader.

The real turning point in the match occurred on the 11th hole (518 yds. - par 5) when Weiss birdied and took a 5 stroke lead.

The final standings had Len Galanter in second place and one stroke behind him were Joe Friedes and Leon Meshel, Bob Brown finishing fifth.

FISH TALES



The rod tips up to James Gallagher of Nuclear Engineering for the Largest Fish Bi-monthly Award, boating a nice 8 lb. 1 oz. blackfish.

Rodolph Hodor of Physics, fishing off Port Jefferson, hooked a 25 lb. striper with a live eel impaled on a hook allowed to free-swim.

Fisherman and the fish took the average award. The mullet run has begun, which means the fall bass season has sprung to life. Fine reports are echoing from shore to shore as the quest for the big one continues.

Our final leg of the contest will end soon, so get to the beaches and enter your catch. Remember, average or great participate!

NATHANS TO EXPLORE MAGNETISM AS BROOKHAVEN LECTURES BEGIN

The Roman Claudian believed that a magnet drew iron to itself in order to gather "nourishment," and even the 17th Century philosopher Descartes, who founded the principles of analytic geometry, was off base when it came to understanding magnetic properties. He thought that magnetic substances were covered by tiny screws, whose constant rotations drew and locked themselves into innumerable threaded holes in the surface of iron.

Today, thanks to research reactors including such devices as the almost completed HFBR, a beam of thermal neutrons is used as a probe to explore the magnetic properties of certain atoms and answer such questions as: What is the origin of the magnetic interactions in magnetically ordered systems - i.e., the lattice of a lodestone?

Dr. Robert Nathans of BNL's Physics Department will describe the use of neutrons to determine the microscopic pattern of the magnetization density distribution in the first of the 1965-66 series of Brookhaven lectures. The lecture, entitled "Neutrons as Magnetic Probes," will be given at 8:00 p.m., September 29 at the Lecture Hall.

As stated in the foreword to the published Lectures (which may be obtained by contacting M. Tasso, Ext. 2327), the purpose of the Lectures is "to acquaint the listeners with new developments and ideas not only in their own field, but also in other important fields of science, and to give them a heightened awareness of the aims and potentials of Brookhaven National Laboratory."

Among the monthly Lectures which have been scheduled for the coming year are the following: October - Dr. C.N. Yang, November - Dr. J. Dienes (Physics), December - Dr. H.A. Smith (Biology), January - Dr. E.V. Sayre (Chemistry), February - Dr. L.D. Hamilton (Medical).

The Lectures are organized by a committee which is always grateful for suggestions as to future speakers and topics. The present membership of the committee follows: R.A. Beth (Accelerator), D. Borg (Medical) - Secretary, G. Goldhaber (Physics), C.H.W. Hirs (Biology), A. Thorndike (Physics), A. Pas- kin (Nuclear Engineering), J. Pincus (Mathematics), M.J. Rosenblum (Instrumentation) and M. Wolfsberg (Chemistry) - Chairman.

A buffet supper (\$3.00) 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 evening. Refreshments will be available in the Research Staff Lobby following the lecture.

GSA SELLING 4 TRUCKS

Four Pick-Up Trucks, located in the rear lot of Building T-87, will be available for Public Sale.

Inspection will be permitted from September 27th, to October 1st, between the hours of 9 a.m. and 4 p.m. Bid opening will be held on October 5th, 1965.

This sale will be a Spot Bid Sale conducted by General Services Administration. For further information, call Mrs. Jackson, Ext. 2509.

COOKING GROUP MAKES NEWS

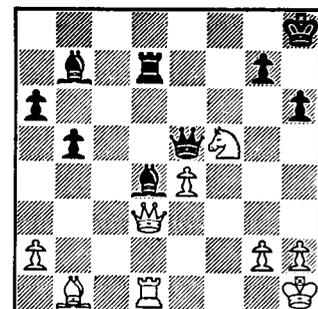


Members of the Cooking Exchange Group, along with Mrs. Frances Johnson, Society Editor of the Long Island Advance, (top row, third from left), review the new cook book put out by the group containing 400 recipes from 23 countries, which is now available at the Recreation office for only \$2.00. The Long Island Advance is going to do a feature story on the group in an upcoming issue. Bottom l. to r. are: Monica Friedes; Joan Webster, Secty. of Hospitality Committee; Margaret Williams, General Chairman of Hospitality Committee. Top l. to r. are: Joy Johnson; Jean Barge.

CHESS PROBLEM

In this week's problem, Black is about to lose a piece, and ready to resign but hold on . . . have another look.

From the given position in the diagram it is Black's move and win.



BERA OPERA CLUB SEASON OPENS

It's Opera time and the BNL Opera Club is open for business. The purpose of the club is to obtain tickets for Metropolitan Opera performances under the auspices of the Metropolitan Opera Guild Educational Division.

Obtaining tickets to the opera of your choice, for the seat you prefer, on the date you would like to attend, is often an impossible task. However, through the Guild we are able to satisfy a good portion of your requests. Only a certain number of tickets are set aside for purchase by club members. It is therefore necessary to request tickets at *least three weeks* in advance. The further in advance the request is made, the more chance you have of obtaining tickets.

Requests for tickets (accompanied by check) will be taken at the Recreation Office, 3 Center Street, daily from 9:00 a.m. to 1:00 p.m. Price list and seating arrangements are on hand. However, requests for specific seat locations *cannot* be filled. Requests will be accepted for only *general* seating locations.

The club is entitled to purchase 50 discount tickets for seats \$6.00 and less. These tickets are distributed as *orders are filled*, not necessarily in the order they are placed. There can be no cancellations once order has been placed.

WHEN REQUESTING TICKETS INDICATE:

1. LOCATION PREFERRED. (Orchestra, Grand Tier, Opera Club, Opera Guild, Dress Circle Balcony, Family Circle)
2. TOP PRICE YOU WILL PAY.
3. SECOND CHOICE.
4. WHETHER YOU WILL ACCEPT A SUBSTITUTE LOCATION.

SEPTEMBER	16 Don Carlo	8 Fanciulla Del West (Mat.)	28 Il Trovatore
27 Faust (non-Sub.)	17 L'Elisir D'Amore	Fidelio (Eve.)	MARCH
28 Pique Dame	18 Manon Lescaut	9 Lucia (Benefit)	1 Ballo in Maschera
29 La Boheme	19 Faust	10 Aida	2 Barbieri Di Siviglia
30 Lucia	20 Madama Butterfly (Mat.)	11 La Boheme (non-Sub.)	3 Rigoletto
OCTOBER	Pique Dame (Eve.)	12 Fidelio	4 Manon Lescaut
1 Arabella	22 Don Carlo	13 Madama Butterfly	5 L'Elisir D'Amore (Mat.)
2 No Matinee	23 Arabella	14 Salome	Falstaff (Eve.)
Faust (Eve.)	24 Pique Dame	15 Pique Dame (Mat.)	7 Andrea Chenier
4 Pique Dame	25 Il Trovatore	Tosca (Eve.)	8 Don Giovanni
5 La Boheme	26 Madama Butterfly	17 Fanciulla Del West	9 Falstaff
6 Faust	27 L'Elisir D'Amore (Mat.)	18 La Perichole	10 Parsifal
7 Don Carlo	Faust (Eve. non-Sub.)	19 Salome	11 Rigoletto
8 La Boheme	29 Arabella	20 Manon Lescaut	12 Manon Lescaut (Mat.)
9 Lucia (Mat.)	30 L'Elisir D'Amore	21 Samson et Dalila	Barbieri Di Siviglia (Eve.-Ben.)
Arabella (Eve.)	DECEMBER	22 Fidelio (Mat.)	13 Aida (non-Sub.)
11 La Boheme	1 Fanciulla Del West	Aida (Eve.)	14 Andrea Chenier
12 Faust	2 Faust	24 La Boheme	15 Falstaff
13 Madama Butterfly	3 Pique Dame	25 Tosca	16 Parsifal
14 Arabella	4 Il Trovatore (Mat.)	26 Aida	17 Don Giovanni
15 Don Carlo	La Boheme (Eve.-Ben.)	27 Fidelio	18 Fanciulla Del West
16 Pique Dame (Mat.)	6 Samson et Dalila	28 Salome	19 Barbieri Di Siviglia (Mat.)
Lucia (Eve.)	7 Fanciulla Del West	29 Don Giovanni (Mat.)	Tannhaeuser (Eve.)
18 Madama Butterfly	8 Arabella	Manon Lescaut (Eve.)	21 L'Elisir D'Amore
19 Arabella	9 Faust	30 Andrea Chenier (Guild Ben.)	22 Andrea Chenier
20 Il Trovatore	10 La Boheme	31 Fidelio	23 Tannhaeuser
21 Pique Dame	11 Don Carlo (Mat.)	FEBRUARY	24 Falstaff
22 Lucia	L'Elisir D'Amore (Eve.)	1 Don Giovanni	25 Ballo in Maschera
23 Faust (Mat.)	13 Lucia	2 La Perichole	26 Tannhaeuser (Mat.)
La Boheme (Eve.)	14 La Boheme	3 Tosca	Barbieri Di Siviglia (Eve.)
25 Manon Lescaut	15 Samson et Dalila	4 Don Giovanni	27 Ballet (non-Sub.)
26 Il Trovatore	16 L'Elisir D'Amore	6 Andrea Chenier (Mat.)	28 Rigoletto
27 Lucia	17 Fanciulla Del West	Salome (Eve.)	29 Tannhaeuser
28 La Boheme	18 Arabella (Mat.)	7 Ballo in Maschera	30 Tosca
29 Falstaff	La Perichole (Eve.-Ben.)	8 Salome	31 Barbieri Di Siviglia
30 Madama Butterfly (Mat.)	20 Samson et Dalila	9 Fidelio	APRIL
Don Carlo (Eve.)	21 Tosca	10 Andrea Chenier	1 Fidelio
NOVEMBER	22 Faust	11 Don Giovanni	2 Parsifal (Mat.)
1 Faust	23 Fanciulla Del West	12 Aida (Mat.)	Tosca (Eve. non-Sub.)
2 Lucia	24 L'Elisir D'Amore	Fanciulla Del West (Eve.)	4 Tannhaeuser
3 Manon Lescaut	25 La Perichole (Mat.)	14 Don Giovanni	5 Madama Butterfly
4 Don Carlo	Il Trovatore (Eve.)	15 Andrea Chenier	6 Ballo in Maschera
5 Falstaff	27 Tosca	16 Rigoletto	7 Fidelio
6 La Boheme (Mat.)	28 Pique Dame	17 Falstaff	8 Parsifal (Mat. non-Sub.-Good Fr.)
Il Trovatore (Eve.-Ben.)	29 Aida (non-Sub.)	18 Aida	Barbieri Di Siviglia (Eve.)
8 Faust	30 La Boheme (non-Sub.)	19 Lucia (Mat.)	9 Faust (Mat.)
9 Il Trovatore	31 La Perichole (non-Sub.)	Ballo in Maschera (Eve.)	Rigoletto (Eve.)
10 Don Carlo	JANUARY	21 Don Giovanni	11 Tosca
11 La Boheme	1 Samson et Dalila (Mat.)	22 Rigoletto	12 Fidelio
12 L'Elisir D'Amore	Madama Butterfly (Eve.)	23 Falstaff	13 Andrea Chenier
13 Manon Lescaut (Mat.)	3 Aida	24 Fanciulla Del West	14 Aida
Madama Butterfly	4 Samson et Dalila	25 Barbieri Di Siviglia	15 Tannhaeuser
(Eve. non-Sub.)	5 Madama Butterfly	Ballo in Maschera (Mat.)	16 La Boheme (Mat.)
15 Il Trovatore	6 Pique Dame	Tosca (Eve. non-Sub.)	To Be Announced (Eve.non-Sub.)
	7 Tosca		

CLASSIFIED ADS**FOR SALE**

1964 CHEVROLET - Impala, convertible, V-8, 190 hp, auto. trans., r/h, comfort and convenience accessory group. 5 new tires. Best offer over \$1700. PE 4-5393.

1964 CHEVY II - Nova 400, 2-dr. sedan. 6 cyl., 155 hp, auto. trans., r/h. Good tires plus 2 snow tires. Best offer over \$1500. PE 4-5393.

1956 DE SOTO - Runs well, good tires. \$30. Ext. 2474.

1964 COMET - Galiente, blue with white interior, auto. trans., r/h, excel. cond. Priced for quick sale. John, Ext. 323.

1955 OLDSMOBILE 88 - 4-dr., auto. trans., fine running cond. \$125. Bill, Ext. 445 or MO 9-3293.

1959 ZEPHER - (English Ford) Good running cond., excel. body. \$150. A. Campo, Ext. 2351 or SH 4-5046 after 5.

1960 RAMBLER - American deLuxe. 2-dr. sedan w/std. trans. Excel. running cond., uses no oil. Very clean interior. \$200. A. Glines, Ext. 2793.

1960 PONTIAC - Convertible, full power including windows. New tires, muffler, top, shocks, snow tires included. Excel. cond. AT 6-9260.

1959 CHEVROLET - Green, 4-dr. w/6 cyl. 1961 engine with 5000 mi., std. trans., excel. cond., r/h. WA 9-4339.

1958 CHEVROLET - Convertible, V-8, r/h, auto. trans., w/w, snow tires included with car. Front end new. Excel. running cond., body clean. \$425, firm. HR 2-1078.

1960 CHEVROLET - Impala, 6 cyl., gray-white. \$500. R. Dvorak, Ext. 7232.

1964 CHEVROLET - Biscayne, aqua, 13,000 mi., 6 cyl., std. trans., 2 dr., radio, excel. cond. Orig. price \$2,485, must sell by October before next insurance due. \$1,600. B. Kirkman, Ext. 574 or LT 9-0277 after 6.

1960 AUSTIN-HEALEY SPRITE - Very good mech. cond., clean, good rubber. GR 5-8054 after 7.

1962 CORVAIR - Good cond., new muffler and shocks, \$850. H. Ruderman, Ext. 7614 days or 523 nights.

1956 FORD - Station wagon, 8 cyl., std. trans., r/h, good cond., recently inspected. Ideal as second car companion to a small car. \$135. Gene, Ext. 2554 or SH 4-3945.

1958 CHEVROLET - Station wagon, 8 cyl., auto trans., excel. mech. cond., clean inside and out, 50,000 orig. mileage. Ext. 685.

1950 CHEVROLET - Carry all. Beach equipped. Two 11.00x15 tires, tubes, and wide rim. 281-7665.

1959 VOLKSWAGEN - Microbus, r/h, V.G. Mike, Ext. 323.

1955 CHEVROLET - Bel Air Sport Coupe, std. trans., 6 cyl., inspected, excel. transportation, 4 new tires (2 snow), new battery & extras. \$75. McGrann, Ext. 323.

SOLUTION TO CHESS PROBLEM

Very simple... 1 Bishop to Knight 8.

WASHING MACHINE - Whirlpool, auto., very good cond. Oji, Ext. 2920 or 941-4508 after 6.

LABRADOR RETRIEVER PUPPIES - 1 male, 1 female. Blacks, born April 19, 1965, bred from my own fine breeding stock. Excel. field and bench background. All shots, guaranteed perfect health and sound temperament. Inspection invited, good buy to right person. D. Sieger, GR 5-3195 or Ext. 7182.

PUMP - Peerless Deep Well Jet, 1/2 hp, 110/120 V, pressure switch, 2" pipe jet & foot valve, well head, 20' 1 1/4" suction pipe & couplings. All in excel. cond. \$55. McGrann, Ext. 323.

ELECTRIC LOAD CENTER - 70 amp. with 4 15 amp. circuit breakers. \$5. McGrann, Ext. 323.

TIRE - Simca tire, mounted on wheel, 5.75-15. \$3. Also, 1 yr. old RCA picture tube. \$10. Tony, Ext. 2430.

TIRES - 3 670x15 tires on Ford rims. Good cond. \$25. YA 4-3586 after 6.

SECTIONAL COUCH - 2 pc. \$20. Also, 2 lamps, \$2 ea. 2 blonde end tables and coffee table, \$10. All items as is. R. Kerzner, Ext. 2852 or YA 4-3298.

MISCELLANEOUS - Bunk beds, light oak w/mattresses, ladder and rail, good cond. \$35. Also, 2 four-drawer dressers, 24" wide, stained maple. \$15. K. Brotman, AT 6-9584.

SCUBA TANK - And regulator, Healthways, very good cond. \$30. J. Paul, Ext. 2390 or 475-5196 after 6.

MOVIE CAMERA - Wollensak, 8 mm, turret lens, practically new. \$30. Aronson, Ext. 345.

PISTOL - 1830 period, double barrel percussion pistol. Made in Prague, Austria, 60 caliber, silver inlay on barrels, deep, straight rifling length of bore, all metal parts engraved, 15" long. Excel. cond. \$145. C. Hamill, Ext. 2390 or AN 5-3934.

MISCELLANEOUS - Hoover tank type vacuum cleaner, w/attachments, 6 yrs. old, still works well. \$10. Also, table model TV, RCA about 10 yrs. old. Works well for a while \$10. Both for \$15. D. Christman, Ext. 7731.

BED - Maple single bed, spring-mattress. All in excel. cond., used two months. Cost, \$70. Sell, \$40. C. Ruege, Ext. 451.

BASS GUITAR - Solid body, like new. \$75. Frank, Ext. 451.

FOR RENT

HOUSE - Spacious 3-bedroom house with garage, located in a nice residential section of Patchogue. GR 5-9236 after 5.

APARTMENT - New modern 4-rm. unfurnished apartment located in Lake Ronkonkoma. Available middle of October. All utilities included. JU 5-6269 after 5:00.

FURNISHED ROOM - Attractive, private bath, kitchen privileges, basement & attic storage, garage. Employed mature woman preferred, \$15 per week. AT 6-1326.

BOAT TRAILER - Capable of handling boats up to 20'. GR 5-7275 after 5.

HOUSE - In Westhampton, 4 bedrm. cape, 1 yr. old furnished, built-ins, 2-car garage. Sublease for a few months. Available mid-Sept. J. Baum, Ext. 590 or 288-1833.

WANTED

C.W. POST EVENING STUDENTS - A list of persons attending C.W. Post in the evenings is being accumulated. This list will be useful in starting carpools and for emergency rides, if they're ever needed. This list will be distributed to all who send me their names, Lab address, Lab phone, home town, time and days of the week you attend. L. Picinich, Bldg. 526.

ROOMMATE - Preferably academically minded. Starting Nov. 1 to share completely furnished 4-rm. apt. in Wading River, 10 mi. from Lab. 42.50 includes all utilities except electricity. G. Kirsch, Ext. 2416 or WA 9-4702.

TRAILER - For 2000 lb. twin keel boat. May be flat bed or capable of being altered to take existing steel cradle. Ext. 583.

PROJECTOR - Child's Viewmaster still projector. Sherman, Ext. 2296.

MEMBER - For Woman's Lab bowling team. Low average, high spirits, and young-at-heart gal preferred. Joan, Ext. 552.

GOLF CLUBS - Left handed. Just starting, so just about anything will suffice. Mike, Ext. 7772.

CARPOOLS

WANTED - One congenial driver for carpool starting from Valley Stream or Newbridge Rd. along Southern State Parkway. P. Klewin, Ext. 2745.

DRIVER - Needed for Bellport carpool. Bookless, Ext. 350.

RIDER-DRIVER - In Monday evening carpool to Adelphi Univ., class hours are 6:30-8:30. Leaving from Lab. J. Malament, Ext. 409, or S. Bender, Ext. 2848.

DRIVER - Wishes to join carpool from Medford (Oregon Ave.) area. M. Poole, Ext. 2952.

DRIVER - Wanted to share trip to Brookhaven from So. Syosset area. Flexible arrangements can be made. M. Tainiter, Ext. 2728.

DRIVER - Wishes to form carpool between BNL, Hofstra Univ. & Patchogue on Tuesday and Thursday evenings. I. Lewis, Ext. 2936.

DRIVER - Wanted to complete existing carpool from Babylon area. G. Meinken, Ext. 2200.

DRIVER - In the Babylon-W. Islip area, where there are more BNL employees than in all of Philadelphia, four people ride with us. Why?? We don't know!! Make it five and find out. B. Rodgers, Ext. 7782.

DRIVERS - Want to join new carpool to Brooklyn-Queens south shore via Belt and Southern State Pkwy. S. Senator, Ext. 2980 or CL 1-2138.

WANTED - Students attending Adelphi Suffolk in Oakdale on Tuesday and Thursday evenings wish to form car pool and/or occasional transportation. A. Campo, Ext. 2351.

FOUND

WATCH - Timex, found at Pool.

KEYS - 2, found in Cyclotron Bldg.

WATCH - Man's, found in A.G.S.

KEY - Volkswagen, found in A.G.S.

UMBRELLA - Lady's, found in Lecture Hall.

Personnel Services — 3 Center Street