



## Scientists See Stars

Astronauts on the Apollo missions experienced light flashes in their eyes when their spacecrafts were darkened. Col. Edwin Aldrin was the first to report seeing these flashes and likened them to seeing a flash cube go off in a darkened area. They were then confirmed by other astronauts on following Apollo missions.

It has generally been agreed that the flashes are caused by cosmic ray particles passing through the interior of the eye. The mechanism as to how the particles cause these visual sensations has been under some controversy.

One possible mechanism is that the flashes come from the ionization and excitation of atoms in the retina of the eye as it is being bombarded by cosmic rays. Another mechanism could be that they are caused by Cerenkov radiation produced by heavy cosmic ray nuclei passing through the vitreous humor and the transparent nerve tissues of the retina. The vitreous humor is the transparent jelly that fills the posterior region of the eyeball. The light given off by the radiation is then absorbed by the photo-receptive cells of the retina. Cerenkov radiation is produced when particles pass

through a medium (in this case the vitreous humor) faster than light passes through that same medium.

Calculations done by Peter McNulty, Associate Professor of Physics at Clarkson College of Technology, and coworkers have indicated that Cerenkov radiation should be a prominent mechanism for the Apollo flashes. Professor McNulty is being funded by the National Aeronautics and Space Administration.

He is collaborating with Victor Bond, Associate Director of BNL, and Vincent Pease, Associate Professor of psychology at Clarkson College of Technology, on a series of experiments using BNL's AGS facilities. They hope to determine the mechanism behind the Apollo flashes and are serving as their own subjects in the experiments.

These experiments are an attempt to simulate the visual phenomena reported by the Apollo astronauts. Relativistic, heavy cosmic ray nuclei do not reach the earth because they are stopped in the upper atmosphere. Nuclei heavier than oxygen cannot be accelerated to relativistic velocities in existing accelerator facilities. A large burst of singly charged muons are therefore used to generate the intensity of Cerenkov radi-



Peter McNulty (right) and Dr. Bond, wearing dark-adapting goggles, look over the experimental area in the AGS where they will do the light flash experiments.



Dr. Bond gets into position so a muon beam can enter his eyes through the right side of his head and simulate light flashes seen by astronauts.

tion that would be given off by a heavy cosmic ray nucleus.

To observe the flashes, each subject adapts his eyes to the dark by wearing red X-ray dark-adapting goggles for one-half hour before being exposed to the muon beam. He is blindfolded and positioned so the beam enters his eyes through the side of his head. Two other positions were also tried, the beam aimed at the right eye from the front and the back of the head, to see if there would be any variations in the flashes. The differences in appearance of the flashes seen in the three positions tried are being analyzed and additional experiments are required. The data so far, however, indicate that Cerenkov radiation plays a significant role. Flashes, reported with extremely low muon doses (.000002 rads), provide additional evidence that Cerenkov radiation is responsible. The flashes seen by the astronauts fall into four descriptive categories; pinpoint or star-like lights, thin streaks of light, double stars, and explosive, cloud-like flashes filling the whole field of view. Since the cross-sectional area of the muon beam is quite large, the experimental observers have only seen the cloud-like explosive flashes. They hope to use a proton or pion beam, which has a smaller area, in future experiments to see if the star-like and streak flashes can be induced.

Similar experiments have been done elsewhere using neutrons, X-rays, alpha particles, and nitrogen nuclei, but the muon experiments provide the first laboratory observations of the bright, extended flashes. It is also the first real demonstration of the eyes' ability to detect Cerenkov radiation produced in the interior of the eye.

— Jean Burke



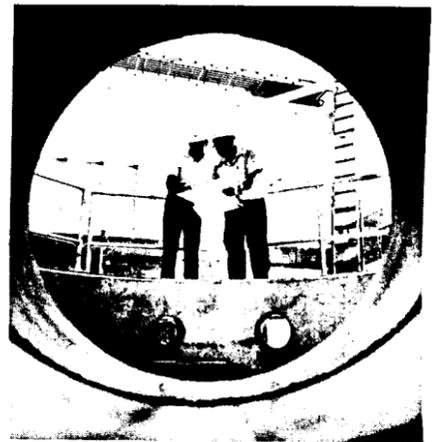
The main ring tunnel can be seen at top center, with the East Experimental Buildings to the left and the new 200 MeV Linac Injector at the far right. The central group of buildings houses the 80-inch Bubble Chamber, its beam, and the central compressor facility supplying high pressure hydrogen and helium to the 80-inch and 7-foot refrigerators. The earth shielded neutrino beam tunnel comes toward the bottom of the picture, ending at the 7-foot Chamber complex.

## 7-Foot Chamber Nears Completion

One of Brookhaven's newest and largest experimental installations is the "H-10" or "North" Experimental Area now under construction north of the Alternating Gradient Synchrotron. The primary particle detector to be located there is the 7-foot Liquid Hydrogen Bubble Chamber. Neutrinos from interactions of the external proton beam from the AGS with a sapphire target will be the subject of study in the first experiments. The neutrinos, interacting in the bubble chamber, will enable a direct study of the properties of the so-called "Weak Interactions." This should shed light on a number of the most interesting and pressing questions facing high energy physics today.

The circulating proton beam will exit from the AGS inside the main ring tunnel, and will then be magnetically guided into the external earth shielding tunnel. One of the magnets used to bend the beam will be superconducting and will run at 40,000 gauss in order to bend through a large angle in a short distance.

The beam will interact in the target inside the tunnel, producing many mesons. These will be focused toward the bubble chamber by a magnetic "Horn" pulsed to a current of 300,000 amperes. Many of them will decay in flight into leptons and neutrinos. A 100 foot long steel filter will remove the leptons, but most of the neutrinos will pass through it and through the bubble chamber without a trace. Occasionally, one will interact in the chamber, producing charged particles whose tracks can be analyzed. Just how elusive the neu-



Technicians Howard Olson (left) and John Cain inspect the vacuum tank assembly of the 7-foot bubble chamber.

trino is can be understood by knowing that although one trillion of them will pass through the chamber on each pulse of the AGS, only one neutrino in each 50 pulses is expected to interact.

The 7-foot Chamber itself has evolved through a test facility stage, which in 1969 and 1970 was used to test and perfect a large number of new ideas originated at BNL. Many of these ideas are now incorporated in the design of even bigger chambers being built at CERN and NAL, and one now operating at ANL.

Since January 1971 it has been undergoing modifications to make it a flexible, smooth-functioning experimental user facility, and its new site has been under construction.

It is hoped to finish construction work on the chamber and its beam next spring, with testing to be followed immediately by the first experiment.



In this more detailed view of the 7-foot Chamber complex, the beam will come from the right through the earth tunnel, passing through the pile of steel just begun when this picture was taken. It then enters the Bubble Chamber in the large house with the crane rails exposed above its roof. The helium refrigerator building is just below it, and the control room is connected to them through a covered walkway. Stockade fences made of full size telephone poles separate the hydrogen refrigerator and hydrogen storage areas from the rest of the installation.

## Holiday Schedule Diners Please Note

The Tap Room at the Center will be open daily over the Labor Day weekend.

At the Cafeteria, only the Snack Bar will be open from 9:00 a.m. until 2:00 p.m. on Saturday, Sunday and Monday, September 2nd, 3rd and 4th.

The Vended Food Service in Building 912 will be in operation throughout the Labor Day Weekend.

**Youth On Campus**



Ed Perkins, General Motors Acceptance Corp., discusses job opportunities and career planning with a group of youths who are participating in Brookhaven's Youth On Campus program for the summer of 1972. The program will end on September 1 when most of the participants return to school for the fall term.



Evonne Hammond checks margin settings for Pamela Treadwell, who gets instruction in typing and office practice twice a week.



Kathy King of Physics (foreground) demonstrates scanning and measuring film in a scanning room in the Physics Department.

**Touch Football League Forming**

We have designed a non contact football game that even you can play and enjoy. There's no tackling, no blocking, no roughhousing. This 6 man team game is basically all passing and running. A Johnny Unitas you do not have to be. All you need to join is enthusiasm and a pair of sneakers.

You need at least 6 men to enter a team but may have up to 10. Round up your Suffolk Super Stars and join the action. The games are played at our recreation park immediately after work starting September 11 and ending in mid October.

Pick up your entry form and a copy of the rules at the Recreation Office. If you can't join an existing club or form your own, send your name to any of the committee members and they will place you on a roster.

Pres.	Bob Barone	4174	515
Vice Pres.	Ed Taylor	4126	515
	Jack Brennan	2485	134C

**IBEW Meets Tonight**

Local 2230 IBEW will hold its regular monthly meeting tonight, August 24, at 8 p.m. in the K of C Hall, Railroad Avenue, Patchogue. There will also be an afternoon meeting for shift workers at 2 p.m. in the Union Office at 31 Oak Street, Patchogue.

On the agenda will be regular business, committee reports, and the President's report.

**World of BNL**

This week the World of BNL will present part 2 of Plant Hybridization, with Peter S. Carlson and Harold H. Smith of the Biology Department.

The World of BNL is now broadcast Sundays over four stations instead of two. The times and stations are as follows: at 8:15 a.m. over WBLI-FM (106.1), Patchogue; WRCM-FM (103.9), Riverhead; WHRF-AM (1570), Riverhead; and at 11:15 p.m. over WGLI-AM (1290), Babylon.

**Tennis News**

As reported elsewhere in this edition, two of the four championships have already been determined in this year's BERA Tennis Tournament, the Ladies' Singles, and the Men's Doubles.

Although the finalists have not been determined completely, the championship round in the Men's Singles has been scheduled for Monday, August 28, at 5:15 p.m. In order to meet this schedule, Kevey and Passell are scheduled to complete their quarter final match on Wednesday, August 23rd, with the winner meeting Lumpkin on Friday.

Results to date in the finals: The Walter W. Merkle Men's Doubles Championship Round: Auskern & Kevey - Bailey & Brandon, 6-1, 9-11, 6-2. Ladies' Singles Championship Round: Stangby - Connell, 3-6, 6-2, 6-4.

**BROOKHAVEN BULLETIN**

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Public Relations Officer

**Arrivals & Departures**

**Arrivals**

Jane E. Burke ..... Medical  
Bert Carlson ..... Accelerator  
Nancy D. Jesaitis ..... D.A.S.  
Alexander F. Pendzick ..... Mech. Engrg.  
Margaret H. Schubert ..... Photography  
Todd H. Whitaker ..... Accelerator

**Departure**

Buford R. Holt ..... Biology

**Telephone Repair - 2529**

Telephone troubles can be a real aggravation. However, don't fail to initiate corrective action properly. A general comment such as "FTS to Chicago is terrible" may be very accurate, but helpful it is not.

All troubles should be reported promptly and include the following information: 1) FTS or Bell System; 2) your number and location; 3) the number you called, complete with location; 4) a description of the trouble encountered, such as "noisy," "can't be heard," "cut off," "can't hear," "echo," "cross talk," "no ring."

Repairs may not be effected immediately but repeated detailed complaints make identification of the problem much simpler and expedite correction.

The Communications Group wants the service to be entirely satisfactory, and will take the necessary action with either the New York Telephone Company or with the General Services Administration as appropriate.

**Cafeteria Menu**

**Week Ending August 31, 1972**

<b>Friday, August 25</b>		
Fish Chowder		
Fried Shrimps w/Tartar Sauce & French Fries		.99
Roast Leg of Lamb w/Mint Jelly & 1 Veg.		.95
Broiled Halibut w/Carlton Butter & 1 Veg.		.95
<b>Monday, August 28</b>		
Tomato Soup		
Roast Fresh Ham & 1 Veg.		.90
Beef Stew Casserole		.95
Western Omelet w/French Fries		.80
<b>Tuesday, August 29</b>		
Mulligatawny Soup		
Grilled Ham, Sausage & Pineapple & 1 Veg.		.90
Creamed Chicken & Mushrooms on Noodles		.90
Sauerbraten w/Potato Pancakes		.95
<b>Wednesday, August 30</b>		
Yankee Bean Soup		
Baked Beef Loaf w/Gravy & 1 Veg.		.90
Shrimp Chow Mein on Crisp Noodles & Boiled Rice		.90
Polish Kielbasy w/Mashed Potatoes & Sauerkraut		.85
<b>Thursday, August 31</b>		
Beef Barley Broth		
Beef Hash w/Brown Gravy & 1 Veg.		.80
Baked Lasagna w/Meat Sauce & 1 Veg.		.90
Broiled Chicken Livers w/Bacon Strips & 1 Veg.		.85

**CREF Unit Values**

<b>1971</b>			
January	\$41.37	February	\$41.57
March	43.14	April	45.23
May	43.81	June	43.58
July	41.24	August	44.01
September	43.85	October	41.84
November	42.38	December	46.21
<b>1972</b>			
January	\$48.27	February	\$50.49
March	51.36	April	51.80
May	53.74	June	51.80
<b>July \$51.15</b>			

**Ship of Fools Is Last BERA Film**

The last offering in the BERA Summer Film Festival is a social commentary on the world situation in 1933. Ship of Fools will be screened on Friday, August 25, at 8:30 p.m. in Berkner Hall.

Ship of Fools presents the world in microcosm, as a ship traveling from Mexico to Germany, with numerous characters representing all classes and points of view. At the center are Simone Signoret as a drug-addicted countess and Oskar Werner as the ship's doctor. The love affair between these doomed people is beautifully acted and directed; both performers were nominated for Academy Awards.

Also fine are Heinz Ruehmann as an optimistic German Jew; Michael Dunn as a shrewd, philosophizing dwarf; and Lee Marvin as a vulgar, has-been baseball player. Perhaps most memorable is Vivien Leigh, in her last screen performance, as an aging American divorcee.

Admission to air-conditioned Berkner Hall is \$1.00 for adults, and half that for the under-eighteen set. The show will start promptly at 8:30 p.m., and there is always plenty of safe parking.

**Ticket Services**

The following tickets are available at the Recreation Office between 9 a.m. and 1 p.m. only.

**Met Baseball Tickets**

- Sept. 6 - Montreal
- Sept. 10 - St. Louis
- Sept. 21 - Pittsburgh

**Jet Football Tickets**

- Dec. 3 - New Orleans
- Dec. 17 - Cleveland

**Metropolitan**

Sale Starts - 7:30

This year BERA will be able to offer employees many more opportunities to visit the opera. We have been able to obtain about twice the number of tickets that we had for last season. We have 752 Family Circle seats this year, however, of that total only 178 are in the same locations while 574 are improved. We now have a combination of seats priced at \$5.50 and \$2.85 for 94 performances.

The Recreation Office will be open at 7:30 a.m. on Wednesday, September 6 to start the sale. After the initial sale employees may purchase tickets from 9:00 a.m. to 1:00 p.m. daily only. A copy of all the information we have available may be picked up at the office where it is also posted.

We ask you to please comply with the following procedures in order that all em-

Tickets are available for the following Op

<b>September</b>					
Thurs	21	Romeo et Juliette	Thurs	30	Aid
Mon	25	Carmen	<b>December</b>		
Tues	26	Don Giovanni	Mon	4	Sieg
Wed	27	Romeo et Juliette	Tues	5	Ote
Thurs	28	Un Ballo in Maschera	Thurs	7	Die
			Mon	11	Fau
<b>October</b>			Tues	12	Sieg
Mon	2	Un Ballo in Maschera	Wed	13	Ote
Tues	3	Lucia di Lammermoor	Thurs	14	Don
Thurs	5	La Traviata	Mon	18	La
Mon	9	Romeo et Juliette	Tues	19	Die
Tues	10	Lucia di Lammermoor	Thurs	21	Fau
Wed	11	La Traviata	Tues	26	Ma
Thurs	12	Carmen	Thurs	28	La
Mon	16	La Boheme	<b>January</b>		
Tues	17	La Sonnambula	Mon	1	La
Thurs	19	Romeo et Juliette	Tues	2	Ote
Mon	23	Aida	Wed	3	Piq
Tues	24	La Sonnambula	Thurs	4	Un
Wed	25	Don Giovanni	Mon	8	Ote
Thurs	26	Die Zauberflote	Mon	8	La
Mon	30	Lucia di Lammermoor	Tues	9	La
Tues	31	Orfeo ed Euridice	Thurs	11	La
<b>November</b>			Mon	15	La
Thurs	2	Die Zauberflote	Tues	16	La
Tues	7	Aida	Thurs	18	Piq
Wed	8	Lucia di Lammermoor	Mon	22	La
Thurs	9	Orfeo Ed Euridice	Tues	23	Un
Mon	13	Aida	Thurs	25	Ma
Tues	14	Die Zauberflote	Mon	29	Rig
Thurs	16	Don Giovanni	Tues	30	Aid
Tues	21	Orfeo Ed Euridice	Wed	31	Ma
Thurs	23	Lucia di Lammermoor	<b>February</b>		
Mon	27	Orfeo Ed Euridice	Thurs	1	La
Tues	28	Siegfried (7:00 p.m.)	Tues	6	Rig

**Golf Tournament Prizes Awarded**



Demarco of Physical Review is not one of the being awarded in the BERA Golf Tournament. ally, her smiling face will serve as a reminder that few make-up matches remain before the playoffs in the four divisional winners in both the team and individual leagues. Final standings will be posted in the early next week. The third of four annual tournaments scheduled this week with more prizes offered than ever before. The last tournament will be after the end and will include a buffet and the league and tournament winners during the year.

**Opera Tickets**

September 6

Employees will have an equal opportunity to buy tickets.

No orders will be taken before Wednesday, September 6 at 7:30 a.m.

An employee must appear in person at the Recreation Office to make purchases

An employee may purchase a maximum of 4 tickets of any price for 4 operas.

(This ruling may be adjusted as the season progresses and there are still tickets available.) You may purchase 1, 2, 3, or 4 tickets for each date. In some cases we have single seats, as well as three and four together.

Tickets will not be returnable or accepted for refunds or exchanges at the Recreation Office. All sales are final.

Checks should be made payable to BERA.

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**Auskern and Kevey Victorious Again**

Allan Auskern and Andrew Kevey once again demonstrated their domination of the Walter W. Merkle Men's Doubles in the BERA Tennis Tournament, taking the championship for the third successive year by defeating Robert Bailey and James Brandon, on Monday, August 21, in three sets, 6-1, 9-11, 6-2.

It was a beautiful day for tennis with a high clear sky, and the high clear sky was kept filled with high clean lobs. The lob, a grossly neglected tennis stroke in most amateur play, was not neglected in this match and added another dimension to the many brilliant rallies and sharp exchanges which sustained interest throughout the match, despite the apparent one-sidedness of the scores in the first and third sets.

Neither wind nor weather was a factor in this match which was won by a team that has played together as a unit for years. Auskern and Kevey by their play demonstrated that they each had the experience to know which shots the other should handle, whereas Bailey and Brandon were too often competing with each other in an effort to make a difficult return. Victory in this doubles match was not a matter of individual excellence, but the result of smooth team play.

In the first set, Auskern and Kevey jumped off to an early lead of 3-0 by holding in their initial games and breaking Bailey's service in the 2nd game. After Brandon held service in the 4th game, the set was run out in three more games.

In the second set, each player except Auskern held service during the first four games and each player again held service during the next four. In the third group of four games only Brandon failed to hold service, evening the score at 6-all. Brandon failed to hold service in the 13th game, a favor which was returned by Auskern in the 14th with a double-fault for the game point. Everyone then held service until the 20th game which reached deuce before Kevey's serve was broken.

The only really close game in the third set was the first, served by Brandon. This game was twice at deuce before Brandon's serve was broken. A service break in the seventh game, with Bailey on service, was the only other variance in the series of victories by the team on service. In the 7th game, Bailey, starting with a double-fault, was soon behind 15-40, and game followed. Kevey, then did his best to pour it into his serves and allowed only one point while taking the final game of the match.

Whereas, the first two sets consumed about an hour and a half, the last set, which was played with the north half of the court in full shadow, went quickly and required only about twenty minutes, the match ending while there was still enough light to permit further play.

In comparing the contrasting playing styles and qualities of the four players, it could be said that Bailey was most effective at the net game, Kevey played the lob to perfection, Brandon and Auskern demonstrated how to get the ungettable and return the impossible. They all four exhibited the stainless steel nerves of a Mississippi River Boat gambler. Although, on occasion, a slight expression of self-deprecation might be heard following the slightly less than perfect execution of a difficult shot, overt sign of temperament were remarkably well suppressed, considering the intensity and stress of the situation.

**Swimming Pool Schedule**

The swimming pool will remain open on the following schedule through September 3rd. It will be closed for a six week period and reopened in mid October.

Schedule	
Weekdays - Monday through Friday	12:00 noon - 1:30 p.m. Employees Only
	1:30 p.m. - 9:30 p.m.
	Employees/Family/Visitors
Saturdays - 12:00 noon - 5:00 p.m.	Employees/Family/Visitors
Rates	
Season Pass	
Employee or Family Member	\$10.00
Family (Same Household)	\$20.00
Daily Single Admission	
Employee or Family Member	50¢
Visitor	75¢

**Ladies' Tennis Crown Taken by Mrs. Stangby**

Down, one game to four in the third set, second-seed **Mary-Jane Stangby** staged a great comeback, playing heady tennis and cannily using the wind to her advantage, to sweep the next five games and upset defending champion, **Helen Connell** in the finals of the BERA Ladies Singles Tennis Championship, last Tuesday, August 15, winning by scores of 3-6, 6-2, 6-4.

The championship round got underway shortly after 5:00 p.m. in clear crisp weather which seemed more like mid-October than the middle of August. A brisk and gusty wind out of the north, an important factor throughout the match was skillfully used by **Mrs. Stangby** to garner critical points in the final set.

Both players were obviously troubled by the wind and appeared a bit unsettled at the start of the match. Each player failed to hold service in the first 3 games. After the 3rd game, the ladies settled down to play steady and often brilliant tennis; each player held service through the 8th game. In the ninth game ahead thirty-love but behind 3-5 in-games, **Mrs. Stangby** lost four successive points and the set.

In retrospect, the first game of the 2nd set became the turning point of the match, although this fact was not apparent at that time. The 1st game reached deuce 5 times,

and **Helen Connell** required 19 service attempts before failing to hold service. This exhausting effort must have had its effect because the momentum was now with **Mrs. Stangby** as she won the 2nd, 4th, 5th, 7th and 8th games by relatively one-sided scores, allowing one point only in each of the first three and taking the last two games at love.

The first three games of the final set went to **Helen Connell**, **Mrs. Stangby** losing service in the 2nd game on three successive double faults. However, starting with the 3rd game, **Mrs. Stangby**, with the wind at her back, began to follow up her approach shots to the baseline and dominated the net. Although this tactic did not result in immediate dividends in the 3rd game, it was instrumental in her winning the 6th, 7th, and 10th games, when the wind was again at her back. In the 4th, 8th, and 9th games, which **Mrs. Stangby** also won, she scored effectively with deep lobs to the baseline, into the wind.

Although the level of play at all times was excellent, **Mrs. Stangby's** dominance at the net, stronger service, and effective use of the lob out-weighed **Helen Connell's** great gets and excellent cross-court passing shots, ultimately tipping the scales of victory in her favor.

**Softball News**

Jim Petro

**Brookhaven League**

S & M 17 - Dirty Sox 4  
Metallurgy 9 - Old Timers 8

S & M (1-4) delivered a crippling blow in the second half. S & M came up with their 2nd win of the year (both over the Sox) with a strong hitting attack. Mike Guacci and Larry Musso homered for S & M. Metallurgy (3-2) kept their hopes alive with a win over the Old Timers (3-3), in a well played game. Bob Jones delivered the game's winning hit in the bottom of the 7th inning. Blue Jays are leading the league with a 4-1 record with one more game to be played.

**National League**

Bio Meds 9 - Circuits 8  
AMD 1 - Kumquats (0) Forfeit

Bio-Meds (5-0) had to go into extra innings to beat the Circuits (2-3) and clinch the second half championship. In the eighth inning, Bill Scott came up with the game's winning hit. AMD (4-2) won as the Kumquats (0-5) were unable to field a team.

**Laboratory League**

Six Pax 9 - Charlie Browns 8  
EAO 33 - Converts 15

Six Pax (7-0) faced with the prospect of losing their 1st game of the second half rallied to beat the Charlie Browns (3-4). Trailing by four runs in the bottom of the 7th inning, the Pax rallied for 5 runs and the win. C. Bohlenblusch, Ken Asselta, and Russ Lowell provided most of the offense with Bill Piel having the game's winning hit. EAO (4-3) routed the Converts (0-7) with both teams playing with eighth men. Gary Jayne had a big night as he was 5 for 8 hitting for the cycle and scoring 7 runs. P. Valli and George Speidell homered for EAO. D. Meany and Arnie Kriesberg had 5 hits each.

**University League**

Gotchas 1 - Saints 0 (Forfeit)  
Oh Kays 10 - Odd Couples 6

The Oh Kays (7-0) were involved in a very good game with the Odd Couples (3-4). Trailing early in the game the Oh Kays rallied behind home runs by Vernon Faine and Kenny Sutter. Ruby Burwell and Kay Hunt excelled in the field and John May pitched well and also had a triple - good for two runs. Gotchas (3-4) won as the Saints (1-6) were unable to field a team.

**Chess Anyone? (R-P4???)**

Efforts are now in progress to form a BNL Chess Club. Those interested in joining please call G. Malcolm, Ext. 3297 or T. Jesaitis, Ext. 3298. An enthusiastic response is needed to get the Club started.

**Two Short Plays**

Prepared readings from two short plays, Jules Feiffer's "The Unexpurgated Memoirs of Bernard Mergendeiler" and Glenn Hughes' "Red Carnations", will be presented at 8:00 p.m. in Berkner Hall on September 7th. Reserve this night on your calendar. A short business meeting of the BNL Theater Group will follow the program.

**Classified Advertisements**

**Employment Notices**

The BROOKHAVEN BULLETIN each week will list job openings which have come to our attention and may be of interest to Lab employees. Each listing will be repeated (if still available) only once. For further information, please contact Employment Supervisor, Ext. 2879 or 2882.

DRIVER (1) Plant Engrg. & Planning. Application deadline: September 4, 1972.

PAINTER B (1) - Plant Engrg. & Planning. (New Classification Labor Grade 7). Performs work similar to Painter (Labor Grade 10) but is not required to perform more complex functions. Require previous experience in painting, including surface preparation and the use of various coatings, stains and other surface finishing products. Application deadline: September 4, 1972.

**Autos & Auto Supplies**

70 VW CAMPMOBILE - Fully equipped, incl tent & Panasonic tape deck, luggage rack, excel cond. \$2750. 473-2319.

65 PLYMOUTH WAGON - V8 std, running cond, new clutch, will pass inspection. \$100. 473-2319.

71 HONDA CL450 - Only 600 mi, extras. Asking \$1000. 265-0117.

62 FORD FALCON - Auto trans, new brakes, 2 new rear tires, new shocks, just tuned up. \$200. 924-3170.

66 CHEVELLE MALIBU - V8 auto, many extras, 50,000 mi, excel student or 2nd car. \$850. 744-6616.

68 CAMARO SS396 - 4 spd Hurst, Mickey Thompson, 4.11 posi, American mags, Holley, accel, gauges, tach FM radio, tape deck. 475-9171 after 4:30.

2-6.00x16 WHEELS - 6 lug. M. Greene, Ext. 4484.

70 VW BEETLE - Std shift, excel cond, 26,000 mi. \$1350. 475-0958.

71 BSA MOTORCYCLE - 650 cc, low mileage, excel cond. \$950. 475-4557.

71 SUZUKI MOTORCYCLE - 500 cc, low mileage, excel cond. \$750. 475-4557.

61 FORD STATION WAGON - Mech & tires good, body poor. \$100. Ext. 4397.

68 VALIANT - Blue, 6 cyl, 2 dr sedan, 72,000 mi, good tires, good mech cond, owner moving to Calif. \$650. R. Steele, Ext. 3389.

14" WHEELS - 2 sets Ford, Chevrolet, \$5/pr; 12v gen, GM type, all in good cond, \$7. Bob, Ext. 4652.

TIRES - 2.6.50x13, 7.60x15, 8.85x15 snow. Whitey, Ext. 2907.

67 BUICK WILDCAT - 4 dr htdp, air cond. \$600 firm. Ext. 2100.

48 DODGE 1/2 TON PICKUP TRUCK - Tires, extras. \$100. 744-8225.

61 CHEVY 1/2 TON PICKUP TRUCK - Good cond, clean, best offer. 744-9785.

70 COUGAR CONV - White, excel cond, ps/pb, auto trans, 40,000 mi, orig owner, moving, must sell. Sacrifice, \$2200 firm. 475-3574 after 5.

71 HONDA C3500 - 500 cc, 4 cyl, low mileage, excel cond. \$1175. 324-5136.

58 DUNE BUGGY - Heater, plexiglass top, chopped VW body, db wheels, good cond, best offer. Jeff, 744-2955 eves.

61 VW - 70,000 mi on rebuilt eng, good for parts. \$50. Isler, Ext. 2405.

69 CHEVY IMPALA CONV - Ps/pb, air cond, really like new, must see to appreciate. Carsten, Ext. 3593.

62 RAMBLER AMERICAN - 70,000 mi, many new parts, runs well but needs trans work. Ext. 4254, 661-4508 after 6:30.

61 VOLVO PU544 - Excel running cond. \$250. J. Peterson, 929-4532.

4 TIRES - 6000 mi, & rims for Datsun or Toyota 13", 1 brand new tire on rim. J. Peterson, 929-4532.

66 ROVER 2000 - Good mech cond, needs body work, must sell - leaving BNL. Best offer over \$300. Ext. 3236, days and eves.

65 VW - Mech excel, recent brakes, avail around Sept 8-10. \$350. 751-3062.

69 MGB - Very good cond, burgundy, new Michelins, new stereo, exhaust, new wires, r/h. \$1250. Peter, 475-0609.

67 CHEVY STATION WAGON - Good cond; recent brakes, shocks & front end; avail around 9/9. \$450. 751-3062.

71 FORD XLT RANGER 1/2 TON PICKUP - Heavy duty, V8, 27,000 mi. L. Bacelli, Ext. 4823.

51 CHEVROLET 1/2 TON PICKUP - Fair cond. \$250. 286-3377 after 5.

NEW TIRE W/ RIM - F70-14 fits Pontiac (PMD). \$25. 281-7763 after 6.

61 BUICK - 2 dr, auto trans, ps, w/w, good eng & good transportation. \$75. 363-6597.

HUBCAPS - 65 Ford Mustang, set of 2. \$2.50 ea or 2/\$4. Ext. 4028.

63 RAMBLER CLASSIC STATION WAGON - Auto trans, r/h, new brakes & exhaust system, runs well. \$175. De, Ext. 3352, 589-4874.

3 SPD HURST SHIFTER - \$25; 2 deep dish chrome reverse rims, \$15; 1 chrome Chevy rim. \$7; 4 Chevy SS hubcaps, \$5. Ext. 3672.

INTAKE MANFOLD - 327-4 bbl, \$23; 283-4bbl intake manifold, \$23 carbs - 3 Holleys, 2 Rochester's. Ext. 3672.

68 BSA MOTORCYCLE - 441 cc, semi-chopped, asking \$675; asstd motorcycle parts. Ext. 3672, 924-4261 after 5:30.

68 MUSTANG - Gold, good cond. G. Raynor, Ext. 2268, 727-5194.

61 VW BUG - Mech excel, 58,000 mi, \$300; Becker am/fm/sw radio, 12v, from Mercedes, \$35; Audiovox am/fm transistor car radio, \$30. Ext. 4543.

63 BUICK LESABRE - Eng & trans good, tires poor, front end needs alignment. \$100. Ext. 4671.

VOLVO - Running cond. \$100 or best offer. 744-9686 after 6.

SNOW TIRES - W/5 hole rims, pr. Hirzel, Ext. 4278.

6V BATTERY - Heavy duty VW size, excel cond. Ext. 3120.

3/4 TON FORD PICKUP - 68-302 eng, auto trans, good tires, new muff, brakes, kingpin, water pump, runs well. \$495. Saxton, Ext. 3435.

70 FORD GALAXIE - V8, air cond, ps/pb, auto trans, very good conc. Ext. 4149.

65 RAMBLER CLASSIC 770 STATION WAGON - New batt, tires, shocks, brakes, auto trans, radio, excel cond, perf 2nd car. \$375. 473-8784.

64 RENAULT 18 - Radio, 4 spd, runs well-40 mpg. \$100 or best offer. Dave, Ext. 3182/4817.

67 CHEVY IMPALA - 283 V8, auto trans, 2 dr sedan, blue, r/h, air cond. Asking \$600. Fred, Ext. 4028. after 4.

68 FIREBIRD - Auto stick shift, am/fm, ps/pb, new tires, excel conc. \$1500. Mac, Ext. 4460.

68 MUSTANG - White, 6 cyl, manual, good cond. J. Coggins, Ext. 3379, 475-3821 eves.

15" DODGE RIM - 5 holes; 1950 Dodge distributor. O. Booker., Ext. 4719.

## Boats & Marine Supplies

16' STARCRAFT RUNABOUT - Alum super sport, walk thru deep V, 40 hp Evinrude Lark, Tee Nee trailer, excel cond. \$1500. 473-2319.

27' FIBERGLASS AUX SLOOP - Heavy displacement, safe deep water cruising in a reasonable size. 298-4566.

ALCORT FIBERGLASS SAILFISH - Good cond.. \$225. 751-3062.

18 HP EVINRUDE OUTBOARD 1965 - \$150. E.S. Harris, Ext. 4666, 475-8504.

CONTROL BOX - For Mercury outboard, also Evinrude control box (single lever elec shaft model). \$10 & \$20. E. Harris, Ext. 4666, 475-8504.

BOAT & TRAILER - 1965 Sears, 12' alum "V" & 1966 Little Dude boat trailer. \$150/both. B. Terwilliger, Ext. 2501.

5 HP OUTBOARD MOTOR - Atlas Royal, a "handyman's special." \$40. B. Terwilliger, Ext. 2501.

8' DINGHY - W/oars, very good cond. Van't Hof, 286-0534.

16' THOMPSON 1971 - Fiberglass, tri-hull, full canvas, w/40 hp Johnson, 1972 tilt trailer, used 35 hrs, w/ dockage to 11/15. Asking \$1785. 475-8724.

16' RUNABOUT - W/35 hp Merc, 1970 Cox trailer, extras. \$400. 286-3791.

OUTBOARD MOTOR - 1966-20 hp Johnson, good cond. \$225. Ext. 4089.

20' CATAMARAN - B-Lion w/trailer, compl, ready to go. \$1100. 744-1545.

23' SPEEDBOAT - 1960 Century Raven, 170 hp in-board, high freeboard, shelter cabin, excel for fishing & water skiing. Orig cost \$6500; must be sold, \$700 or best offer. 286-8744.

16' GARVEY CLAM BOAT - Fiberglassed ext, 33 hp Johnson, 6 gal can, rain covers & clamming equipment. Asking \$650 compl. John, Ext. 2268.

15 1/2' THUNDERBIRD - Fiberglass tri-hull, 85 hp Evinrude elec-both 1969; pwr tilt, stainless steel, prop, tach, speedometer & 4 gas tanks, full cover, 1970 Tee Nee trailer. \$2500. P. Valli, Ext. 2023.

STARCRAFT - Marine alum 12' Super Star, 9 1/2 hp Evinrude, Tee Nee tilt trailer, all 1972, brand new. Ext. 2482.

COMET #2014 - 16' sailboat fully equipped, incl outboard, ready to sail away. J. Coggins, Ext. 3373, 475-3821 eves.

## Miscellaneous

CHILD'S BUILDING BLOCKS - Ext. 3155.

ASSTD WINDOWS & STORM SASH - Sizes about 34x62. M. Greene, Ext. 4484.

GE PORTABLE DISHWASHER - 4 yrs old, good cond. \$65. M. Kramer, Ext. 3941, 744-8632.

GO-KART - 3 1/2 hp eng, new tires & clutch, good running cond. \$90. 286-3372.

HAMMOND ORGAN L102 - Walnut, w/bench. \$650. Pat, 924-3059.

20 GAL FISH TANK - Wrought iron stand, hood, motor, access, compl, excel cond. \$25. JU4-6019 after 4.

MOD WHITE COUCH - Plus 2 walnut end tables, incl coffee table. JU4-6019 after 4.

OAK CHEST - W/oval mirror; wood cabinets & counter top; 8 burner gas stove. 475-1453.

KENWOOD AMP - KR/44, excel cond. \$150. 928-3634.

LAWN SWEEPER - Parker, new 26" brushes, Briggs & Stratton motor, all excel cond. \$75. E. Bihn, Ext. 3840.

JOINTER/PLANER - Wallace prof model, w/1/2 hp direct drive motor, handles 6" stock, spare blade, floor stand, excel cond. \$95. E. Bihn, Ext. 3840.

STENOTYPE MACHINE - New cond, extra supply steno type paper. Bargain, \$50. 924-3291 after 5:30.

NEW 8 TRACK STEREO TAPES - Latest recordings, list avail. \$3 ea, 2/\$5. C. Nielson, Ext. 4280.

LIV RM DAVENPORT - Matching chair, Menge 1 corner, desk, good cond. \$100 takes all. Ext. 3716.

WALL-MOUNTED SHELVES - 4 shelves 1'x5' w/ hardware, \$20; 1 shelf 42"x16" w/ hardware, suitable for stereo, \$10. J. Holm, 286-1493.

LG CORKBOARD - 37x85", walnut frame, rough dk brown cork surface. J. Holm, 286-1493.

CHAIRS - 4 blk authentic Hitchcock din chairs, rush seats, excel cond. Van't Hof, 286-0534.

RED ANTIQUE SATIN DRAPES - 1 pr 48"x90" app & 2 pr 48"x45" app, w/val & rods for 96" window. Orig cost \$60, asking \$30. 732-0171.

SIAMESE KITTEN - 1 female blue point, 3 mos old. G. Irving, Ext. 2914, 286-8869 after 6.

XMAS TREE - 7 1/2' scotch pine, used 3 seasons. Orig \$48, asking \$22. 732-0171.

20" BICYCLE - Good for beginner, \$6. Bob, Ext. 4652, 289-0357.

RCA TV - B&w, 23" screen, floor model, about 10 yrs old, needs work, make offer. Ann or Chuck, Ext. 3381, 286-3764.

AMPLIFIER - EMC 200 watt, 2 channel, 4 input, for guitar, organ or bass. Cost \$450, asking \$300. R. Lundgren, Ext. 2434.

PICKETT METAL SLIDE RULE - Pocket size log-log type, w/case. \$6 Tiny, Ext. 3260.

PLEXIGLASS SHEET - Transparent grey, 1/4"x51"x37". 473-2473.

FOLDING HIGH CHAIR - \$6; walnut crib w/matt, \$20. Ext. 4521.

FIREPLACE SPARK GUARD - \$7; steel grate, \$2. Ext. 4521.

FIREPLACE SPARK GUARD - \$7; steel grate, \$2. Ext. 4521.

CASSETTE TAPE RECORDER - W/access, 15 tapes & phone tape elec adapter. \$25. Joe, 286-1137 mornings & weekends.

HAMMOND B-C ORGAN - 2 keyboards, drawbars, 25 bass pedals w/122 leslie tone cabinet. \$1150. 878-1456 eves.

8" BENCH SAW - W/all access, \$125; belt massager firmline, \$30; Shetland floor waxer, \$10; 20' alum extension ladder, \$10. 585-1707.

BABY CARRIAGE - Lt wgt; baby dressing table; misc baby items. 744-2955.

YOUTH BED - W/matt, \$40; walnut night table, \$10; 2 matching table lamps, \$10. 286-9725.

LAWN MOWER - 18" reel type w/Briggs & Stratton eng. \$35. Howard, Ext. 2043.

ROCKING CHAIR - Walnut, good cond, needs reupholstering. \$10. 286-3742.

BUNK BEDS - Maple finish, box springs & mattresses, ladder, excel cond, 1 yr old. \$125. Iris, Ext. 4046.

SCHWINN BIKE - Girl's 26", excel cond, w/wo back baskets. 589-2114.

DIN RM SET - Ital fruitwood formal table w/6 chairs, 1 yr old. Cost \$650 new, asking \$475. 653-4618.

10 SPD WOMAN'S BICYCLE - Raleigh, like new, extras. \$75. Ext. 3236 or eves.

HARD HOOD HAIR DRYER - \$12; b&w portable TV, \$20; elec griddle, \$12. Ext. 3236 days or eves.

BABY'S FOLDING DRESSING TABLE - Good cond, \$8; 1 oak din rm chair, \$6. 727-1617.

LAWN BOWLING BALL SET - All wood, over 50 yrs old. \$25. 727-1617.

STONE CROCK - 3 gal, \$7; floor lamp, \$10; china closet, \$35 (both items about 45 yrs old). 727-1617.

WICKER SETTEE & CHAIR - \$10; portable sewing machine, older but good order, \$20; ice box, \$35. Ext. 3332, 928-2885.

TABLES - 1 coffee, 2 end, dk wood w/mica tops, \$7 ea; ladies wig, dk brown, w/case, \$9. Connie, 744-6854.

SYLVANIA TV - Halo-light b&w 20; good cond. \$20. Connie, 744-6854.

BABY ITEMS - Car seat, \$5; crib, \$10; stroller, \$10; port-a-crib, \$10; good cond. 928-0423.

1 RECORD PLAYER - W/speaker. \$6. Ext. 3672.

EXERCISE BICYCLE - Stationary, w/odometer, speedometer. \$25. Leahy, Ext. 4483.

NORWEGIAN ELKHOUND PUPPIES - Good w/children, females 3 1/2 mo, AKC. \$75 ea. C. Heinrich, 744-6211.

PIPE CUTTER/THREADER - Elec, good cond. M. Greene, Ext. 4484.

HYDRANGEAS - Blue, French, 2 yr old growing in pots, \$1.50 ea; white pines up to 4', \$1/ft. John, 744-5867 after 6.

FOLDING CLOTHES LINE - Umbrella type, basically OK but needs some maintenance. J. Holm, 286-1493.

POODLE PUPPIES - Blk miniature, w/papers, 3 wk old. \$50 ea. Ext. 4046/4047.

GE WASHER (LAUNDRY) - Excel cond, 3 yrs old, due to leaving town. \$125. Ext. 3600/3577.

IDEAL UTIL TRAILER - For compact car, cond new, price 1/2. 298-4566.

YOUR OFFER - For a photographic encyclopedia set. 298-4566.

HUMIDIFIER - Sears deluxe console model, used 3 mos. Cost \$135, sell \$75. 751-0354.

DEMI-FALL HAIRPIECE - 100% human hair, brown, worn twice. Orig \$50, asking \$25. 363-5330 after 6.

HEADBOARD & FRAME - For twin bed, \$15; Harvard Jr. classics, new, \$20. 363-5330 after 6.

WOODEN CHINA CLOSET - \$15; pole lamps, \$4; metal clothes rack, \$5; other items, last chance. Connolly, 286-8731.

GERMAN SHORTHAIR POINTER - Solid liver, male, housebroken, 2 1/2 yrs, good w/children, needs a home! \$25. 653-4618.

ASPHALT FELT - 15 lbs "tar paper," 2 1/2 rolls. \$7 takes all. Clem, Ext. 4688.

TRICYCLE - Excel cond, \$7. Clem, Ext. 4688.

DIN RM-LIMITED SPACE? - Teak hutch table seats 8, 4 teak/blk naugahyde chairs. \$250/all. Chuck, Ext. 4477; Carolyn, 567-1272.

RUPP MINI BIKE - W/chopped fork & ski, 2 1/2 hp, very good cond. \$120. 473-2319.

CHINA CABINET - Solid oak w/curved glass on sides & door, very good cond. \$75. 286-0246 after 5:30.

FIREPLACE SET 5 pcs. \$20. 653-4618.

STOVE - 30" Kenmore, gas, coppertone, self-cleaning oven, 2 1/2 yrs old, excel cond. EM3-9553.

MINI-POODLES - AKC reg, males & females, avail 9/1. 281-3992.

LIONEL ELEC TRAIN SET - National Geographic magazines, silver certificates. O. Booker, Ext. 4719.

COLONIAL SOFA - W/extra slipcover, excel cond, \$100; 12x14 braided rug, mahog/gold/white, \$50. Lesley, Ext. 3412.

POOL - Kastral 21'-4" compl, filter, vac, cover, \$80; 15x15 deck, \$75. Ext. 3498, 472-0553.

POLAROID LAND CAMERA 108 - Used twice, brand new cond. \$20. Ext. 2915, 286-0866 after 6.

2 FOLDING BEDS - W/mattresses; 1 alum, \$10; 1 steel, \$15; almost never used. Ext. 2452.

.222 SAKO - Thumbhole stock, 1" bull barrel, new cond. \$140 bargain. Ext. 4058, 286-0436.

DRAFTING MACHINE - 36" arms, 1 min vernier on angles, excel cond. \$20. Ext. 4058, 286-0436.

BUCO ENDURO MOTORCYCLE HELMET - White w/blk stripe, like new. \$15. Ott, Ext. 4046.

## Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

## For Sale

BELLPORT VILLAGE - 3 bedrms, study, play rm, 1 1/2 baths, bsmt, garage, breezeway, walk to golf, tennis, village ferry to Fire Island. 286-8849.

## For Rent

SHIRLEY - 3 bedrm ranch, kitchen, din area, liv rm, bath, w/w, washer, dryer, stove, ref, full bsmt, 1/4 acre fenced-in yard, 5 min from lab. \$250/mo. 924-6923.

TENANT URGENTLY NEEDED - For exceptional waterfront home, Setauket-Stony Brook area, professional fam leaving early Sept for yr abroad, 9 mo - 1 yr rental - rent greatly reduced for responsible couple or sm fam, must have references. 751-3062.

9/5/72-10/20/72 - 3 bedrm house on North Shore cliff, 33 Dartmouth Rd, Shoreham. 744-2017.

BELLPORT - Fully furn & equipped, luxurious waterfront house, beach & dock, paddle tennis/skating court, liv, din, 4 bedrms, study, kitchen w/new washer, dryer, dishwasher, avail 9/15-6/15. \$375/mo. 286-8744.

## Wanted

HOMES - For 4 unusually pretty kittens. 732-3135.

BRASS HEADBOARD - Dbl bed size. Ann, Ext. 3163.

3 HP OUTBOARD - Evinrude or Johnson. Nardi, Ext. 3741, 286-8512.

PWR HEAD - For vacuum cleaner, any make, any cond. P. Sparrow, Ext. 4680, 727-4859.

USED STEREO EQUIPMENT - Sep components. J. Peterson, 929-4532.

DOG HOUSE - For med size dog. D. Berg, Ext. 2907, 363-6850 after 6.

BABYSITTER - To stay w/3 yr old child & infant in Wading River. 929-8398.

HOME - For 4 yr old male German Shepherd watchdog, amiable disposition. 924-3622.

STEREO - Compl or components, reasonable. Bob, Ext. 4652, 289-0357.

GIRLS - 16 yrs-70yrs, join the South Shore Bowling League, no bowling experience necessary. M. Heine, Ext. 3563.

SOFA-BED CONVERTIBLE - Reasonable, for college student. Ext. 4810 after 4.

17'-20' ALUM OR FIBERGLASS BOAT - Trailerable, pref center console fishing type. Don, 286-1205.

## Carpools

DRIVER - To compl 5-man carpool from Huntington. Irv, Ext. 4581; Frank, Ext. 3270.

## Lost & Found

LOST - Blk German Shepherd puppy lost in Center Moriches area, answers to "Fino." If found, please call 878-4013, belongs to 3 yr old.

## Services

CHINESE COOKNG LESSONS - Beginner & advanced classes now forming. 265-7183 after 5.

DOG TRAINING - Next class for beginners starts Fri 9/8, 10 wks. \$20. P. Warner, Ext. 4791.

PLANNING A VACATION BY AIR OR SEA? - Call Lee, 472-0658 after 6.

CHARTER FISHING OUT OF E. HAMPTON - Day or evening. John, Ext. 4666, 588-0619.

COUPLES OR GROUPS TO 6 - Evening cruises w/ licensed captain out of E. Hampton, dinner res. avail. John, Ext. 4666, 588-0619.

HAVING AN AFFAIR - NEED TRANSPORTATION - Limousine avail, reasonable, courteous service. Bob, 473-3987.

YARD SALE - Furn, bric-a-brac, tools, Aug 25-27, 40 Forest Rd., Centereach. 585-1707.

TREE REMOVAL & CHAIN SAW WORK - Also light hauling, free estimates. Ken, 289-8212 eves.

OAK FIREPLACE LOGS - Custom cut, split, delivered & stacked, well seasoned. Ken, 289-8212 eves.

TYPING DONE AT HOME - Lynda, 289-6692.

## Classified Ad Policy

### Deadline is 12 noon Friday for publication the following week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Firearms offered for sale or trade may not be brought on site.

5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated.
7. Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

For Sale: Auto & Auto Supplies  
 For Sale: Boats & Marine Supplies  
 For Sale: Miscellaneous  
 Wanted  
 Carpools  
 Lost & Found

Check  the heading applying to your ad.  
Print or type your ad in 20 words or less.