



## Concrete-Polymer — Scaling The Heights State Of The Art

Meyer Steinberg, Department of Applied Science, will review the state of the art of concrete-polymer materials development at the 105th BNL Lecture on Wednesday, October 6.

Mr. Steinberg's lecture, to be delivered in Berkner Hall at 8 p.m., will identify some of the fascinating materials and uses of the concrete-polymer process.

Being developed in the Radiation Division of the Department of Applied Science are a new class of materials of construction. Basically, these are concrete materials which have greatly improved strength and durability characteristics compared with conventional cement concrete. The three types of concrete polymer materials are (1) polymer impregnated concrete (PIC) which is a portland cement concrete impregnated with a monomer which is subsequently polymerized; (2) polymer-cement concrete (PCC) which is a cement concrete to which monomer is added during the mixing of the cement concrete; and (3) polymer concrete (PC) which is a composite material formed by polymerization of a monomer and aggregate mixture.

Cooperative programs for application of PIC are being conducted with the Office of Saline Water for construction of seawater desalting plants, the Bureau of Reclamation for construction of tunnel linings, the Federal Highway Administration for improved bridge decking, highways and breakaway lampposts, the U.S. Army Civil Engineering Research Laboratory for constructing low cost housing with aggregates found locally all over the world, the Naval Civil Engineering Laboratory for constructing buoys and underwater habitats. Cooperative applications development programs with industry associations include the American Concrete Pipe Association for use of PIC in concrete pipe and the Prestressed Concrete Institute (PCI) for development of monomer impregnated prestressed concrete.

A growing interest and applications have developed in foreign countries, particularly Italy where an extremely high strength impregnated concrete is being developed. In the Union of South Africa pilot plant quantities of PIC are being tested for sanitary basins, wash tubs, etc. In Japan a pilot plant for producing steel reinforced polymer impregnated concrete beams, panels and pipe is being operated.

The development of polymer concrete (PC) using aggregate with a polymer binder has opened up a completely new materials field. This has led to the utilization of recycled solid waste material for aggregate. For example, waste glass, obtained from nonreturnable bottles is crushed, graded and bound with methyl methacrylate and cured in place, for producing a material which is named "glastic." This is used in producing pipe called "Ecopipe" which can be applied effectively in sewage lines. The Environmental Protection Agency may be interested in developing this application.

Other concrete-polymer applications include a new art media for sculpturing and

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Concrete-polymer samples on display.



Ken Williams, industrial chimney specialist, rides an electrified bosun's chair from the top of the 320-foot reactor stack while chipping the surface for soundness and condition. Another chimney specialist, John McHugh, used the same rigging to examine the inside of the stack in preparation for a repair and paint job to be done in the near future.

## Reactor Stack Gets Look-See For Face Lift

The trade mark of BNL - the only thing a lot of our neighbors see of us - the reactor stack - has just undergone a thorough inspection in preparation for a new paint job and any necessary repairs.

When the Brookhaven Reactor was constructed, the first thing to be completed and painted was the reactor stack. Brookhaven, at that time was a restricted area, and because of its remoteness, the only evidence of activity to the outside world was the giant smokestack soaring more than 300 feet into the air.

As a vent for the cooling air for the pile, the stack also served to carry away exhaust gasses from the hot lab, and later for the low energy accelerators and the High Flux Beam Reactor.

The stack was built by the Custodis Construction Company, and is made of reinforced concrete. It stands on a base 21.5 feet high and the chimney rises 298.5 feet to the top of its cast iron cap, giving an overall height of 320 feet.

Inspection of the stack was a week-long task for industrial chimney specialists of the Custodis Company, who examined the chimney from top to bottom both inside and out. Working from an electrified bosun's chair, every area of the inside and outside of the stack was pounded, scraped and examined for faults and cracks. The entire job was done during a shut-down of the HFBR after a Health Physics team had checked for possible radiation hazards.

The last paint job on the stack was in 1956 when several coats of international orange and white were applied. It is hoped that the present contemplated repair and paint job can be done before the onset of bad weather this fall.

John Iulo of Plant Engineering and Planning is the architect in charge of the project.

## Science Internship Program Announced

A new program of Presidential Internships in Science and Engineering was announced by the White House.

The one-year internships are expected to open more than 400 training opportunities in federally-funded laboratories across the country. Recipients will be matched to tasks where high degrees of specialization can provide innovation and new insights in meeting pressing national problems.

Dr. Edward E. David, Jr., Science Adviser to the President, said "we would hope to expose the trainees to both the problems and the capabilities of government research and development and put them in positions where they can best benefit the nation and themselves."

Labor Secretary J.D. Hodgson, whose department is funding the \$3 million effort from its Technology Mobilization and Reemployment Program, said "the internships greatly strengthen the nation's effort to hold onto its pool of trained scientists and engineers."

David, whose Office of Science and Technology developed the program, said "these people provide a unique pool of skills and resources, much of it developed at taxpayers' expense in colleges, universities and various laboratories. They represent a vital national resource."

He pointed out that the Internships should be particularly beneficial for unemployed younger scientists and engineers who hold advanced degrees. Those under 30 are among the hardest hit by the current job squeeze; they have an unemployment rate of 5.3 per cent according to a recent National Science Foundation survey.

The fields in which they would have the greatest impact, David said, are those of current social concern. These include pollution, trash disposal, management and integration of large projects, and the nuclear field in areas as diverse as new power systems or criminal and medical laboratories where nuclear techniques are making major contributions.

The internship program was the second Administration initiative this month aimed at enhancing the utilization of scientific and engineering techniques through existing manpower programs.

On September 1, Dr. David called his first formal meeting of the governors' science advisers and outlined an employment program under which states, counties and local governments could hire scientists and engineers under Federal matching programs.

That effort had a double goal: reemployment of scientists and engineers and the seeding of technological specialists into the mainstream of those governmental units which have not, until now, been able to afford such expertise.

Under the new program candidates may apply directly to federally-financed laboratories for one-year, non-renewable internships which will be administered by the National Science Foundation. Veterans and those from high unemployment areas will receive preference. The laboratories will be allotted \$7,000 for each intern and must match that amount with either cash or research support.

Further information on the program will be released by the Office of Scientific Personnel at BNL as soon as it becomes available.

## French Group Meets

The French Group of BNL will hold its first meeting of the season on Thursday, October 7 at 8:15 p.m. in the North Room of the Brookhaven Center. The evening will be spent in viewing color slides of France and in discussing activities for the remainder of the year. Among the possibilities to be considered are: films, a theatre party in New York City, an evening of folk singing, play readings, and a wine and cheese tasting.



Either way, from the top down or from the ground up, the reactor stack is an imposing structure.

## Cooking Exchange Group Wants You!

The cooking Exchange Group cordially invites you to attend their meetings this year. The purpose of the Cooking Exchange is to demonstrate, exchange and sample the exotic as well as the simple foods of various countries, and the common interest in food forms a point of social contact for the women who participate. Babysitters are available to the children of parents who attend the Cooking Exchange meetings. To cover the cost of recipes demonstrated and for the babysitters, there is a charge of 75¢ per session for each person attending. Meetings are held every other Thursday from 3 to 5 p.m. in the Recreation Building. The next session is October 7, and the main dish is scheduled to be spaghetti clam sauce. If you have any questions, please call Terri Pittenger, 286-9471. We hope you will come.

## Sunday Is Start Of Fire Prevention Week

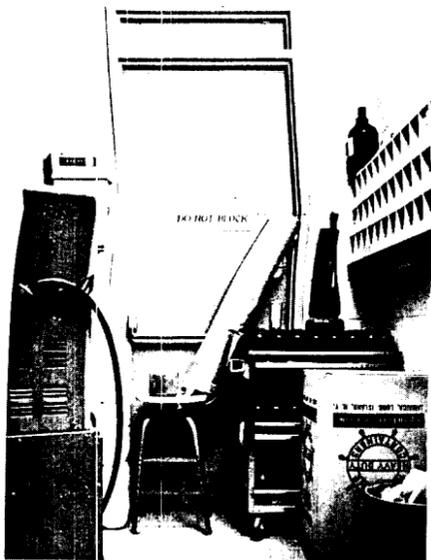
President Richard M. Nixon has proclaimed the week beginning October 3, 1971 as "Fire Prevention Week." This marks the date of the great Chicago Fire of 1871, which killed 250 people and destroyed 17,430 buildings at a cost of \$168,000,000.



Is this your lab?

Fire Prevention Week was originated in 1911 as Fire Prevention Day by the Fire Marshals Association of North America, to encourage public interest in fire safety. On the recommendation of a National Fire Protection Association Committee, it was extended to a week in 1922.

Despite BNL's fine fire loss record, the threat of fire looms over all Laboratory operations. The most elaborate of fire prevention programs cannot guarantee the prevention of all fires.



Prelude to disaster!

Good housekeeping is a major component of fire safety. Every Laboratory employee can be of immeasurable assistance if he or she recognizes the responsibilities of maintaining a neat and uncluttered working area. This can best be accomplished by constant surveillance of areas to make sure rubbish does not accumulate, and to insure rapid removal of unused or discarded equipment. Of particular importance is the prompt and proper disposal of used solvents and chemicals and their containers.

The Laboratory needs the help of every employee to keep fire losses at a minimum. If everyone makes an extended effort to be aware of fire safety, both at work and at home, fires will not take their tragic toll in life and property. Make every week "Fire Prevention Week."

## New Center Schedule

The Fall-Winter schedule for evening services at the Brookhaven Center will go into effect tomorrow, Friday, October 1.

The Center will be open from 5 p.m. until 11:30 p.m. Sunday through Friday. The Tap Room will serve a light menu in addition to beverages until closing.

The Center will be closed all day on Saturdays.

## French Group Meets

The French Group of BNL will meet at 8:15 p.m. on Thursday, October 7, in the North Room of the Brookhaven Center. All those interested in the language or culture of France are welcome to help us plan the activities of the coming year.

## Softball Social

All those who participated in the BNL Softball Program this year have one more scheduled event they are invited to attend. It's a two hour get-together that will feature beer, cheeses and baked ham and an opportunity to say "wait 'til next year!" to the League champions.

The cost for the festivities was included in your entry fee - so you can't afford not to attend. The program for the social will be just that - social and informal. We'll interrupt just briefly to present the victors with their awards, courtesy of BERA. A member of the Awards Committee will be on hand to make the presentations.

See you Wednesday, October 6, 5:00 to 7:00, at the Brookhaven Center.

Sorry - you may not bring guests. This one is only for League members.

## Stony Brook Events

A craft bazaar and sale of student-made handiwork, a showing of von Sternberg's film classic "The Blue Angel," and a lecture in a series debating the benefits of science are among events open to the public this week at the State University of New York at Stony Brook. Unless indicated, the events listed are open to the public without charge.

### Friday, October 1

An exhibition of photographs by Jook Leung, Carl Flatow and Alvin Tramm will be shown at the Stony Brook Union Art Gallery from 10 a.m. to 9 p.m.

### Saturday, October 2

Folksinger Shawn Phillips will perform in a concert sponsored by the Student Activities Board as a benefit for the Stony Brook Infancy School, a parent-operated day-care center, at 8 p.m. in the Gym. Tickets are \$3.00 and are available from the Ticket Office in the Gym, 11 a.m. - 4 p.m. weekdays.

"Kiddie Flicks," Stony Brook's film and cartoon series for children, presents "Big People, Little People," "Autumn," "Some Day," "One + One = Three," and "Calder's Circus," a fascinating look at a miniature circus made of wire figures by sculptor Alexander Calder at 1:30 p.m. in the Stony Brook Union Theater. Donation \$.50.

### Monday, October 4

An exhibit of acrylics and drawings by Walter Winika opens in the Stony Brook Union Art Gallery, 10 a.m. to 5 p.m. The exhibit continues through Oct. 22.

### Wednesday, October 6

Dr. Alfred S. Goldhaber, Assistant Professor of Physics, will report on his recent visit to the Soviet Union in a lecture entitled "A Physicist's Tour of the U.S.S.R." at 4:30 p.m. in Room 147 of the Physics Building.

### Thursday, October 7

Peter Lorre stars in Fritz Lang's masterful crime film "M" and Marlene Dietrich in Josef von Sternberg's classic "The Blue Angel" in a double feature program of "The Cinema: A World Overview," at 8:30 p.m. in Room 100 of the Lecture Center.

"Why Science Should Be Shot" is the title of Professor of Physics Leonard Eisenbud's lecture at 8 p.m. in Room 110 of the Lecture Center, part of a continuing series on "Antiscience," which will seek to analyze this phenomenon in lectures, panel discussions and debates. This series is under the direction of Professor Eisenbud and Professor Nandor L. Balazs, also of the Physics Department.

## Cafeteria Menu

### Week Ending October 7, 1971

<b>Friday, October 1</b>	
Manhattan Clam Chowder	
Roast Beef w/Brown Gravy & 1 Veg.	.85
Fish & Chips w/Tartar Sauce	.80
Poached Haddock w/Creole Sauce & 1 Veg.	.90
<b>Monday, October 4</b>	
Chicken Soup	
Barbequed Roast Pork & 1 Veg.	.90
Jumbo Knackwurst, Sauerkraut & Mashed Potatoes	.80
Macaroni & Chopped Beef, Spanish Style	.85
<b>Tuesday, October 5</b>	
Puree of Split Pea Soup	
Beefsteak Pie w/Vegetables & Biscuit Crust	.99
Southern Fried Chicken & 1 Veg.	.85
Stuffed Cabbage & 1 Veg.	.85
<b>Wednesday, October 6</b>	
Vegetable Soup	
Beef Hash w/Chili Sauce	.80
Broiled Link Sausages w/Scrambled Eggs & French Fries	.90
Florida Shrimp Louisiana	.95
<b>Thursday, October 7</b>	
Cream of Mushroom Soup	
Grilled Rumanian Steak w/Fried Onions & French Fries	.90
Sliced London Broil & 1 Veg.	.95
Cheese Omelet w/Bacon Strips & French Fries	.80

## Bald Tires No Ball

The National Bureau of Standards has recently reported that nearly one-third of all cars in America are running on at least one bald tire. Another report, by the Florida Highway Patrol covering a study of 1,091 fatal traffic accidents, stated that slick or damaged tires was the most prevalent mechanical defect leading to fatal accidents. This means that too many drivers are taking a needless, foolish risk in their everyday driving.

Take a look at your own tires. Make sure that they're not only not getting flat but that there are no cuts or bulges in the tread or sidewalls. Insert a penny into the tread grooves; if you can't cover the top of Lincoln's head, the tire has less than 1/16 of an inch tread and is unsafe and illegal.

Bald tires will cause harsh swerving or skidding during braking. They cause such poor stopping action on wet or icy roads that some people have been known to go to the expense of a brake job without realizing that their tires were causing the trouble. They cause a hydroplane effect at relatively low speeds which can result in complete loss of control while driving on a wet road at highway cruising speeds. Bald tires are also more likely to blow out or have a sudden failure. Naturally, this won't occur at some convenient time when the car is in the garage, but will most likely happen when the tires are under stress, such as rounding an entrance ramp to an expressway, bridge or tunnel. Even if you are able to stop the car safely, you may still be in serious trouble, with high speed traffic (1/2 of which has bald tires!) whizzing close by while you attempt to change the tire.

The old familiar saying "For want of a shoe, a kingdom was lost" applies to tires today. How foolish it is to try to save \$25 to \$100 and instead lose a \$2000 machine or even a human life; especially when modern tires are better than ever, with a choice of regular, radial, studded or wide oval tires in various price ranges to suit all types of driving and loading.

Another saying, more modern, less familiar, but certainly applicable comes from the Italian racing drivers: "Your life is riding on each tire."

—Bill Barnes

## Concrete-Polymer

(Continued from page 1)

a polymer impregnated ceramic for producing a bone substitute material for use as a prosthetic device for medical purposes.

Meyer Steinberg was born in 1924 in Philadelphia, Pennsylvania. He received his B.Ch.E. from the Cooper Union School of Engineering in 1944, and his M.S. degree in Chemical Engineering from the Polytechnic Institute of Brooklyn in 1949. He holds a Professional Engineers License in New York State.

From 1944 to 1947, Mr. Steinberg was an Assistant Chemical Engineer with the Manhattan District for the Kellogg Corp., at New York and Oak Ridge, and the University of California at Los Alamos, performing engineering design and process control work for the production of fissionable material. From 1947 to 1950 he served as an Assistant Chemical Engineer with the consulting firm of Deutsch and Loonan in New York, developing novel, heavy chemical, and metallurgical processes. In 1950 he joined the Guggenheim Brothers Laboratories in Mineola, New York, as an Assistant Project Manager for developing chemical processes by means of high temperature flame reactions, including a process for hydrazine synthesis. Mr. Steinberg joined the Nuclear Engineering Department at Brookhaven National Laboratory in 1957 and became Supervisor of the Radiation Processing Section in 1961.

Mr. Steinberg is a member of the Sigma Xi, the American Institute of Chemical Engineers, the American Chemical Society, the American Technion Society, the Cooper Union Alumni Association, and the American Nuclear Society.

Mr. Steinberg resides in Huntington Station, New York, with his wife and their two children.

## Safety Glasses

There will be no dispensing of safety glasses during the weeks of October 4th and October 11th due to the optician's vacation. For emergency equipment, contact the Safety Office.

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## Arrivals & Departures

### Arrivals

Katsumi Isono.....Biology  
James L. Potts.....P.E.P.  
Patricia A. Valli.....Physics

### Departures

David S. Johnstone.....P.E.P.

## Hospitality News

It's coming - another great Tea and Sherry Party! Featured this time will be things Americana. If you own something special from a particular area of the United States, please contact Polly Van Horn (475-6916) or Norma Chernick (GR5-0168) for its inclusion in this next event aptly entitled

... and Inside U.S.A. Today!

Don't forget to set aside November 11. See you there!

## Concert Tickets

Tickets for the BERA Concert Series are on sale through several department representatives. The price of \$12 for adults and \$6 for those under 18 represents an outstanding bargain for music lovers, providing a per concert cost of \$2.40 for adults and \$1.20 for those under 18.

Tickets for individual performances will be sold at the auditorium door and are priced at \$4 for adults and \$2 for those under 18. A series ticket may save you as much as \$18.

This year's program includes:

Wed., Oct. 20 Cleveland Quartet  
Tues., Nov. 30 Julius Baker, Flutist  
Wed., Jan. 12 Robert White, Tenor  
Tues., Feb. 29 Philadelphia String Quartet  
Thurs., April 6 Albert Fuller, Harpsichordist

Department representatives who will sell tickets are:

DAS - Arnold Aronson  
Manny Hillman  
John Stehn  
Biology - Geoffrey Hind  
- Myron Ledbetter  
Chemistry - Ralph Weston  
Medical - Thelma Becherer  
Ed Popenoe

Tickets for the series are also available at the BERA Recreation Office, and at Berkner Hall on the evening of the concerts. The BERA Concerts are open to the public either as a series or for single admission.

## Reports Available

The following reports are now available to the Laboratory staff and to affiliates of the AEC, AUI, and BNL. Others may purchase them from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22151. Staff members should call Ext. 2256.

BNL 50299 \$3.00  
Membranes, Material Transfer, and Ideal Tracer Theory Leslie F. Nims

BNL 400, 3rd Ed., Vol. II \$10.00  
Angular Distributions in Neutron-Induced Reactions. Volume II, Z=21 to 94

D.I. Garber, L.G. Stromberg, M.D. Goldberg, D.E. Cullen and V.M. May

## IAEA Positions Available

The Office of Scientific Personnel has received new job descriptions for IAEA specialists in the fields of radioentomology.

## Good News For Yoga Buffs

Last winter two sessions of ladies' Yoga classes were held at BNL. The classes met with such enthusiastic favor from those participating, arrangements were made to resume the program this fall. Registration is open to all female employees and wives of employees.

The first class will begin at the Recreation Building on Tuesday, October 12, from 5:30 to 6:30, and will continue for 10 consecutive Tuesdays. A fee of \$20 (\$2 per lesson) will be payable during time of registration at the Recreation Office. Deadline date for registration is October 8 or sooner if the maximum of 20 ladies is reached.



For those who did not attend last year and for all new-comers, Yoga may be considered in three aspects - physical, mental and spiritual, for the purpose of raising man to the highest state of advancement. There are many different paths in Yoga - Yoga of action, wisdom, devotion, etc. In these classes we deal with Hatha Yoga, the philosophy of physical well being. Through a series of asanas (postures) and breathing, you can feel and look much better. You will learn to relax, while maintaining suppleness, increasing vitality and improving your figure.

Anyone can practice Yoga, and learn to do it well. Any age is the right age - no one is too old or too out of shape, for there is a form of Yoga to suit everyone.

The class will again be taught by Suzanna Mughabghab, an experienced teacher.

## Bowling News

Grace Fales

### Red League

200's for the night were J. Berech 219, N. Combatti 218 for the Bio Rads; J. Ferrant 226, R. DeGregorio 204 for the Phoubars; L. Newman 202 for the Alphas, R. Larsen 202, 223/616 series for the Neutrons, and R. Nelson 226 for the Old Timers.

### Pink League

The Pinsplitters are holding on in first place closely followed by the Alley Oops. Marge Stoeckel led the way with 178/499 with Grace Fales not far behind with 177/475. Honorable mentions: D. Bartelt 173, H. Caisey 169, Wilma Quinn 168, E. Murgatroyd 167, Pat Oster 164, Fran Scesny 164, and Mary Austin 162.

The Ladies started a high gross game pot last week which was very successful - 16 entered. Wilma Quinn won it with her 168/243 gross game. Come on gals - it was a lot of fun for only \$.50 - let's make next week even bigger. It's for "gross" game (including handicap) so it's anybody's "pot."

### Staff Services Note

An employee's correct mail address at the Laboratory consists of his name, the appropriate Mail Drop number (shown in the Telephone Directory), "BNL," and "Upton, New York 11973."

Street addresses such as 2 Center Street may be helpful to visitors trying to locate an employee, but on U.S. or Intra-Lab Mail they are superfluous.

## Badminton Birds

The long-awaited finals match in Badminton Doubles was played last Friday and won in two games, 15-10, 15-13, by the team of **Powell (Jim) Richards** and **Raymond (Dutch) Stoenner**.

Although both teams claimed to be in tip-top physical condition and at the peak of training, the play, at least in the early innings, left something to be desired. Perhaps it was the unexpected and unusual presence of the small group of spectators that threw the players off their form and produced a greater than average number of errors such as serves going into the net.

Dutch got his team off to a 1-0 lead on the first hand. **Bob Smol** and **Stu Bookless** went scoreless in their first inning. However, they quickly brought the score up to a 2-all at the end of the second inning and then built up a 5-3 lead at the end of the third. At this juncture, having scored one point, and with Dutch serving on the second hand, **Richards** and **Stoenner** put together a 6-point run to give their team a commanding lead, at 10-5, which they never relinquished. **Smol** and **Bookless** kept chipping away at the lead and got as close as 10-11, but could not close the gap.

**Richards** and **Stoenner** quickly jumped off to a big lead in the second game, piling up five points in the third inning to give them the almost insurmountable lead of 8-3. They maintained the same lead throughout most of the game and extended it to 13-7 before their opponents were finally able to amass more than two points in an inning. From 13-7, the score went to 14-10 and then to 14-13, only to be followed by an unplayable shot down the center which ended the game and the match.

Although **Smol** and **Bookless** demonstrated a wide variety of shots and were masters of the kill, **Richards** and **Stoenner** showed their team play and expertise with a mixture of all-court coverage, difficult recoveries, cross courts, accurate placements, drop shots, and subtle hairpins at the net which kept their opponents off-balance throughout the match.

In both games, **Richards** and **Stoenner** were able to grab an early lead with a big inning; seven points in the first game, and five points in the second game. The best **Smol** and **Bookless** could manage was three points in one inning in the first game, and three points in each of two innings in the second game. Although they came to within one point of setting the second game, the pressure of coming from behind could not be overcome. Had **Smol** and **Bookless** been able to contain their opponents in the early innings, the outcome may have been different.

## Selected Reading

Impact Sci. Soc. 21, April-June 1971

Social responsibility (I): The impact of social responsibility on science. J. Ziman. 113-22

Social responsibility (II): The classical scientific ethic and strategic-weapons development. M. Leitenberg. 123-36

Social responsibility (III): The myth of the neutrality of science. S. Rose and H. Rose. 137-49

The competitive pressures (I): The race for priority. R.K. Merton and R. Lewis. 151-61

The competitive pressures (II): The effects of "publish or perish." P. Piganiol. 163-71

An antidote for anti-science. P. Couderc. 173-9

Science 173, September 17, 1971

International cooperation in science. C. MacLeod and H.A. Minners. 1085

## Football Notes

by Jack Brennan

The Gazelles had a tough time with the Phoubars, winning 20-13. A third Phoubar T.D. was called back because of an off side penalty. A. Fogarty scored two T.D.'s on passes from B. Casey for the winners while James of the Phoubars scored twice on passes from Hlavac.

The High Balls beat the Red Dogs 26-13. J. Crow had two T.D. passes from D. Menago for the High Balls while R. Atkins scored both Red Dog T.D.'s.

The Slow Pokes walloped the Super Sutures 39-0 at T. Prach threw five T.D.'s - three to T. Jesaitis and two to B. Crockett.

	Won	Lost
Gazelles	3	0
High Balls	2	0
Slow Pokes	2	1
Phoubars	0	2
Red Dogs	0	2
Super Sutures	0	2

## Tennis Anyone?



Winning mixed doubles team of Helen Connell and Stephen Feldberg display trophies won in the 1971 BERA Tennis Tournament.



Recreation Director George Sabine (left) presents Men's Singles Champion, Jim Brandon, with a Performance Award Certificate.



The three-time winners of the Walter W. Merkle Doubles Tennis Cup, Andrew Kevey (seated) and Allan Auskern (right), with BERA trophies in hand, are shown where their names will be inscribed by Dan Schaeffer of the Tennis Committee.

## Tennis News

The 1971 BERA Tennis Tournament finally ended last week after nine weeks of competition. Details of last Tuesday's championship play can be found elsewhere in this issue. A list of champions and finalists is given below:

**Men's Singles** - 1. Jim Brandon; 2. Allan Auskern.

**The Walter W. Merkle Men's Doubles** - 1. Allan Auskern & Andrew Kevey; 2. Jim Brandon & Phil Palmedo.

**Ladies' Singles** - 1. Helen Connell; 2. Maryanne Stevens.

**Mixed Doubles** - 1. Helen Connell & Steve Feldberg; 2. Marta Kevey & Andrew Kevey.

Congratulations to all the tennis players who entered the tournament, winners and losers alike! Heartfelt appreciation goes to the BERA organization and, especially, to George Sabine for sponsorship of the tourney. Loads of thanks to the volunteer officials (Andy Kevey, Larry Passell, and Dan Schaeffer) for calling the shots and keeping track of the scores.

Finally, a big hand for the tennis committee for seeding the competitors, trying to keep the tournament on schedule, and reporting the results of play regularly in the *Brookhaven Bulletin*.

The members of the tennis committee for 1971 were Allan Auskern, Jim Brandon, Helen Connell, Steve Feldberg, Dan Schaeffer, and Mary-Jane Stangby.

## It's Brandon Over Auskern

Last Tuesday, **Jim Brandon** played at his steady best to outlast and defeat hard-hitting **Allan Auskern**, 6-1, 1-6, 6-3, in the **Championship of the Men's Singles of the 1971 BERA Tennis Tournament**. Overcoming a 0-2 deficit early in the third set, **Brandon** rebounded to take three games in a row, and, ultimately, the match.

The first two sets followed an almost identical pattern. Service was held in the first three games. A service break in the fourth game then provided the momentum to generate a sweep of the remainder of the set. Thus, the scores of 6-1, 1-6.

Still riding with the momentum, **Auskern** broke **Brandon's** service from 30-40 in the first game of the final set, and then took the second game, while losing only one point. **Auskern** was at his best, forcing errors and hitting winners on an effective return of service coupled with tremendously hard drives to the corners and unreturnable overheads at the net.

**Brandon**, unperturbed in his appearance and deliberate in his actions, continued to play his own type of game, responding to **Auskern's** powerful attack with strong returns, moving the ball well, and making impossible gets while maintaining constant pressure on his opponent. In the third game **Brandon's** steady, consistent play began to show results and paid off handsomely in the fourth, tying the score on successive wins from deuce.

The momentum, now, was with **Brandon**, and he began to follow his service to the net to increase the pressure. Game 5 became the crucial game. It ran for a total of fourteen points, was at deuce four times, with the advantage going to **Auskern** once, before **Brandon** finally succeeded in putting together the necessary two points, back to back.

Both players held service in the sixth and seventh games by identical scores. Each allowed the receiver only one point.

Now, in the eighth game, with the score 3-4, **Auskern** could not afford to lose his service. The game reached 30-40, then deuce, then advantage out. Now, **Brandon** could not be stopped. He took the next point for the game that put him two ahead and really poured it into six strong first services to take a lead of 40-30 followed by game and match.

**Auskern** kept foreing throughout the contest. A bit erratic on service in the first set, with two double faults in the fourth game and a lead-off double fault in the sixth, he steadied in the second set to win easily, taking 33 points while yielding 22. **Auskern** was still foreing during the third set and hitting as hard as ever. However, his shots began to lose accuracy slightly as the match progressed. Some shots now missed, seemingly by fractions of an inch. Since tennis, amongst other things, is also a game of inches and fractions of an inch, this slight inaccuracy ultimately helped to determine the difference between victory and defeat.

## Mixed Softball

C. Falkenbach

The big game of the season was played on Wednesday, September 15, between the Saints and Chemistry, winners of the First and Second Half. They met face to face to match their talents and decide the champions of the Mixed League.

The Saints were held scoreless for the first two innings while Chemistry piled on 5 runs with a home run by John Crump. They had the Saints down in the dumps until the third inning when the tables turned and the Saints went ahead scoring 6 runs. After that, there was no stopping the Saints. Two home runs by Dick Lingg, and others by Frank Short and Vernon Faine kept the runs coming in. Helping out was a triple by Kay Hunt, who in my opinion has been the Saints star shortstop. Great playing Kay! The Saints scored another 25 runs giving them a final score of 31-9. A tremendous catch by 3rd base player Rochelle Nash (Chemistry) made it three outs for the Saints in the 7th. Chemistry was up and scored two runs.

I'd like to congratulate all the players and take this opportunity to thank all the members of the Mixed League.

## Classified Advertisements

### Positions Available

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.

WAREHOUSEMAN (2) - Supply & Materiel. Application deadline: October 6, 1971.

SCANNER - Half time, evening shift. Physics Dept. TECHNICAL SPECIALIST - Bachelor's degree or equivalent in Biology. Experimental animal colony breeding. Medical Department.

For further information, please contact Employment Supervisor, Ext. 2109 or 2513.

### Auto & Auto Supplies

64 FORD 9 PSGR COUNTRY SQUIRE - Auto trans, ps/pb, less than 70,000 mi. \$250. 924-3664.

60 CHEVY CONV - 384.4 bbl, new top, ps, auto trans, r/h, 7 wheels, good cond. Asking \$225. Rich, AN5-0391 after 6.

6 V BATT - 4-6.70x13 4 ply tires, 2-15" 4 lug wheels (MG). Ext. 2814.

67 PLYMOUTH FURY III - Stereo tape, ps, auto trans, reasonably priced. AN5-2889 after 6.

65 CHEVY BELA R - Ps, factory air cond, excel cond. \$650. Ext. 7469, 286-0161.

68 T-BIRD - Full pwr, auto windows, dr locks, trunk release. 4 door model. Best offer. A. Daly, Ext. 2449.

67 MUSTANG CONV - Dk green, blk pwr top, 6 cyl, 3 spd, 43,000 mi, good tires, extra wheels w/snows. Asking \$900. Ext. 2856.

69 BSA 750 CC MOTORCYCLE - Purchased new 1970, low mileage, custom plus extras. \$2200 value, selling for \$1400. 475-0037.

69 RAMBLER AMERICAN - 6 cyl, air cond, auto trans, good rubber, low mileage, excel cond. \$1200. Don, Ext. 673.

69 AMX - 390 cu in, 4 spd, posi, ps, p/disc brakes, mags, low mileage. \$2095. 286-0230 after 6.

68 PLYMOUTH SATELLITE STATION WAGON - 9 psgr, good cond. \$1300. S. Shapiro, Ext. 7606, 929-6527.

63 CADDY - Ps/pb, a/c, auto, needs tune up. \$425. 727-0488.

65 RAMBLER 660 - Overdrive. \$200. K. Fuchel, Ext. 2446.

63 CHEVROLET - Good 2nd car, V8, ps, auto trans. \$100. 744-2821.

1-F70x14 FIRESTONE TIRE - Super sport wide oval. \$12. 727-0488.

65 VW CHASSIS - Started dune buggy. Cheap. Ext. 482.

2 CHEVROLET 15" WHEELS - \$3 ea. Lou, Ext. 2852.

2 SNOW TIRES - Mounted on 4 hole VW rims. \$15 ea. Ext. 7625, LT9-7504.

67 SUNBEAM MINX - 4 dr sedan, r/h, auto trans, 25 mpg, good cond. \$750. Jake, Ext. 2719.

64 CHEVELLE MALIBU - 2 dr htdp, auto trans, r/h, front bckts, body not so good but excel running cond. \$325. Jake, Ext. 2719.

62 PLYMOUTH FURY - 6 cyl, std shift, 2 new tires, new exhaust, runs well, needs clutch work. \$100. I. McLaren, Ext. 7683.

66 MERCURY COMET WAGON - Std trans, excel cond, good tires, new brakes, batt, shocks, muffler. \$850. Bruno, Ext. 7601, 744-5892.

CHEVY VAN - Red, very good cond, paneled & carpeted. 744-9686 after 5.

65 MUSTANG - V8, 289, 4 spd trans, good cond. \$525. M. Pullen, Ext. 7500.

15" RAMBLER RIMS - \$2.50/both. M. Strongson, Ext. 2727.

63 KAWASAKI 4-CYCLE - 650 cc, 10,000 mi, good cond, semi chopped. \$800 or best offer. LT9-6280.

64 CHEVELLE STATION WAGON - 4 dr, V8, auto trans, ps, very good cond. \$500. Ext. 7374.

67 FORD GALAXIE 500 CONV - 289, very good cond. \$1000. 475-6460.

68 ROYAL ENFIELD MOTORCYCLE - 750 cc, excel cond. Must sell, best offer. 924-3642.

63 PONTIAC BONNEVILLE - 2 dr htdp, r/h, auto trans, ps/pb, pwr windows, 1 new tire, excel cond. Nagy, Ext. 2560, Ext. 2786 after 6.

68 CHEVROLET BELAIRE - 4 dr, auto trans, excel cond, good rubber, 1 driver. \$750. 286-0688.

69 BUICK LE SABRE - A-1 cond. \$1850. EM3-9535.

70 FORD CLUB WAGON VAN - V8, psgr, w/2 snows, excel cond. Asking \$2500. 981-0178 eves.

MUSTANG PARTS - Valiant hubcaps & ps pump; 6.50 x13 rim. Ext. 2814.

BRIDGESTONE TMX TRAILBIKE - 100 cc, excel cond, 1 yr old. \$300 firm. 732-3296 after 5:30.

63 BUICK LE SABRE - 4 dr htdp, excel cond, air cond. \$150. 475-9294.

65 FORD STATION WAGON - Needs some work, \$275; 60 DeSoto, \$75. Pat. 924-8539.

3 GOOD SNOW TIRES - 8.45x15 + 2 GM rims. \$25 takes all. Charlie, Ext. 451.

63 FORD STATION WAGON - V8, auto trans, in running cond, but needs some work. Ext. 7617.

W/W TIRES - 2-7.35x14 polyester, 1-6.00x13. \$4 ea. 286-3829.

TIRES - Dunlop 7.00x13, 2000 mi since new. Orig \$60, sell \$40. 475-7227.

CLASS "A" TRAILER HITCH - Mustang, \$25; 4 lug 6.95x14 studded snows & wheels, Mustang, \$15 ea or \$25/pr. Ken, Ext. 7821, 744-6174.

70 BUICK LE SABRE CUSTOM - Blue Tudor htdp, blk vinyl int & roof, 17,000 mi, reg gas, 3 spd auto trans, air cond, ps/pb, w/w. Al, Ext. 2368.

### Boats & Marine Supplies

20' FIBERGLASS CRUISING SLOOP - Sleeps 4, 4 bags of sail, well equipped, end of season price. Ext. 2993.

16' OUTBOARD CABIN CRUISER - 40 hp eng, Tee Nee trailer, many extras, all excel cond. 744-8268.

35' HOUSEBOAT 1970 - Leisure Line, fiberglass, 225 hp Chrysler 10, equipped for yr round living, excel cond. \$11,000. J. Cook, 585-3896.

DUCK BOAT - W/duck & goose decoys, good cond. \$150. 286-8831 after 6.

32' CHRIS CRAFT SEA SKIFF - 1970 twin 210 hp f.w. cooled-35 hrs, Flying Bridge, radio, telephone, many extras. \$8900 firm. 473-1440, 9-4:30.

BOSTON WHALER 1961 - Sakonnet, 65 & 7 1/2 hp Mercury, depth finder, tachometer, trailer, extras, must sell, excel cond. Barbara, 286-8633.

SOUTH COAST 23' SLOOP 1971 - Hard, main, genoa, spinnaker, good working jib, #2 genoa, spare main, bow & stern pulpits, cockpit, 6 hp Evinrude, extras. Pat, Ext. 574, 744-8623.

OUTBOARD MOTOR - 5 1/2 hp Johnson sea horse, little used, extra prop, 2 gas tanks. \$80. Ext. 2959, 286-0295.

16' DAY CRUISER - W/Tee Nee trailer, fiberglass, sleeps 2, 40 hp, 2 tanks, full canvas, many extras. 744-8268.

INFLATABLE BOAT - 4 air chambers, very stable, Metzeler Twig, seats 4, can take 4 hp motor, up to 20 mph, windshield, transom, wood int, collapsible oars, excel. \$250. Ext. 2959, 286-0295.

### Miscellaneous

17 1/2' DUTCH CRAFT TRAILER - Used twice. Excellent cond. Sleeps six, refrig, bathroom sink, 3 burner stove, oven, extras. \$2,200, 473-5663.

PARKER LAWN SWEEPER - Excel cond. \$15. 286-8256.

3 PICTURES - Liv rm or den, NY skyline 1 lg, 2 sm, blue green, gold coloring. \$15. 286-8256.

10 GAL METAFRAME AQUARIUM - \$4. Ext. 2515.

GE FLOOR WAXER-POLISHER - \$20. Ext. 2515.

SURFBOARD - Design 1, 7'. \$55. 581-0932 after 6.

SINGER SEWING MACHINE - Commercial style. \$50. Ext. 7625, LT9-7504.

SKI BOOTS - Men's size 13, lace, good cond. \$15. Ext. 7353, 587-9372.

DIN RM FIXTURE - 10 candle crystal chandelier, \$30; wall mirror w/etched mirrored frame, 58"x42", \$60; both/\$80. 289-2812.

FIREWOOD - Split oak. \$30. 286-3829.

18' NORRIS TRAVEL TRAILER - Self cont, sleeps 6, refrig, stove, oven, heater. \$1775. 475-0037.

HOUSE/YARD SALE - 10-5, Oct 2&3, useful, unusual, some antiques, browse - rain or shine, 470 Neighborhood Rd, Mastic Beach. Ext. 7420.

GE WASHING MACHINE - Use for parts. \$5. Joe, Ext. 481.

2 USED TYPEWRITERS - 1 portable Royal 3 yrs old, 1 portable Olympic 6 yrs old. 286-0269.

ELEC TOASTER - Less than 1 yr old. \$9. S. Shapiro, Ext. 7606, 929-6527.

SHERIDAN AIR RIFLE - Silver streak model, w/Sheridan-Williams peep sight, sighted in, brand new cond. \$33. G.F. Buhl, 744-2506.

SKIS - Children's 4' binding, 2 poles, \$6; boot lace size 13, \$6; boot buckle size 2, \$9. Ext. 7353, 587-9372.

TRAILER - Detroit 16', icebox, stove, sink, heater, sleeps 4, 6 ply tires, 2 elec systems. \$1395. 585-8322.

FISH TANK STAND - Fits 15 or 20 gal tank. \$10. 924-5149.

AQUARIUM - 10 gal, metal frame, like new, good fish aquarium or hamster cage. \$8. Lloyd, Ext. 7314, 325-0389.

LIV RM CHAIR - Very comfortable, almost new, nylon upholstery. Orig cost \$150, asking \$65. Ann, 286-2280.

HORN - For antique talking machine w/o adapter. \$40 firm. Ext. 418, 732-2204.

FORMICA KITCHEN TABLE - \$5; upholstered chair, \$20; oriental rug, 10'x11', \$75. L. Kukacka, 473-1157.

LADIES' ICE SKATES - White, size 7 1/2, very good cond. Barb, Ext. 7248, 751-2063 after 6.

2 WHITE RUGS - 3'x5' Karastan all wool, excel cond. Barb, Ext. 7248, 751-2063 after 6.

2 PORCH ROCKING CHAIRS - Alum w/tubular plastic webbing; lamp table, 2 tier, nutmeg mahog, glass top, 25" dia, excel. Barb, Ext. 7248, 761-2063 after 6.

DRUM SET - Compl set, 3 tom-toms, bass, snare, hi-hat, cym. Orig \$200, sacrifice \$125. 475-7227 after 5.

7' POOL TABLE - Used very little, no sticks. Best offer over \$40. Mrs. A. DiDio, 286-0372.

CONTEMPORARY LIV RM FURN - Sofa, 2 lamps, 2 end & cocktail tables, indoor hibachi, etc., like new, come see. 878-2972.

IN GROUND SWIMMING POOL COVER - Water sleeve type, heavy gauge vinyl, aqua color, brand new. 724-2932.

MET OPERA TICKETS - Fridays, Family Circle center, 2 ea for Carmen on 11/19, La Forza Del Destino on 12/24 & Falstaff on 2/25. Bob, Ext. 2934.

WOODEN STORM WINDOWS - 5 ea 27 3/4x55 3/4 & 2 ea 27 3/4x47 1/4. \$2 ea. B. Lundgren, Ext. 7782.

INTERIOR & EXTERIOR PAINTING - Pt Jeff area, done eves & weekends. Stan, Ext. 2395.

LIV RM FURN - Contemporary sofa, built-in marble end tables, \$50; matching oversize rotating hassock, \$25; chair, \$25; glass-topped table w/planter, \$25. 286-1213 before 10:30 am & after 5 pm.

BEDRM SET - Walnut Danish mod, single bed w/ headboard, matt & boxspring, dresser (6 drawers); desk w/chair, excel cond. \$100; 27"x43" mirror, \$20. Barb, Ext. 7248, 751-2063 after 6.

BEAUTIFUL MAHOG CREDENZA - Like new, 6'x1 1/2', combination silver, dish, linen storage, & hand-tooled leather desk. Domish, Ext. 648, 744-0235.

BAMBOO LOUNGE CHAIR - Caterpillar cushion, good cond. \$20. Ext. 2293.

23" TV CONSOLE - Solid walnut cabinet, 4 speakers, phono jack, need deflection yoke, best offer. 732-5829.

STOVE - Bottle gas 20" Norge. \$25. Susan, Ext. 670.

SONORA HAND CRANK RECORD PLAYER - Floor model. \$50. Mrs. Heinrich, 744-6211.

CARPENTER SAW - Sears 7" w/carbide blade & dado set, \$15; power plane - Sears, \$20; 2 spd Sears saber saw, \$15. Ron, Ext. 610.

ROD & PISTON PUMP - Deming deep well. \$25. R. Meyer, Ext. 481, LT9-5757.

GE MAGIC MAID DISHWASHER - Good cond. \$50. R. Meyer, Ext. 481, LT9-5757.

KITCHEN SET - Formica table & 6 chairs, good cond. \$70. R. Meyer, Ext. 481, LT9-5757.

WOODEN HIGH CHAIR - \$6; fireplace tools, wrought iron, \$5. Barbara, 286-8633.

TAP SHOES - Little girl's size 11 1/2, blk patent w/ties, like new. \$4. Dick, Ext. 7239.

ELEC ORGAN - Storey & Clark Model 75-R, boudoir chair, \$45; photo enlarger, Exact 66, \$50. Ted, Ext. 2406, 265-3364.

7 FOLDING BRIDGE CHAIRS - Mahog w/plastic seats, good cond. \$10. Barb, Ext. 7248, 751-2063 after 6.

CORNET W/CASE - Made in France, good cond, excel for beginners. \$30. Ext. 2902.

LAWN MOWER - \$20. Ext. 2814.

BROILER-ROTISSERIE - Lg size Farberware open type, like new. \$35. M. Halbert, Ext. 7581.

INTERIOR PAINTING - Done eves. For info & estimate, 924-4539 eves.

BOY'S ICE SKATES - Sizes 4 & 5, \$5/pr; meat slicer, \$5; crib & mattress, \$15; Ken, Ext. 7821, 744-6174.

15' ROVER TRAILER 1970 - Sink, stove, icebox, porta pottie, spare wheel, awning, sway control. Ken, Ext. 7821, 744-6174.

WASHING MACHINE - Sears Kenmore, about 3 yrs old, in good cond, make offer. 286-9616 after 6.

DOUBLE OVEN STOVE - 1 yr new, auto clock, timer, must be seen \$175. Ken, Ext. 7821, 744-6174.

### 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

1/2 ACRE - Located in Hamlet of Brookhaven, close to water. R. Meyer, Ext. 481, LT9-5757.

### For Rent

E. PATCHOGUE - 12/1/71-4/1/72, furn 4 bedrm house, attractive neighborhood, very reasonable. 475-1844.

### Wanted

TYPING - Term papers, etc., to do at home. Carol, Ext. 7694, 727-0488.

12" RIMS - 4 lug, w/wo tires, needed for Cox trailer. Andy, Ext. 2592.

USED TRAILER & TOOL SHED - 878-1456 after 4.

HOME - For 2 adorable kittens, 2 mos old, 1 part-Siamese, female, 1 beige & white male. EM3-6121.

HOUSE TO RENT - 2 bedrms, preferably unfurn, within 15 min if Lab, reasonable, from 11/71 or 12/71. Bette, Ext. 2380.

GOOD USED CLOTHES WASHER - Must run well, 8 lb cap suf, looks no object. Claire, Ext. 7420.

SERVICE MANUAL - For Pontiac GP 1964. Anand, Ext. 2713.

HOME - Great Dane for adoption, female brindle, 2 yrs old, cropped, has all shots, very good w/children. 281-9570.

BIKE - 10 spd, lightweight, in good mech shape, cheap. Steve, 286-0534.

CRANK HANDLE - For antique talking machine. Will pay \$10 if it fits. Ext. 418, 732-2204.

B<sup>b</sup> CLARINET - In fine cond. S.N. Earle, Ext. 583.

HOUSE TO RENT - Unfurn 2-3 bedrm house within 20 mi of Lab starting 12/71. Bob, Ext. 629, 325-0626.

BOY'S 20" BIKE - Typewriter for young student. J. Crow, 286-3726.

BABYSITTING - Mother of 2 wishes to care for your child in her home in Bellport. Nene, 286-2412.

WORLD BOOK ENCYCLOPEDIA - Recent edition in good cond. K. Riker, 281-5565.

SPINET PIANO - In good cond. A. diPrima, EM3-2024.

HOMES - For 1 calico angora female (Persian), 1 Burmese Siamese male (w/o Siamese wail), 1 lovable alley cat, kittens, 4 mos old. Ext. 7733, 744-5219.

TOM'S TV & RADIO REPAIRS - Expert TV service in the evening at minimum costs. 878-0567.

TO RENT - Couple desires unfurn house or apt, no children, no pets, will furnish references, security. Wells, Ext. 2772.

TREE REMOVAL OR CHAIN SAW WORK - Also light hauling. Ken, 924-4539 eves.

### Carpools

DAILY AUTO COMMUTER FROM NYC - Would welcome occasional rider(s). A. Hull, Ext. 595.

STONY BROOK/STRATHMORE AREA - S. Heller, Ext. 2583; Strongson, Ext. 2727.

TO AND FROM - Or just to work in am, Mastic Rd, Mastic or Mastic Beach area. Ext. 2816.

JOIN OR FORM CARPOOL - Centereach vicinity. Louise, Ext. 482.

### Lost & Found

LOST - Will the person who took the U.S. Statistical Abstracts from the Research Library please return it?

### Classified Ad Policy

Deadline is 12 noon Friday for publication the following week.

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

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

<input type="checkbox"/> For Sale: Auto & Auto Supplies	<input type="checkbox"/> Wanted	Check <input type="checkbox"/> the heading applying to your ad. Print or type your ad in 20 words or less.
<input type="checkbox"/> For Sale: Boats & Marine Supplies	<input type="checkbox"/> Carpools	
<input type="checkbox"/> For Sale: Miscellaneous	<input type="checkbox"/> Lost & Found	

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 112, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

Employee's Signature ..... Life No. .... Ext. ....  
Send to: Brookhaven Bulletin, 40 Brookhaven Avenue