



## AEC - Brookhaven Changes Announced

Mr. Lyman Bryan was selected last Friday by NY Operations Office Manager Wesley Johnson to fill the position of Area Manager, Brookhaven Area Office, following the retirement of Emery Van Horn. His selection of Mr. Bryan, made after Mr. Johnson spent a week flying across the country to interview other candidates, is expected to be confirmed by the AEC Commissioners within the next few days.

Mr. David Schweller, a nuclear engineer who has served as an assistant director for reactors and safeguards at Brookhaven, has been appointed Acting Area Manager during the period following the retirement of Acting Area Manager Gordon Stubbing, on July 31.

Johnson also travelled to Washington last week to discuss the organization and needs of the area office with various program division directors and Assistant General Managers. As a result of this trip he has decided to establish three branches within the Brookhaven Area Office: Administrative, Engineering and Construction, and Operational Safety. Mr. Schweller will be Chief of the Operational Safety Branch, with responsibility for advising and assisting the Area Manager in all areas of operational safety such as reactors, criticality and radiation safety, accident and fire prevention, industrial hygiene, emergency planning, environmental controls, and storage and shipment of radioactive materials. Mr. Schweller will serve as Acting Area Manager in the absence of the Area Manager.

Accompanying Mr. Bryan to Brookhaven to head up the Area Office's Administrative Branch will be Mr. Sydney Saxon, Director, Contracting and Procurement Division, NY Operations Office. He will be responsible to the Area Manager for such functions as administering the AUI contract, negotiating and administering the off-site industrial contracts (safeguards), reviews of subcontracts and purchase orders, management information system, liaison with New York in the administrative areas.

Also transferring to BNL will be Mr. Don Carden, Chief, Engineering & Construction Branch. Mr. Carden will be responsible to the Area Manager for all engineering and construction activities at the Brookhaven site.

Johnson said that he intends to increase the staff ceiling of BAO by two additional positions as a result of the above moves.

Other organizational changes affecting BAO were announced. The two auditors presently on the BAO staff, John Kay and John Manzi, Jr., will report directly to the Chief of the Audit Branch, Budget & Finance Division, N.Y., Mr. Harry Klein. Mr. Harmon Potter's patent group of Brookhaven will report directly to Mr. Martin Samber, Chief Counsel, N.Y.

## Manowitz Appointed To Isotopes Committee

Bernard Manowitz, Head of the Radiation Division of the Department of Applied Science, has been appointed to the 12-man committee which advises the AEC on programs to develop new applications of radioisotopes.

AEC Chairman Glenn Seaborg also announced at the same time the appointment of Dr. Ira L. Morgan as Chairman of the Committee. Dr. Morgan is Director of the Center for Nuclear Studies at the University of Texas at Austin. In addition to Manowitz, others appointed to the Committee were: Dr. Vincent P. Guinn, Professor of Chemistry at the University of California, and Edwin A. Wiggin, Manager of Technical Projects for the Atomic Industrial Forum.

The Fall meeting of the Advisory Committee on Isotopes and Radiation Development will be held in Washington, D.C.

## Safety Shoes

There will be no issue of safety shoes on Monday, August 17th, and Thursday, August 20th.



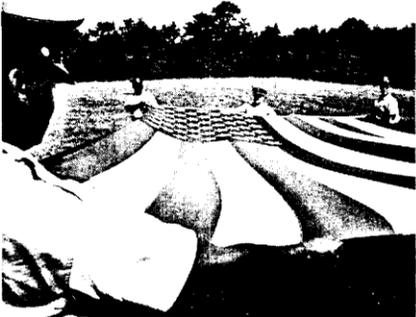
The newly-acquired "Garrison" flag that is displayed on the 65' flagpole in front of the Brookhaven Center. Photo by Humphrey

## New Flag Flies High And Handsome

Recently acquired by the Security Division, a handsome new flag has been flying from the flagpole in front of the Brookhaven Center on all good days for the past month. The new National Flag, which is similar to a "Garrison" flag used on army posts, is considerably larger than the flag that is displayed when weather is changeable or unsettled.

The standard flag used at Brookhaven measures 6x10 feet, and is made of cotton. The new flag, which is 12x18 feet, is made of 25% wool and 75% nylon. BNL's flagpole, where the flag is displayed, is 65 feet tall, and is counterweighted so that repairs can be made without the need of a man climbing up the pole.

Each morning at sunrise the flag is raised except when the weather is inclem-



The size of the new flag can easily be seen when it is held before attaching it to the halyards of the flagpole. Patrolman James Goode, Patrolman Beverly Gwathney, Captain Frank Bugala, and Patrolman Henry Weinmann stretch out the new flag.

ent. Directives for flag etiquette are followed, and the two men on the flag detail raise the colors in a brisk manner. Each evening, at the official time for sunset, the flag is lowered by another two-man detail, and the flag is folded properly in an envelope fold for storage at Security Headquarters until used again.

If, during the day the weather turns bad and either high winds, rain, or hail occurs, the flag is lowered in accord with proper flag procedure as outlined in Document No. 165, GPO, as issued by the 90th Congress in 1967.

During the course of a year, from 10 to 12 of the standard size flags have been worn out by the weather. The new flag is expected to last longer, but as yet no ex-



Captain Frank Bugala holds the folded regular flag, while Patrolman James Goode holds the new "garrison" flag. The stars on the new flag are considerably larger than the stars on the smaller flag.

perience has been gained as to just how long.

In addition to the two sizes of flags mentioned above, Security has on hand a New York State flag, and a Navy pennant used as a courtesy whenever naval officers of high rank visit.

On Memorial Day the flag is flown at Half-staff until noon, and then raised to full staff till sunset. When a Presidential proclamation calls for flying the flag at Half-staff, the flag is kept in that position all day.

While there is no ceremony at flag-raising each day, all of the members of the Security Division take pride in raising and lowering the flag in as smart a manner as possible.

## Coming Attractions

- 8/6 BERA Movie - "The Navigator" and shorts. Berkner Hall - 8:30 p.m.
- 8/10 Art Show Opening Berkner Hall - 8 p.m.
- 8/12 Naval Reserve Meeting - "The Energy Supply for the Next Decade" - Dr. Vance Sailor. Brookhaven Center - 7:30 p.m.
- 8/13 BERA Movie - "Still A Brother" and shorts. Berkner Hall - 8:30 p.m.

## AGS Seminar Room Dedicated To Snyder

On Friday, August 7th, simultaneously with the celebration of the 10th anniversary of the operation of the AGS, the Seminar Room in the AGS Building will be renamed the Snyder Seminar Room in memory of Hartland S. Snyder, who was one of the leading members of the Brookhaven staff from 1947 until his death in 1962. A plaque inscribed to his memory will be installed in the Seminar Room Lobby, and a photograph of it will be presented to Snyder's widow, Mrs. Mary Margaret Snyder.

Hartland Snyder is best known for his contribution to strong focusing, the principle underlying the AGS and many other large high-energy accelerators including the 200-500 GeV accelerator now under construction in Illinois. In the summer of 1952 Snyder discovered, together with E.D. Courant and M.S. Livingston, that if in an accelerator the magnets are arranged so as to be alternately strongly focusing and strongly defocusing, the result is a strong net focusing effect making it possible to build large accelerators with much more compact magnets than had previously been thought necessary (making all magnets strongly focusing is impossible because it so happens that a magnet that is strongly focusing in the horizontal direction is strongly defocusing in the vertical direction, and vice versa). Snyder's particular contribution to this discovery was his physical insight into the theory of the focusing effect, based on his thorough grasp of the principles of optics and mechanics.

Snyder was born in Salt Lake City, Utah, February 24, 1913. After attending the University of Utah he did graduate work at the University of California in Berkeley, receiving his Ph.D. under J. Robert Oppenheimer in 1940. A particular achievement during this period was a theory he worked out with Oppenheimer on the gravitational collapse of heavy stars - a topic which is now very much alive in astronomy with the discovery of quasars and other strange celestial phenomena.

He then joined the faculty of Northwestern University and, in 1947, came to Brookhaven together with S.A. Goudsmit to help start this new National Laboratory. He contributed to many parts of the research program here, including the theory of cosmic radiation, scattering theory, and quantum field theory, as well as the building and testing of the Cosmotron. He also participated in the early activities of Project Sherwood (the program for obtaining controlled thermonuclear reactions, that is to produce usable power by hydrogen fusion), especially in the DCX program at Oak Ridge.

Following the discovery of strong focusing, Snyder took a leading part in all aspects of the construction and design of the AGS, not only working on the theory but also spending long hours at the controls of the electron analogue, the magnet test facilities, and the AGS control room. In 1960 he took a leave of absence to work on the Cambridge Electron Accelerator, (Continued on page 2)



Hartland S. Snyder

# Tandem Van De Graaff Begins Operations

The world's highest energy Van de Graaff system achieved its design aim of accelerating hydrogen ions to an energy of 30 MeV recently, the first time it was put to the full test at Brookhaven National Laboratory.

One of the unusual features of the Tandem Van de Graaff installation is that it can be used to accelerate almost any kind of negatively or positively charged particle man is capable of producing. According to Dr. Harvey Wegner, project leader, the energy level can be boosted to over 300 MeV for heavier elements, such as bromine, by using special techniques to strip large numbers of electrons from the atoms. In fact, part of the initial test runs included oxygen ions in which all eight electrons had been stripped from each atom and the resultant ion was accelerated to 98 MeV.

Dr. Maurice Goldhaber, BNL's Director, described the Tandem Van de Graaff facility as "... not only the newest and largest of its kind in the world, but the most versatile and one that brings a new dimension to the study of the micro-world of the atom. Since the energy gain is so large in this facility, some of the very heavy ions can be accelerated to energies sufficient to cause them to fuse with other types of heavy ions, thereby producing new and previously unknown radioactive nuclei."

It is anticipated that up to 50% of the research time of this newest Brookhaven accelerator will be used by scientists from universities and other laboratories. The Laboratory has consistently encouraged scientists from universities to plan on using this unique facility. This is the tradition at Brookhaven, where large research installations have been constructed for the use of scientists from universities and other laboratories, as well as for the use of Brookhaven scientists. Some experiments have already started and there are at least a dozen more in various stages of planning or assembly. Scientists from other laboratories are on hand this summer planning additional experiments with the Brookhaven staff to keep the three experimental stations in use plus the six more that will be completed in the near future.

### BNL's Tandem Unique

At the present time there are six other MP-type Tandem Van de Graaff accelerators operating in the world. The BNL facility is the only one with two such accelerators in line and is the only one with

an ion source inside the terminal of the first machine for three-stage operation. All of the component parts of the ion source must be able to operate within an environment of 10,000,000 volts, and the various controls for the ion source must be coupled to the ends of the pressure vessel by means of insulating rods of plexiglas. Since no commercial device of this type was available, the ion source assembly was designed, engineered, and constructed at Brookhaven.

The Tandem Van de Graaff project was initiated by Dr. D.E. Alburger in 1962. The AEC provided \$12 million for the project. A completion date of July 1970 was set in 1966 when the design was completed. The final cost was within one percent of the original estimate, and the target date was met on schedule.

The Tandem facility is built into a hillside on Cornell Avenue. A concrete roof topped by six feet of earth provides the overhead radiation shielding. The experimental target rooms are separated from the accelerator room by four-foot thick concrete walls, while the office space is shielded from the rest of the facility by six-foot thick concrete walls. Over 15,000 cubic yards of concrete were used in its construction. Radiation safety for persons both inside and outside of the building has been a prime consideration.

Both of the MP Tandem Van de Graaff accelerators were designed and manufactured by the High Voltage Engineering Corporation, Burlington, Massachusetts.

Dr. Harvey E. Wegner, who served as project manager during design and construction, will manage the facility jointly with Dr. D.E. Alburger now that the research programs have commenced. Key personnel who worked closely with Dr. Wegner on the construction include Dr. Paul C. Rogers, Dr. G. Norris Glasoe, Dr. J.D. Larson, John A. Benjamin, Kurt F. Minati, George E. Schwender, Irving L. Feigenbaum and Robert A. Lindgren.

The Tandem facility was funded by the U.S. Atomic Energy Commission, with Mr. A. Marino of the Brookhaven AEC Office providing key liaison between the AEC and the project team. According to Dr. Wegner, "Many other people were and are involved, including BNL staff and visitors as well, and it is the overall team effort of the entire group that resulted in success on schedule and within the budget."

# Former Staff Member Dies In Germany

Word has just reached the Laboratory that Dr. Josef Zähringer, member of the Directorate of the Max Planck Institute of Nuclear Physics and Honorary Professor at the University of Heidelberg, Germany, died in a car accident on July 22.

Josef Zähringer came to BNL in 1956 and worked for two years, first in the Physics Department and then in the Chemistry Department. It was at this time that the techniques of determining the age and cosmic ray history of meteorites by measurement of their radioactive and stable nuclide content were in a rapid stage of development.

While at BNL, Josef Zähringer made many important contributions to this field, measuring potassium-argon ages of meteorites, spallation yields of rare gas products from iron and nickel irradiated with high-energy protons, and the rare gas content of iron meteorites.

Returning to the Max Planck Institute at Heidelberg he initiated their extensive

and world renowned program in the field of cosmochemistry and most recently was a principal investigator in the NASA program analyzing lunar material.

Those at BNL who had the pleasure of knowing and working with him deeply mourn his untimely death.

## Service Awards - August

### 20 Year

Hrabak, George.....Physics  
Wilson, Patricia.....Physics

### 10 Year

Baker, Robert.....Accelerator  
Gardner, Donald W.....Mech. Eng.  
Kuehl, Fred H.....Accelerator  
McNulty, Frank J.....I. & H.P.  
Miczianka, Edward S.....P.E. & P.  
Mitchell, Ralph A.....P.E. & P.  
Munoz, George J.....Physics  
Ritter, Evelyn F.....Chemistry  
Sives, Edward E.....P.E. & P.  
Solovey, Susanna R.....Physics  
Thompson, Dorothy K.....I. & H.P.  
Whitney, Norman A.....Accelerator

## Arrivals & Departures

### Arrivals

Margaret H. Hedrick.....Staff Services  
Marianne E. Mucci.....Physics  
Min-Shih Chen.....Physics

### Departures

William J. Hoffelmeyer.....I. & H.P.  
Charles W. Kim.....Medical  
William L. Knapp.....Director  
Joseph Nocar.....Central Shops  
Carol L. Pfeiderer.....Medical  
John L. Schwarz.....Physics  
C. Lewis Snead.....Physics  
Gerald L. Warner.....I. & H.P.  
H. Michael Widmer.....Chemistry

# Energy Supply Forecast At Naval Reserve Lecture

On Wednesday, August 12, Dr. Vance Sailor of BNL will be the guest lecturer at the Naval Reserve meeting at the Brookhaven Center at 7:30 p.m.

Dr. Sailor, who is active in the affairs of the Suffolk Scientists for Cleaner Environment and Safer Power, will discuss the need for energy in the next decade as well as the various ways in which this need can be met.

All staff members of Brookhaven are invited to attend this lecture.

# Crafts By Americans At BERA Art Show

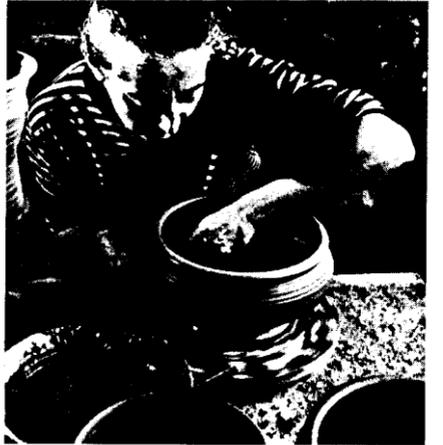
BERA's next art show, *The Fine Crafts*, is currently being assembled in the meeting rooms of the Conference Center for its opening on August 10. The show will display the works of six prominent American Craftsmen. Each of the artists whose works will be shown has made an original contribution to the evolution of his craft and each has an international reputation in his field.

The two ceramicists whose work will be shown represent quite different approaches to their craft - a craft which has undergone perhaps the longest and most concerted evolution of any of man's artistic fabrications. Karen Karnes, whose studio is in Stony Point, New York, is particularly well known for her work in traditional forms of pottery - vases, pots and dishes. The works to be shown at Brookhaven are salt-glazed stoneware in which classical

# David McReynolds To Speak

David McReynolds new book is entitled "We Have Been Invaded By The 21st Century." His talk at BNL will focus on the technological, social and political changes of the sixties with the probable effects of these changes during the seventies.

This non-official program will be held in the north room of the Brookhaven Center at 8:30 p.m., Thursday, August 13, and is sponsored by the Brookhaven Moratorium Committee. The program is open to all Laboratory employees. Families and personal friends may accompany staff members on this occasion.



Karen Karnes - Ceramicist

materials, ranging from silk and nylon to sea grass and pelican bones, works aesthetically only because of the artistry with which she manages her craft. Becherer, whose work has been shown at the Victoria and Albert Museum in London and is in the permanent collection at the Museum of Modern Art, also happens to work in the Medical Department at Brookhaven. Complementary fabric techniques will be represented in the exhibition in the work of Wanda Patterson whose studio is in Manorville. Another unusually versatile craftsman, Patterson will show fabric collage wall hangings, applique, silk screen prints and stitchery.

As the crafts, at their best, become true arts so, in some instances one sees clear influences of traditional art forms on crafts. The jewelry by Irena Brynner and Glenda Arentzen in the Brookhaven show, for example, reflect some of the best qualities of contemporary sculpture. In fact, Brynner, who works in New York City, began her artistic career as a sculptor and has been influenced by architectural as well as sculptural forms. Her jewelry which is usually in gold is produced by the lost wax process and often incorporates precious stones. Her work has been shown around the world and is currently part of the American exhibition at the Venice Biennale. Arentzen, whose studio is also in New York, has moved even further from traditional techniques and transforms brass,



Thelma Becherer - Weaver

forms have been interpreted within the freedom of contemporary design and technique. The work of Jolyon Hofsted has pushed ceramics beyond traditional utilitarian limitations into the realm of pure sculpture. Hofsted, who is internationally recognized as a teacher as well as an extremely versatile ceramicist, is currently the Acting Director of the Art School of the Brooklyn Museum.

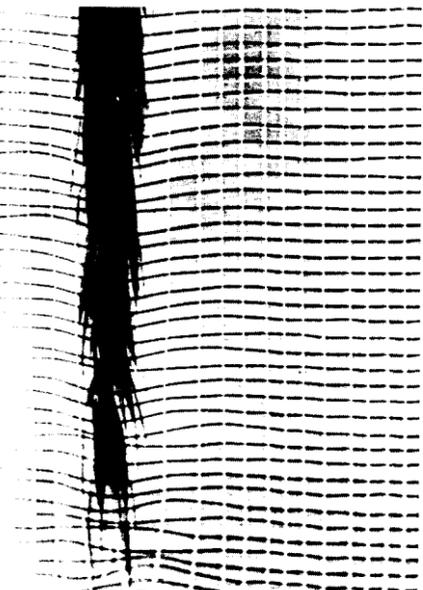
The tendency of the best contemporary crafts to impinge on or overlap with the fine arts is a phenomenon that is well documented in this show and illuminates the meaning of the title of the exhibition. The weavings that will be shown by Thelma Becherer, for example, are as purely artistic as any painting or sculpture. The interest generated by her use of a great variety of



Wanda Patterson - Fabric Crafts

stainless steel, feathers and semi-precious stones into the stuff of fine jewelry.

The BERA Art Committee considers itself most fortunate in being able to obtain fine examples of the highest quality of American Crafts. All members of the Brookhaven Community and their friends are invited to the opening at 8 p.m. on Monday evening, August 10. Several of the artists will be present for the opening. The exhibition will be held in the Meeting Rooms of the Conference Center, 11 Brookhaven Avenue, and will be open during the week from August 11 to August 21 from 11 a.m. to 5 p.m. The show will also be open on the evenings of August 13 and 20 from 7 to 8 p.m.



Weaving by Becherer

# Snyder

(continued)

where he made major contributions to its success. He then went on to Berkeley, where he was working on ideas for very high-energy accelerators when he died of a heart attack in May 1962.

In his last years at Brookhaven, Hartland Snyder suffered several heart attacks. While laid up in the BNL hospital he put his enforced leisure to use by studying Russian, and became proficient enough to act as interpreter when Russian scientists came to visit.

His contributions to accelerator theory and practice have had a major impact all over the world. It is altogether fitting that the Seminar Room, which he did not live to see, should be dedicated to his memory.



At 9 a.m. on Monday, approximately 100 people were on line outside of the Recreation Office in the Gymnasium to purchase tickets for Jet games. Each year the Lab offers 20 tickets for each of

the seven games played at home in Shea Stadium. By 11 a.m., all but 8 of the 140 tickets had been sold. —Humphrey

## Bowling Season Near

**Make your bowling plans now!** 1970 season starts September 14.  
**Round up your team - Organize a new one!**  
**Leagues for all our guys and gals - husbands - wives - girl and boy friends.**

Leagues forming now:

- A. Men's Handicap
- B. Ladies' Handicap
- C. Mixed Handicap

**Deadlines:** the priority for last years teams ends August 19. All entries for the Men's and Ladies' Leagues must be submitted by August 21. The Mixed League deadline is August 14.

**Players' Pool:** If you would like to bowl but can't find or form a team, enter your name in the Pool by calling the Recreation Office, Ext. 2808, and the Committee will try to place you.

All employees of the Laboratory are eligible and welcome to join our Bowling Program. You don't have to be an expert since all leagues are handicapped, and offer enjoyment and competition to both the new and the experienced bowler. Our leagues are currently using lanes on both the North and South shores. Other locations are considered whenever sufficient employee interest is shown. We bowl shortly after work at the local alleys, allowing time for a quick snack before we begin.

During the Fall and Summer seasons, we sponsor ladies' and men's leagues. The Fall season starts September 14th and finishes in April.

The BNL leagues bowl a split season with the first half winners bowling against the second half winners to determine the league champions. This split season has sustained continuous interest in our activity. In the second half, teams start all over again and have an equal opportunity to win the half and the league title.

The winners of the various leagues roll against each other at the end of the season to determine the "All BNL Men's Champions" and the "All Ladies' Champions."

## Cafeteria Menu

### Week Ending August 13, 1970

<b>Friday, August 7</b>	
Clam & Celery Bisque	
Codfish Cakes w/Tomato Sauce & 1 Veg.	.85
Baked Beef Loaf w/Onion Gravy & 1 Veg.	.80
Fish 'n' Chips w/Tartar Sauce	.75
<b>Monday, August 10</b>	
Cream of Corn Soup	
Veal Parmigiana w/1 Veg.	.85
Cream Chicken on Rice w/Jelly & 1 Veg.	.90
Macaroni & Chopped Beef w/1 Veg.	.80
<b>Tuesday, August 11</b>	
Beef Barley Broth	
Barbecued Roast Pork w/1 Veg.	.80
Grilled Frankfurters w/Baked Beans	.70
Cheese Souffle w/Broiled Bacon Strip & 1 Veg.	.85
<b>Wednesday, August 12</b>	
Cream of Mushroom Soup	
Corned Beef & Cabbage w/Boiled Potato	.95
Fried Haddock w/Tartar Sauce & 1 Veg.	.90
Hero Meatballs on Noodles	.80
<b>Thursday, August 13</b>	
Onion Soup w/CROUTONS	
London Broil w/Mushroom Sauce & 1 Veg.	.85
Chicken Chow Mein w/Noodles	.75
Baked Lasagna w/Tossed Green Salad	.90

A modest team entry fee is collected at the season's start to defray the costs of sanction fees and special programs. Thereafter, the only cost to the bowler is the price of the games he actually bowls each week.

The entry fees are kept as low as possible to encourage maximum participation. BERA assists us in this direction by providing the funds for trophies, league secretary salaries, and fees for our Championship Tournament.

Our season is climaxed by our Bowling Award Presentation Evening, which is generally held in early May. Each bowler may invite one guest and both are invited to attend at no additional cost. In addition to the presentation of trophies, the evening features dancing to live music and plenty of refreshments.

If you would like to bowl and share a social evening of fun with your fellow BNLer's, stop by the Recreation Office for entry information.

## Touch Football Organizing Now

BERA's touch football league offers the opportunity to play a fast, action-packed, passing and running game which everyone can enjoy.

The official national rules have been modified to eliminate body contact and to minimize the possibility of injury.

The games are played immediately after work on the football fields located at the Recreation Park, Brookhaven Avenue and Fifth Street. League play will begin on September 1 and continue until mid-October. Games will be played on Tuesday and Thursday evenings with each team scheduled to play once a week. All games are refereed by paid officials.

BERA supplies the balls, field markers, timing equipment, shirts and pays the cost of one official. The league assesses each team a few dollars each year to defray other incidental expenses. The fee for 1970 has been set at \$15 per team.

New teams and new players are always welcome. Pick up a league application at the Recreation Office, or enter your name in the Players' Pool by calling Ext. 2808 and the league officers will see that you get to join their activity.

The deadline for team entries is August 20. For additional information call the league chairman, Bob Barone, Ext. 7356.



First resident in the newly built ponds to the north of the AGS complex is this large Eastern Bullfrog. The pond was created to drain off cooling water from the accelerator magnets.

## Softball Day to Herald Season's Finale

Plans have been completed for the annual BNL Softball Day which will be held on Tuesday evening, August 25th. Festivities will begin at 5:00 p.m. with a performance by the Bayport Fife and Drum Corps followed by the awarding of trophies to the BNL Softball Champions.

The game will start promptly at 5:30 p.m. This year's innovation will feature a three inning hitting exhibition by the Mixed League with the stars of the Brookhaven, National, and Laboratory Leagues competing to stop the Mixed League from scoring. The next six innings will be played by the Men's Leagues and in the final inning the Mixed teams will compete with one another. The highest run total will be judged the winner - if it really matters.

There will be free hot dogs, beer, soda, and ice cream and a good time for all. Since last year's crowd numbered 600 people, it will be necessary to reserve tickets with individual team captains. One ticket will be necessary for each member of a player's family. These admittance tickets will entitle a person to the refreshments. All interested players should sign up with their team captains as soon as possible.

In case of rain, the show will take place on the following evening, Wednesday, August 26th. So gang, come on out and have a good time. Make it our last big summer fling and let's have some fun to make up for all of our aches and pains during the season. Remember, this year the girls will be playing, too!

—Guy Mastriion

## Tennis News

The tennis committee is forced to repeat its plea of last week. Please exercise good judgement and a high degree of cooperative spirit in the use of the tennis courts. Do not monopolize a court while players are waiting on the sidelines. Either offer to play doubles, or limit your singles play.

The 1970 BERA Tennis Tournament is moving forward, albeit slowly. These are the results of competition to date, Tuesday, August 4:

### Men's Singles

**2nd Round:** Austern-Koetzle, 6-4, 6-4; Garelick-Gnehu, 6-0, 6-0; Passell-Richardson, 6-2, 6-1; Ascoli-Palmedo, 6-0, 6-3.  
**3rd Round:** Brandon-Rademacher, 6-0, 6-3.

Although the 2nd round has been completed, the 3rd round still requires 3 more matches, and is a week behind schedule. Contestants are urged to catch up!

There was no competition in **The Walter W. Merkel Men's Doubles** this past week. The first round is complete; please keep the tournament moving.

### Mixed Doubles

**1st Round:** Dorning, Feldberg-Redvanly, Passell, 6-1, 6-3.

An additional match, needed to complete the first round, is holding up completion of the second round, also.

**2nd Round:** Ascoli, Connell-Stangby, Palmedo, 6-1, 6-2.

### Ladies' Singles

**1st Round:** Engelbertink-Auskern, 6-0, 5-0.

**2nd Round:** Stevens-Dorning, 8-6, 6-4; Stangby-Block, 6-0, 6-3; Engelbertink-Connell, 7-5, 6-2.

An additional match is needed to complete the second round.

## Movie Tonight

Thurs., Aug. 6 - 8:30 p.m. - Berkner Hall  
**The Navigator**

*The Navigator*, made in 1924 and starring Buster Keaton, is the story of a rich boy who has never had to do anything for himself until he is marooned at sea on a big ocean liner with only one other person on board - his equally rich and helpless girl. This silent film is one of Keaton's most successful.

### Never Give a Sucker An Even Break

W.C. Fields, Gloria Jean, and Leon Errol team together in this hilarious comedy about a famous movie comedian who becomes a young girl's guardian and gets involved in a wild melange of hectic plane trips and other affluent excitement.

### Short: Devil's Work

A Yugoslavian animated cartoon about a gentle man who finds that each good deed he performs is repaid with a bad one. He then turns into a devil himself and runs about avenging all the injustices which have been done to him. An excellent combination of abstract design and painted backgrounds with a figurative story-telling motif.

Total running time: 135 min.

**Next Week:** *Still A Brother*; short, *Confessions Of A Black Mother Succuba*.

## Softball

by Jack Brennan

### National League

Metallurgy 14.....Deadwoods 4  
 Homeruns A. Austern and B. Galen of Metallurgy.  
 Pop-Ups 25.....Bubble Boys 7  
 Phoubars 15.....Rat Pack 5  
 Homeruns T. Torre (1) and J. Partlow (2) of Phoubars.

	Won	Lost
Metallurgy	6	0
Pop-Ups	5	1
Phoubars	3	3
Bubble Boys	2	4
Deadwoods	2	4
Rat Pack	0	6

### Laboratory League

Six Pax 21.....Charlie Browns 5  
 Six Pax 13.....Charlie Browns 12  
 Chemistry 11.....Charlie Browns 6  
 Bio-Meds 21.....Converts 4

	Won	Lost
Chemistry	4	1
Bio-Meds	4	1
Six Pax	3	2
Charlie Browns	2	4
Converts	0	5

### Brookhaven League

No scores reported

## Mixed Softball

by Georgia Irving

On July 28th, the undefeated Neutrons suffered their first loss of the season by losing to the He-Shes. Although they were only beaten by one run (6-5), they were beaten.

The other game was won by the Electrons who scored three runs over the Amoebas two runs. It seems the games are getting closer each week.

So far, the Neutrons are an unchallenged first place, the Electrons and the He-Shes are tied for second and the Amoebas are still in a "sad" last place.

## 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.

- TECHNICIAN - Physics Department.
- PERSONNEL REPRESENTATIVE - Replacement for I.W. Cole - Personnel Division.
- SECRETARY II - Medical Department.
- REGISTERED NURSES - Medical Department.
- TECHNICIAN (Counting Room & Bioassay) - Instrumentation and Health Physics Department.

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

### Autos & Auto Supplies

- 70 FORD MAVERICK - Blue, r/h, w/w, extras, excel cond, must sell \$1850. 597-6408 eves.
- 66 CHEVY IMPALA STATION WAGON - V8, ps/pb, auto trans, 58,000 mi, avail Aug 27. R. Stearns, Ext. 7638, AT6-8685.
- 66 PLYMOUTH FURY III - 4 dr hdtpr, 318 V8, auto trans, ps, excel cond, leaving country, avail Sept. Kinson, Ext. 7793, 744-8300.
- 90 CC HONDA TRAIL BIKE - 1500 orig mi. R. Slavinski, Ext. 2896, 473-4043.
- 69 OPEL STATION WAGON - 32 mpg, excel in & out. \$1550. 281-9366 after 5.
- 62 RAMBLER AMERICAN - 64-6 cyl eng, dual carbs, stock cam, 3 spd Hurst, chrome wheels, cheater slicks. \$350. D. Glass, Ext. 2477, after 6 Ext. 2500.
- 4 TIRES - 6.00x12 w/w, Semperit Favorit, full 4 ply, used 1000 mi. \$75. D. Feigenbaum, Ext. 7677, 289-3622.
- 69 JEEP CAMPER - Fit all CJ-5, fully self-contained, heat, reefer, stove, toilet; also jeep. 878-0979.
- 65 CHEVY II STATION WAGON - 6 cyl, manual. \$350. 924-5006 after 5.
- 66 CORVETTE STINGRAY - 327/350 hp, 4 spd, 2 tops, new paint job, am/fm radio, many options, excel cond. \$2700. AT6-8517 after 5:30.
- 63 FORD STAT ON WAGON - Runs well, good 2nd car. \$100. 281-4452.
- 61 CHEVY STATION WAGON - Auto trans, ps, good tires & batt, recently inspected, best offer. Ext. 7670, 281-6230.
- 69 CORVETTE COUPE - Fathom green w/saddle int, 300 hp, 4 spd, posi, 11,000 mi, am/fm stereo radio & tape. \$4700. Ext. 7803.
- 64 DODGE - 4 dr, 6 cyl, auto trans, r/h, orig owner, excel cond. Asking \$500. C. Ruege, Ext. 451.
- 66 TRIUMPH TR4A - Good cond. 928-1350.
- 68 CHEVELLE SS CONV - 396 cu in, 4 spd, ps, posi rear, 22,000 mi, excel. \$1950. Ext. 318, 924-3783.
- 63 FORD GALAXIE CONV 500 XL - Blue/white top, ps/pb, V8 cruisematic, am/fm, 4 new tires, new batt, muff & gen, good cond. \$500. Ext. 2524.
- 62 CHEVROLET MONZA - Compl dependable, may be seen at Ridge service station. \$200. Ext. 2517.
- 64 MG MIDGET - British racing green, r/h, wire wheels w/extras & snow tires. 473-5546.
- 66 FORD FAIRLANE 500 - Auto trans, V8, ps, snows, 34,500 orig mi. Asking \$1150. Ben, Ext. 2591.
- 67 FORD GALAXIE 500 CONV - V8, auto trans, ps, a real pussycat. Asking \$1295. Ted, Ext. 2589.
- 68 BUICK SPECIAL DELUXE STATION WAGON - Auto trans, V8, ps, pwr windows, new tires & snows. Asking \$2150. Ben Ext. 2591.
- ROOF RACK - Sears, fits most cars. \$10. Bob, Ext. 7615.
- 64 OLDS VISTA CRUISER WAGON - Auto trans, ps/pb, V8 eng, best offer over \$550. B. Baldwin, Ext. 7686/7525.
- 68 BUICK WILDCAT CUSTOM - 2 dr hdtpr, ps/pb, pwr seat, air cond, 14,000 mi, showroom cond. \$2200. I.J. Muzinich, 473-6370.
- 60 THUNDERBIRD - Ps/pb, V8, good mech cond. \$150. P. Kennedy, Ext. 560, 281-6366.
- 65 HONDA MOTORCYCLE - 305 Super Hawk, excel cond. \$400. FR9-5155.

- 65 CHEVY IMPALA CONV - Red/white top, 396, 4 spd, r/h, am/fm radio, tach, very good cond. Bill, 281-4288.
- 57 CHEVY - V8, std shift, good cond. \$130. Ginette, Ext. 7356, 286-0091 after 5:30.
- 64 OLDS JETSTAR I - Spotless cond, must be seen to be appreciated. 727-5596.
- 65 MUSTANG - V8, std trans, 4 new tires, excel cond. Mort, Ext. 2450, AT6-8448.
- 69 VW - Green, w/w, radio, air scoop, eng lock, rear deck cover, excel cond. \$1650. Don, Ext. 2430.
- 64 RAMBLER CLASSIC STATION WAGON - 6 cyl, std trans, new clutch, brakes, starter, very good cond. \$400. M. Hutchings, Ext. 7608, 744-2727.
- 2 NEW SEMI-OVAL TIRES - FG760-14, 2 pr, \$50; 2 used snow tires, 7.75x14, 2/\$10. A. Howard, AT6-3585.
- 58 PONTIAC - Good cond, V8, auto trans, r/h, \$90. Ext. 2849.

### Boats & Marine Supplies

- SAILBOAT - Narasatuck, 2 suits sails. 288-2977 after 5.
- 4" CORSAIR COMPASS - Danforth white, brand new & unused w/mtg bracket. Lists at \$90, yours for \$70. Forsyth, Ext. 2575.
- 18' CAPE COD BABY KNOCKABOUT - Dacron main & jib, needs paint & caulk. Carl, Ext. 7238, 744-2069.
- 17' LARSON FIBERGLASS - 35 hp Mercury, tilt trailer, navy top, cockpit & mooring cover, water skis, many extras. \$895. Herman, Ext. 558.
- TIGERCAT - 17' catamaran sailboat, fairly fast, good cond, w/trailer & other equipment. T. Kitchens, Ext. 7300/7396.
- 21' JAFCO SKIFF - 100 hp Gray, ideal fishing boat, good cond. AT6-8945.
- 37' CLAM BOAT - 14' beam, 110 Palmer. \$1300. 325-0348.
- DINGHY - 7 1/2' fiberglass, w/2 1/2 hp motor. \$135. T. Russell, Ext. 7668, 924-6690.
- KAYAK - Single man, 15' Folbot, sporty, \$80; dbl paddles, \$10. Livolsi, Ext. 7712/2532.
- SAILFISH - All fiberglass w/dacron sail, excel cond. \$250. Stan, Ext. 7407.
- 50 HP JOHNSON - W/15' Thompson lapstrake. \$400. John, 722-3043.
- SAILBOAT - Signet 20, fiberglass, twin keel, 2' draft, alum spars, dacron sails, 4 bunks, galley, head, 5 hp o.b. \$3300. Isler, Ext. 649, 941-4696.
- SAILBOAT - Catamaran, Tigercat 17', good cond, & other equip, w/w trailer. Harold, Ext. 7321, 298-4349 after 6.
- SIGNET 20 - Fiberglass keel sloop, sleeps 4, head, galley, sink, fully equipped, in water, priced to sell. Ext. 2993, 744-9436.
- OUTBOARD MOTOR - Seagull Century Plus, w/long shaft & clutch, ideal for 16-20' sailboat. Ext. 7219.
- JOHNSON 7 1/2 HP OUTBOARD - 1959, overhauled compl. Asking \$50. Ext. 597, AT6-0436.

### Miscellaneous

- HEAVY DUTY GARDEN HOSE - Rubber covered, nylon reinforced; 50'-1/2" I.D., \$5; 48'-3/4" I.D., \$7.50. B. Espensen, Ext. 7638.
- DINETTE TABLE - & 4 chairs, walnut, formica top, 30x48, opens to 30x60. \$25. R. Schermer, Ext. 541.
- 20" WINDOW FAN - Sears lg motor & belt driven, adjustable speeds, good cond. Cost new \$65, now \$25. A. Friedman, 273-5574.
- MIXMASTER - 10 yrs old, never used, make offer; 2 Danish chairs, need new webbing, \$5 ea. R. Schermer, Ext. 541.
- GERMAN SHEPHERD PUPPIES - W/p, male & female. \$60. 666-0628.
- HAMMOND ORGAN - Like new, built in Leslie unit, 23 voices & reverberation. H. Lobe, Ext. 2314.
- PUPS - 1 mo old on 8/1, mother shepherd, father unknown, pups black w/shepherd markings. Del, 744-8268.
- FREE - 4 kittens, blk & white, 9 wks old, play well w/small children. D. Cullen, 286-8378.
- 15 OAK STORM WINDOWS - 14 screens, 31x55. \$5 ea, cash & carry. J. Downey, Ext. 7435.
- WOOD DOOR - W/15 glass panels, 3'x6'8". \$20. Ext. 2120.
- BAMBOO PORCH SET - 7 pc, w/cushions. \$35. Henry, 727-3830.

- NORGE REFRIG - 8 cu ft w/freezer compartment, very good in & out. \$45 (No Del). 585-8322.
- LABRADOR PUPPIES - 1 yellow, 1 blk, 7 wks old. AT6-0248 after 6.
- PUPPY - Female, 3/4 Shepherd-1/4 Collie, own father (Shepherd) & mother, 5 wks old (2nd litter, pic of first). 286-8890.
- TAPE RECORDER - Tandberg model 64, 4 tracks, 2 spds, w/carrying case, as new. \$250. Ext. 7612, HR3-7951.
- PRISCILLA OF BOSTON WEDDING GOWN - French organza, never worn. \$65. 289-2883.
- FREE - Learn Indian cooking & enjoy with your friends. Sudhir, Ext. 2500 after 5:30 & weekends.
- IRON PORCH RAIL - W/fittings, new, \$15; walnut buffet, \$15; coppertone wall oven, make offer. Ext. 586, 475-7372.
- REFRIG - Approx 4 1/2' h, 2'd, 2'w, used only 2 summers in cottage, excel cond. \$40. Mrs. Clifford, Ext. 2758.
- FURN - Whit contour chair, \$2; walnut kitchen table, \$8; gold drapes, 96x84, w/rods, \$10. Bob, Ext. 7615, 928-1171.
- BABY FURN - Edison white Ital prov crib, w/matching chest & cabinet, 3 yrs old, excel. New \$200, sell \$120. Bob, Ext. 7615, 928-1171.
- CARPET - 3 yr old Lees 12'x20' acrilan, amber gold random shear, w/pad, excel cond. New \$300, sell \$100. Bob, Ext. 7615, 928-1171.
- PACKMEYER 4 GUN-CASE - W/2 doors & 2 keys, bought new 7/7/70. \$40. 12 w/taxes, \$36, have orig bill of sale. J. Zahra, Ext. 7381/7382/7383, 473-4085 after 6.
- CRIB - Edison white, 1 1/2 yrs old, new \$50, sell \$25; Colgate crib mattress, rubberized hair, 1 1/2 yrs old, new \$35, sell \$17. Bob, Ext. 7615, 928-1171.
- DESK LAMP - Twin bulb fluorescent goose-neck, w/bulbs. \$7. Bob, Ext. 7615, 928-1171.
- CAR-BED - \$2; toy chest, \$2; diaper pail, \$1. Bob, Ext. 7615, 928-1171.

- REFRIG/FREEZER - Westinghouse, 13.5 cu ft refrig w/cross top freezer, compl frost free, many extras, still under warranty (compressor), excel cond, owner moving. \$225. Conn, Ext. 7411.
- ITAL PROV DIN RM SET - Fruitwood, 44x56 oval table w/2 extra leafs & table pads, 6 caneback chairs, 2 armed, like new cond. Orig cost \$850, sell \$500. J. Matso, 581-4197.
- FRENCH PROV CONSOLE TV - By Magnavox, 23" picture tube w/remote control, 5 mos old. Orig cost \$782, asking \$600. J. Matsko, 581-4197.

- RCA TV - Only 2 yrs old, \$65; mower, \$25; baby carriage, \$40; fan, \$10; fireguard, \$5; lamps, \$8; octagonal hall table, \$15. M. Hutchings, 744-2727.
- WALNUT COFFEE TABLE - 36" round, 14" h w/glass insert, reasonable, excel cond. R. Rakenius, 744-2797.
- 18" HAND MOWER - Good cond. \$4. Young, Ext. 7175.
- TRUMPET OR CORNET - Std make, good cond, reasonable. Bill, Ext. 2392.
- GIRL'S BIKE - 20" English make, fine cond. \$15. Ron, 878-4089 after 6.

- PIANO - Baby Grand by Cable, full keyboard, bench int, excel cond. \$800. Dave, Ext. 341.
- GUITAR AMPLIFIER - Lafayette 8 watt, 3 inputs, tremolo spd & intensity controls, like new. \$27.50. Dave, Ext. 341.
- TYPEWRITER - Old office type Underwood, as-is cond. \$20. Dave, Ext. 341.
- ASTHMATICS - Almost new Positive Breathing Machine by Ohio. \$80. Dave, Ext. 341.
- FREE - Need a second refrigerator for garage or basement? Old but still runs. No delivery. Ext. 2816.
- APACHE CHIEF TENT TRAILER - Excel cond. \$350. B. Lungren, Ext. 7782.
- AUTHENTIC 60" SPINNING WHEEL - Good cond; quaint lift top child's school desk w/seat & other oldies. Paul, 744-6559.

- PIANO - Sohmer upright. \$290. S. Shibata, 929-8150 after 7.
- MARLIN LEVER ACTION RIFLE - #336T w/carrying case, 2 sleeves factory loads & 1 sleeve hand load, 200 gr. \$85. J. Zahra, Ext. 7530/7539, 473-4085.
- BOW - Bear Kodiak Mag, 55# pull, w/2 doz arrows. \$45. G. Krey, Ext. 7177.
- 17' TRAVEL TRAILER - Apollo 1967, sleeps 6, Reese anti sway equalizing hitch. \$1650. HR3-1456.

- FURNITURE - Dinette set; 2 danish style chairs; white formica-top cabinet- best offers. 928-2260.
- FURNITURE - Everything for sale, less than 2 yrs old, leaving country. Kinson, Ext. 7793, 744-8300.
- RECORD PLAYER - GE stereo; Admiral refrig, 14 cu ft, 2 dr, good cond, \$50; baby things, crib & mattress, high chair, car seat. Kinson, Ext. 7793, 744-8300.
- 4 SPD AUTO RECORD PLAYER - \$15; Shetland sweeper vac/bags, \$15; Sunbeam elec fry pan, \$10. 473-1157.

- .357 MAGNUM PYTHON COLT - 6" barrel revolver, fired 6 times, must have permit. \$185. J. Zahra, Ext. 7381/7382/7383, 473-4085 after 6.
- WASHING MACHINE MOTOR - \$5; dresser, antique blue, w/mirror, \$30; chest of drawers, painted orange, \$20; gas dryer, fully auto, perf cond. 744-6636.
- WASHER - 2 spd, 5 cycle, Whirlpool Delux, does everything; Westinghouse dishwasher, fully auto, front loading, portable, perf cond, \$85. 744-6636.
- EASY CHAIRS - 2 colonial style, \$20 ea; baby furn, crib & mattress, dresser, walker, porta crib & mattress. 744-6636.

- 36" RANGE HOOD - W/fan & precipitator. Ext. 7219.

- REDWOOD GARDEN TABLE - & benches; air cond, Admiral 6600 BTU; elec iron; toaster; clock radio. Kinson, Ext. 7793, 744-8300.
- SCUBA DIVERS LEAD WEIGHTS - 2-5 lbs. P. Adams, Ext. 2296.
- SONOTONE HEARING AID - Model 600x, excel cond. \$100. J. Binnington, Ext. 2294.
- GE ELEC RANGE - 40", 4 burner, dbl oven, fully auto, excel cond, 40" ss hood. \$100. PE5-8866.
- STURDY CRIB & MATTRESS - \$15; matching chifferobe, \$15; all excel cond; end tables, \$5/both. 265-3982 after 6.
- ENCYCLOPEDIA AMERICANA - 30 vol set, 1955 ed, w/annual supplements from 1956-1967. J. Smith, Ext. 7307.
- BICYCLE - 20" Stelber convertible sidewalk bike. \$10. Ext. 2387.
- WEED KILLER - Growell 5000 sq ft bag. Reg \$3.98 for \$2.50. Ext. 7219.

### 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

- SHOREHAM - Custom Cape Cod on LI Sound, 4 bedrooms, 2 baths, knotty pine bookshelves, fireplace, h/w heat, walk-in greenhouse, lg treed lot, deeded beach rights. 744-3959 after 5:30.
- 150 ACRES + - In Cooperstown area, 70A tillable; buildings, beautiful views. Ext. 7453.
- SHOREHAM VILLAGE - 1 acre, wooded, L-shaped building lot, terms. 744-6657.
- HOMESITE - In wooded area of Sound Beach, 5 lots equaling 1/2 acre, taxes low - only \$180/yr, has beach rights, only 1 mi from Sound, old cottage on grounds. Asking price only for land \$4500. Mrs. Clifford, Ext. 2758.

### For Rent

- APT - 3 lg bedrms, fireplace, close to Bay w/water rights, plenty of room for children to play. 878-2818 after 6.
- 2 RM FURN SUMMER APT - Excel location in Bellport, avail immediately thru Labor Day. Ext. 2251, 286-1221 after 6

### Wanted

- TO SWAP - 2 Plaid Stamp Bks and/or 9 Merchants Green Stamps, for Triple S Blue Stamps. L. Newman, Ext. 2275.
- BABYSITTING JOBS - High School girl avail eves & Sat afternoons in Center Moriches area.
- UPRIGHT FREEZER - 10-15 cu ft, reasonable. M. McAllister, 732-9168.
- CLICHES - e.g., Hot enough for you? For summer students compiling dictionary of tired phrases. Send to Marty Samberg, Bldg. 510.
- ELEC STOVE - 30" or smaller. Ext. 2816.
- PORTABLE REFRIG - W/small freezer compartment if possible, for use in collage dormitory room. A. Morino, Ext. 2573.

- DOG PICTURES - Prints, dog figurines, dog books, reasonable, also round piano stool. Rony, 924-8225.
- POODLES, TERRIERS & SPANIELS - To do in my home, reasonable. Tony, 924-8225.
- PETS - Going on vacation, pet-sitting by day/wk/mo, reasonable & reliable. Tony, 924-8225.
- HANDLE FROM JUNK LAWNMOWER - To make homemade boat trailer. Linda, AT 9-0886.

- HOMES FOR KITTENS - Males and females, grey, black and orange, very friendly, Commerford, Ext. 2919, 281-7547.
- LATE MODEL A-1 CONDITION QUALITY CAR - Chrysler, Caddy, Buick. HR 3-3919.
- TO RENT - Small unfurnished house, 2 bedrooms, moderate rent, 10-mo rental acceptable. 286-9098 after 6.

- HOME - For 2 old cats, grey 3.4 liter Jaguar sedan and 17' Tigercat sailing catamaran, must sell, leaving the country. T. Kitchens, Ext. 7396, 7300.
- USED STEREO RECORD PLAYER - With or without radio. AT 6-8544.

### Carpools

- WANT TO JOIN OR FORM - 2-man carpool from Bay Shore area. Richie, Ext. 7228.
- SUMMER DRIVER WANTED - In existing carpool from exit 52 (or further west) on LIE. Elliot, Ext. 2103.

### Lost & Found

- LOST - Watch, Tissot chronograph, in Gym locker room. Palmedo, Ext. 7762.
- FOUND - A wristwatch on ball field #1, on the night of July 29. Woody, Ext. 2955.

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

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

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. \_\_\_\_\_

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