



Shipboard Food Irradiator Becomes Landlocked At LSU

Originally built for use on the high seas, the Shipboard Irradiator (SI) will become landlocked when it reaches its destination at Louisiana State University, where it will be used for studies on the sweet potato weevil. It is hoped that as a result of these studies, a program will be developed that will lead to the elimination of the weevil and its costly damage to the sweet potato crop.

The irradiator is scheduled to leave BNL on a flat bed trailer truck on Monday, April 13, and will remain at LSU for approximately six weeks. After that it will be shipped to Seoul, South Korea for use in general food irradiation studies under the auspices of the Republic of Korea Office of Atomic Energy. Don Cassidy of HIRDL will travel to Korea to install the SI and help train the Koreans in its operation.

Prior to its currently scheduled journeys, the SI was in Iceland where it was used in studies of fish preservation by irradiation. This is one of three SI's that regularly come to BNL for refueling as part of the AEC's program of national and international cooperation in food irradiation studies.

The other two SI's are also currently landlocked. One is located at the University of Nebraska and the other is at Yavne in Israel. All of the SI's contain approximately 25,000 curies of cobalt-60.

In addition to the three Shipboard Irradiators, the HIRDL group under Jack Cusack has also designed and had built by outside contractors under BNL supervision, three Brookhaven Portable Cesium Development Irradiators (BPCDI) each of which contains approximately 105,000 curies of Cesium-137.

One of these portable irradiators is now in operation at the Centro Atomica Ezeiza, near Buenos Aires, Argentina. It went into operation in May 1969, under the supervision of Ed Divis of HIRDL. Originally scheduled to be there for one year, its stay will probably be extended.

Another of the portable irradiators is now on the high seas headed for the Bhabha Atomic Research Center near Bombay, India. Pete Fallon of HIRDL is scheduled to leave this month for Bombay where he will supervise the installation and initial operation.

The third portable irradiator is scheduled to leave BNL around May 1st, headed for the Centro de Estudio Nucleares near Santiago, Chile. Bel Sylvester will go to Chile to supervise this installation.

Another food irradiator, known as the pool-type Research Irradiator, will be shipped in the near future from BNL to Pakistan.

All of these food irradiators are used in a wide variety of food pasteurization or preservation studies. Pasteurization involves giving the food enough radiation to inhibit or delay but not stop food spoilage. This is particularly important for perishable crops which are grown in one area and must be shipped to markets thousands of miles away. Preservation involves a higher dose of radiation, usually given after the food is packaged in air tight containers, which kills all of the bacteria that causes spoilage. Foods such as bacon that have been treated this way can then be kept on the shelf for extended periods of time without refrigeration and without spoiling.

Service Awards - April

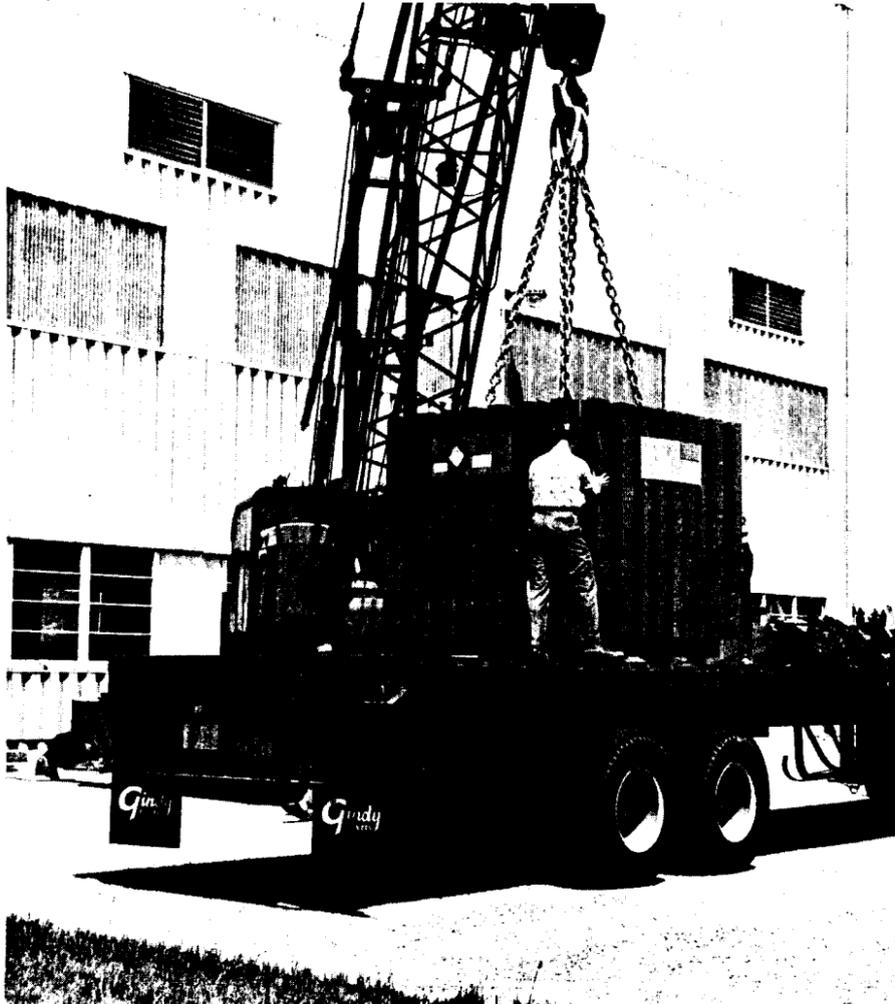
Twenty Year

Ahlers, Gordon K. PEP
Collins, George Physics
Landers, Fred Accelerator

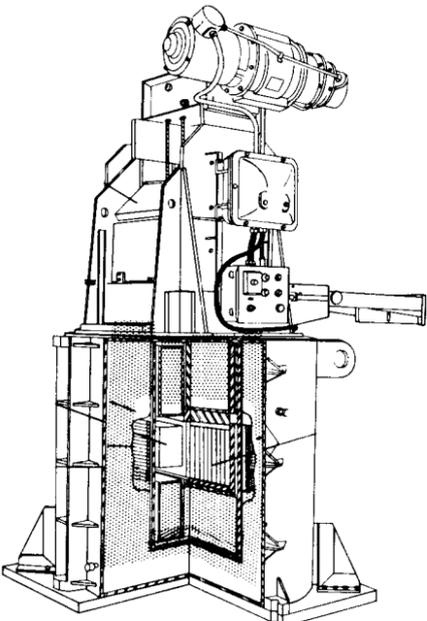
Ten Year

Berley, David Accelerator
Dilg, Robert L. PEP
Dryden, Grace E. Accelerator
Eleazer, Madlyn H. Medical
Kalinowski, Matislaus PEP
Kennedy, Kenneth L. Accelerator
Laurine, Alphonse P. Staff Services
McGovern, Gary E. Biology
Roberts, Ernest Accelerator
Still, Ira W., Jr. IH
Valek, John C. Physics
Waskewicz, John B. Biology
Zelem, Daniel D. Staff Services
Zguris, Michael A. Accelerator

Shipboard Irradiator Goes South



A shipboard irradiator destined for Louisiana State University is loaded onto a trailer truck for shipment Monday to LSU where it will be used for research. The irradiator is protected by a shipping shield and securely lashed to the truck which will travel by Long Island roads to New York City and then to Louisiana.



Material to be irradiated in the shipboard irradiator is lowered to the cobalt source assembly by an electrical winch. This cutaway view shows details of the construction of the unit shipped to LSU.

Cooking Exchange

The next meeting of the Cooking Exchange will be held on Thursday, April 16, from 3 to 5 p.m. in the Apartment Area Recreation Building. The preparation of Chinese food will be featured in the demonstration.

A fee of 75¢ will be requested from each adult to defray the cost of the demonstrations and the babysitters.

Waste Shipments

The first of a series of weekly shipments of low-level radioactive wastes will leave the Lab Monday morning. Specially built trailer trucks will carry the material in concrete casks to West Valley, New York where it will be buried in the ground by Nuclear Fuel Service, Inc.

Movie Group To Meet

There will be an informal meeting of the BERA Movie Committee on Friday, April 10, at noon in the Cafeteria.

All employees who are interested in the planning of the summer schedule of films are invited to join the group at the large round table located near the planter in the dining area.

AEC Publishes Policy On Environmental Act

The Atomic Energy Commission has adopted a statement of general policy which it will use in implementing the National Environmental Policy Act of 1969, with respect to the licensing of nuclear power plants and plants which reprocess fuel discharged by nuclear reactors.

Applications for licenses to construct and operate nuclear power plants and fuel reprocessing plants will be transmitted by AEC for appropriate comments to Federal agencies which have legal jurisdiction or special expertise with respect to environmental impact.

After obtaining these comments, the Commission's Director of Regulation will prepare a detailed statement on the environmental considerations involved in the proposed plant. This detailed statement will be made public.

The Commission will incorporate in construction permits and operating licenses for these plants a condition to the effect that the licensee shall observe Federal and State standards and requirements for the protection of the environment. These requirements include standards for the control of thermal effects of the release of heated water from the facility to the environment, which are validly imposed under Federal and State law and are determined by the Commission to be applicable to the facility. This condition will not apply to radiological effects since these are dealt with in other provisions of the AEC license.

The Atomic Energy Commission has also adopted amendments to its nuclear reactor licensing regulations which set out its policy on "backfitting" of nuclear facilities and eliminate the term "provisional" from licenses to construct and operate these facilities.

Brush Out Brush Fires

A glance at the sky on almost any hot, dry day will probably indicate to the Suffolk County resident that the brush fire season has finally arrived. On weekends the quiet is regularly broken by fire sirens calling the volunteers out to fight a small fire before it becomes a major blaze.

On Monday many acres of scrub oak and pine south of the site erupted into flame shortly after noon. Before the fire was finally brought under control a score of fire departments from the area had hundreds of men and many machines joined in the battle to keep the fire from spreading.

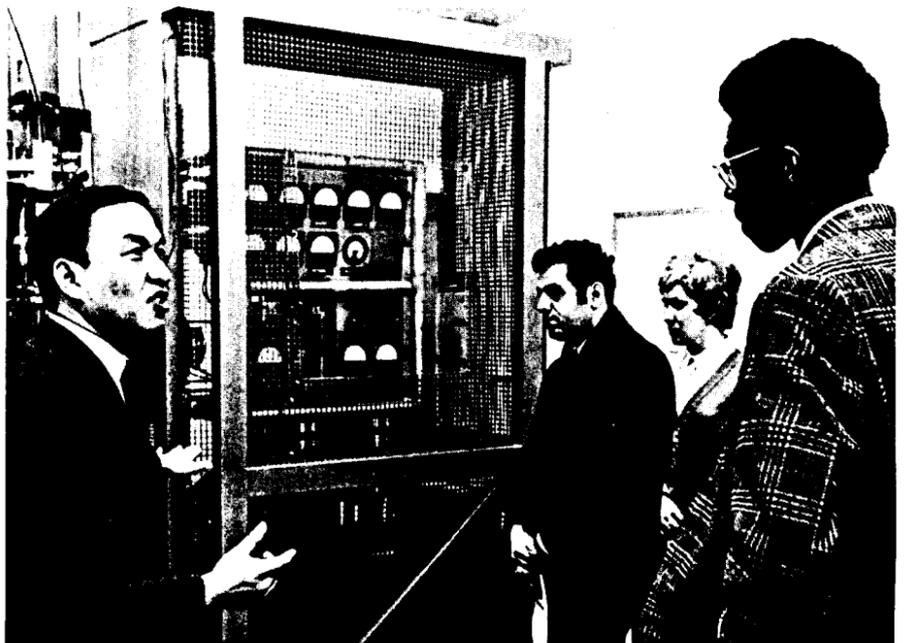
Brush fires usually get their start from carelessness. Burning rubbish and dropped cigarettes are the major first causes of brush fires. Attention to local ordinances about burning and a large dose of common sense can do much to prevent fires.

Spectrum Travels

During the year 1969, BNL's movie classic, Brookhaven Spectrum, has been entered in three foreign film festivals. In May, Antwerp, Belgium was the host city to the 6th International Labour and Industrial Triennial Film Festival. Australia was the host to the 6th ANZAAS International Scientific Film Exhibition in August, and in October, Spectrum visited France for the 6th International Festival of Scientific Film at Lyon.

Among 20 Federal agencies which participated in Foreign Film Festivals, the AEC entered 18 events with a total of 8 films, including Brookhaven Spectrum.

Columbia Students Tour



A group of students from Columbia University College of Pharmaceutical Science visited the Lab last week for a tour and general orientation. At the Chemistry Department they visited the isotope separator facility with Y.Y. Chu (left) as their guide. —Lauber

Garwin Lecture At Berkner Hall



Richard L. Garwin, 12th AUI Distinguished Lecturer, spoke last Thursday on Strategic Arms Limitations. Garwin, Director of Applied Research at the IBM Watson Laboratory, was a participant in the 1958 Geneva Conference on Safeguards Against Surprise Attack, and has co-authored a recent article on anti-ballistic missile systems.



Discussion of Dr. Garwin's presentation continued after the formal question period after the lecture to the informal questioning at a reception in the lobby of Berkner Hall.

Stony Brook Events

The State University of New York at Stony Brook invites the public to the campus for a series of lectures, dedication ceremonies for two residential colleges and a special folk concert for children, scheduled from Saturday, April 11, through Thursday, April 16.

Saturday, April 11

Folk Singer Paul Geremiah will present a concert at 3 p.m. in the lounge of Irving College.

A Folk Concert for Children will be presented by Stony Brook students at 3 p.m. in the lounge of Toscanini College.

Sunday, April 12

The Choral Society of Moriches will present a concert titled "The Season of Freedom," featuring Handel's "Israel in Egypt" at 8 p.m. in the Gym. Tickets are \$1.50 for the public, \$1 for Stony Brook undergraduates and children.

The Academy Award-winning film, "The Heiress," based on *Washington Square* by Henry James, will be shown at 8 p.m. in the lounge of James College. The film is part of a week-long dedication of Henry James Residential College and will be followed by an informal discussion of James' works by Stony Brook professors Dr. John Halperin and Dr. Sallie Sears.

Monday, April 13

A panel discussion, "Will Stony Brook Survive the 70's?" with panelists Stony Brook Vice President for Liberal Studies Dr. Sidney Gelber and Professors Max Dresden, Barry Gholson, and Eloy Carlson will be presented in the lounge of James College at 8 p.m.

Tuesday, April 14

Dr. Donald Squires, Director of the Marine Sciences Research Center at Stony Brook, will talk on "Clean Air: Pure Water" at 7 p.m. in Room 100 of the Lecture Center.

The documentary film, "What Harvest the Reaper," the story of Long Island's migrant

farm workers, will be shown at 8 p.m. in the lounge of James College. The film will be followed by an informal panel discussion with the Rev. Davis Bos and the Rev. Arthur Bryant.

Thursday, April 16

Professor Lester Paldy of Stony Brook Physics Department will deliver a lecture on "Teaching Physics in the High School and Two-year College: Facts and Fallacies" at 7 p.m. in Room 111 of the Physics Building.

Cafeteria Menu

Week Ending April 16, 1970

Friday, April 10	
Clam & Celery Bisque	
Fried Stuffed Flounder, Tartar Sauce & 1 Veg.	.77
Braised Meatballs in Veg. Gravy & 1 Veg.	.77
Broiled Halibut w/1 Veg.	.87
Monday, April 13	
Vegetable Soup	
Baked Ham/Pineapple Sauce & 1 Veg.	.77
Spaghetti w/Meat Sauce	.75
Beef Liver & Bacon w/1 Veg.	.77
Tuesday, April 14	
Puree of Split Pea Soup	
Roast Round of Beef w/1 Veg.	.77
Chicken Pattie w/Cream & 1 Veg.	.77
Frankfurters/Mashed Potatoes/Red Cabbage	.70
Wednesday, April 15	
Chicken Gumbo Creole Soup	
Broiled Link Sausage/Apple Sauce & 1 Veg.	.77
Corned Beef & Cabbage	.77
Filet of Sole /Tartar Sauce & 1 Veg.	.87
Thursday, April 16	
Cream of Corn Soup	
Veal Pattie & Tomato Sauce	.70
Roast Turkey/Cranberry Sauce & 1 Veg.	.82
Chili Con Carne on Rice w/1 Veg.	.77

Here and There

Claire Lamberti

George M. Woodwell (Biology) was in San Jose, Costa Rica from January 31 to February 8 to visit the Organization for Tropical Studies and assist in the establishment of Paul Harcombe's tropical forest research.

Dennis Puleston (Information) participated in the Environmental Teach-In at the University of Pittsburgh on April 3; as an invited lecturer, he spoke on environmental problems.

Antonio M. Camargo recently joined the Biology Department as Guest Assistant Pharmacologist. Dr. Camargo is affiliated with the Dept. of Pharmacology of the Faculty of Medicine of Ribeirao Preto, Brazil. He will work in collaboration with Lewis J. Greene on enzymes involved in the metabolism of bradykinin.

Richard Lambrecht (Chemistry) presented a paper on "Reactions of Energetic Carbon-11 Atoms in Homologous Gas Phase Halomethanes" at the 159th ACS meeting held in Houston, Texas, February 22-27. Richard Ragaini, Gerhart Friedlander, and Michael Widmer (all of Chemistry) also attended the meeting.

Norman Sutin (Chemistry) was elected to join Morris Perlman (Chemistry) in representing the Department on the BNL Council. The Council also elected Julius Hastings (Chemistry) as a Member-at-Large. Both will serve for a period of three years. M. Hastings will be the Secretary of the Council for the coming year.

Dollars and Sense

Frank Federmann

Deadline: April 15, 1970

In the spirit of the time - return day minus six days - we offer these suggestions. Again, they are old hat, but it can't hurt to remind yourself about these things:

1. Thousands of returns were held up last year because taxpayers did not furnish supporting statements where necessary;
2. There is a choice of tax tables at your disposal. It is a good idea to check and recheck to be sure you have used the right table;
3. Errors in arithmetic keep recurring in returns, causing delays and, oftentimes, disappointments that a refund is not as big as expected or even is not owing. Doublecheck; use a machine if possible;
4. Make certain you have checked the correct box indicating marital status. Once more, this saves processing time;
5. If you have income from farming, pensions, business and professional activities, or profits or losses from the sale or exchange of property, certain schedules - F, C, and D, respectively - must be attached to your return;
6. For the umpteenth time, be certain your Social Security number is correctly given on your return. It is the key to automatic data processing;
7. Normally, both husband and wife must sign a joint return; however, if a husband is a serviceman in Vietnam, he is not required to sign a joint return. The wife should indicate in the space provided for her husband's signature that he is in military service in Vietnam;
8. **Mail your federal return to:**
Internal Revenue Service Center
310 Lowell Street
Andover, Mass. 01812
If you are not due a refund, **mail your State return to:**
New York State Income Tax Bureau
114 Old Country Road
Mineola, New York 11501
If you are due a State refund, **mail your return to:**
New York State Income Tax Bureau
The State Campus
Albany, New York 12226
April 15 is Estimated Tax Day too. Even if you are all set on your 1969 income tax returns, April 15, 1970 may still have "tax" meaning. It's the due date for the first installment of your 1970 individual estimated tax. In the event you mail both the estimated tax payment and the balance due on your 1969 tax in the same envelope, make sure you write *two* checks (one for each tax payment) and include your Social Security number on each.

BROOKHAVEN BULLETIN

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NORBERT J. DERNBACH
Public Relations Officer

Arrivals & Departures

Arrivals

Karin I. Karlstrom.....Chemistry

Departures

Francis J. Campbell Eugene J. Tirpak, Jr.
John E. Mitchell

Accelerator

William J. Byrne Vincent P. Iorfida
James W. Edwards Robert A. McCabe
William A. Foltermann Richard P. Romeo
Augustave Gracia Michael J. Rohmo

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Staff Services

Christopher Misciagno

Supply & Materiel

Robert Busch Eugene Pontieri
Freddy R. Hillerud, Jr.

Hospitality News

The Hospitality Committee will sponsor its seventh semiannual tea and sherry party on Wednesday, May 13. It will be held at the Brookhaven Center from 3 to 6 p.m. Female employees are invited to attend outside of working hours.

"Center of Attraction" is the theme of the tea. If you have a centerpiece which you would like to display, please call Anne Church on 286-0339 or Lee Washburne on 589-3608.

Child care will be provided free of charge in the gymnasium at 3 Center Street.

At the next coffee meeting, from 10 to 12 on Monday, April 27, Mrs. Craven will discuss rug making, knitting, and crocheting. Watch future *Brookhaven Bulletins* for the meeting place.

Plan now to attend both of the above events.

Radio Club Meeting

The regular monthly meeting of the BNL Radio Club will be held at the Recreation Building on Friday, April 10, at 8:00 p.m.

Safety Equipment Schedule

Safety Shoe Issues

Mondays 1330 to 1630
Thursdays 0900 to 1200

Safety Spectacle Issues

Mondays 0900 to 1200
Wednesdays 1330 to 1630

Nets and Spikers Champions—

The BNL Volleyball Leagues climaxed their season last Wednesday evening at the Gymnasium with a program called "Volleyball Night." Everyone who participated in league play during the season was invited, at no cost, to join the fun which featured free beer, soda, hot dogs, and several competitive and social volleyball matches.

George Sabine, on behalf of the Laboratory and BERA, congratulated the League winners and presented each with a handsome trophy. The championship men's team, the Spikers, who won the first place honors for the past three years, was captained by George Lindauer. George was also congratulated for his excellent leadership this year as the Chairman of the Leagues. The other members of the championship team included: John Chen, Steve Feldberg, Pete Hlavac, Peter Hubberstey, Odelli Ozer, Art Scott and Tim Tuttle.

Our other champions, the Nets, were the winners of our first attempt at a Mixed League. While the League had a few ups and downs it did complete a most successful season and hopefully will expand next year. The Nets were captained by Connie Curran. Her team mates included: Helen Connell, Georgia Irving, Dermott Cullen, Odelli Ozer, Larry Padwa and Bob Reilly.

Volleyball Champions



Men's League Volleyball Champions, the "Spikers." (Left to Right) Pete Hlavac, Peter Hubberstey, Steve Feldberg, John Chen, Odelli Ozer, Art Scott, George Lindauer - Captain, and Tim Tuttle.



Mixed League Volleyball Champions, the "Nets." (Left to Right) Georgia Irving, Connie Curran - Captain, Bob Reilly, Dermott Cullen, and Odelli Ozer.

Skin Diving Course

Arrangements have been made to offer employees and their spouses a twelve lesson course of instruction in the techniques of skin and scuba diving at the Laboratory Swimming Pool.

Louis Cafone, Deputy Chief Scuba Diving Instructor of the Suffolk County Vocational Education and Extension Board, will provide the instruction and direct the course.

The first lesson will be an orientation meeting held at the Suffolk County Office in Yaphank. At that time the instructor will describe the details of the course and the nature of the equipment the individual will be required to supply. Each of the registrants will be given a Scuba Diving Manual. The first four lessons will deal with skin diving techniques employing the use of fins, snorkel and face mask. If you have these items bring them with your bathing suit to the second class. If you do not, wait until the instructor advises you on what type to buy. Although the balance of the course deals with tanks, it is not necessary to buy one to join the class. Arrangements can be made, if necessary, for equipment rental.

The University of the State of New York will issue a Scuba Diving Certificate to those who have satisfactorily completed the course.

Registration (accompanied with the \$5.00 fee) is now being accepted at the Recreation Office. The fee is intended to cover only minor expenses. Individuals will be required to pay the normal admission fee of 50¢ per visit, or present their season swimming pool pass. The course is scheduled as follows:

All sessions will be held from 5:15 to 6:30.

The first lesson at the County Office in Yaphank will be held on April 20. All subsequent lessons will be held at the BNL Swimming Pool on the following dates:

April 22, April 27, April 29, May 4, May 6, May 11, May 13, May 18, May 20, May 25, and May 27.

Deadline for registration is April 17, at 1:00 p.m., or when the class maximum of 30 is reached.

If enough employees sign up, the sessions will begin on April 20. If you have already filled in your application, report for your first class, unless notified to do otherwise.

Applicants must be able to 1) tread water 3 minutes - 1 minute without using hands, 2) swim 200 yards using any stroke or combination of strokes, 3) tow an inert swimmer 40 yards, 4) stay afloat 15 minutes - 2 minutes without using hands or feet, and 5) swim under water 15 yards without pushing off side of pool. Applicant must present a doctor's certificate stating physical fitness.

For additional information call George Sabine, Extension 391.

Bowling News

Irma Carl

Purple League

The Fiscal David smote the Design Goliath and the lead over the Electrons was reduced to three points. Jack Austen bowled a 199/533; Clayton Spence 207/531; Mike Iarocci 200/507; Worth Austin 180/506; and Vinnie Felice 203/504.

Red League

The Sparks now have the slight lead in first; looks like a three team race - and position night coming up April 14! ! Don't forget to get your sweeps entries to Vinnie LoDestro. An even 200 was rolled by R. Meier and R. Larsen; a 213 by C. Buzzeo and 232 for R. Bone.

Rose League

The Sure Shots still leading, but watch out for those Nightingales who are close behind. Martha Hill rolled a 167/432 and also made the 5-7-8 split. Kit D'Ambrosio rolled a 157/425 and Teresa VanDervoort came up with a 175/152/454.

Pink League

Marge Stoeckel (175/481), Betty Jellett (171/458), and Wilma Quinn (169) of the Pinsplitters are still fending off the Medigals for third place. Possession of the cellar has been upset again and the All Toes have squeezed into first place by one point. Time will tell all (like Position Night on April 14)! !

Rifle and Pistol Club

The Annual Outdoor Round Robin Pistol Series, sponsored by the Rifle & Pistol Club will start on April 21, 1970. All matches are scheduled for the third Tuesday of the month and will be held at the range located on site.

The series is open to all registered club members and will begin promptly at 5:15. Individual and two-man-team matches will be fired and trophies awarded at each match.

For further details, contact P. Mercier, program organizer, Ext. 309.

Grand Illusion A Film Classic

Jean Renoir's film classic, "Grand Illusion," will be presented next Wednesday by the BNL French Group. This 1937 anti-war story is set against a prison escape of French aviators from a German stalag during World War I. It features Erich von Stroheim, Pierre Fresnay and Jean Gabin in some of their most celebrated roles.

In 1937, just one year before Hitler began to fan his new armies across Europe and start the ominous overture to the Second World War, there was released in France a motion picture which is one of the most telling examinations of the mystery of why men submit to war. Grand Illusion, in its theme, philosophy, construction, staging, performance and mood, merits all of the commendations it has received over the years since its first release.

The sound track is in French, but there are English sub-titles. Everyone is welcome to see this film next Wednesday at 8:30 p.m. in Berkner Hall. Admission is only \$1.50.

Slo-Break Basketball

by George Latham

Tonight Is Basketball Night

The final two games of the basketball season will be played tonight. At 5:30 the Tandems and Biology will play for the championship of the Universities League.

The Knacks, champions of the Associated League, will then play the Associated League All-Stars. There will be a trophy presentation between the two games.

Free beer, pretzels and chips. Everyone is welcome!

Large Bore Rifle Shoot

Anyone interested in shooting in the Spring Large Bore Rifle Activity should call Frank Rumph on Extension 7581.

Non-club members are invited to participate.

Softball

Tom Lee

The week has arrived: last year's teams have until Friday to get their rosters in. Any new teams have until the 15th of April to enter.

If you are new to the Laboratory or haven't played in the Leagues and would like to join up, place your name in the Players' Pool at the Recreation Office.



Any questions concerning rules, eligibility, etc., can be answered by picking up forms at the Recreation Office.

A reminder to team captains concerning equipment. Each team must have their own catcher's mask, bats and score books. See George Sabine about ordering same.

Let's get busy rounding up those ball players and getting entries in.

Classified Advertisements

Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue

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.

MECHANICAL ENGINEERS - Technicon Corporation, Tarrytown, New York.

ELECTRICAL ENGINEERS - Technicon Corporation, Tarrytown, New York.

DESIGNERS - Technicon Corporation, Tarrytown, New York.

RADAR OPERATOR - U.S. Army Nike Base, Rocky Point, New York.

LAUNCHER CREWMEN - U.S. Army Nike Base, Rocky Point, New York.

SECURITY GUARD - U.S. Army Nike Base, Rocky Point, New York.

ENGINEERS (Nuclear, electrical, mechanical, metallurgical, civil design and architectural) - Burns & Roe, Inc., Oradell, New Jersey.

JANITOR (PART TIME) - Skills Unlimited, Oakdale, New York.

ENGINEERS (Mechanical, Structural and E.E.) with Fossil Fueled or Nuclear Power Plant Experience. Stone & Webster Engineering Corp., Jackson Heights, New York.

GROUP MANAGER, ANALYTIC STUDIES - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

SECRETARIES/TYPISTS - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

LOGIC DESIGN - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

CHEMICAL TECHNICIAN - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

VACUUM TECHNICIAN - Alloys Unlimited, Inc., Melville, New York.

ENGINEERS - (E.E.'s, M.E.'s, C.E.'s) New York Telephone Company, New York, New York.

ELECTRONICS (ALL LEVELS) - Telephonics, Huntington, New York.

SALESMEN - The Union Labor Life Insurance Company, Melville, New York.

LABORATORY TECHNICIAN - Health Sciences Center, State University of New York, Stony Brook.

SECRETARY - RAI Research, Hauppauge, New York.

STAFF PHYSICIST - Data Panel of the Physics Survey, National Research Council, Washington, D.C.

INSTRUMENT TECHNICIAN - Maxson Electronics Corp., Great River, New York.

REPRODUCTION TYPIST - Maxson Electronics Corp., Great River, New York.

BOOKKEEPER - Cold Spring Harbor Laboratory of Quantitative Biology, Cold Spring Harbor, New York.

LABORATORY TECHNICIANS - Cold Spring Harbor Laboratory of Quantitative Biology, Cold Spring Harbor, New York.

CLERK - AiResearch Aviation Company, Ronkonkoma, New York.

SCIENTIFIC PROGRAMMERS - Atomic Power Development Associates, Detroit, Michigan.

SUPERVISOR, CENTRAL MARKING AND RECEIVING SECTION - Swezey & Newins Department Store, Patchogue, New York.

PRODUCT ENGINEER - Technicon Corporation, Tarrytown, New York.

HEMATOLOGY & AUTOMATED SYSTEMS & INSTRUMENTATION - Technicon Corporation, Tarrytown, New York.

TECHNICIANS - Technicon Corporation, Tarrytown, New York.

PRODUCT LEADER - Technicon Corporation, Tarrytown, New York.

SYSTEMS ENGINEERS AND PROGRAMMERS - Technicon Corporation, Tarrytown, New York.

TECHNICIAN/PROGRAMMER - General Telephone & Electronics Laboratories, Inc. Bayside, New York.

SCIENTIFIC PROGRAMMING ANALYSTS, Applied Mathematics Department.

TECHNICAL SPECIALIST (ELECTRONICS), Applied Mathematics Department.

REGISTERED NURSE, Medical Department.

TECHNICAL SPECIALISTS (DIGITAL ELECTRONICS), Physics Department.

CHEMIST - (B.S. or M.S.) General Telephone & Electronics Laboratories, Inc., Bayside, New York.

CHEMICAL ENGINEER (or Mechanical Engineer) - Argonne National Laboratory, Idaho Falls, Idaho ENGINEERS (Electrical, Mechanical, Nuclear and Chemical) - Westinghouse, Inc., Pittsburgh, Pennsylvania.

ELECTRO-MECHANICAL DESIGNER/DRAFTSMAN - General Telephone & Electronics Laboratories, Inc., Bayside, New York.

LAB WIREMAN - Maxson Electronics Corp., Great River, New York

SHIPPING & RECEIVING CLERK - Maxson Electronics Corp., Great River, New York.

BACTERIOLOGIST - Suffolk County Department of Health, Riverhead, New York.

PUBLIC HEALTH ENGINEERS (Civil or Chem. Eng. degree) Suffolk County Department of Health, Riverhead, New York.

SECRETARY - H.S. Roberts, Inc., Westhampton Beach, New York.

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

Autos & Auto Supplies

68 BSA - Excel cond, 2000 mi., mirrors & windshield. \$495. Ext. 2852 or 928-0423.

69 VW - White, am/fm radio, eng. lock, bumper guards, leatherette uphol, under warranty. \$1675. 751-6469.

68 GTO - Green/Blk vinyl top, excel cond, 400 cu in eng, new tires, Hurst 3 spd shift, many extras. 722-3153.

64 JEEP WAGONEER - 4 w/d, Tornado eng, good mech shape. \$900. R. Young, Ext. 591.

66 VW FASTBACK - R/h, sun roof, very good cond, low mileage. asking \$925. C. Martens, Ext. 2106.

67 CHEVY - Chevelle, automatic, r/h, snows. 589-7052.

66 OLDS F-85 - 4 dr, low mileage, excel cond. \$800. 589-4284.

67 SUNBEAM MINX - 4 dr, auto trans, r/h, 22,000 orig mi, excel cond. \$1000. Jake, Ext. 375/2580.

59 FORD - 2 dr ht, ps, auto trans, r/h, new batt & tires, good trans. \$195. Joke, Ext. 375/2580

4 TIRES - Semperit 4 ply w/w, 600x12, used 1000 mi. \$75. D. Feigenbaum, 289-3622 or 7676.

70 VW (BUG) - Std shift. 5000 mi, leatherette uphol, w/w, under warranty, owner going overseas. J. Mann, Ext. 567.

64 PEUGEOT SW - Good running cond, avg 22 mpg, good rubber. \$275 or best offer. Ext. 7453.

TIRE - 600x13 w/Valiant rim, good for a spare. P. McHugh, Ext. 7164.

66 PONTIAC EXEC - 4 dr, auto trans, ps/pb, r/h, rear defroster, rear spoker, runs beautifully, gorgeous interior. Asking \$1100. LT9-3269.

AUTO REPAIRS - Tune ups, lt work, cheap; 69 Opel S/W - excel cond, yellow w/blk int, 32 mpg; 52 Dodge Coupe - real good shape, runs excel. 281-9366 after 5.

TWO SNOW & TWO REGULAR - 7.75x14 Sears prem tires, barely used. \$52. Zolot, Ext. 7148 or 924-8670 eves.

60 OLDS 88 - Runs well. \$50. M. Strongson, Ext. 2727.

14" OLDS WHEEL - \$2. M. Strongson, Ext. 2727.

8 SPARK PLUGS - Fit most GM and some Chrysler cars of th 60's. \$3.25. M. Strongson, Ext.2727.

64 CHEVROLET - 2 dr, 6 cyl, auto trans, r/h, solid transportation, see this one. Ext. 629 or 928-1529.

68 VALIANT - Excel cond, std shift, radio, etc. \$1200. B. Museler, Ext. 7676.

35 PLYMOUTH BUSINESS COUP - Body & Chassis, needs restoring, rumble seat & cloth top, no drive train. 281-8622 after 6.

66 IMPALA - 8 cyl, std shift, rebuilt head (valve job), new brakes, clutch, batt, 57,000 mi. 281-8622 after 6.

62 CHEVY ENGINE - 283 cu in, ready to install. \$75 firm. Ext. 7461 or 744-8765.

68 FIREBIRD CONV - Overhead cam six, std three spd, wire wheels, ps, bucket seats. \$1,800. Holly AT9-0837 after 5.

68 OLDS 442 - Mint cond. \$2100. AT9-8236.

64 OLDS VISTA-CRUISER SW - Very good cond. \$630. AT9-8236.

RADIO - Auto am/fm radio w/speaker, 6 or 12 v. \$30. Ext. 7612, HR3-7951.

69 RIVERSIDE (BENELLI) - Motorbike, 350 cc, 1300 mi, \$300. Tad, Ext. 2563 or 281-6237 after 10 pm.

Boats & Marine Supplies

25' ULRICHSEN, 58 - 125 hp Chrysler Crown, ss radio, sleeps 3, mahogany hull, xcel cond. AT9-0012 after 6.

1 PR METEOR COMBI WATER SKIS - Tow rope, 2 ski belts, all perf cond. \$25. B. Weinberger, 744-5404 or Ext. 7415.

TWO OUTBOARD GAS TANKS - 6 gals ea., all plastic, like new w/ext. to form one tank. H.O. Ach, Ext. 2411.

16' SPORTCRAFT FIBERGLASS - 1966, 40 hp elec start Evinrude 1966, Navy top, side curtains, cover, 2 6-gal tanks, extras. \$1,150. Ext. 7353 or 587-9372.

SPEEDBOAT - 22' Chris Craft, all acces, new cond. \$2500. Ext. 7166.

9'6" FIBERGLASS 'SEAL' SAILING DINGHY - 40 sq ft sail. \$300. P. Thornber, Ext. 2351 or 878-2342.

28' LAPSTRAKE SEABRIGHT SKIFF - 125 hp Chrysler Crown, 2/1 reduction, berths, electricy, head, many extras, in water at Ritchies Boat Yard, Patch. \$1200. Ext. 7443 or GR5-7792.

PLEXIGLASS WRAPAROUND WINDSHIELDS - 1, 52" x14"; 1, 75" x14 1/2", never used, no hardware, both for \$10. F. J. Keute, GR5-2287 or Ext. 2580.

POWER WINCH - Power operated, anchor windlass, 12 volt. 286-8945.

34' POWER CRUISER - 115 hp Chrysler Crown, sleeps five, built by Stapelton & Johnson, vintage craft in very good cond. H. McChesney, Ext. 636, AT6-1352.

SAILBOAT - Star #1233, w/2 sets of sails. \$250. Ext. 2981.

GAS TANKS - 6 gal, for Mercury & Evinrude motors. \$6 ea. Bill, Ext. 2580.

16' GAFF RIG - C.B. Sloop, Ratsey sails, shallow draft for GSB. \$300. L. Decker, Ext. 2431.

25 HP UNIVERSAL MARINE ENGINE - Good cond. \$150. Ext. 7121.

17' BOAT - Navy top, 35 hp motor and controls, trailer, anchor, life vests. \$400. John, Ext. 7121.

SAILBOAT - Skimmer Seadog, 9 1/2' fiberglass, dacron sail, used 1 season, easily car-topped. \$435. (new \$499 + tax + extras = \$537) P. McHugh, Ext. 7164, 586-3579.

GAS TANK - 6 gal, never used, for Mercury motor. \$12. Bill, Ext. 2580.

58 LUHRS - 22' Hardtop skiff, 109 grey marine eng, sleeps 2, head, ss radio, outriggers, compass, anchor. \$1250 firm. Joe, MO7-7292.

15' PENN YAN - 35 hp Evinrude outboard, elec starter, trailer, hood, acces. \$500. G. Holm, Ext. 7203 or 924-4261.

YACHT ANCHOR - 30 lb Benson patent, good cond. \$25. Ext. 2989 or 473-7657.

21" CHRIS CRAFT CRUISER - 60 hp, inboard, 2 bunks, head, good cond. \$750. L.P. Hatch, Ext. 2206.

32' LUHRS - 225 hp FWC, fly bridge, sleeps 6, fishing chair, outriggers, marine radio 115 watt, 250' depth indicator. Bindel, Ext. 7218.

20' CABIN CRUISER - 95 hp inboard FWC, very good cond, extras. Petruk, Ext. 2142, AT6-0124 eves.

69 COX TANDEM TRAILER - Capacity 2000 lbs, for 18' boat. Don, 288-1707 after 6.

18' CRUISERS INC. - 75 hp Johnson Elect Shift, 1968 Tee Nee trailer, plus extras. \$650. B. Weinberger, Ext. 7415 or 744-5404.

67 STARCRAFT ALUM 15' RUNABOUT - 33 hp, elec start Evinrude, 1968 Cox trailer, full boat cover, all like new. \$975. Bob, Ext. 2233.

15' SPAN-AMER - Fiberglass, 40 hp Evinrude. \$425. Mike, Ext. 7540.

67 LUHR'S 26' SPORT FISHERMAN - Fly bridge, dual controls. AN5-2689 after 7.

CHRYSLER OUTBOARD MOTOR - 1967, 55 hp, w/ new warranty powerhead Sept. '68, long shaft, elec start, low hrs, excel. Ext. 7817.

17' THISTLE SAILBOAT - Dacron sails, 2 spinnaker, good cond, ready to go. \$950. HR2-1833.

Miscellaneous

DAY BED - \$65; infant feeding table. \$10. 286-0407.

FINE CHINA - Service for 12, "Marquis" pattern by Arlen, used once, orig \$135. Asking \$75. Les, Ext. 7411.

TREND LINE TV OR STEREO STAND - Incl record stand. \$12. Matsui, Ext. 2338.

PINK MELAMINE - Service for 8; 10 soup bowls in Noritake china; 1 glass bowl. \$10 all. Matsui, Ext. 2338.

HOOVER WASHER SPIN DRYER - Apt size, on casters, conven for sm family, good cond. \$65. (was \$160) Ext. 2959 or AT6-0295.

FLUORESCENT CIRCLINE FIXTURE - 32 watt w/bulb. \$5. Ext. 2515.

KENMORE STOVE - 2 ovens, Sears make. excel cond. 878-0577.

4 BURNER GAS STOVE - Suitable for boat or trailer. \$25. J. Mann, Ext. 2221.

2 16' TRAVEL TRAILERS - Sleep 5, self contained, avail May 1 for rent. S. Galante, Ext. 573 or 475-6484.

REESE CHASSIS HITCH - W/qualizer bars & K-H brake control, will install. S. Galante, Ext. 573 or 475-6484.

COLLIE - For adoption, 2 yrs old, male. 472-8883.

TEVEVISION - 19 in. screen, rugged cabinet, ideal for kids playroom. \$29. 281-4419.

35 MM PROJECTOR - TDC Headliner. \$16. Paul, Ext. 2222.

SPRING LAWN SPECIAL - 240 GPH Duro shallow well piston pump w/1/2 hp motor and 30 gal tank. \$10. F. Pallas, Ext. 7183.

GO CART FRAME - Compl less eng. \$10. Tom, HR2-1289.

VACUUM CLEANER - Supre Macy w/all attach and extra bags. Sell for \$25. H.O. Ach, Ext. 2411 or 929-8187.

BABY CAR SEAT - New, never used. \$5. A. Greener, 924-3431.

PROFESSIONAL CLAM RAKE HANDLES - \$15; clam tongs handles. \$10. 473-0178.

CLIMB LONG ISLAND'S MOUNTAIN - The view is 'tairrific,' on a clear day you can see forever. \$3/1/2 hr. certified pilot. A. Roesch, Ext. 7667.

BELL MAGNUM HELMET - \$35. Frank, Ext. 7220.

SEARS LAWN MOWER - Reel type. \$65. Frank, Ext. 7220.

BABY FORMULA - 10 cans concentrated Enfamil baby formula at cost. YA4-4968.

FRIGIDAIRE ELEC RANGE - Model RO-70, fully auto, everything operational, clean cond. \$65. F. J. Keute, Ext. 2580 or GR5-2287.

PRECISION AM TUNER - Excel selectivity, has 2 tuned RF stages, 3 IF stages, 4 gang variable tuning capacitor, variable BW, tuning meter. \$30. Hans, Ext. 686.

REMOTE CONTROL TRANSMITTER - 27.255 megacycles, output meter, 1 mi range, excel cond. \$30. Hans, Ext. 686.

GIRL SCOUT CADET UNIFORM - Size 14, \$5.50. 924-8225.

FLUORESCENT FIXTURE - 12" circline 22 & 35 watt bulbs w/extra 32 watt bulb. \$12. Ext. 7219.

FM TUNER - Scott stereo master 312, new \$200. Now \$95. Dave, Ext. 7660 or AT6-8453.

TV - 21" GE console, works well. \$25. Dave, Ext. 7660 or AT6-8453.

INTERNATIONAL CUB CADET - 10 hp, w/42" rotary mower. elec starter. \$500 firm. Webster, 286-3647 eves.

COINS - U.S. and foreign coins. O. Booker, Ext. 2411.

ROTOTILLER - Self-propelled. \$60. R. Talsma, Ext. 2844, 2852, 744-3824.

GE PORTABLE DISHWASHER - Excel cond. \$65. 744-2783 after 7.

RICOH "35" CAMERA - W/leather carrying case, flash attachment, + GE light meter. \$30. B. Weinberger, Ext. 7415.

COMM FLOOR SANDING MACHINE - 1 hp, motor needs some parts, but runs. \$25. 281-8695.

4 X 18 POOL - W/12 X 12 deck, filter, all attachments. \$300. 281-8695.

TYPEWRITER - Underwood-Universal. \$13. Mike, Ext. 7540.

GE ELECTRIC CLOTHES DRYER - 120-240 v., excel cond, 4 heat settings. \$40. Don, Ext. 2158.

AIREDALE TERRIERS - AKC ch sire, ch dam, 10 wks, wormed & shots, top blood lines, show pet champion. 924-8225.

HI-FI - Tuner, pre amp, 25 watt amplifier, speaker and cabinet. All for \$110. Dave, Ext. 7660 or AT6-8453.

FREE - Heinz puppies, ready about first week in May, Mother's Day present? P. Ettari, 273-6436.

65 APACHE CHIEF - Very good cond. \$350. 281-8529.

CALORIC RANGE HOOD - With electrostatic precipitator. \$25. Ext. 7219.

REFRIG-FREEZER - GE 19.1 cu. ft, side by side, new was \$525, 4 months old. Now \$350. 298-4453.

DINETTE SET - Walnut plastic top, 4 blk vinyl swivel chairs, like new cond. \$50. Ext. 629, 928-1529.

IRISH SETTER PUP - Choice of litter, AKC, reg. Ext. 600 or 929-4631.

DYNA SCA 35 STEREO AMPLIFIER - Superb instrument, 35 watt RMS, (equiv. 100w usual ratings), 6 mos old. \$80. Mel, Ext. 2728.

EXERCISE BIKE - Vita Master, roto cycle, adjustable, w/speedometer & odometer, like new orig. Cost \$90. Bob, Ext. 351.

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

2 ACRES - 500 ft. off Jericho Tpke on Wilson Ave., Gordon Heights. \$6,000. 732-3443.

BELLPORT VILLAGE - 4 bedroom split w/attached garage, 1 1/2 baths, liv rm and panelled fam rm, 1/2 basmt. L. Snead, Ext. 7168 or 286-8166 after 6.

UNUSUAL THREE BEDROOM RANCH - On beautiful corner acre, fireplace, w/w, s/s, oil heat, sun room, new kitchen & appl, two-car garage. \$31,500. YA4-3519.

SHIRLEY - Furn 6 rm house, walk to shopping, post office, bus stop, RR, owner leaving lab. \$12,000 or to be rentd on May 1. Anton, Ext. 7534, 281-8470.

1/2 ACRE WOODED PLOT - At Brookhaven airport, owner leaving Lab. Best offer over \$2200. Anton, Ext. 7534, or 281-8470.

SHIRLEY - 5 rm split level, 3 zone h/w heat, 1 1/2 baths, sep garage & workshop bldg 25' X 30', 150' X 125' fully landscaped, 1/2 mi from Smith Pt. Br. \$21,000. 281-8396.

LOT FOR SALE - 87 1/2 X 100, Oregon Ave., Medford, variance to bld. 475-4729.

For Rent

3 BEDROOM HOUSE - Fully furnished, near Brookhaven Airport, Shirley, 7 min. from Lab, avail for rent from July 1, 1970. E. J. Samuelsen, Ext. 7601 or 281-4066.

UNFURNISHED HOUSE - Attractive two bdr, garage, excel cond, conven location, 5 mi from the Lab. (212) 872-5771.

FURN HOUSE - Brookhaven, 5 yr old, spacious, 5 bd rms. 3 baths, attractive location, avail 8/25/70 to 8/23/71. \$295 per mo. Lacks, Ext. 359 or 286-0002.

3 1/2 RM APT. - Waterview, completely & newly furn, beach rights, exceptional rental. Avail now, Rocky Point. \$160/mo. + util. (212) BAS-8714 after 7.

Wanted

SHIPPING TRUNK - Any size usable. Ext. 508.

ON-SITE BABYSITTER - For 10 mo old baby, Mon. thru Fri., 9 a.m. - 5 p.m. Bill, Ext. 7220 or 2766.

TWIN STROLLER - In good cond. Matsui, Ext. 2338 or Ext. 529 after 6.

2 BEDRM HOUSE - Or opt. within 15 mi. of Lab, June 1 - Aug. 31, 1970. Ext. 2913. 744-5777.

TO RENT - Houses for summer near Lab, Shoreham preferred, for visiting researchers' families, 2, 3, 4 bedrm considered. Garelick, Ext. 7724.

CANOE - G. Hughes, Ext. 7541 or 281-4419.

FOREIGN CAR - About 5 yrs old, dependable & inexpensive. Bernie, Ext. 638.

GOOD HOME - For miniature Shep mix, excel w/children, good watch dog, 1 yr old. GR5-2079.

SMALL BEAM SCALE - 4 or 5-pound by 1/2 ounce, such as triner postal scale, in good cond, reasonable. J. Hallock, Ext. 2480.

HOMES FOR PUPPIES - 4 females, 1 male, Beagle-Terrier mix, avail next week. 588-5833.

PETS - Going on vacation, reliable pet-sitting, day, wk, mo, reasonable. Tony, 924-8225.

TAXPAYERS - Federal & State income tax forms prepared in the privacy of your home or mine. GR5-8330.

TRAIL MOTOR-CYCLE - Price aprx. \$50. HR3-2821 after 6.

OUTBOARD MOTOR - 15 hp-25 hp, good cond. R. Graeb, Ext. 486.

TIRE - 165 X 15 or 6.85 X 15. M. Strongson, Ext. 2727.

APARTMENT TO RENT - Two bedrm, two bath, unfurn, newer unit. Will sign one year lease. S. Beale, Ext. 7206 or 7711.

BABYSITTING - Mother will babysit for preschool child at home, Riverhead area. O. Booker, Ext. 2411.

WILL THE LADY WHO CALLED - 3 wks ago about piano lessons in the Mastic area call again. Don, 281-8044.

STUDENTS - Interested in taking lessons in piano, accordion, or organ, my home or yours. Don, 281-8044.

Carpools

ADDITIONAL DRIVER WANTED - To compl existing carpool, Story Book Homes and North-E. Setauket, Hooper, Ext. 2824.

WANTED - Driver to complete existing carpool from Exit 52 (or further west) on L.I. Expy. Ext. 2103.

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 Check the heading applying to your ad.
 For Sale: Boats & Marine Supplies Carpools Print or type your ad in 20 words or less.
 For Sale: Miscellaneous 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