



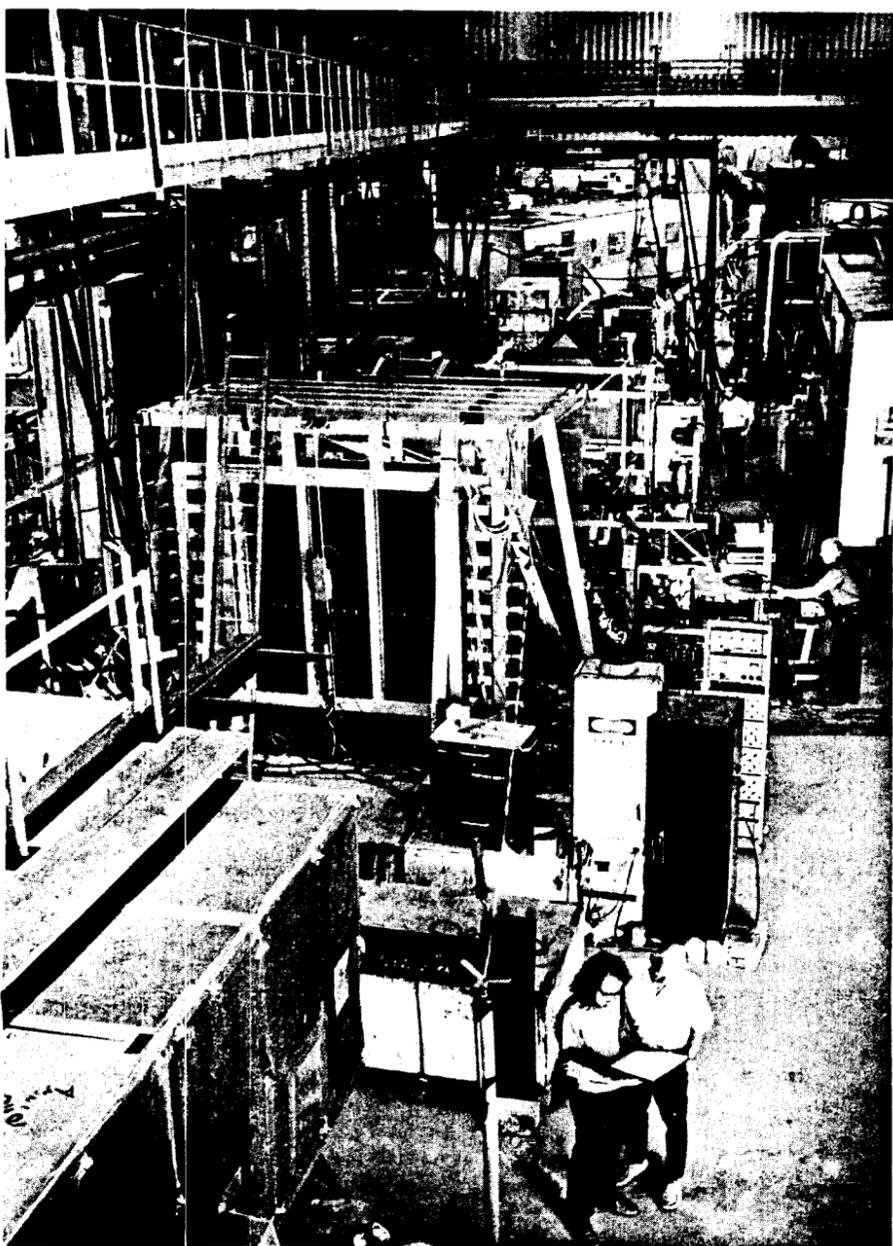
BROOKHAVEN BULLETIN

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Volume 27 - Number 42

October 26, 1973



The East Test Beam shown from the downstream end.

The Most Popular Beam at the AGS

The East Test Beam of the AGS is a hub of activity carrying on a full schedule of exciting experiments by various universities and laboratories. The beam is backlogged with a standby list of experimenters waiting for an opening. All this just goes to prove that the AGS is alive and well and living at Brookhaven.

The test beam in the accompanying photograph shows an array of five separate sets of apparatus which are being tested simultaneously. The test beam originates at the G-10 internal target and is transported through the shielding by the usual array of quadrupole (focusing) and dipole (beam bending) magnets.

At the far (upstream) position an MIT/DESY group is testing a lead-glass counter in preparation for experiment #598 which will be set up in the new A beam to look for new particles in the mass region 1.5-5 GeV/c.

Next, coming downstream, is an array of cylindrical spark chambers not visible in the photograph. These spark chambers are the experimental models being tested by Carnegie-Mellon physicists to guide the design of a set of cylindrical spark chambers which will be installed in the Multiparticle

Spectrometer (MPS) which is now being set up in beam B2. Carnegie-Mellon is providing the chambers which will be used for



Prototype of a cylindrical spark chamber undergoing design tests for future use in the Multiparticle Spectrometer.

Chikkappa Awarded \$100,000 for Cancer Research

Dr. G. Chikkappa, Associate Scientist in the Medical Department, has been awarded a Margaret W. Wild Memorial Grant for cancer research from the American Cancer Society.

The \$100,000 grant will support Dr. Chikkappa's research of granulopoiesis (the growth of a certain type of white blood cell in bone marrow) in normal man and in patients with leukemia.

Under the direction of Dr. Eugene Cronkite, Dr. Chikkappa and his collaborator, Dr. Arland Carsten, are doing research on leukemia with living cells in diffusion chambers. The diffusion chamber technique consists of bone marrow cells from a living patient enclosed in a plastic filter chamber and implanted in the abdominal cavity of a mouse. The implanted cells, which continue to grow while being nurtured by the mouse's body fluids, can test the efficiency of various drugs in the treatment of leukemias. The experimentation is done on the living cells without endangering the patient in the process. The end result of this research would be the possible uncovering of a new means of treating leukemias.

Dr. Chikkappa received his M.B. and B.S. from Karnatak University, Dharwar, India; his M.R.C.P. from the Royal College of Physicians and Surgeons of Glasgow, Glasgow, U.K.; and his F.R.C.P. from the Royal College of Physicians and Surgeons of Canada, Ottawa, Canada. Before coming to Brookhaven in 1971, Dr. Chikkappa was an Instructor in Medicine at the Mount Sinai School of Medicine, New York. In addition to his work at BNL, he is an Assistant Professor at the School of Medicine, Health Sciences Center, State University of New York at Stony Brook.

Dr. and Mrs. Chikkappa and their two children reside on site.



Time Stands Still

On Sunday, at 2 a.m. time will stand still while clocks are adjusted back to Eastern Standard Time. The hour lost this spring will be regained when clocks are set back one hour to signal the end of Daylight Savings Time.

their experiment #596 to study proton-antiproton annihilation and pion-proton scattering which will be carried out in collaboration with Southeastern Massachusetts University. Following that experiment these chambers will become part of BNL's new MPS facility for the benefit of all users.

Next in line are the seven planar spark chambers under test by a Canadian team from Carleton University, the National Research Council, and McGill University. These chambers were built by Carleton University for use in experiment #546 which will be carried out in beam B2 by the above Canadian groups with an additional BNL collaborator. This experiment will be a search for higher mass excited states of the kaon.

Next to last in the lineup are the scintillation counters being checked out by a Columbia/BNL/Illinois/Rockefeller group in preparation for their experiment #605 which will be set up to run parasitically behind the 7-foot bubble chamber in the neutrino beam. They will be attempting to check the existence of "neutral currents" which have been predicted theoretically and for which there is some experimental evidence. The theory is a major step in the

attempt to generalize the concepts of physics by providing a framework unifying electromagnetic and weak interactions. Definite proof of the existence of "neutral currents" would be strong evidence in favor of the theory.

The apparatus at the end of the test beam line is a calorimeter set up by a Pennsylvania/BNL/Wisconsin team. This device is actually a prototype of a calorimeter which would be used in hadron jet experiments at NAL, the CERN IRS, and BNL's proposed ISA. The calorimeter, which is composed of a tank of liquid scintillator fluid with many iron plates distributed along the path of the particles, measures the energy of the jet. The height of the pulse from the scintillator is determined by the energy each particle deposits. The test beam provided electrons, pions, and protons of known energy. Triggering the calorimeter on individual particles enabled the physicists to correlate the pulse height and the known energy of the particle and thus provided the calibration of the calorimeter.

These tests have just ended and the apparatus will be removed to make room for
(Continued on page 2)

Popular Beam (Cont'd)

an NYU group who have been waiting for the opportunity to test some of their equipment which will be used in experiment #615 in beam B5 to investigate in more detail the violation of CP (charge conjugation and parity) first observed at the AGS by Princeton scientists in 1964. This baffling effect still defies explanation.

Four other groups - three from BNL and one from Princeton - have setups in the West Test Beam. The test beams are absolutely essential to the smooth operation of the BNL high energy physics program. Only by such prechecking and bug picking of the complicated and sophisticated instruments used in the experiments is it possible to avoid long periods of shakedown in the actual beams assigned to the experiments. This would present unacceptable delays in carrying out the work in these beams which have backlogs extending well over two years in many cases.

Golf Champs



Individual League winners were: Left to right, kneeling - Les Lawrence; standing - Jack Detweiler, Marty Caunter; absent - Jim Conway. Overall BNL champion - Marty Caunter.



1973 BERA Golf Team League winners were: Left to right, kneeling - Howie Gittleson, Tom Iarocci, Joe Mayeski; standing - Tony Baltz, Marty Caunter, George Korhut, Charles Flood; absent - Dick Hildenbrand. Overall BNL champions - George Korhut - Joe Mayeski.

Marathon and Bike Race

While the desired date for filing with the treasurer is Friday, October 26, late entries will be accepted at the starting line if accompanied by a reasonable explanation for the lateness.

Helpers are needed to mark courses and to man check points. Volunteers will be welcomed to help with these chores.

Cafeteria Menu

Week Ending November 2, 1973

Monday, October 29

Cream of Mushroom Soup	
Creamed Ham on Noodles & 1 Veg.	1.00
Braised Beef a la Mode & 1 Veg.	1.20
Knockwurst, Sauerkraut & Mashed Potatoes	1.00

Tuesday, October 30

Chicken Noodle Soup	
Cheese Omelet w/ Fr. Fr.	.95
Spaghetti & Sausage w/Tossed Salad	1.00
Roast Turkey, Stuffing & 1 Veg.	1.20

Wednesday, October 31

Split Pea Soup	
Beef Liver & Onions w/1 Veg.	1.00
Stuffed Flounder & 1 Veg.	1.05
Barbequed Breast of Lamb & 1 Veg.	1.05

Thursday, November 1

Beef Barley Broth	
Lasagna w/Meat Sauce & 1 Veg.	1.00
Chopped Steak w/1 Veg.	1.00
Roast Fresh Ham & 1 Veg.	1.10

Arrivals & Departures

Arrivals

John S. Bookless	Applied Science
Metzi L. Jipp	Mech. Engrg.

Departures

Roy Rubinstein	Accelerator
Morris M. Strongson	Applied Math



Published Weekly for the Employees of
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CARL R. THIEN, *Editor*
CLAIRE LAMBERTI, *Editorial Assistant*

40 Brookhaven Ave., Upton, N.Y. 11973
Telephone (516) 345-2345

November—Hospital Painting Exchange

"Look at the expression on the face of that little girl." "It must be a wonderful gift to be able to use color in a way to make that leaf vibrant." "I wonder who is so lucky to have all that talent!" Perhaps one of these comments has been made about your picture. If so, you can be rewarded by the knowledge that your painting has brought joy to a very sick patient. Artists in the area, again this year the committee concerned with the exchange of paintings at the BNL hospital seeks your assistance.

Paintings that were loaned this year should be picked up November 6 & 7 at the Occupational Therapy room in the Medical Department. Work to be loaned for the coming year should be taken to the same place on those dates. All work must be framed, ready for hanging, and may be marked "For Sale." Please remember that these paintings are to cheer the patients and should be suitable for a hospital room. All paintings are fully insured by the Laboratory.

New participants in this Annual Exchange are most welcome. If you have work on loan that you are willing to leave, please notify Mrs. Brooks, 345-3684 before November 2. If you have questions or can recommend new participants, please call Mrs. Eleanor C. Dahl at 286-1592 or Mrs. Emily Czaja at 286-8848.



Dominick Gracia, a Staff Area Supervisor in the Physics Department who has been at Brookhaven since March 2, 1955, will retire on October 31.

Visitors' Day Program

The following is the program of exhibits which will be open on Saturday, October 27 for Visitors' Day.

Are you going to join the crowd? Why not bring a neighbor along to see our gala Science Fair!

Program . . .

VISITORS' DAY 1973

Visitors' Day guests are welcomed at the Reception Center - a good place to meet after you have completed your tour. For your convenience, a desk to handle General Information, Lost and Found, and Messages is located here. Refreshments are available in the Cafeteria, which is in the same building.

PROGRAM FEATURES WITHIN WALKING DISTANCE

Exhibits:

Chemistry displays are on view in the west wing and in the lobby of the Chemistry Building, Lewis Road (please enter by the west door).

Computer Science exhibits and demonstrations are in the Exhibit Hall on Brookhaven Avenue.

Exhibits showing other examples of research at Brookhaven will be found in the Gymnasium; these include medicine, biology, health physics, instrumentation, and meteorology. The Brookhaven Employees' Recreation Association Radio Station is also in the Gymnasium.

These buildings will be open until 4:00 p.m.

The Scientific Answer Men are located in the Gymnasium. Please feel free to ask questions on any scientific or technical programs. A few minutes spent with the Answer Men will clarify many points that may arise but cannot be discussed in detail during the tour.

Motion Pictures: Films are being shown continuously from 10:00 a.m. to 4:00 p.m. in the Theatre on Brookhaven Avenue. The films are: "Computers Help People" (23 min.) - a film about the IBM World Trade Scientific Centers, and "Powers of Ten" (9 min.) - a fascinating mathematical exercise. Don't forget to watch the clock on the left!

BUS TOUR

Buses start from 3 Center Street, the exit of the Gymnasium. The first bus will be dispatched at 10:00 a.m. and the last at 3:00 p.m.

The order of the stops on the tour:

- Solid State Physics exhibits, Graphite Research Reactor
- Accelerator and High Energy Physics exhibits, special exhibit building
- Nuclear Physics exhibits, Tandem Van de Graaff
- 80-inch Bubble Chamber
- Theatre and Reception Center

and back to the Gymnasium. The buses move around the circuit continuously, and do not wait for you at each stop; please remember to keep your personal belongings with you. If any research facility on the tour becomes overcrowded and is temporarily bypassed by the bus you are riding, you may visit it later by making another circuit of the bus tour and skipping the places you have already seen.

Photographs: Visitors may take pictures anywhere on the Laboratory site, provided that they are for personal use. Pictures for professional or commercial use should be cleared with the BNL Public Relations Office.

Emergency: In case of emergency, pick up any telephone and dial the Reception Center, extension 3547.

Bowling News

Grace Fales

Red League

After 6 weeks of bowling, the Charlie Browns have retained the league lead with a 46-20 record, followed by the Lucky Strikes 44-22 and the Old Timers 37-29. Highs for the night were V. Bilms 203, J. Petro 213, G. McGovern 210, W. Reams 202, K. Asselta 206, B. Buzzeo 215, B. Brehm 220 and last, but not least, steady Joe Scesny 256/619. (But where's "Killer"?)

Green League

Confucius say: "Easy way bowl 200, roll many strike and no open flame. Easier way, roll two game, 100 each. Easiest way, keep own score." It appears that the men finally took their minds off the waitress' lines and are now concentrating on the house's lanes. For their Club Awards: L. Jacobson 226/638 gross series and A. Dick 256/679 gross series. Others that bowled the "easy way" were R. Jones 215/207, J. Ferrero 220, G. Guydish 215, R. Taylor 220, S. Kiss 223, M. Bull 209/203, C. Cantera 205, N. Parrinello 209, J. Cain 203, G. Walker 205, and J. Bartalomy 202. Team efforts exhibited: Designers 3097, Gotahitums 3086, Sandbaggers 3041, and Bubble Boys 3006.

Pink League

Helen Caisey celebrated her birthday by bowling 212/502. For that beautiful game she received a trophy from PJ Bowl and lots of applause from BNL bowlers. Honorable mention to G. Kyhl who rolled a 646 gross series. Close behind was L. Boyd with 642. Other highs were R. Piccioni 187, G. Fales 181, B. Jellett 179, J. Gazzola 173, F. Green 172, K. Conkling 172, L. Boyd 170, M. Stoeckel 163, and D. Bartelt 160.

Black and Blue League

With four weeks left in the first third, MJR's (30-12) are out in front, right behind them are the Pinheads and the Vultures tied at 24-18. Kit D'Ambrosio showed good form in converting the 3-7-10. Frank Candiano doesn't have Kit's form, but his conversion of the 4-7-10 looked good too. Only high game for the night belonged to Herm Haller with 210.

Safety Glasses

There will be no dispensing of safety glasses during the weeks of October 22 and October 29 due to the optician's vacation. For emergency dispensing of plano-safety glasses, contact the Health Physics & Safety Office, Ext. 4267.

Steinberg Lectures at USC

An invited lecture series on "New Energy Sources in the U.S." was presented by Meyer Steinberg of the Department of Applied Science to a closed circuit TV class taking a course on Energy in the U.S. at the University of Southern California, Los Angeles, on September 18, 1973. The course was organized by Dr. T.F. Yen of USC.

Softball Awards Night

The 1973 Softball Season came to an official end last Wednesday evening at the Annual Softball Awards Night Party. A capacity crowd of approximately 200 people was on hand to congratulate the winning teams and players and also consume the fine food and beer set up by Don Cassidy and his committee.

After a welcoming address by League Chairman Dick Ruffing, Bob Fuchs of the BERA Awards Committee presented trophies and merchandise certificates to the winning teams.

Congratulations to Walt Chornoma and Hal Marshall of the Blue Jays, winners of the Brookhaven League; Dick Dickhoff and Sandy Mars of the S&M team, winners of the National League; Bill Kollmer and Pete Stillman of the Bubble Boys, winners of the Laboratory League and Kay Hunt and Ed Taylor of the Oh-Kays, winners of the University League.

I would also like to take this opportunity to thank all of the players who participated in the softball program and made it such a fine success. I hope to see all of you next year at spring training.

—Dick Ruffing

Slimnastics Classes Begin October 30

Six slimnastics sessions, under the direction of Diana Wells, M.A. in Dance and Physical Education, will begin on Tuesday, October 30 in the Main Hall of the Recreation Building, at 7:30 p.m.

The exercise, rhythmic, and movement to music classes - leading to beginning modern dance - will run six Tuesdays through December 4. The cost will be \$2 per session, payable October 30th.

Classes will not be held unless a minimum of twelve enroll. Enrollment deadline is Monday, October 29. Call 878-4070 or Ext. 3460 for information or to enroll. Anyone interested in a 5:30 p.m. class should contact Eena Mai Franz, Ext. 4337.

Softball Winners



Oh-Kays - University League winners: Left to right, kneeling - Lou Caisey, LeRoy James, Ken Sutter, Vernon Faine, Mac Thomas; standing - Lindora Boyd, Jean Hamilton, Kay Hunt, Anna Maria Vasquez, Jackie Larrie, Helen Caisey, Ruth Faine.



Blue Jays - Brookhaven League winners: Left to right, kneeling - Dan Oldham, Nick Pisco, Charles Johnson, Ed Meier, Bob Fuchs (Awards Committee Chairman); standing - Bob Meier, Harold Marshall, George Oldham, Tom Miller, Walt Chornoma, "Doc" Carsten, Ken Riker, Warren Hulse, Tom Prach.



S & M - National League winners: Left to right, kneeling - George Dioguardo, Larry Musso, Fred Altrui, George Harris; standing - Dick Ruffing, Joe Hanson, Theo Gray, Frank Kedenburg, Clarence Hicks, Richard Dickoff.



Bubble Boys - Laboratory League winners: Left to right, kneeling - Carmen Spirio, Dave Brady; standing - Bob Scheetz, Pete Stillman, Bernie Stepnoski, Vinnie Chaimpou, Ted Erickson.

Classified Advertisements

Placement Notices

Each week, the BROOKHAVEN BULLETIN lists personnel placement requisitions currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves or others whom they wish to recommend to BNL. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, please contact Employment Supervisor, extension 2879 or 2882.

CHEMISTRY ASSOCIATE - Department of Applied Science.

COMPUTER SCIENCE ANALYST - Bachelor's degree or equivalent plus two years' programming experience and working knowledge of FORTRAN. Applied Mathematics Department.

SECRETARY - Temporary part-time position. Instrumentation Division.

OFFICE SERVICES ASSISTANT - Accounts Payable. Fiscal Division

SECRETARY - Purchasing Division.

Autos & Auto Supplies

55 INTERNATIONAL - 1/2 ton pickup. \$200 firm. 665-5242.

71 DODGE CHALLENGER - 318 V8, 3 spd stick, console, 31,000 mi. excel cond, must sell. 698-6356 after 6.

2 CHEVY RIMS - 14". \$3 ea. Ext. 4652.

64 ECONOLINE VAN - 6 very good tires, body good, runs well, r/h. \$475. Irene, Ext. 3747, 589-6468 after 5.

66 MERCURY STATION WAGON - V8, auto, ps/pb. \$200. 286-1152 after 6.

TIRE FOR TRAILER - 400/480x8", bought for Teenee boat trailer spare, new. \$15. Ext. 2486, 727-7724.

64 JEEP - 3/4 ton pickup, 4 wheel drive, 7 1/2' Meyers plow w/hydraulics, clean interior. \$750. Pete, 744-3807.

72 EL CAMINO - 350 V8, turbo hydro, almost 5000 mi, vinyl top, ps, rear air shocks, will take trade. Ext. 3696.

64 FORD - Excel running cond, good transp, new brakes, battery, carb. \$150. Steve Waski, Ext. 3284.

68 FIREBIRD - Excel running cond, must be seen. \$700. Steve Waski, Ext. 3284.

65 CHEVY PICKUP - 1/2 ton, 283 cu/in eng, 8' body, runs well, good tires. \$350. 477-0658 after 6.

71 TRIUMPH MOTORCYCLE - 650 cc, excel cond, blue & white. \$950. 581-0392 after 6.

66 DODGE CORONET - 2 dr, V8, ps, excel cond. \$350. Swan, 289-9692.

14" WHEELS - For Chevy & Pontiac, \$5 pr; 12 V gen GM type, \$6 ea, all in good cond. Bob, Ext. 4288, 289-0357.

73 GREMLIN-X SPORT - 304 V8, bucket seats, floor shift, still under warranty. \$2500. 586-1938.

71 MALIBU - 2 dr, vinyl top, r/h, ps/pb, excel cond. \$1800 firm. Harry, 475-5176.

69 PLYMOUTH VALIANT - 6 cyl, 4 dr, ps, auto, radio, snow tires. \$1C75. Ext. 4723.

64 FORD FAIRLANE - 6 cyl, runs well. \$100. 924-4228.

67 SUZUKI - 250 cc X6 Hustler, good cond. \$275. 727-5848.

WHEELS - 13" w/2 1/2" dia hub, 4 lug holes. \$2 ea. Paul, Ext. 2476.

63 CHEVY - Running cond. \$50. Ext. 2476, 751-2149.

14" WHEELS - For Plymouth or Dodge. \$5 pr. T. Daniels, Ext. 4163.

68 OLDS CUTLAS WAGON - Auto, a/c, power, tinted glass, 4 brand new tires, r/h, 8 cyl. \$850. 286-8805 eves.

68 CHEVY IMPALA SS - V8, ps/pb, auto, gold, 2 dr hardtop, good cond. \$825. Marcel, Ext. 4396, 3205 after 6.

67 GTO - 4 spd. \$500 firm. 363-2042 after 5:30.

TIRE - Used, 6.85-15, good cond; tire rims, two 5-holed 13". H. Susskind, Ext. 4465, 4461.

Boats & Marine Supplies

73 JOHNSON - Manual 40 hp outboard, excel cond, just tuned, timed and winterized. Best offer over \$475. Ext. 2486, 727-7724 eves.

71 TEENEE TILT BOAT TRAILER - Good cond, up to 17' boat handling. \$125. Ext. 2486, 727-7724 eves.

14' ALUM SKIF - 5' beam, 1970 25 hp Evinrude, 1971 matching trailer, extras, showroom cond. \$550. Andy, Ext. 3464.

6 GAL OUTBOARD TANK - Two hose, old style pressurized, all fittings, good cond. Ext. 3712.

Miscellaneous

GIRL'S BICYCLE - 20" w/training wheels. \$6. P. Ribon, 3934/3908.

LAFAYETTE AM/FM STEREO RECEIVER - 50 watts, 2 Criterion speakers (50 A), Garrard turntable (72 B), Pickering elliptical cartridge, 1 yr old. \$350 new, asking \$195. 475-4974.

19" COLOR TV - Panasonic table model, 5 yrs old, good picture. \$195. Ext. 4532, 581-8412.

POOL - 12x3 1/2', ladder, pump, filter, used 1 season. \$125. Mrs. Heinrich, 744-6211.

SLACKS - 30 waist/30 length, \$4; jackets, sport's, 12-20, \$4-5. A. Munsterman, 744-5871.

KENMORE WASHING MACHINE - Working cond, \$25. Richard, Ext. 4396, 288-2457.

PIONEER CASSETTE STEREO TAPE RECORDER - W/ playback, 1 yr old. \$130 new, asking \$100. 475-4974.

SURF BOARD - \$40; Gas hot water heater, \$25; gas range \$20; Fender Jaguar elec guitar, \$125. Ext. 2486, 727-7724 eves.

DOUBLE STAINLESS SINK - Soda fountain type, \$15; water tank, used, \$10. Ext. 2486, 727-7724 eves.

ELECTRIC MEAT SLICER - Kitchen size, almost new. \$18. 585-8322.

48" COLONIAL STYLE CABINET - GE stereo & radio combo, fine cond. \$100. 585-8322.

ORLON YARN - \$2.50 lb, variety of colors, will deliver to Lab or may be picked up at my home. Ann, Ext. 3143, 739-9384 after 6.

CLARINET - Wurlitzer w/case, 2 yrs old, excel cond, student lost interest. \$75. Jack, Ext. 3464.

WHITE SEWING MACHINE - W/console, excel cond, zig zag deco cams, buttonholer. \$60. firm. 472-1356 after 6.

LYMAN FRONT & REAR TARGET PEEP SIGHTS - \$15. John, Ext. 3354.

3 LOBSTER POTS - \$15. John, Ext. 3354.

TRAILER - 13 1/2', sleeps 4, porta-potty in closet, stove, ice box, sink, heater. \$700. Ron Smith, 475-3632.

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

WURLITZER CLARINET - Like new, used 1 season, student switched to French horn. Orig cost \$145, now \$90. Lloyd, Ext. 3381, 286-1024.

3 SPD SCHWINN BOY'S BIKE - 26" wheel, 17" frame, good cond. \$35. 286-2265 after 5:30.

LAFAYETTE LR-1500TA RECEIVER - Less than 1 yr old, \$250; SL-72 Garrard turntable, 1 yr old, \$50; 2 Criterion AX speakers - 12" woofer, \$50 ea. Prefer to sell components as a system. Ron, Ext. 4662.

2 FISHER XPS-B SPEAKERS - 8" woofer. \$25 takes both. Ron, Ext. 4662.

GITAR - Elec, 2 pickups & amplifier w/reverb, like new. \$75. Pete, 654-0318.

FIREWOOD - \$45 a cord 4x4x8, split, delivered, & stacked. 924-4228.

FLATWORK IRONER - \$35. 475-8426.

55 & 29 GAL AQUARIUMS - Stand, hood, racks, gravel, filters, all for \$175. Ray, 878-2486.

TRUMPET - E.K. Blessing w/hard & soft case. \$65. Lou, Ext. 4605.

PORTABLE COLOR TV - Sears 19", 1 yr old, cost \$340. Asking \$200. 475-7227 after 5.

FIREPLACE LOGS - Delivered, stacked. \$50 cord. Terry, 744-9322.

DOUBLE TRAVERSE ROD - White, like new, never used. Paid \$13, asking \$6 or best offer. Marie, Ext. 2313, 744-2004 after 5.

AQUARIUM - 50 gal, Gro-Lux, heater, stand, filter. \$50. Moose, Ext. 4533.

SPANISH OCTAGON CHAIRS - Blue/green cut velvet, Walnut wood spindles, brand new. \$175/pr. Chris, Ext. 4046.

FIREWOOD - Delivered. \$50 cord. Bob, 878-0485.

CHRISTMAS CRAFT SALE - Oct. 27 & 28, 10 till 4. 24 Lower Cross, Shoreham. Do your Christmas shopping early. 744-0217.

CHILD'S BED GUARDRAIL - \$2.50; 2-piece sectional slipcovers, brown tweed, \$8. 289-1754.

SEARS SEWING MACHINE - Heavy duty portable, like new, plus attachments, \$80; play gym slide & 3 swings, \$7. 289-1754.

YARD SALE - Oct 25-27, photo equip, babies needs, appliances, bikes, lamps, mower, tape recorders. 283 Woodhull Ave, Port Jeff Sta.

DINING SET - W/4 chairs, \$35; RCA Victor TV, 25", b/w, good working cond, console, \$25. 542-3172, 345-3115.

BEDRM SET - Like new, 7 pieces incl full bed, must see to appreciate. \$195 or best offer. Ext. 3527, 345-3115.

WROUGHT IRON BOOKSTANDS - Lg, \$4, sm, \$3; 2 folding wood chairs, \$2 ea; Royal typewriter, \$20. Janet, Ext. 3379.

ZENITH PORTABLE TV - 20", 1970, b/w, very good cond. \$50. Marcel, Ext. 4396, 3205 after 6.

GITAR - Standard size, nylon string, like new. \$25. Miller, Ext. 3571, 744-9085.

BATHROOM MEDICINE CABINET - 20"x30" w/mirrored sliding glass doors. \$15. Ken, Ext. 4003.

ELECTRIC WALL FIREPLACE - Red, new. \$70. Ken, Ext. 4003.

2 IDENTICAL RCA 21" CONSOLE COLOR TV'S - One in working cond, other for parts. \$65/both, firm. Ken, Ext. 4003.

FOLDING CAR CARRIAGE - W/mattress, excel cond. H. Susskind, Ext. 4465, 4461.

HUMIDIFIER - Almost new. \$40. 286-3709.

SQUASH RACKET - Used only twice, \$4.50; Girl Scout uniform, size 7 w/bow, belt, hat, \$6. 286-3709.

SEARS 6 HP SHREDDER BAGGER - For mulching leaves & branches, used 1 hour. Cost \$199 +, sell \$165. Ken, Ext. 4407, 289-8212 eves.

3/4 HP GOULDS - Deep well pump & glass lined tank. \$35. Ext. 2497.

SEWING MACHINE - Singer portable w/metal head, very good cond. Ext. 4046.

MASONITE TABLE - 4'x4' w/adjustable legs. Tina, 744-7465.

CRIB - Walnut w/cane, modern design, very good cond, orig \$135, asking \$50. Tina, 744-7465.

GARAGE SALE - Oct. 27, 8 Brenner Rd, Coram.

2 PR TAP SHOES - Black, sizes 4M & 4 1/2M, hardly worn. \$3 ea. Rowley, 286-0975.

BROWNIE UNIFORM - Size 10, tie, lg hat, knee socks, belt. \$5 takes all. Rowley, 286-0975.

GIRL'S SHOES - Buster Brown w/smile face, size 4D, hardly worn. Paid \$15, will sell for \$4. Rowley, 286-0975.

BAR - Walnut Formica, pulldown leaf type, glasses & mixer incl. Don, Ext. 2043.

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

RIVERHEAD - 3 bedrms, 1 1/2 baths, lg kitchen w/fireplace, sun porch, w/w, alum siding, 2 car garage, fenced yard, low taxes. \$29,000. Ext. 4697, 727-4859 after 5.

BELLPORT VILLAGE - 3 yr old 4 bedrm Hi-Ranch, 2 baths, playrm, s/s, w/w, 2 zone heat, patio, utility bldg, 2 car garage, golf course & dock privileges, \$32,500. 286-0147.

For Rent

CORAM - 3 bedrms, 2 1/2 baths, 2 car garage, fireplace, immediate occupancy. \$375/mo. 732-3895.

SHIRLEY - 2 bedrms, lg liv & kit, partly furnished, on water, avail around Dec. 1. Ext. 4105 or 281-7763 eves.

Wanted

OCCASIONAL BABYSITTERS - For Hospitality Committee. On site and local areas. Jane Garron, Ext. 2113.

TV - In good cond, not exceeding \$50. Ext. 3027.

HOME - For 5 yr old Irish setter. Beautiful, AKC, female, spayed, must have room to run, farm setting preferred. Ext. 2316 Tues.

GARAGE - For winter storage of car. 286-1068 after 6.

SOMEONE WHO DOES UPHOLSTERING - And/or slipcovers, couch and chair, my material. Mona, Ext. 3747 until 4.

MARINE SEXTANT - Good cond, reasonable price. Ext. 2482.

CHEAP CAR - Good running cond, immediately. Ruth, Ext. 4174, 878-2278 after 5.

LEAD GUITAR - To play & sing in a hard rock band. Ray, 878-2486.

HOUSE OR APT TO RENT - 2 bedrms, 10-20 min from Lab, would like to move Nov. 1, will pay up to \$200/mo, no more. Pauline, 727-7833, leave message.

BABYSITTER - Well-behaved 3 yr old from 8:30-5, from Center Moriches to Lab. Ext. 3267.

USED BABY STROLLER - In good cond; bike seat for 9 mo old baby. Marlene, 744-5801.

INSTRUCTION BOOK FOR ARGUS C-3 - To Xerox, will return intact. Ext. 4280.

LADIES 3-SPEED BICYCLE - Good cond, reasonable. 286-0269.

CAMPBELL SOUP LABELS - Need 8000 for St. John Nepomucene School to get free projector. Mail to F. Chandler, Bldg. T-89.

Services

SELF-DEFENSE KETSUGO-JUDO - Private lessons, your home OK. 928-0756.

HATHA YOGA FOR WOMEN - Relaxation, breath & body control through Yoga postures, sm classes, day or eve. 472-1397.

ORGAN LESSONS - Experienced teacher, theory incl, your home or mine. 924-3236.

FISHERMEN - Do you want your catch smoked? Gerd, 744-9411.

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

DRIVER AVAILABLE - To deliver car to Miami, Florida area. Nov. 16-17, 1973. 472-0552 after 6.

MUSIC LESSONS - Woodwinds, saxophone, clarinet, flute, trumpet, etc. Jazz (improvisation), theory, classical. Ronnie, 399-0078.

TYPING - Theses, term papers, etc. Susan, Ext. 3462, 928-6082 after 5.

TRUCKING - Light hauling & clean ups. \$10 a truck-load. 744-3807.

HIGH SCHOOL STUDENT - Will tutor your child in Math or Reading, grades 1-6. 475-4103 after 3.

SEWING MACHINE SERVICE - All makes, Singer our specialty, no charge for estimates. Ext. 3694.

PORCH SALE - Oct. 27 & 28, fireplace tools, home-made chess set, bass guitar, buffet table, bike, mattress & more. 95 Cherry Rd, Rocky Point.

Lost & Found

LOST - Sm female cat, orange w/white face & paws, in Apt. area. Roy, Ext. 4816, 3183.

Classified Ad Policy

Deadline is 12 noon Monday for publication Friday of the same week.

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

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

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

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 111, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

Employee's Signature Life No. Ext.
Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).