

BULLETIN BOARD

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May 25, 1967

West Point Cadets Get Drill in Nuclear Physics

5-763-67



Cadets from the Military Academy at West Point visited the Lab last Tuesday. Some of the cadets are shown leaving the bus to enter the Lecture Hall for an introductory talk by Dr. R.C. Anderson. All the cadets are 2nd classmen and students of advanced Atomic and Nuclear Physics courses. All are in the top 10% of their class. Major Robert LaFrenz, Assistant Professor in Physics, who led the group said the 50 men would return to West Point at 9 p.m. on Tuesday night.



Eileen Whitehead, Director's Office passes out film badge to one of the West Point Cadets.

Cooking Exchange Group Plans Gourmet Buffet

On Thursday, June 8, the BERA Cooking Exchange Club will have a buffet for members of the group and their guests.

A gourmet buffet consisting of dishes made by the members will be served starting at 7 p.m. at the Center. Mrs. Jack Chernick and Mrs. David Barge are co-chairmen of the affair assisted by Mrs. Clemens Auerbach and Mrs. Melvin Levine.

Dial 9 for Local Calls

Changes that went into effect two weeks ago are being overlooked by some telephone users. People are still trying to dial Ronkonkoma telephone numbers over the discontinued 79 trunks. Those numbers formerly reached by dialing 79 can now be reached by dialing 9 and then dialing the desired number.

Labor-Management Exhibit

Friday, May 26, will see the opening of the New York Union Industries 1967 Labor-Management Exhibit, at Roosevelt Raceway in Westbury.

The exhibit, which will run through Sunday, May 28, will be a free consumer's show featuring something for all the family.

BNL will have an exhibit at Booth 241. The show opens each day at 1 p.m., and closes at 10 p.m. Admission is free, but tickets available at the *Bulletin Board* office will entitle the holder to free parking and include a stub for prizes to be awarded daily.

J. Fischer Returns from Dubna

Joachim Fischer of the Instrumentation Division recently returned from the Soviet Union where he presented an invited paper entitled "Digitized Spark Chambers for High Energy Physics" at the International Conference on Electromagnetic Interactions in Dubna.

In a study and lecture tour after the Conference, Dr. Fischer visited laboratories at Dubna, Moscow, Serpukhov, Yerevan and Novosibirsk.

R.A. Johnson at Cornell

R.A. Johnson of the Solid State Group in the Physics Department has been invited to give a talk at the Materials Science and Engineering Colloquium to be held at Cornell University May 25, 1967. The title of his talk will be "Computer Calculations for Point Defects in Solids."

Cafeteria-Center Holiday Schedule

The Brookhaven Center will be closed Memorial Day. At the Cafeteria, the Snack Bar will be open from 9 a.m. until 5 p.m.

Payroll Patriots Get New Bond Plan

During the week of May 29, 1967, the Laboratory will participate in the Treasury Department's Annual Savings Bond Drive. This year's campaign will introduce the "Freedom Share" - a higher interest, short term note which can be purchased only in conjunction with the Series E Bond. This new payroll savings combination will enable you to earn an overall net return of 4.39% if you hold your E Bonds and notes to their full maturity.

The Series E Bond is, of course, a familiar savings medium. When held to its full term of seven years, it promises an interest rate of 4.15%. The Freedom Share is somewhat different in that it reaches maturity in 4½ years and yields an interest of 4.74%. Common to both of these securities is the special tax advantage which permits you to postpone federal income tax until they are actually redeemed. In addition, the bonds and notes are exempt from all state and local taxes.

Like the E Bonds, the shares are issued at face value in denominations of \$25, \$50, \$75 and \$100, and you can buy them in amounts approximating your regular Series E purchases. Freedom Shares must be held at least one year before redemption and carry no extension privilege beyond maturity. As mentioned earlier, they may be purchased only in combination with Series E Bonds on a one-for-one basis. The amount of shares purchased is limited to a monthly expenditure of \$81 and an annual face value limit of \$1,350.

The payroll savings plan, is of course, the easiest way to provide for systematic saving. For as little as \$1.30 for 30 paydays you can, for example, purchase a \$25 Series E and a \$25 Freedom Share. Other payroll allotments are readily available should you care to invest further. Whatever your selection, the Bond-Freedom Share combination is a safe investment at a price which helps purchase security for yourself and your nation.

To Start Plant Engineers Group

A number of engineers at BNL are trying to start a Suffolk County Chapter of the American Institute of Plant Engineers.

Sheldon Fuchs and Emory Egler of AGS, and Joe Rose of Plant Maintenance are are hoping that all those who are responsible for facilities engineering function will contact them to become charter members of the new unit.

The American Institute of Plant Engineers is a national organization dedicated to the advancement of the science of engineering and to further the professional interests of Plant, Facility and Maintenance engineers. Sheldon Fuchs is the president of the Metropolitan Chapter of the organization which is a member of the Engineers Joint Council.

The immediate objective of the group is to form a local chapter in Suffolk County. Upon the establishment of the chapter, the needs and interests of the members can be determined, and a constitution and by-laws can be written.

Lab News Sheet 20 Years Old

Twenty years ago this month Volume I, Number I of the ? was published at BNL. The un-named paper was reproduced on four legal sized Ozalid sheets bound with a staple at the upper left hand corner.

The lead story of the new publication was a letter from Philip M. Morse, Director, who said, "We have before us at Brookhaven the exciting job of building the world's greatest center for fundamental research in the atomic sciences. . . To get the job done well and quickly we must all pull together. . . This news sheet will help everyone to learn what is going on and why."

The center column on page 1 was devoted to a story explaining the question mark at the top of the page. A contest was announced offering a prize of \$10 for a name for the new publication. Entries were to be directed to the Acting Editor, Room 27, Building T-460. The winner of the contest, as announced in the next issue was James G. Moore of the Personnel Department, who submitted the name *Isotopics*.

The balance of the first page was filled with a letter from Eldon C. Shoup, Executive Vice President of AUI, and some notices of new arrivals at the Chemistry Department.

On page 2, an article about a proposal for a Post Office at BNL appeared, with the comment by James Knox, Business Manager, that he had flatly turned down a suggestion to name the new office "Upton Atom."

Autoists were reminded that Peter Paige, in Building T-185 would have a supply of application blanks for license plates and operator's licenses. Again on this page, Blue Cross Hospitalization was being offered by Employee Services, with Peter Paige listed as the telephone contact.

Page three of the new paper consisted of a letter from "Maisie," who complained that she was out with a scientist who told her "You know that you are full of atoms?" Maisie replied, quick as a flash, "Yeah? And you're full of soup."

Page 4 of this first Lab paper announced that ". . . outstanding athlete, Richard L. Vogt, who won seven letters in Baseball, Basketball and Football while attending Princeton," would become the Employees' Welfare and Recreational Supervisor.

John Binnington, the Librarian, wrote that "Almost a thousand books are on the shelves of the Library, and over 100 current periodicals were ordered last week."

The balance of page 4 was filled with jokes and anecdotes, and a social item about the large engagement ring just given to Grace Dege in the Administration Building.

Radio Astronomers To Observe BNL

Members of the staff of the National Radio Astronomy Observatory will arrive Wednesday night for a two day visit to BNL.

On Thursday the group will be briefed on the Brookhaven program by BNL staff members, and will tour the research facilities. Friday afternoon, June 2, at 1:30 p.m. there will be a special seminar in the Physics Seminar Room at which the NRAO staff will present some of the aspects of the observatory research program. All Brookhaven staff members are invited to attend this seminar.

Due to the Memorial Day holiday, the *Bulletin Board* will not be published next week except as a Classified Ad supplement. Regular publication will be resumed with the June 8 issue.

200-BeV Synchrotron Making Progress Behind the Scenes

Plans for a new National Laboratory based on a 200-BeV proton synchrotron have advanced to the point where a design study has been completed, a site has been chosen and, in mid-1967, a construction staff is being assembled.

The choice of Weston, Illinois seems to have been strongly influenced by the good accessibility of this site to transportation for visiting scientists, to the Argonne Laboratory, to a number of good universities, and to the Chicago industrial complex.

While the site selection was in progress the National Academy of Sciences undertook the organization of a university association to supervise the accelerator project. In this they were influenced by the success of Associated Universities in operating Brookhaven National Laboratory and the National Radio Astronomy Observatory. The new association was to be truly national; the first step in its organization was the convocation of the presidents of the twenty-five universities most active in high energy physics. This group, now expanded to more than forty universities, named itself the Universities Research Association and set up a board of trustees.

When the choice of the Weston site was announced the U.R.A. immediately began a search for a director for the new laboratory. In March of 1967 the choice was made public of Robert R. Wilson of Cornell for this position. At this time, staff for the new laboratory is in the very early stages of assembly. It is hoped that the staff will grow rapidly enough that a final proposal for construction can be made in time for inclusion in the budget for Fiscal 1969.

The Lawrence Radiation Laboratory design study, directed by E. J. Lofgren, culminated in a massive "200-BeV Accelerator Design Study" issued in June 1965. According to the LRL report, the accelerator proper is to be a ring 4530 ft. in diameter and having a circumference of about 2.7 miles. It is to be a conventional alternating-gradient synchrotron like the AGS at

Brookhaven except that twelve long straight sections with clear lengths of 112 ft. are to be included; this is accomplished by the method evolved at Brookhaven in 1961 by T. Collins of the Cambridge Electron Accelerator.

Protons will receive their first acceleration in a 750 kilovolt Cockcroft-Walton accelerator. They then are accelerated to 200 MeV by a linear accelerator. From the linear accelerator they are injected into an 8-BeV synchrotron having exactly one-seventh the radius of the 200-BeV ring. Seven pulses are injected into the main ring in one-third of a second so that the injected pulses fill the whole of the 200-BeV ring.

The total cost of the installation was estimated at LRL to be \$348 million. More recently the AEC has decided to divide the program into two phases, the first phase to include only part of the proposed experimental facilities and to involve initial operation at reduced average intensity. The cost of the first phase is estimated to be about \$240 million. The LRL group, with the concurrence of Robert Wilson, has recommended that, if possible, the machine should be designed in such a way that its energy can be increased at some future date. It is not yet clear what energy extension is appropriate and how much this would add to the total cost of the accelerator.

Since the Weston design group has not yet been assembled it cannot be stated whether or not the LRL design will be accepted *in toto* or in part. It is expected that the Weston study will commence in June of 1967.

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The above information was supplied by Dr. John P. Blewett of the AGS, who gathered the material for an article to appear in the 1968 McGraw-Hill Yearbook of Science and Technology. This annual, published by the staff of the McGraw-Hill encyclopedia, will be distributed in February of 1968.

Our Man in Ankara . . .

Ankara, May 15 - The Exhibit has now reached the half-way mark, and we have settled down into a fairly steady routine, but it is still a matter of putting in over twelve hours a day, as we stay open until 9:00 p.m. every day of the week. The Ankara University students we have trained for their various assignments are a very fine group, and this makes it a real pleasure to work with them. In fact, students at all levels are far more polite and respectful than their U.S. counterparts; this also holds true for the people in general. However tough looking they may be, and some of them could be mistaken for throat-slitting brigands, they are invariably courteous and most grateful for any help we can provide them in solving their technical problems.

One subject in which there is special interest is the preservation of food with gamma radiation. A great problem in Turkey is loss of stored grain to insects, and to combat this serious economic situation a large-scale, continuous grain irradiation plant has recently been installed at Iskenderun, on the south coast. The plant, which uses 200,000 curies of cobalt-60, was constructed by a British firm under a contract placed by the IAEA, acting on behalf of the United Nations Development Programme. Due to some lack of understanding of the basic principles of food irradiation, a left-wing group here is making much of a basic fear of radiation. A newspaper story has appeared telling of two workmen who fell ill while installing the irradiator; it is claimed that these two men have since mysteriously disappeared. This story goes on to imply that Uncle Sam is somehow involved in a dastardly scheme to test irradiated wheat on the Turkish people, to determine if it is safe for domestic consumption. This, in spite of the facts that (1) the U.S. has had no direct involvement in the Iskenderun irradiator, and (2) the FDA approved for human consumption wheat and wheat products irradiated by cobalt-60 in August, 1963. It has also been hinted by these same sources that the reason our Exhibit is here now at the invitation of the Turkish Government is to attempt to rectify the Iskenderun situation. The fact that arrangements for the Ankara Exhibit were settled over a year ago, while the irradiator did not arrive in Turkey until last January, is ignored.

From the above, you will deduce that I have had to answer many questions on the uses of radiation in food preservation. Fortunately, we are well stocked with authoritative literature on many aspects of this subject, which I hope is doing some good.

Aside from this, everything is going very well. We are averaging about 5000 visitors a day in the public area, while both the gamma facility and reactor have full schedules for experiments, and our technical information reference room is kept quite busy all the time. I have two Turkish girls assisting me, and a young man serving as projectionist for the technical film library. All three of these fine people speak fair English so my language difficulties are minimal.

Although three of our scientific staff have been afflicted by a distressing malady known locally as the Sultan's Revenge, I have been keeping in good shape. The Turkish food is excellent, but I find the traffic in Ankara as terrifying as anywhere else in the world. There are no traffic signals anywhere in town, so driving can be considered a kind of poker game on wheels, with the boldest driver gaining his way, but only at the expense of screeching brakes, blaring horns, curses, and shattered nerves. But even this is gradually becoming part of the day's routine.

—Dennis Puleston

Letters To The Editor

Letters should be less than 200 words, bear the writer's signature and life number, and indicate if the writer desires to have his name withheld from the published letter.

Dear Sir:

Regarding your letters to the editor column I have come to the conclusion that you are the BNL counterpart to the Suffolk Sun's Hotline Column.

My gripe is the morning delay on the William Floyd due to L.I. Expressway construction. Surely a work schedule can be arranged to prevent such unwarranted stoppages. The delay only occurs during our use of the parkway as the earthmovers are employed elsewhere when we were not using it en masse between 8 and 8:30.

Perhaps it was a communist plot, but I tend to go along with the theory that it merely was an example of a highway contractor's public be damned attitude. Since this project will take a year to complete a serious nuisance could develop which could be avoided by a Lab complaint.

Fearing retribution by the highwaymen I cannot sign this other than

Anonymous

Arrivals & Departures

Arrivals

Thomas J. Baratta.....Applied Math.
Otto G. Salyer.....Syst. & ADP

Departures

Stanley L. Clark.....Applied Math.
Martin Dain.....Accelerator
Robert L. Johnson.....Accelerator
Stephen K. Schutter.....Accelerator
David M. Weigand.....Physics
Joan Ann Weigand.....Nuc. Eng.

Hospitality News

A Hospitality Committee "Coffee" meeting will be held on Monday, May 29, from 10:30 until 12 noon. Please come and meet your friends from on and off site.

Location: Watch for the sign on Yale Road in the apartment area on Monday morning.

Cafeteria Menu

Week Ending June 2, 1967

Monday, May 29	
Breaded Pork Cutlet	.65
Baked Meat Loaf/Onion Gravy	.65
Baked Macaroni Au Gratin	.50
Sandwich Special: Meat Ball Hero	.65
Tuesday, May 30	
Snack Bar Only	
Wednesday, May 31	
Chicken Cacciatore	.65
Chinese Pepper Steak/Rice	.65
Western Omelette	.55
Sandwich Special: Minute Steak/Onions	.70
Thursday, June 1	
Veal Cutlet Parmigiano	.70
Chopped Steak/Fried Onions	.65
Spaghetti/Meat Sauce	.60
Sandwich Special: Hot Tongue	.75
Friday, June 2	
Fried Filet of Cod/Tarter Sauce	.65
Baked Haddock/Creole Sauce	.65
Cheese Blintzes/Sour Cream	.60
Baked Ham/Fruit Sauce	.65
Sandwich Special: Pepper & Egg on Bun	.55

Submarine Officers at Radiobiology Seminar



12 Navy medical officers on active duty at the New London Submarine Base came to BNL for a seminar on radiobiology last week. The officers, all scheduled for duty on nuclear submarines, attended courses taught by members of the BNL staff. Among those lecturing were, Capt. V.P. Bond, Associate Director; Capt. E. Cronkite, Chairman of the Medical Department; Capt. J. Robertson, and Rear Adm. R. Conard, of the Medical Department.

Photos by Humphrey



Around the Base Pads

by Bob Carciello

With a massive cloud hanging at field level last Monday the 15th, the Brookhaven league players were determined to make up the games previously rained out. Paced by four hits off the bat of Jim Roesler, one a homer, the Old Timers downed Metallurgy, 12-6. Neil Roberts connected for a four bagger for the Batmen as they handed the Blue Jays their second loss of the season, 13-7. Medical forfeited to the Six Packs, 7-0.

Fair skies prevailed on Tuesday when the Blue Jays notched their first win of the season with a 14-8 victory over Medical. The Six Packs took the league lead with the only undefeated record by defeating Metallurgy, 14-10. A lapse in defense allowed the Old Timers their only run for the evening as the Batmen triumphed, 5-1.

The Bubble Boys made it three in a row to take the league lead in the National league by edging the Make-Ups, 9-8. The Phoubars and Floorwalkers engaged in a seesaw battle until the Phoubars broke loose with a 7 run rally in the fifth. Both teams went scoreless the rest of the way; Phoubars on top, 16-9. Al Guthke homered for the Dirty Sox as they went on to crush the Deadwoods, 14-4.

The Potsareebies engaged in a slugfest with the Converts and moved into a three way tie for first in the Laboratory league after out scoring the Converts, 23-13. The Mets and Biology are the other two teams tied for first. The Mets bombed Applied Math, 24-6, and Biology nipped the Charlie Brown Stars, 16-11.

Fish Tales

by John Tagliavia



In case you're wondering about that outsize striper swiper being offered as a bi-monthly prize, it was made by a giant who fishes with a 16 ft. stick. Among his many angling accomplishments is included fishing said plug in the turbulent water of an outgoing tide at the end of the Moriches Jetty while hanging by one hand from the steelwork of the beacon. While we don't recommend this particular vantage point, the method has produced full stringers of bass and bluefish at the end of May and the early part of June.

At this time the big snowshoe flounder action has started to wane, and in their stead fluke, blackfish, seabass, weakfish and porgies will be moving to the inshore grounds. These are great eating as well as fighting fish, and incidently are of great value, point-wise, in the contest.

According to Car DiGesare, Jim Gallagher, and Bill Kiselyak, the bass are around in large quantities, but try to find one over 16 in. As John Bulla would say "We're catching them hand over fist, 24 to a cigar box." The only exception I've heard of taken by a BERA member, was Box Zoller's 4 pounder caught at Smith Point on bait.

That lunker spiced action I promised you is probably being retarded by the cooling effect exerted on bay and ocean by the excessive rains. John McCafferty has written an article for "Salt Water Sportsman" dealing with this interesting phenomena. If you missed that issue maybe John can get you a reprint. In any event a break in the weather would be most welcome, if for no other reason that to facilitate sitting between two "spiked" rods in a beach chair watching the birds.



Captains of winning teams in the BERA Volleyball and Basketball Leagues are shown receiving trophies from Bob Fuchs, BERA President. The captains are (Left to right) John Pontieri, Old Timers, 2nd place Basketball; Barry Arbeit, Applied Math, Basketball Champs; Steve Feldberg, Spikers, 2nd place Volleyball; and Jerry Levine, Volleyball Champs.

Tickets Available Personnel Services

Recreation Office - 3 Center Street Daily 9 a.m. to 1 p.m.

Discount Tickets: Tickets may be purchased at 20% discount. (No discount for Saturday night performances). Schedules and prices are posted in the Recreation Office.

Mineola Theatre: May 16-May 28, "The Killing of Sister George." May 30-June 18, Sam Levene in "The Impossible Years."

Westbury Music Fair: May 23-May 28, Arlene Dahl in "Bell, Book and Candle." May 30-June 4 Dick Shawn, Barbara Feldon, Sandy Baron in "LUV." June 6-June 11, Arthur Godfrey replaces Eddie Albert in "Generation."

Mail Order Coupons: Advance sale mail order coupons.

Yankee Stadium - Soccer - New York Skyliners May 28, June 13, 16, 27, July 2, 8.

Broadway Theatre: Now through May 25 Mimi Hines in "Funny Girl."

Eugene O'Neill Theatre: Now through June 1 "The Odd Couple."

Shubert Theatre: Now through May 31 "The Apple Tree."

Ticket Service: Box Seats on sale at Recreation Office for Mets 5/23, 26, 28, 6/13, 14, 18, 26, 28. Yanks 5/30, 31, 6/2, 5, 6, 7, 8, 9.

Sports Car Club to Start New Season

The Brookhaven Laboratory Auto, Sport and Touring Club, otherwise known as "BLAST" is ready to start another season of rallies and time trials. One needn't own a sports car to be a member, as the only requirement for membership is a keen interest in cars as more than a means of basic transportation or status.

All Laboratory employees, associates, guests and members of their families are welcome to join, and anyone interested should call one of the following: Stan Anderson, Ext. 2410; Arnold Esper, Ext. 2511, or Bill Barnes, Ext. 2393.

TIAA-CREF Changes Permitted This Month

Each May, participants in the AUI Retirement Plan are allowed to change the apportionment of their premiums applied to TIAA and CREF. Each change, which affects the retirement contributions made by AUI as well as those by the employee, must be requested prior to June 1, and will be effective July 1. Change forms are available at Personnel Services.

BERA Film Series

Thurs., June 1 - 8 p.m. Lecture Hall Woman in the Dunes

This bizarre tale of a man held captive by a woman at the bottom of a sandpit is a haunting allegory probing fundamental questions of existence and freedom. In the developing relationship between the man and the woman, sexual and psychological, the director has created a masterpiece of cinematic art.

Thurs., June 8 - 8 p.m. Lecture Hall My Uncle

Jacques Tati has written, directed, and stars in this delightful characterization of Monsieur Hulot, who represents, for all his ineffective bungling, the one element of sanity in this hilarious satire on contemporary addiction to mechanical gadgetry. His visit to the "modern" home of his brother-in-law is a classic of cinematic comedy.

Short: The Bird

A bird brings a man and a girl together; and the man, once he is finished with the girl, finishes off the bird. A pungent parable of the sex war. —Harvard Lyman

CQ... CQ... CQ...

This is the BNL Amateur Radio Club asking all employees of BNL whether licensed or not, who are interested in Amateur Radio to mail the following information to Ed Neilsen, Chemistry, 33 Herschel Pl.: Name, Call sign, Lab address and code ability.

A station is in the process of being assembled in the Radio Shack which is located in the Recreation Building. (Apartment Area) —...—

For those who are interested in becoming an amateur radio operator, code and theory classes can be arranged. —...—
Mni tks es untill the next time
Mv.vri best 73 Harold SK
5-784-67



Hospitality Committee

Has First All-Lab Tea

Over 300 women attended the first All Lab tea held at the Center this year. The ladies were entertained with a demonstration of oragami and, a display of dolls. Photos by Walton



5-779-67

5-782-67

Classified Advertisements

Autos & Auto Supplies

63 CORVETTE - Red, excel cond, 2 tops 4 speed. \$2200. C. LoRe, YA 4-3082.

UTILITY TRAILER - 2 wheel. \$20. F. Griswold, HR3-3792.

CHAMPION SPARK PLUGS (J-5) - Box of 10, brand new; \$5; 2 600-16 tubes, brand new, \$3 both. Ext. 7272.

61 RAMBLER STATION WAGON - Good cond. Asking \$250. Ext. 340.

63 FORD GALAXIE - 8,000 mi on '66 390 cu in engine, 4 speed, mag wheels, new brakes, bearings, mufflers, many extras, excel cond. \$1600. J. Halpin, 472-0455.

66 SAAB - New snows, deluxe radio, driving lamps, FWD safety & handling, excel 2nd car. Reasonable. Mel, Ext. 2888.

VOLKSWAGEN ACCESSORIES - Metal top luggage carrier, \$10; axle trailer hitch, \$5; Allstate metal 2 wheel trailer 49"x42"x10", \$40. \$50 takes the package. 941-4467.

6.50x15 TIRE TREAD - Still legal. M. Greene, Ext. 7779.

2 RIMS - New 14", for wide oval tires, fit GTO or Chevelle. \$8. W. Seibold, Ext. 2598.

62 FALCON 2 dr, std, white, r/h, 45,000 mi. \$330. D. Keating, Ext. 407.

64 VOLKSWAGEN SEDAN - Green, 40,000 mi, new tires & brakes. \$875. McCracken, Ext. 2138.

64 VOLKSWAGEN BUS - 10,000 mi on new engine. P. Ettari, Ext. 2407, 273-6436.

56 CHEVROLET BEACH BUGGY - Carry all, special beach wheels, new brakes & tires, fully equipped for camping, 37,000 orig mi. R. Papa, Ext. 2304.

63 CHEVROLET IMPALA - Sp Cpe, r/h, auto trans, ps, 48,000 mi, excel cond. \$1075. J. Dispartti, Ext. 2389, 281-8943.

62 CHEVROLET IMPALA - Lt green, V8, ps, auto trans, new brakes, w/w tires, windshield, rear wheel bearings, many other extras. \$850. Steve, Ext. 2177.

62 BUICK CONVERTIBLE - Power windows & seat, auto trans, ps/pb, clean. Ext. 429.

66 YAMAHA - 50 cc, auto trans, 750 mi, like new. \$175. D. Schweitzer, Ext. 622.

62 PONTIAC CATALINA - Auto trans, ps/pb/pw, 45,000 orig mi, excel cond. Ext. 539.

60 FALCON - 2 dr, std, 6 cyl, sedan, white/black, w/w tires, clean, dependable, 66,000 mi, many new parts. \$150. A. Enright, Ext. 7478, 588-7145.

57 FORD - 4 dr sedan, auto trans, runs very well. \$150. Ext. 7289, 281-3008.

62 CHEVY IMPALA - Ps/pb, r/h, antique gold, anniversary model. \$1000. Ext. 2588.

BATTERY - 12 volt Allstate 22, 45 amp hours, 54 plates, guarantee runs until Nov '69. \$10. H. Blum, Ext. 7602.

63 VOLKSWAGEN - 1500S squareback, extras. Ext. 2983.

Boats & Marine Supplies

14' JOHNSON OPEN BOAT - Steering wheel & controls, good cond. \$40. 878-0999 days.

17' "SEA SCAMP" - Built by Grusier's Inc, 40 hp Johnson, electric start, navy top, extras, good cond. Ernie, Ext. 2852, 727-2861.

15' WHIRLWIND - 40 hp Johnson electric, trailer, cover, cushions, many extras, like new. \$495. C. Barrett, Ext. 2220.

NEWSEBALL MARINE GAS FILTER - W/water separator. \$20. C. Barrett, Ext. 2220.

12V-60 AMP LEECE-NEVILLE ALTERNATOR - & regulator. \$30. C. Barrett, Ext. 2220.

JACK TAR 12' SAILBOAT - Good cond. \$250. N. Schinn, Ext. 2706, AT6-8772.

1960 10 HP JOHNSON OUTBOARD - Runs well, clean. \$100. G. Kiltbau, Ext. 2132.

23' CHRIS CRAFT CABIN CRUISER - 95 hp inboard, galley, 2 bunks, head, etc. Reasonable. AT6-1258 weekends, after 6 p.m. weekdays.

22' TROJAN INBOARD - Foam bunks, enclosed head, galley, many extras incl. Asking \$1200. Walt, Ext. 2457, AT6-0246.

16' AMESBURY LAPSTRAKE SEA SKIFF - 10 hp Johnson outboard motor. John, Ext. 2376.

23' CHRIS CRAFT EXPRESS CRUISER - Hard top, sleeps 2, inboard, galley, very good cond. \$850. SE2-4661.

17'6" CARTER SLOOP - '59, gaff-rig, varnished decks, new dacron sails, nylon rigging. B. Boley, Ext. 2582.

PROPELLER - Columbia, 12"x12", right hand, good cond. \$10. AT9-1748.

17' ZOBEL SKIFF - Lapstrake construction 60 hp Palmer Marine engine, excel cond, in water, ready to go. M. Greene, Ext. 7779.

3 HP Evinrude - Runs well. \$25. R. McCracken, Ext. 2138.

12' BOAT - Forward deck, good freeboard, will take small outboard, rows well, not a planing hull, must be seen. \$35. Jim, 878-2197.

15 HP EVINRUDE MOTOR - Runs well, just rebuilt. \$70. Jim, 878-2197.

19 1/2' PENBO - Cabin sleeps 2, head, navy top, 50 hp Johnson elec, painted, ready to go. Best offer. D. Kazmark, Ext. 2459, AT9-0265.

18' SHELTER CABIN OUTBOARD - Hull fiberglassed. 40 hp Evinrude, remote controls. \$350. G. Starke, Ext. 7756, HR3-9139.

30' CABIN CRUISER - Hehre & Auer, 115 hp Chrysler marine, sleeps 5, shower, galley, must sell. \$995. Dick, Ext. 7111, JUS-3719.

Miscellaneous

PING PONG TABLE & EQUIPMENT - \$12; girl's 24" bicycle, \$8; dog house, \$8. C. Richardson, Ext. 7793.

WEATHERPROOF TENT FOR 2 - 6x6x3 1/2, w/screens, side vents, storm flaps. \$10. Ext. 2888.

UMBERELLA & TABLE - W/aluminum legs & stand that holds sand, umbrella turquoise w/floral pattern underneath. \$25 firm. Ext. 2268, GR5-7326 after 5 p.m.

STEINWAY UPRIGHT PROFESSIONAL PIANO - Specially good sounding board, excel instrument. \$500 firm. Phillips, 286-2208.

2 POWER AMPLIFIERS - Dyna Mk II, 50 watts each, excel cond. \$75 or \$40 each. Ken, Ext. 7733.

SOUND SCRIBER - Record recording & play back system, good cond. Cost \$150, will sell for best offer. Ext. 7421, 744-5969.

WATER PUMPS - Piston, no motor, \$6; marine bronze gear pump, \$8. Ext. 353, AT6-0436.

FREEZER - United, 500 lb upright. Cost over \$800, \$200 firm, excel cond. 929-4472.

CAPACITIVE DISCHARGE IGNITION SYSTEM - Mark Ten, 12 volt, neg ground. Orig \$39.95, \$20 firm. R. Carciello, Ext. 7769.

SIAMESE KITTENS - Cute & frisky, 7 wks old, 2 blue, 2 seal, champion sired, registered litter. Ext. 2933, 751-1473.

SWEATER - Man's size 40, hand made, bulk knit, zipper front, beige & brown wild duck pattern. 286-1218.

WHITE CHINA W/GOLD TRIM - 37 pc set, never unpacked. Retail cost \$29, will sell for \$14. A. Muscarella, Ext. 7677, 924-8225.

28" JARI POWER SICKLE BAR GRASS CUTTER - \$50. 941-4467.

CRIB & CHIFFOROBIE - Excel cond, stroller, high chair, tricycle. HR3-9527.

GIRL'S 26" BIKE - Old, heavy, good cond. \$4. J. Frizzola, Ext. 458, HR3-3547.

LABADOR RETRIEVER PUPS - Purebred, 2 females still avail. A. Beckwith, Ext. 2349.

WINDOW SCREENS - Dural tension type, 36"x38", 32"x50", 36"x50", easy to install, hardware incl. \$2 each. J. Frizzola, Ext. 458, HR3-3547.

BEDROOM SET - Solid oak, dresser, chest on chest, bed, nite table, mirror, excel cond. J. Frizzola, Ext. 458, HR3-3547.

K OF C JEWELRY - Ring, lapel pin, cuff links, tie clasp. \$90 value, \$30 takes all. C. Brunone, 281-9411.

CHARCOAL COOKER - Just in time for patio parties! Brass mongolian charcoal cooker, authentic, different, 1 gal cap. \$20. 724-3035.

2 TRICYCLES - Each well made, excel cond, 14" wheel, ball bearings rear wheels. \$8 each or both for \$15. 724-3035.

GENERAL COVERAGE RECEIVER - Hammerlund HQ 140XA, excel cond. \$100. W. Hayes, Ext. 426.

JIG-SAW CRAFTSMAN - 18", 12x12" table tilts 45°, w/motor, \$25; utility trailer, 4'x6', heavy duty, \$20. Charlie, Ext. 7642.

ELECTRIC RANGE - Frigidaire, yellow, 30" oven, 12 yrs old. \$5. AT6-8713.

BRIGGS L.H. BLUE 5' BATH TUB - New, out of crate. \$25 or best offer. Ext. 638.

CRIB, MATTRESS, CHEST OF DRAWERS - Very good cond. J. Sadofsky, Ext. 2709.

ANDERSON FLEXIVENT WINDOW - 3 panes, w/storms & screens, approx 2'x10'. Best offer. AT6-1219.

WASHING MACHINE - RCA Whirlpool, auto, 3 cycle, 3 1/2 mos old, excel cond. \$150. P. Vincent, Ext. 7420, 929-4895.

MAHOGANY CRIB - Used by one child. Cost \$100, sell \$20. McCracken, Ext. 2138.

SX99 RECEIVER - 540KC-34MC, \$70; Gonset super six converter, 1430IF wired 12V. \$15. Ext. 638.

WASHER & GAS DRYER - Excel cond; walnut tables; ceramic lamps; atlas baby carriage; wheel barrow; wall cabinets; must sell. AN5-3578.

COMPLETE DRUM SET - Bass, tom-tom, snare, 18" Zildjian sizzle symbol, excel. Cost \$300, sell \$140. Lloyd, GR5-1271.

FLOWERED WROUGHT IRON SET - White, heavy glass top, table seats 8-10, 6 chairs, cushions, white buffet china closet. \$50. Lloyd, GR5-1271.

PLAID STAMPS - \$2 each bk. Windy, Ext. 2218.

21" EMERSON TV - Table model. \$30. I. Lewis, Ext. 2936.

CRIB & FOLDING CARRIAGE/CAR BED - Reasonable. K. Fuchel, Ext. 2446.

21" MOTOROLA TV SET - Very good cond, portable, leatherette finished. Ext. 423.

ELECTRIC GUITAR - Single pickup w/amplifier, good cond. \$60. G. Woodson, Ext. 2580.

SHRUBBERY - Rhododendrons, assorted yews, junipers, Mugho pine. Brownie, Ext. 2380.

19" GE PORTABLE TV - Guar ending Sept 30, 1967. Ext. 539.

SPINNING OUTFIT - 7' rod, HI, fast taper, Roddy reel, loaded w/8 lb mono, both new last fall. \$17. Jim, 878-2197.

SPINNING ROD - 7' jetty rod, HI, medium-heavy action, fast taper. \$8. Jim, 878-2197.

SPIN-CASTING OUTFIT - 5 1/2' rod, light action, fast taper, True Temper flipline reel, loaded w/8 lb mono. \$8. Jim, 878-2197.

FLOOR STAND GRINDER - 1/4 hp motor, 1" arbor, 7" grinding wheels. \$20. Ext. 597, AT6-0436.

FISH TANK - 1'x1'x2', 10 gal, light, pump, subsand filter, fish, food. Best offer. Ext. 597.

Houses

YAPHANK - 7 rm ranch, garage, basement, 1/2 acre landscaped, fenced, extras. \$17,950. YA4-3062.

PORT JEFFERSON STATION - 3 bedrm ranch, 1 1/2 baths, garage, clean & neat, avail July 1. C. Zuroff, HR3-7292.

MILLER PLACE - 5 bedrm Cape, 2 baths, fireplace, dishwasher, bicycle to beach. \$21,000. C. Zuroff, HR3-7292.

LAKE RONKONKOMA - '66 ranch house, 2 car garage, fenced property, finished basement, 2 baths, landscaped, enclosed patio, many extras. JU8-0629.

PORT JEFFERSON - Harbor Hills, 3 bedrm Colonial, 2 1/2 baths, 1/2 acre, beach rights. \$27,000. HR3-8051.

STONY BROOK - 1 1/2 yr old, 2 story, 4 bedrms, 2 1/2 baths, eat-in-kitchen, panelled den w/fireplace, study, walk to station, University & village. 751-2243.

MASTIC - 3 bedrm ranch, liv rm, din rm, lg modern kitchen, 2 full baths, basement, open patio, 2 car att garage, on fenced 1/2 acre. \$19,500. Tony, Ext. 2465.

BELLPORT VILLAGE - Spacious custom Cape on choice 3/4 acre, 4 bedrms, 3 baths, family rm, fireplace, full basement, garage. B. Mozer, AT6-0099.

YAPHANK - 2 story colonial, 5 rms, 1 1/2 baths, full basement, upstairs unfurnished, 1/2 acre landscaped lot, extras. YA4-6880.

SMITHTOWN - Hi-ranch, 3 bedrms, liv rm, din rm, panelled kitchen, s/s, double garage, basement, fenced, appliances. \$19,990. AN5-6483.

For Rent

3 RM FURNISHED APT - 1 bedrm, new corner house, private entrance, near water, very pleasant, all util incl. Ext. 648, SH4-9495.

3 BEDRM HOUSE - Miller Place, private beach, screened porch, liv rm, kitchen, 2 baths, garage, July 29 thru Aug. 26. Ext. 2326.

3 BEDRM RANCH HOUSE - Shoreham, 1 1/2 baths, fenced yard, garage, oil heat. M. Elzinga, 744-5870.

2-3 BEDRM HOUSE - Secluded, double garage, in woods South of Yaphank, 9 mi to Lab, avail July. \$110/mo. L. Slater, Ext. 680, 924-6493.

4 BEDRM COTTAGE - On island, Casco Bay, Maine, gas stove, refrigerator & lights, running water, boat (supply outboard). \$60/wk. Ext. 2218.

HAVE TENT-WILL RENT - 10x12 outside frame, high wall. 273-6436.

SUMMER RENTAL - Miller Place, avail June 1. AI, Ext. 482.

3 BEDRM HOUSE - Patchogue Village, comfortable, unfurnished, den, din rm, garage, new Maytag washer, avail Aug 1, lease required. Ext. 7387.

Wanted

STUDENTS FOR ORGAN LESSONS - Hammond organ, beginners (young people preferred), at my home, openings for Mon, Thurs, Sat. W. Betz, YA4-3236.

TO RENT - Sm trailer or camper truck for 4 adults & baby, last 2 wks in July. S. Rakowsky, Ext. 7463.

POSITION FOR WOMAN - To care for children in my home weekdays, experienced. 281-3594 after 4 p.m.

VACUUM CLEANER - In good working order. P. Vincent, Ext. 7420, 929-4895.

PET BOARDING - Anaconda to Zebu. Reservations. Ron Breuning AAS, BSA. 924-8681 days.

BABY SITTING - In my home, any age, day or week, Ridge, Diane, 924-8681.

TYPING - Experienced, fast & accurate. New IBM electric. Thesis & term papers preferred. 924-8681.

SMALL BOAT TRAILER - For 12' boat, 200 lbs min cap. V. Manzella, Ext. 2287.

POSITION FOR CAPABLE WOMON - To care for children in her home. 286-8845.

USED VACUUM CLEANER - Good cond. Ext. 7387.

Carpools

DRIVERS - Carpool from Holbrook & Lake Ronkonkoma at end of Expressway. D. Leahy, Ext. 2200.

ADDITIONAL DRIVER NEEDED - For carpool in Smithtown-Hauppauge area. S. McRickard, Ext. 2165.

Lost & Found

LOST - Italian Punto Oro pipe, about May 9, in or near Medical. John, Ext. 2924.

Classified Ad Policy:

- The Bulletin Board'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.
- Persons listing houses, apartments, or rooms for sale or rent, do so with the understanding that these must be available without regard to race, creed, color, or national origin.
- Ads associated with a full- or part-time business cannot be accepted.
- Ads should be restricted to 20 words or less and typed or

printed on the form provided. (Additional copies of the form are available at the Bulletin Board office.) Twelve noon on Friday is the deadline for inclusion in the following week's issue.

6. Ads are run on a space-available basis; those not carried because of space restrictions will be held for inclusion in the next issue.

7. Ads are run only once and must be resubmitted if they are to be repeated.

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

(Name & Phone No. To Call)

If this ad concerns housing for sale or rent, such housing is available without regard to race, creed, color, or national origin.

Employee's Signature _____ Life No. _____ Ext. _____

Send to: BULLETIN BOARD, 40 Brookhaven Avenue