

BULLETIN BOARD

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January 11, 1968

Lab Director Invents Bubble Chamber of Neon-Hydrogen Mix

Dr. Maurice Goldhaber, Director of Brookhaven National Laboratory has been named as inventor on a patent issued for a bubble chamber utilizing a neon-hydrogen mixture for the detection and tracking of ionized particles.

Dr. Goldhaber's invention is described as a variable radiation-length bubble chamber because the density of the fluid can be varied by the addition of neon to liquid hydrogen. They will increase the stopping power of the liquid in the chamber and consequently allow interactions of particles at higher energies to be observed.

The practical application of this invention is to increase the effectiveness of the chamber without having to increase its size. By varying the ratio of neon to hydrogen the chamber can accommodate many types of experiments, and, by filling it with pure neon, can be used to track neutrinos.

The patent for Dr. Goldhaber's invention was issued to the AEC for the United States of America. As is customary at the Lab, a \$50 honorarium was given to Dr. Goldhaber at the time that the patent was applied for in December of 1965. The two-year time lapse between application and granting of this patent was short because of the small number of patent applications in this field.

The first bubble chamber was invented in 1952 by Donald Glaser, who was awarded a Nobel Prize in physics in 1960 as a result of his discovery. Brookhaven is now using Dr. Goldhaber's invention in both the 80" and the 30" bubble chamber. It is expected that it will also be used in the proposed new 14-foot chamber.

AIP Announces \$1500 Science Writing Prize

A new award for science writing in physics and astronomy has been established by the American Institute of Physics and the US Steel Foundation.

The \$1500 prize will be awarded for "noteworthy writing, broadcasting, or televising about physics and astronomy in the media of mass communications." The material must have been used during calendar 1967, and will be judged on skill and originality in describing material identified with physics or astronomy. Material printed in scientific, technical and trade publications, as well as books is excluded.

Expectant Mothers Note

A new series of classes for expectant mothers will begin on Friday, January 12, 1968, to be held weekly from 1-3 p.m. at Saint Charles Hospital, Port Jefferson.

The six weekly sessions will feature discussions, demonstrations, and films on preparation for childbirth and care of the newborn.

The classes will be conducted by Mrs. Virginia Madonna, Public Health Nurse of the County Department of Health. Expectant mothers who wish to attend may call the Health Department, 732-0400 or Mrs. Winkler, Obstetric Supervisor, St. Charles Hospital, 732-2800.

Bubble Chamber Patent Issued To AEC



Inventor Maurice Goldhaber, Director of BNL, (seated left) and D.M. Schaeffer, head of the BNL Patent Office examine original patent granted for Dr. Goldhaber's invention of a new type of bubble chamber. Standing in back of them are Leonard Belkin, AEC Patent Attorney and Harmon S. Potter, Head of the AEC Patent Group at Brookhaven. Photo by Rosen

Technician Scholarships Again Offered Brookhaven Employees For 1968 by AEC

Brookhaven and six other multi-program AEC laboratories have once again been asked to make nominations for the Technician Scholarship Program for the academic year 1968-69. The purpose of this program is to provide selected technical personnel an opportunity to complete their bachelor's degree requirements as full-time students in a field of interest to the AEC. The program is sponsored by the Department of Nuclear Education and Training of the AEC.

The 1966 winners, Richard Isler and George Meinken expect to graduate in June of 1968. Isler is an applied mathematics major at the University of Illinois, and Meinken is a chemistry major at Rensselaer Polytechnic Institute.

Of the 1967 winners, Norwood Greenlaw is attending C.W. Post and expects to complete his engineering-physics degree requirements in June of 1968. Dean Easler, the other 1967 winner, is finishing his first semester as an engineering major at the University of Illinois.

All four of the previous winners are on a full-time salary basis at BNL and are receiving all BNL fringe benefits for themselves and their families, as well as having all college tuition and fees paid. It has been estimated that the Technician Scholarship as awarded by the AEC can be worth as much as \$20,000 to each recipient.

Candidates for selection in this program must meet the following criteria: He must

be a U.S. citizen, and a full-time employee of BNL for two or more years by September of 1968. Candidates should have graduated from a two-year program (junior college or technical institute) or have completed the sophomore year of a four-year bachelor degree program and be able to complete the four-year program in two calendar years or less. Preference will be given to candidates actively pursuing a bachelor's degree. The candidate should have a cumulative college grade point average of "B" or better.

The candidate's Division or Department Head's recommendation will be obtained by the BNL Scholarship Selection Committee. He must be able to enroll in a college program beginning the fall term, September, 1968, and must express his intention to return to employment with Brookhaven upon completion of his bachelor's degree.

Employees who wish to be considered will be asked to complete a formal application available at the Personnel Office and return it to that office no later than February 1, 1968. The BNL Scholarship Selection Committee will review all applications and request recommendations for selected candidates. These candidates will be presented to the AEC Headquarters Selection Panel early in March for the final decision.

Questions concerning this program may be directed to Peter Paige on Ext. 7248.

BNL's General Store Will Relocate In Warehouse Zone

On next Monday, January 15, T-100 will cease operation as a central stockroom when all of its stores have been transferred to a new location in the warehouse area.

Since BNL was activated in 1947, T-100 has been in continuous use as a central issuing point for the myriad articles that are necessary for the proper functioning of a large research laboratory. "O" rings and cotter pins, tools and shoes, laboratory glassware and safety glasses have all been issued from this gigantic store of more than 10,000 separate items.

In October of 1967 remodeling was completed at Warehouse 90 on Railroad Street, and stores items from T-100 were moved in a few at a time. Service was maintained without interruption all through the move, and all the items of issue have been transferred to the new location in preparation for next Monday's opening.

The new stockroom in Building 90 will handle electronics, nuts and bolts, tools, photographic supplies and other technical items. At the entrance will be a "Free Room" of common use items similar to the one that was formerly operated in T-100. To the south of Building 90, another warehouse, Building 91, will be the stockroom for all maintenance supplies. Building hardware, plumbing supplies, copper fittings, "O" rings and safety category items will be issued here.

The new stock rooms are located to make "one stop" shopping possible. Within a 200-foot radius almost any commodity can be procured, and parking will be no problem. Building 90 is located next to the Receiving Section, which will allow bulk shipments of stock items to be unloaded at the stockroom.

New shelving and better lighting are featured in the new stockrooms which ordinarily handle an inventory valued at about one million dollars. A storekeeper and nine storeclerks will issue an average of 500 items each day, ranging from a ten-cent mousetrap to a \$500 electronic tube.

In the common use room 3,500 items of fasteners and electronics will be available on a self-service basis. As in the past, bulk orders will be delivered whenever necessary. Building 91, for maintenance supplies can be reached on the telephone extensions formerly used by T-100. Building 90 will have new numbers, Extension 7382 and 7383.

Kenneth Rockwell, supervisor of the stores operation predicts that orders will be filled faster in the new location because of the more efficient arrangement of the shelves and bins. Mike Guacci, the Inventory Control Officer of S & M, will continue to maintain his office in T-100 for the present. The catalog section, the Property Management Section and the office functions of Supply and Materiel will also remain in the T-100 building for the present.

Ultimately, T-100 will be moved to the warehouse zone, and after placing the building on a concrete slab, it will be used as a storage warehouse. (See page 2 for pictures of the old and new stockrooms.)

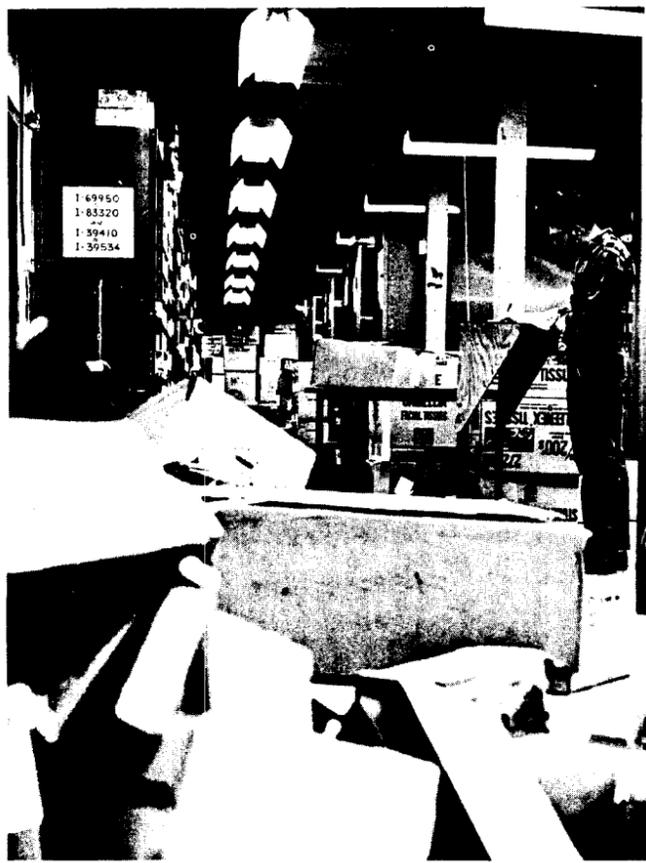
Sale of Motor Vehicles

Twenty-eight (28) motor vehicles, located at Building T-87, in the warehouse area on Railroad Street, will be available for Public Sale.

Inspection will be permitted from January 18 through January 24, except Saturday and Sunday. Bid opening will be held on January 26th, 1968.

The sale will be conducted by General Services Administration. For further details, call Extensions 2509 or 2704.

T-100 Moved To Warehouse Zone



Stockroom area of T-100 (upper left) is littered as material is moved out. New shelves and lights make stockroom in Building 90 (upper right) easier to operate. At right, Stockman Bruce McCloud checks issue with a customer. At right below, a stockclerk checks items in new shelves. Below left, a view of the Building 90 stockroom looking towards the common use items. Left, "Free Room" bins in old T-100 being disassembled for the move to Building 90.

Photos by Rosen



BULLETIN BOARD

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NORBERT J. DERNBACH
Public Relations Officer

Letters To The Editor

Dear Sir:

I am grateful to have this opportunity to thank my many friends at the Lab who in the past months have extended their heart-warming thoughts and gifts to my family and me. I would like to thank you all for the many cards and prayers that helped carry my wife and me through these difficult and unknowing times.

Over the past five years I did not realize all the friends I have made at the Lab. One never realizes the friendships one builds during a short period of time.

Your actions have brought home to me, especially now during this time of the year, the true meaning of Christmas. Your thoughtfulness has made it possible for me to give my family a Christmas that was meaningful. When you saw your families on Christmas morning and now can remember their feelings, I want you to know that you also created the same warm feelings for me and my family.

Best wishes to you all for the New Year and the coming years from me and my family.

Your very thankful friend,
 Bob Schaefer

Sejerslev 5/12 - 67

Dear Sir:

My name is Bent Plum. I am very interested in Minerals and rocks, I have a little collection. Here in Denmark we not have minerals, so I will ask you about you has some pieces I can buy. I will be very glad if you can help me. A very good Christmas to you.

Yours very truly,
 Bent Plum
 Sejerslev, 7900 Nykobing Mors
 Denmark

Editor's note: The Bulletin Board will be glad to pass on to Mr. Plum any information readers may supply.

Arrivals & Departures

Arrivals

- Ashoka Chandra..... Physics
- John T. Donohue..... Physics
- Karl P. Duerre..... Applied Math.
- Margaret C. Frantz..... Applied Math.
- Yolanta E. Skrzywan..... Medical

Departures

- Roger Baldwin..... Applied Math.
- Robert B. Bell..... Physics
- Regina M. Evans..... Nuclear Eng.
- Patricia A. Fogarty..... Physics
- Michael Fonte..... Accelerator
- John P. Passarella..... Nuclear Eng.
- Arlene Ulrich..... Biology
- Marlene C. Walker..... Nuclear Eng.

Safety Manual

A revision of the BNL Safety Manual was recently distributed. All present holders of the Manual should have received a copy. If there are any holders of the Manual who did not receive the revision, please contact the Safety Services Office, Extension 591.

Radio Club Reminder

To all members of the BNL Amateur Radio Club. Thursday, January 11, 1968 is the meeting night at the Recreation Hall at 2000 hours.

On the meeting agenda is the nomination and election of officers for the coming year. Dues are also due and payable for the year of 1968.

It is our hope that everyone concerned will attend to cast his or her vote.

- 73
- Warner Hayes K2UYR Pres.
- William Tooker WA2KSB Sec.
- Edward Nielsen WB26TR Treas.

For Your Listening Pleasure

Laboratory employees are urged to listen for closing notices before starting to work on snowy days. Information on emergency closings due to inclement weather will be carried by the following radio stations:

	AM	FM
WRIV Riverhead	1390	-
WHRF Riverhead	1570	103.9
WPAC Patchogue	1580	106.1
WALK Patchogue	1370	97.5
WLNG Sag Harbor	1600	-
WGSM Huntington	740	94.3
WBAB Babylon	1440	102.3
WHLI Hempstead	1100	98.3
WLIX Islip	540	- *

*Please note addition of new station.

Exercise Class

Deadline Nears

There have been requests to have an Exercise Class for the wives of BNL employees. If there is enough interest in such a project, it is planned to have 8 one-hour classes to be taught by Mrs. Edward der Mateosian. Classes would be held on Thursdays from 10 to 11 a.m. in the gymnasium, the first class to be held on January 18. A fee of \$10 would be charged, payable at the first session.

Interested wives please call Mrs. Adelaide Flatau (744-9436) or Mrs. Roberta Zucker (281-6504). Please specify if babysitting services will be needed.

Here and There

Dolores del Castillo

William Yuille, Windscale, England, will be a guest of the Nuclear Engineering Department for a month. Having spent 18 months at Oak Ridge working on water reactor safety procedures, he is working here with the safety study group before returning to England.

James R. Sanford (Accelerator) has been elected Chairman of the Users Executive Committee for the National Accelerator Laboratory.

Walter Hamilton (Chemistry) has been elected Vice President of the American Crystallographic Association.

Jacob Bigeleisen (Chemistry) has been elected a Member-at-large of the Council of the Gordon Research Conferences for a three-year term beginning January 1, 1968.

Maurizio Camillo de Bortoli from Euratom will visit the Laboratory on January 16 to discuss environmental health physics controls.

On January 16-17, a **Neutron Cross Section Evaluation Meeting** will be held at BNL. It is anticipated that approximately 50 scientists from the United States will attend.

Andrew Wolke (NED) is presently in the Smithtown General Hospital, but is expected to go home shortly where he will rest up after his recent illness for several weeks before returning to work.

John Pontieri (NED) is making a good recovery after his recent illness, and is expected to return to work in 3 or 4 weeks.

The **New York Society of Professional Engineers** will hold an evening meeting at BNL on January 18, and will also tour some of the facilities.

Harold W. Siegelman (Biology) has been elected Secretary of the American Society of Plant Physiologists.

Benno P. Schoenborn (Biology) has recently returned from Cambridge University in England. He was comparing his data on electron density projection from a crystal with an established structure standard available only at Cambridge University.

At the meeting of the AAAS held in New York City, December 26-30, 1967, the Chemistry Department was represented by **David L. Mulcahy** who attended the meeting, and **Myron C. Ledbetter** who presented a paper entitled "Microsporogenesis in Saintpaulia." **G.M. Woodwell** who presented a paper entitled "Productivity and cycling of nutrients in the Brookhaven oak-pine forest," and **R.H. Whitaker** presented a paper entitled "Primary production in terrestrial ecosystems" (Woodwell senior author).

At this same meeting **Dr. Robert Conard** (Medical) gave a report on the Marshall's studies.

Friends of **David L. Falkoff**, former member of the Physics Department, will be sorry to learn of his death on Thursday, December 14, 1967.

Janvier Rallye

The Brookhaven Lab Auto Sport & Touring (BLAST) will sponsor the first "fun" rally of the year on Sunday, January 14. Everyone is welcome. Cars will gather at the Oakdale Lanes/Movie parking lot, Montauk Highway, Oakdale. Registration will start at 1 p.m. and the first car will be off at 2 p.m.

Registration fee for members is \$3; for non-members, \$4. Trophies will be awarded at the finish.

Former BNL Scientist Appointed At Weston

The appointment of M. Stanley Livingston as Associate Director of the National Accelerator Laboratory was announced by Robert R. Wilson, Director of the Laboratory.

Livingston, formerly of BNL, was associated with the late Ernest O. Lawrence in the original development of the cyclotron. He recently joined the staff being assembled to design, construct, and operate the 200 BeV synchrotron to be built for the AEC at Weston, Illinois.

Livingston began his formal career in physics in 1931 after receiving his doctorate at the University of California (Berkeley). From 1931 to 1934, Livingston was associated with Professor Lawrence in the design and development of the first cyclotron.

From 1934 to 1938, Livingston was an assistant professor of physics at Cornell University, Ithaca, New York. He was associated there with Professor Hans Bethe in the first comprehensive survey of experimental nuclear physics. Bethe was announced as the 1967 Nobel Laureate in Physics.

In 1938, Livingston joined the faculty of Massachusetts Institute of Technology at Cambridge, Massachusetts. From 1944 to 1946, he was assigned to the Operations Research Group in the Department of Navy.

After the war, Livingston returned to MIT and in 1947 joined the staff of BNL to serve as chairman of the accelerator project. At BNL, he was concerned with the design of the 3 billion electron volt Cosmotron and other accelerators. In 1948 he left BNL to return to MIT where, in 1952, he was the co-author of the discovery paper, published in *The Physical Review*, on alternating gradient magnetic focusing principles for high energy particle accelerators.

Livingston, born at Broadhead, Wisconsin, May 25, 1905, is a member of Sigma Xi and the American Physical Society. He resides with his wife, the former Lois Robinson, in Lisle, a suburb of Chicago.

The National Accelerator Laboratory is to be financed through the U.S. Atomic Energy Commission and operated by the Universities Research Association, a consortium of 46 universities. Norman F. Ramsey, Professor of Physics at Harvard University, is President of URA.

BERA Film Series

Thurs., Jan. 18 - 8:00 p.m. - Lecture Hall

Young Aphrodites

This exciting and dramatic film from Greece, directed by Nikos Koundouros, is based on the legend of Daphnis and Chloe. The theme centers around two adolescents who experience a sensual awakening. Controversy has surrounded the film because of the frank portrayal of the relationship between the youngsters, but the acting, beautiful photography, and evocative musical score make this a dramatic love poem, wonderfully exotic and beautiful to watch.

Short: The Astronauts.

An avant-garde Gallic spoof of outer space bric-a-brac and all the jargon and sounds of the space age. Using a bizarre combination of collage color and assorted sounds this is an outrageous dig at the Cape Kennedy capers.

—Harvard Lyman

Movie Tonight: Zulu

Heredity, Genes, DNA 71st Lecture Subject

"Tampering with Heredity: The genetic transformation of bacteria by DNA," will be the title of the 71st Brookhaven Lecture to be presented on January 17 by Sanford Lacks of the Biology Department.

The nature of every living thing is determined by its genes. Differences in the genes of different individuals, for example, give rise to the variations in form and color with which we are familiar. More fundamental, however, is the understanding that genes serve as blueprints for the intricate chemical machinery that makes life possible, and that they function in a similar way in organisms as diverse as men and bacteria.

With certain bacteria it is possible to extract genes from one bacterium and introduce them into a genetically different bacterium so as to alter its inherited nature. Such genetic transformation offers intriguing possibilities for the introduction of desirable traits into human beings, but at present the process in bacteria is insufficiently understood for such applications even to be considered.

Genes, themselves, are composed of a complex chemical substance - DNA. The elucidation of the structure of DNA has been one of the fine achievements of molecular biology. Pertinent aspects of DNA structure will be discussed by Dr. Lacks. He will also describe experiments on the fate of DNA within the bacteria that it transforms. These experiments seek to clarify how a gene, as DNA, enters a cell, and how its genetic information is transferred to the chromosome of the cell that receives it.

Dr. Lacks was born in New York City in 1934. He received his BS degree in 1955 from Union College in Schenectady. While a graduate student at Rockefeller Institute, he was awarded a doctoral degree in 1960.

After a year in Harvard as Instructor in the Biology Department, Lacks came to BNL as Assistant Geneticist, with research interests in the fields of genetics and biochemistry. Dr. Lacks, his wife, and their two children live in Brookhaven.

Dr. Lacks will give his lecture on Wednesday, January 17, at 8 p.m. in the Lecture Hall. A buffet supper will be served at the Brookhaven Center before the lecture from 6 to 8 p.m. Refreshments will be available in the Exhibit Hall after the lecture.

Heavy Equipment Party



Angelo Didio, Foreman of Heavy Equipment, and Ted Robinson, a retired Heavy Equipment Operator, enjoying the Automotive and Heavy Equipment Christmas Party held on the 22nd of December.

Ghiglia To Perform

The fourth concert of the 1967-68 Concert Series will be held on Thursday, January 25 at the Brookhaven Center. The performing artist will be the Italian guitarist, former student of and assistant to Segovia, Oscar Ghiglia.

Winner in 1963 of the Santiago de Compostela Festival in Spain and the International Guitar Competition in Paris, Ghiglia is said to handle the guitar as though he were born with the instrument in his hands.

His performance of "The Etude No. 1" by the Brazilian Villa-Lobos is said to be particularly lovely, and his rendition of "The Tarantella" by Castelnuovo-Tedesco is touched with fire. Both of these selections are on the program for the evening of January 25. "Prelude, Fuge and Allegro in D Major" by Bach, "La Maja de Goya" by Granados and Ohana's "Tiento Antiguo" are among other selections that Ghiglia has chosen to perform.

The concert will begin at 8:30 p.m., and refreshments will be served at the Center following the concert.

AGS Service Awards Presented . . . 12-508-67



Twenty year pins were awarded to the following members of the Accelerator Department by Dr. G.K. Green, Chairman. The ceremonies were followed by a short celebration at AGS. Seated left to right: F.O. Pallas, Design Engineer; W.H. Moore, Physicist; H. Maloney, Sr. Secretary; L. McLean, Engineer; R.R. Kassner, Electrical Engineer. Standing: J.T. McCafferty, Technician; J.E. Rebman, Technician; H. McChesney, Department Business Manager, G.K. Green, Department Chairman and J.P. Blewett, Department Deputy Chairman.

Color Film Feature At Camera Club

The next regular meeting of the Camera Club will be held next Monday, January 15 at 8 p.m. in the Lounge of the Recreation Building. Members are requested to bring their camera equipment and slides of holiday scenes.

The program will high-light a 46 minute Kodak slide show entitled "4 Keys to Color." This popular program compares the characteristics of Kodachrome II, Kodachrome X, Extachrome X, and High Speed Ektachrome. Everyone is welcome for what should be a most informative evening.

Investment Lectures Set

Sufficient response has been received to schedule the BERA Investment Lectures for January 16, 23, 30 and February 6. The two-hour sessions will begin at 8 p.m. and will be held in the Lecture Hall, 36 Brookhaven Avenue.

The series of four lectures will be conducted by Mr. Carl Lanzisera from Bache and Company, and will deal with personal investments.

If you have not registered, but would like to attend, call the Recreation Office, Ext. 391.

Bowling News

The leagues have completed their first round of the season and the results show the following teams have taken the honors.

Red League	Spoilers
Green League	Electrons
Purple League	Fiscal
Pink League	Fizzles
Rose League	Fumblefingers

The second half started this week - so teams, you know who your competition will be for league champ - go get them. P.S. Vinnie Felice hasn't quit yet. He rolled a 644 scratch series (215/199/230) but was followed closely by Joe Scesny with a 639 scratch (212/173/254).

Volleyball

by John Sears

There is still an opportunity for men interested in volleyball to come down and join in the action. If enough interest is shown, a new team will be formed for the second half of the season, which starts January 29. Games are on Monday or Tuesday night at 5:30. Till then, there will be a chance to practice on Monday, January 15 and Tuesday, January 23. The primary idea is to get out and have some fun playing volleyball, regardless of the game's outcome.

Call the Recreation Office now to sign up with the new team. Ext. 391.

Classified Advertisements

Autos & Auto Supplies

- 59 SAAB - Good 2nd car. \$75. Carl, Ext. 7189.
65 LE MANS CONV - Auto trans, ps, r/h, extras, excel cond, 40,000 mi. \$1600. D. Schweitzer, Ext. 622.
65 CATALINA - 4 dr hard top, auto, powered, air, extras, new rubber, low mileage. Low price. Ext. 7239.
59 CORVETTE - 2 tops, low mileage, 327-300 hp, Hurst 3 sp heavy duty, new exhaust system, brakes, shocks, garage kept. \$1200 firm. W. Kemna, Ext. 464.
49 JEEP - 4 w/d, rebuilt 53 eng, 8 mos old. Jerry, Ext. 2117 after 4 pm, 475-5196 days.
52 CHEVROLET - Good body, tires, battery, Cheap. A. Mahlmann, Ext. 7373.
2 TONNEAU COVERS - For TR-4, new. \$25 ea. GR5-5894.

- 64 DODGE SEDAN - Very good cond. Ext. 2952.
SKI RACK - For sports car. GR5-5894.
66 RAMBLER AMERICAN 220 - 4 dr sedan, r/h, auto trans, snow tires. Best offer over \$1050. Larry, Ext. 2441.
64 VW - Square back, 37,000 mi. \$750. M. Hansen, Ext. 2389.
TONNEAU COVER - For Triumph TR-4, good cond. \$20. R. McAllister, Ext. 2852.
58 CHEVROLET IMPALA - Convert, std shift, r/h, very good cond. \$175. 281-7859.
67 VW - Seat belts, snow tires, r/h. \$1300. 281-7765 eves.
68 CHEVROLET IMPALA - 9 psgr station wagon, r/h, top luggage rack, seat belts. \$3100. 281-7765, 281-5602 eves.
67 FIREBIRD CONV - Red, 4 sp, 326 ci, 250 hp, 7,800 mi, excel cond. \$300 & take over payments. 298-4112 after 5 p.m.
65 OPEL SPORTS KEDET - W/w tires, 4 sp shift, blue, excel cond. \$950. YA4-6141.

Boats & Marine Supplies

- "ICE SHINGLE" - Sail & rig in good cond. YA4-3969.
55 CHRIS CRAFT 30' - Twin 150 interceptor, fb, df, ss, sleeps 4. \$3500. LT9-5649 after 6 p.m.
63 FAMILY CRUISER 26' - Custom built, fwc Chrysler, galley, head, bottled gas, 4 foam bunks, cg equipped, bilge pump & blower. Sacrifice, \$2300. Ext. 691.

Miscellaneous

- CORNER LOT - Wading River, 1.3 acres, atop hill, treed. Asking \$7000. Ext. 2981, 289-5851.
GIRLS' SKI PANTS - Blk, 8-10 yr; blue & cranberry, 5'-5 1/2", \$2/pr; ski mittens, child's, 8-10 yr, \$2/pr. AT6-0741 after 4 p.m.
BICYCLES - Girls' 26", boys 26", \$18 ea; motor bike, \$35. Ext. 597, AT6-0436.
ICE SKATES - Figure type, like new, size 4 & 8. \$5 ea. Ext. 353, AT6-0436.
YOUTH SKI BOOTS - Size 5, like new, \$6. Ext. 353, AT6-0436.
VOIGTLANDER PERKED II CAMERA - W/flash attachment, good cond. \$22.50. Hank, Ext. 7395.
500 LB IRON SAFE - You haul it. Best offer accepted. W. Wilhusen, 298-8601 after 6 p.m.
KNIGHT RF SIGNAL GENERATOR - Used twice. \$20. M. Greene, Ext. 7779.
24" GIRLS' BIKE - Basket, new tires. \$5. McRickard, Ext. 2165.
HEATHKIT STEREO UNITS - Preamp A141A; FM tuner, AJ12; turntable RP3, GE-VR11 diamond. \$40 ea or \$100 total. Ralph, Ext. 7193.
INSIDE MICROMETERS - 2"-12 1/4, \$10; mach tool chest, Kennedy, \$15; code oscillator & key, \$3. Ext. 657.
BARRACKS SPACE HEATER - Coal or wood, excel for workshop or garage. \$10. R. Ince, Ext. 2295.
SHOP MANUAL - For '65 Classic Rambler. \$3. R. Ince, Ext. 2295.
KAESTILE METAL SKIS - Polyeth bottom, 220 cm, Look-Nevada bindings. Make offer. A. Wolf, Ext. 2282.
ICE SKATES - Bel-Mar, size 7, very good. \$6. Sal, Ext. 573.
SINGER SEWING MACHINE - Electrified portable, excel cond, button hole attachment. \$25. J. Weiss, Ext. 2472.
SKIS - Head std 200 cm, Nevada bindings, good cond. \$60. Rau, Ext. 2424, AT6-0451.
WOODEN KITCHEN SET - W/4 chairs; many other household furnishings. 286-1227.
4 PIECE SECTIONAL SOFA - Mahogany end tables, all in good cond. 286-1227.
SWIFT MICROSCOPE - 3 object, 4x, 10x, 40x, 2 eye-pieces 10x, 15x, good cond, \$30; set of men's golf clubs (3,5,7,9), 2 woods (1,3), 1 putter, bag incl. Brian, HR3-0288.
OLYMPIC TV SET - Portable, in excel cond. \$50. Hooper, Ext. 7464.
3-WAY FLOOR LAMP - Beautiful, marble base, gold stem, w/white dome on top. \$25 (will negotiate). R. Flack, Ext. 7245.
DISHES - 2 compl servings for 8, flower or wheat pattern. \$10. R. Flack, Ext. 7245.
SKIS & POLES - 2 sets, like new, Barre-crafter. GR5-5894.
SURF FISHING ROD - 11 1/2', custom made, 1 piece, used once. Cost \$35, make offer. Ext. 354.

- ROYAL PORTABLE TYPEWRITER - W/case, excel cond. \$20. Ext. 354.
"HAM" GEAR - Assorted VHF equipment, incl receivers, transmitters & power supplies. Ext. 354.
GRAND PIANO - Sohmer, 6'3", very good finish, action recently adjusted. \$400. Ext. 7235.
DOUBLE BED - Foam mattress on box spring w/wheels, wrought iron headboard. Mike, Ext. 7174, 2420.
LOAD OF COAL - Free. 878-0819.
LEAVING STATE - Must sell 7 rms of furnishings by Jan 15. F. Truman, GR5-4627.
DINETTE SET - Table 28"x48", opens to 60"; 4 chairs, need recovering. \$12. HR2-1097.
AIREDALE PUPPY - 5 mos old, all shots, AKC, raised w/children, playful. Levine, 878-0248.
2 MALE KITTENS - Beautiful, excel temperament, 1/2 siamese, all shots, 2 1/2 mos, prefer someone to take pair, will let go singly otherwise. M. Tainiter, Ext. 2728.
GARAGE SALE - Jan 12-13-14, 49 Morris Ave, Patchogue. GR5-4627.

- OVERHEAD GARAGE DOOR - Wood, 8'x7', w/hardware & keys, 1964, painted white, delivered reasonable distance. \$30. W. Walsh, RA8-0918.
LG TABLE LAMP - \$6; high chair, \$2. Miller, 281-8825.
LG ROCKING HORSE - \$6; 4 qt Presto pressure cooker, \$5; green velvet gown, worn once, size 10, \$5. AT9-1754.
BOXER PUPS - AKC, fawn-black mask, white flash, docked, wormed, shots. \$100. L. Baur, 581-0208.
BIRD CAGE - Compl w/seed catcher & cover excel cond. Only \$4. Jerry, Ext. 2532.
AKC FRENCH POODLES - Males, silver, 7 wks old. Pat, Ext. 358.
BRONZE FLATWARE - From Thailand, 48 pieces (8 place settings), + 6 serving pieces. \$50. Ext. 2393, 724-3035.
BOYS' 20" BICYCLE - Banana seat, high rise handle bars, red & white, good cond. \$12. John, Ext. 458.
BEDRM SET - Oak, chest, dresser, nite table, mirror, single bed frame, very good cond. \$120. John, Ext. 458.
SKIPANTS - White Stag, aqua, size 8, worn onca. \$10 or best offer. Ext. 2228.
DINETTE SET - Table, 5 chairs, lt gray formica top, chrome legs, good cond. \$40. Bob, Ext. 305, 7226.
US COINS - Lg cents, 2 cent, 3 cent, 1/2 dimes. \$1 & up. Ext. 2191.

Houses

- PT JEFFERSON STATION - 4 bedrm high ranch on 1/2 wooded acre, liv rm, din rm, panelled kit & den, 20' din deck, laundry rm, dble garage, 2 baths, s/s, w/w carpet. \$20,500. HR3-9180.
EAST SETAUKET - Split level, 7 rms, 3 bedrms, 1 1/2 baths, fam rm, util rm, basement, garage, s/s, fully landscaped, 1/2 acre wooded lot. \$19,800. Walter, 473-2673.
BROOKHAVEN VILLAGE - 6 rm ranch, 15 min from Lab, 2 full baths, 3 bedrms, full cellar, fireplace, 125' front, wooded lot. \$22,000. Jim, AT6-0024 after 6 p.m.
MEDFORD STATION - 7 rm colonial ranch, 1 1/2 garage, laundry rm, fenced backyard, low taxes, non development, 10 min to Lab. \$16,800. GR5-8426.

- STONY BROOK - 5 bedrm colonial cape, 2 baths, fam rm, non-development, near everything. \$21,900. Ext. 571, AT6-0341.
SHIRLEY - 2 bedrm, solid brick, basement, garage, 2 plots. \$14,000. EM3-6048.
BROOKHAVEN VILLAGE - 4 bedrm ranch, liv rm, din rm, porch, 1 1/2 baths, 2 car garage, 1 1/2 acres fully landscaped, 150' frontage. \$31,000. AT6-1358.
OAKDALE - Colonial split level, 4 bedrms, cathedral lim rm, fam rm, on wooded-landscaped plot w/patio. \$19,500. R. Strand, Ext. 7658.

For Rent

- 3 BEDRM HOUSE - On 1 acre at end of quiet dead-end street, 1 yr lease. \$150/mo. R. Ehler, Ext. 7163.
2 BEDRM HOUSE - Liv rm, kitchen, bath, enclosed front porch, gas stove, refrig, lg yard, East Moriches. \$125/mo w/o utilities. Bob, Ext. 2151.
5 RM APT - Ideal "bachelor's" or "bachelorette's," near shopping center, main street, 15 min to lab. \$95/mo. Ferrer, 878-1969, 878-0792.
APT - Yaphank, 7 min to Lab. \$130/mo incl all facilities. 924-6172 after 6 p.m.

- FURNISHED RM - Kitchen privileges, clean house, Mastic, 10 min to Lab. \$65/mo. Ken, Ext. 2442, Al, Ext. 2726.

Wanted

- MEMBERS - For existing Consumer Reports group, March anniversary. Subscription \$4/yr. D. Christman, Ext. 7731 before Jan 20.
FILE CABINET - 3 or 4 drawers, letter size, preferably w/lock. Glasoe, Ext. 2514.
TO RENT BY APRIL 1 - 2 bedrm unfurnished house, preferably around Shoreham Village area. J. Domish, Ext. 648.
UTILITY TRAILER - Sm to med size, must be in at least fair cond. B. Espensen, Ext. 2287.
TO RENT - 2 bedrm furnished house. Gopi, Ext. 650.
CHEMICAL EQUIPMENT - & apparatus for my son's lab, particularly scale or balance. M. Plotkin, Ext. 7103.

- BABYSITTER - For little girl 1 yr old. Ronkonkoma-Farmingville vicinity, infrequent days, mother substitute-leaches locally. 585-5981.
PORTABLE WASHING MACHINE - Phelan, 475-4661.
SURFROD - 9 1/2'-10', medium action spinning. Lou, Ext. 2712.

Carpools

- BAYSHORE-BRIGHTWATERS-ISLIP - 1 driver needed to complete 5-man carpool. R. Vargas, Ext. 2374.
DRIVER WANTED - To complete existing 3-member carpool from Riverhead. Bill, Ext. 444.
3-MAN CARPOOL - Looking for 1 or 2 drivers from Massapequa (Bar Harbor). Dave, Ext. 2554.
EAST ISLIP - 1 or 2 additional drivers wanted for established 3-man carpool. S. Kalish, Ext. 2524.
PAYING RIDER - Needs ride from East Patchogue area. Bonnie, Ext. 2361.
2-MAN CARPOOL - Would like 2 more drivers from Waverly Ave between LI Ave & Sunrise Hwy, N Patchogue. Becker, Ext. 383.

Lost & Found

- LOST - In Brookhaven Center, gold & pearl earring. Reward. Paul, Ext. 2968.

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