

BULLETIN BOARD

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Capt. Bond Named CO of Naval Unit

Dr. Victor P. Bond, Associate Director of BNL, has been named Commanding Officer of Naval Reserve Research Company 3-9 effective September 1. Bond, who holds the rank of Captain, will have as his Executive Officer, Commander Leonard P. Baker, Jr., Manager of Safety Services, who was appointed to that post also effective September 1.

NR Research Co. 3-9 is a specialized unit of the US Naval Reserve which operates under the technical direction of the Office of Naval Research. It is composed of naval reserve officers who are scientists, engineers, or research supporting personnel in civilian life.



Bond Baker

The unit has several awards to its credit. In 1961, it received the A. Hoyt Taylor Award for the best research project, and twice, in 1962 and 1964, it won the Naval Research Award for general excellence.

Company meetings are held the second and third Wednesday of every month. Other BNL staff members who belong to the unit are: E.P. Cronkite, L.V. Hanks, R.A. Love, J.S. Robertson, C. Scarlett, W.W. Shreeve, and F.W. Walsh.

Wm. Floyd Traffic To be Restricted

During the weeks of August 28th and September 4th, Lizza & Sons, Inc. will be working across the William Floyd Parkway where the new expressway crosses and consequently traffic will be tied up between the hours of 8 a.m. to 4:30 p.m.

There may also be some nights when there will be only one lane Northbound and one lane Southbound open to traffic.

In order to facilitate the movement of traffic it may be wise to use another route when travelling to and from work.

Fiscal Changes . . .

Vincent J. Bilms has been promoted to the position of Assistant Fiscal Officer effective September 1. Bilms started with the Laboratory in 1964 as Senior Accountant, and had charge of the Bookkeeping Reporting and Capital Equipment Records. He replaces Charles Daley.

Charles Daley, after six years with the AUI Audit Staff and the BNL Fiscal Division, has left the Laboratory to accept the position of Controller with the National Accelerator Laboratory at Weston, Illinois.

Fred Hohmann, who came to BNL in 1961 as Senior Auditor with the AUI Internal Audit Staff, has been appointed Chief Accountant. He will assume his new duties on September 1.

Way Down Yonder In the Corn Field

According to Robert W. Briggs of the Biology Department, there is a genetic maze to be found in the BNL corn field. To the layman, corn is corn. You either eat it or pop it. You use it in margarine or in breakfast food, or you make it into a cigarette when you are young, or a corn cob pipe when you are old.

Corn is found in many of the new television shows, some of which are so bad that Mr. Layman must resort to corn whiskey to help him forget the show.

The term "corn" as used in European countries means any kind of grain crop such as oats, barley and rye. To a geneticist, "corn" is a maize. Maize is used as a genetic tracing tool because of its unique ability to produce many seeds from a single cross breeding.

At BNL, Dr. Briggs raises corn in the biology field opposite the on-site gas station on Rochester Street. 15,000 plants are grown here, and 15,000 ears are harvested at the end of the season. While the corn we buy from a farm stand is harvested 16 days after forming an ear, the corn at BNL is allowed to grow for about 35 days before being cut.

About this time, when the kernels begin to form, the birds come to make their own harvest of the pedigreed corn. Some of the birds are clever enough to open the husk just enough to eat a few rows of kernels and then close the opening so that technicians Gary McGovern and George White can't see the damage that has been done till after the harvest.

In past years the field workers have used firecrackers and poisons to discourage the birds, and have even tried feeding them separately. This year, a new scarecrow has been procured that seems to do the job. A cannon that operates on butane gas, is set to blast away at intervals of approximately two minutes. The noise which is unnerving to humans, also serves the purpose of keeping the birds away from the corn. Daniel Stelmaschuk, the technician who

maintains the cannon, claims that the blast is "relatively harmless, unless you happen to back into it."

After the corn is harvested, the kernels are removed from each ear and the pedigree of the ear is recorded in a control book. The new crosses are then taken to a field at Homestead, Florida, where a winter crop is grown at the Purdue University Research Station.

Either Dr. Briggs or Gary McGovern goes to Florida to hand pollinate the corn to effect controlled cross breeding. When the corn matures, another visit is made to Homestead to harvest the crop. With this method, twice as many crosses can be made each year, and much genetic information can be obtained.

After the seeds are dried, and before a new crop is planted, some of the kernels are irradiated and some are chemically treated to induce mutations. Indian corn, the decorative type that most suburban homeowners purchase at Thanksgiving time, has little practical use except to the geneticist. The wide variety of colors within each ear allows for a good check of spontaneous mutation.

Around the border of the BNL field, Dr. Briggs has planted a row of *japonica* corn, a decorative type that has striped leaves and stalks. While this corn is grown primarily for its marker genes, it also is quite ornamental as a border planting.

During the winter months at BNL, corn is grown in the greenhouses in buckets. The bucket-grown corn plants can be moved close to sources of radiation with ease, and without interfering with the growing processes.

Even though corn is a relatively new food to the civilized world, its genetic record has been more carefully documented than any other food. When Christopher Columbus landed in Cuba in 1492, he sent two of his men to explore the island. When they returned, they told him about a "sort

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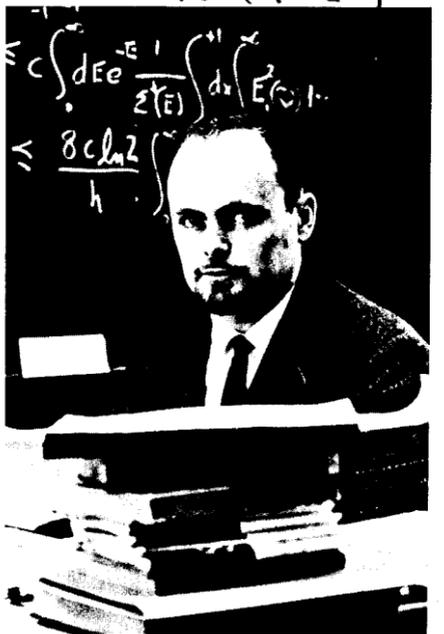
Daniel Stelmaschuk shown with "cannon."

Reactor Physicist Wins Mills Award

Dr. J. J. Dorning, Nuclear Engineering was named winner of the Mark Mills Award of the American Nuclear Society. The award honors the memory of Dr. Mark Mills, former Deputy Director of the University of California's Lawrence Radiation Laboratory. It was established by the American Nuclear Society in 1958 and John Dorning is its ninth winner. It is given to the student author who submits the best original technical paper contributing to the advancement of science and engineering related to the atomic nucleus.

In addition to a special certificate, the winner receives a cash award of \$500 and is a guest of the Society at the National meeting of the ANS in Chicago, Illinois on November 5-9, 1967.

Dorning based his paper on his doctoral thesis which was finished in January of 1967. The award-winning paper was titled "Neutron Thermalization in Finite Media," and deals with the mathematical verification of experimental work on reactors. 8-1249-67



—Photo by Humphrey

Dorning worked on his dissertation while serving as a Guest Junior Research Associate at BNL, with Noel Corngold, former head of the Reactor Theory Group, as advisor. "Noel was an excellent advisor," said Dorning. "He allowed great freedom in my work, and many times kept me from going up a blind alley. The other members of the Reactor Theory Group, better known as the Yaphank Philosophical Society, also gave much help and encouragement."

"BNL played a crucial role in making this award possible. There were many stimulating discussions, and a tremendous exchange of ideas that helped me to write the paper." The thesis took two years to write, and the award paper was finished late in June.

Dorning does most of his research and computation in his office at 7 North Harvard, but relies on the "dining room table" at home for the final writing of a paper. After his two children, Michael 3 and Jimmy 2, go to bed, he clears the table in the dining room and writes till the early morning hours. "In the office I can work on computations and theory with all kinds of noise and not be bothered," he said, "but when it comes to writing, I find it a lot easier to work at home. I am a rotten speller, and need a dictionary and thesaurus handy all the time."

After graduating from the U.S. Merchant Marine Academy at Kings Point with a BS in Marine Engineering in 1959,

(Continued on page 2)

Early Experimenters Discover Radiation Hazards in Radium

In the month of December of 1901, the Supplement to the Scientific American reproduced a paper from the French Academie des Sciences by Henri Becquerel about the "Physiological Action of Radium Rays." This first report of burns from radium showed that the newly-discovered element still was not fully understood by all who worked with it. It had previously been discovered that Röntgen rays would cause skin burns.

"The first observation of this action was by Messrs. Walkoff and Giesel. Mr. Giesel kept on his hands, for two hours, radiferous barium bromide enveloped in a sheath of celluloid. The rays acting through the celluloid, caused a slight redness on the skin. Two or three weeks later the redness increased and inflammation set in. The skin finally sloughed off.

M. Curie has repeated on himself the experiment of M. Giesel, causing radiferous barium chloride to act on his hand, through a thin sheath of gutta-percha, for ten hours. The activity of this substance was comparatively feeble (the activity was 5,000 times that of the metallic uranium). After the action of the rays a surface of six centimeters square of the skin became red; the appearance was that of a burn, but there was scarcely any pain. In a few days the redness, without extending, began to increase in intensity; on the twentieth day crusts were formed, ending with a sore which required dressing. On the forty-second day the epidermis commenced to form again on the edges, extending to the center, and fifty-two days after the action of the rays a surface of one square centimeter still remains sore and has a grayish appearance, indicating a deeper affection.

M. Henri Becquerel, on carrying a small sealed tube containing a few decigrammes of very active radiferous barium chloride (activity 800,000 times that of uranium), underwent an experience of the same kind. The matter inclosed in the glass tube occupied a cylindrical volume of from 10 to 15 millimeters by 3 millimeters in diameter; the tube, wrapped in paper, was kept in a small pasteboard box. On April 3 and 4 this box was placed several times in a corner of a vest pocket for a period of which the total duration amounted to six hours. On April 13 it was perceived that the radiation through the tube, the box and the clothes had produced a red spot on the skin, which became deeper as the time passed, marking in red the oblong form of the tube and assuming an oval form. On April 24 the skin fell off; then the most affected part sank in, beginning to suppurate; oleo-calcareous dressings were applied to the sore for a month, the diseased tissues were removed, and on May 22, that is to say, forty-nine days after the action of the rays, the ulcer closed, leaving a scar which marked the place of the tube.

While care was being given to this burn, there appeared, about May 15, a second oblong red spot opposite the other corner of the vest pocket in which the active matter had been placed. The exposure had been of short duration, an hour at most. Erythema now appeared, thirty-four days at least after the exciting action; inflammation developed, presenting the appearance of a superficial burn; on May 26 the skin began to fall off; on receiving the same care as the first, this burn appeared to be more rapidly cured.

In the interval of these observations, on April 10, 11 and 12, the same tube of active matter, inclosed in a lead tube, whose walls were about 5 millimeters thick, was kept for forty hours in another vest pocket,

Photographers Talk . . .



Dr. Friedrich Karl Moellring, (right) of Oberkuchen, Germany, is shown with John Garfield (left) Head of Photography and Graphic Arts. Dr. Moellring, a design engineer for Carl Zeiss, Inc. is here in the United States to discuss needs for new research equipment in the fields of photomicrography and cinemicrography. Robert Smith, head photographer of BNL, and Dr. Moellring both attended the meeting of the Biological Photographic Association in Toronto, Canada.

Rental Cars

Three rental cars are now available from the Mobil gas station on site. The cars may be rented by the day, or for longer periods at rates that are quite reasonable.

Labor Courses Offered By Health Department

As of Monday, Labor Day, the Suffolk County Department of Health announces that a new series of classes for expectant mothers will start on Wednesday, September 13, 1967. They will be held weekly from 1 p.m. to 3 p.m. at the Suffolk County Health Center, 15 Horseblock Place, Farmingville.

The classes will be conducted by Miss Ellen Boyle, Public Health Nurse of the County Department of Health. Expectant mothers who wish to attend may call the Health Department, 732-0400, Ext. 854.

The six weekly sessions will feature discussions, demonstrations and films. The subjects covered will include exercise and relaxation routines in preparation for childbirth, general hygiene of pregnancy, labor and delivery, care of the newborn and formula preparation. A tour of the maternity section of the hospital where the mother is registered is made during the course.

but has so far been attended with no physiological effect.

It may be added that Mme. Curie, by carrying in a small sealed tube a few centigrammes of the same very active matter which has caused the effects described above, has had similar burns, although the small tube was inclosed in a thin metallic box. In particular, an exposure of less than half an hour produced at the end of fifteen days a red spot, resulting in a blister similar to a superficial scald. Fifteen days were required for the cure.

Our hands have been also affected. There has been a general tendency to desquamation, the extremities of the fingers which have held the tubes or capsules containing active products, become hard and very painful. In the case of one of us, the inflammation of the extremities of the fingers lasted about fifteen days, and indeed after the falling off of the skin, the painful sensations have not yet completely passed away at the end of two months."

Becquerel concluded his paper as follows: . . . "These facts prove that the duration of the effects varies with the intensity of the active rays and with the duration of the exciting action."

\$10,000 Offered For 'Space' Test

Republic Aviation said today it wanted to give \$10,000 each to 12 well-trained men willing to spend 270 consecutive days confined in a simulated space chamber.

Applicants must be qualified psychologists, biologists or systems engineers. Graduate students in these fields may apply also, Republic said.

Starting this fall, Republic will seek to determine how a man reacts under the strain of long space voyages under a \$646,434 Air Force grant.

The tests will be conducted in a 28-foot-long chamber at Wright-Patterson Air Force Base near Dayton, Ohio. The tapered vehicle averages five feet in diameter.

A Republic spokesman said the longest previous confinement period for such tests was 42 days. Republic's tests will be conducted in steps of 60, 180, and 207 days.

—N.Y. Times

Rifle Club Meets . . .

The BNL Rifle & Pistol Club will meet Friday, Sept. 8, at the Recreation Hall in the Apartment area, at 8:00 p.m. For information, call Joseph Gatz, Ext. 7232.

Brookhaven Center Closed

The Brookhaven Center will be closed Sept. 2 and 3. It will re-open for dinner on Monday evening, Sept. 4.

The Snack Bar at the Cafeteria will be open Saturday, Sunday, and Monday, Sept. 2, 3, and 4, from 9:00 a.m. until 5:00 p.m.

The food vending machines will be in operation throughout the holidays.

Dorning . . .

(Continued)

Dorning served as an ensign in the Navy on a destroyer tender. After leaving the Navy in 1960, he became an engineer in the Merchant Marine on cargo ships and tankers. While at sea he did a lot of reading, and decided to go back to college in 1962. He got his Masters' in June of 1963 from Columbia, with majors in Nuclear Science and Engineering. At graduation, he was given a citation for "outstanding achievement as a graduate student," and was awarded a special AEC Fellowship in Nuclear Science and Engineering. From August 1966 to January 1967, he held a Pre-Doctoral Fellowship at BNL. In January of 1967, he joined the Brookhaven staff as an Assistant Physicist to do further research in theory work on fast reactors.

The 29-year old physicist lives in Shirley with his wife Helen, and their two children.

Corn Field . . .

(Continued)

of grain called maize." This was the first time white men had heard of the plant we call corn.

Indians showed the early settlers from Europe how to plant and grow corn, and corn became of first importance to the life of the pioneers. Early American colonists often used corn as money. People paid their rent, taxes, or debts in corn, and even traded it for marriage licenses.

Corn now covers about 80 million acres of land in the United States, and represents about \$4 billion each year. Americans eat an average of 75 pounds of corn per person every year.

At BNL, the program of maize genetics is aimed at producing mutations in a general effort to increase the knowledge about this most valuable crop grown in the United States.

Here and There

Dr. Seymour Katcoff (Chemistry) will spend a year at the Weizmann Institute of Science in Israel starting September 1, 1967. He has been awarded a Guggenheim Fellowship for studies of low energy nuclear fission. En route he will attend a conference in Røros, Norway, where he will give a talk on "Radiochemical Study of the Interaction of 3- and 29-GeV Protons with Silver."

Dr. Gerhart Friedlander (Chemistry) has been appointed by the AEC to serve as Chairman of a nine-man panel to review the Lawrence Radiation Laboratory's proposal for construction of the Omnitron.

Arnold Sparrow, Lloyd Schairer, Julie Hitt, Marta Nawrocky, Susan Schwemmer, Richard Sautkulis, and Kodumudi Marimuthu (Biology) have gone to Cape Kennedy for the launching of the second biological research spacecraft, the Biosatellite B. The craft will be launched sometime after Sept. 7. Thirteen experiments have been selected to determine the effects of the space environment on various life processes and will be orbited for three days - 47 orbits of the Earth. BNL's experiment - Mutation in Tradescantia (A Native Wild Flower) - is designed primarily to determine whether ionizing radiation, combined with weightlessness, will produce a different frequency of mutation in plant cells than radiation alone. The plant used in this experiment is a strain of the common spiderwort, a blue flowering wild flower.

Irving Singer (Meteorology) will attend the International Seminar on Wind Effects on Buildings and Structures to be held in Ottawa in September.

Mr. Yoichi Shimuzu of the Mainichi Newspapers of Japan, will visit the Laboratory on August 31.

Robert Briggs (Biology) leaves for Vienna today to present a paper to the IAEA Symposium on Research Coordination on the Use of Induced Mutation in Plant Breeding.

James Sutherland (NED) will leave on Sept. 4 for Kazimierz, Poland where he will present a paper to the Fifth Miller Conference on Radiolysis of N₂O in the Adsorbed State.

Louis Shotkin (NED) will leave on Sept. 3 to attend the Symposium on Two-Phase Flow Dynamics to be held in Eindhoven, Netherlands.

Jerome Hudis, who will spend the coming year at CERN, and Gerhart Friedlander (both of Chemistry) will present papers at the IVth Informal Conference on the Interactions of High Energy Particles and Complex Nuclei at Røros, Norway.

Arrivals & Departures

Arrivals

Jean F. Corwith	Plant Eng. & Planning
Sheldon Gitlin	Syst. & ADP
Roland H. Green	Accelerator
Louis A. Licalzi	Central Shops
Kurt Rabe	Plant Maint.
Glenn V. Tinnie	Applied Math.
Joseph R. Yelk	Accelerator

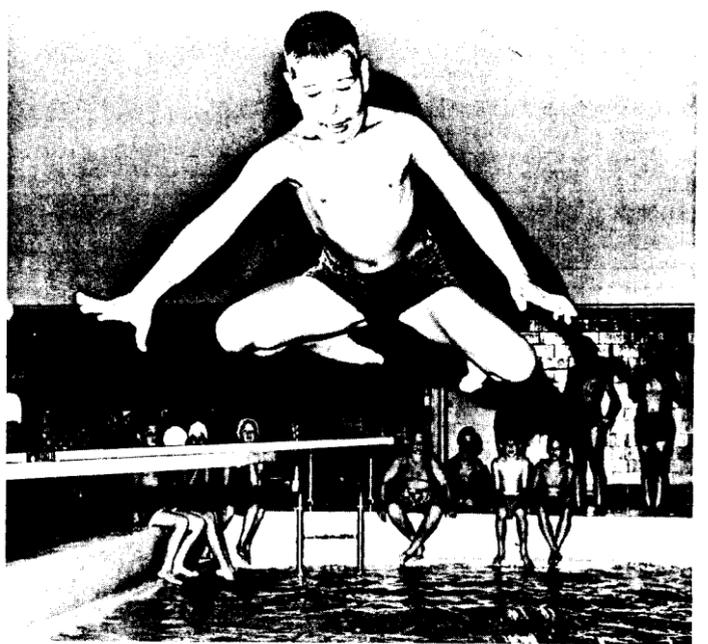
Departures

Carmen M. Benkovitz	Applied Math.
Anna H. Jackson	Fiscal
Robert E. Lajos	Accelerator
Patricia Meade	Physics
Marc Platt	Applied Math.
Clara T. Seibold	Medical

... Pool Finale ...



—Photos by Humphrey



Fish Tales

by John Tagliavia

If you've never witnessed a frog hunt a la McCafferty-Klein, Brother, then something is missing from your life. Picture two determined men crouched over on all fours, shoulder to shoulder, stalking one of those hoppity little creatures through the tall marsh grass. When the quarry is within an arm's length, the hunter's fore-finger is extended to describe a "mesmerizing" two-inch circle above the subject's head. Ever so slowly the hypnotic finger is moved within an inch of the frog, from whence the capture is made with a deft wrist movement.

I can't understand why both of these fellows tried to keep such an imaginative approach a secret from their peers. As a fisherman I can well understand the need for the unorthodox. In an effort to stimulate dormant trout into a feeding frenzy, I once paid six little boys a nickel apiece to stampede grasshoppers into a stream. It worked too!

Moriches blue and bass fishing is in a temporary slump, but according to John Bulla, the fluke have been filling in nicely. The catches haven't been exorbitant in number, but the size of the fish leaves little room for complaint.

The Giant and the Cooch had a slow day at Montauk, totaling three 8-pound blues for 9 hours of fishing last Saturday. I'm convinced excessive boat traffic is responsible for the decline in action on the weekends.

This is the last day of the second bi-monthly contest period. If you catch a big one (or a little one) be sure to enter it tomorrow morning. Watch for your name in the winner's circles.

Softball Party ...



Free Season Pass ...

BERA will award a free season pass to the Swimming Pool to the first employee who can correctly identify all the children in the above picture. Send entries to the *Bulletin Board* before 5 p.m. on Friday, September 8.

Pool Finale Aquatic Success

Thursday, August 24th, marked the end of the BERA summer pool specials. As a grand finale, an Aquatic Carnival was held with two hundred children participating. A gala time was had by all.

Over fourteen dollars was taken from the pool in the Money Balloon Contest and the Penny Fetch. The events included an Inner Tube Derby, Tug O'War, relay races and diving contests. The program featured three hours of 'madness' with prizes, games and grab bags of candy.

A special thanks is given to the following parents who acted as judges for the diving contests: Mrs. Gladys Foradori, Mr. Jesus Sanches, Mrs. June Potter and Mrs. Katherine Dillin. An outstanding visitor to the Carnival was photographer Doug Humphrey, who was seen wading through the pool photographing the children from 'all possible' angles.

Swimming Pool Schedule

The pool will operate under its present schedule - Monday thru Friday from 2:30 til 9:30 - until August 31. The pool will be closed from September 1 until mid October for maintenance repairs. Watch the Bulletin for further schedule announcements.

Safety Note ...

Safety shoes will not be issued on Thursday, September 7.



BERA Film Series

Movie Tonight: World Without Sun
Short: Moscow Circus

With the showing of World Without Sun, the current BERA Film Series will end. The Fall schedule is now being completed, and will be announced in the *Bulletin Board* as soon as it is released.

Bowlers Attention ...

There is still room in the Mixed League for bowlers of both sexes. This league bowls on Friday nights at 9 p.m. at Maggios. Call the Recreation Office if you are interested in joining.

BERA Concert Series 1967-1968

This seasons's concert series promises to be one of the most exciting series given at the Lab. There will be six concerts included in the series which will extend from October until March. Season tickets will be available early in September from ticket sellers in each department. The concerts take place at the Brookhaven Center at 8:30 p.m. Refreshments are served in the Center following each concert.

- The Concerts included in the series are:
- Guaneri String Quartet.....October 11
 - Rampal/Veyron-LaCrois (flute and piano).....November 9
 - Pasquier Trio.....December 5
 - Oscar Ghiglia (guitar).....January 25
 - Evelyn Crochet (piano).....February 27
 - Early Music Quartet.....March 21
- Season tickets: Adults, \$10.00; Children (under 18 years old), \$5.00.
Single admissions: Adults, \$3.00; Children, \$1.50; Non-employee Guests, \$3.50.

Classified Advertisements

Autos & Auto Supplies

- 4 TUBELESS TIRES - 8.25x14, Mobil, used 600 mi. Cost \$108, sell for \$65. 281-6732.
- 2 GOODYEAR TIRES - 6.95x14, mounted on 5 lug Ford wheels, excel cond. \$15. J. Weiss, Ext. 2472.
- 8.55x14 TIRES - 3 Dunlop, black walls, used only 3000 mi, \$15 ea; 2 Goodyear snow treads on rims for '58 Olds, \$5 ea. J. Stehn, Ext. 2449.
- 61 VOLKSWAGEN - Sun roof, running but needs repair. \$100. S. Ozaki, Ext. 2502.
- 56 CHEVROLET - 2 dr sedan, 6 cyl, std shift, r/h, snow tires. \$100 or best offer. R. Lorenz, Ext. 686.
- 57 CHEVROLET - Auto trans, new battery & spark plugs, in running cond. \$75. B. Kowalski, Ext. 2314, 744-3175.
- CHEVY II - 4 dr sedan, auto trans, 6 cyl, snow tires, owner leaving country. \$950. P. Dornan, Ext. 7656, 924-5045.
- 63 RAMBLER CLASSIC - Model 770, 4 dr, V8, r/h, auto trans, ps, reclining bucket seats, belts. Asking \$575. HR3-7191 after 6 p.m.
- 64 CORVAIR MONZA - 4 dr hard top, auto trans, new tires, bucket seats, excel cond. \$800. Ext. 7267, 289-5854 after 5:30 p.m.
- 66 JAWA - 1400 mi, helmet, good cond, need money for school. \$295. Everett, Ext. 2578, 234-6281.
- 61 COMET - Beautiful cond, all new tires, 23 mpg, can be seen at Lindsey's. \$525. Fales, Ext. 2120.
- 60 MGA - \$450; 2 Ford chrome 15 in rims, \$20 pr. R. Gwathney, Ext. 2212.

61 PLYMOUTH STATION WAGON - 9 passenger, good cond, auto trans, orig owner. \$600. 878-0372.
54 FORD PICKUP - Engine comp rebuilt 3000 mi ago, body good, spare wheels, r/h, Ext. 698, SE2-5218. after 5:30.

64 SAAB SEDAN - \$600. N. Elliott, Ext. 679.

1930 MODEL "A" FORD STD ROADSTER - Conv, rumble seat, mint cond, completely rebuilt. R. Aichroth, JU1-5786.

1931 MODEL A FORD PANEL TRUCK - Flathead 4 just rebuilt, good running cond, new tires, minor body work. \$200. Ext. 420, GR5-7733.

62 DODGE DART 330 - Auto trans, r/h, ps, new battery & muffler. T. Migita, Ext. 7266.

65 (GREY GHOST) CORVAIR - Money saved on this buy, can be used to put ghost in A-1 shape. Ken, 878-1744.

58 OLDSMOBILE - Hard top, auto trans, ps/pb, good body, runs well. \$80. Eicker, Ext. 7392.

62 VOLVO - 4 dr, black, r/h, 2 spares w/snow tires, 52,000 mi, excel cond. \$895. 286-3647 eves & weekends.

64 PONTIAC GTO - Hard top, 4 speed, exceptionally clean throughout. GR5-5894.

62 RAMBLER - Conv, 6 cyl, auto trans, 1 owner, 45,000 mi, excel cond. \$400. R. Lane, Ext. 2416, 329-5423 after 5 p.m.

66 HONDA - 160 cc, elec starter, excel cond. \$475. AT6-9225 after 5 p.m.

66 HONDA - 65 cc, black, excel cond, 200 mpg, 55 mph. 289-3190.

Boats & Marine Supplies

18' FIBERGLASS OUTBOARD - 2 bunks & head, 75 hp Johnson elec. R. Squires, Ext. 2939, 666-8973.

14' ELGIN BOAT - On Teewee trailer; boat has windshield, steering wheel, cables, fiberglassed bottom, seats 6; both A-1. \$100. Lloyd, GR5-1271.

22' INBOARD - 2 bunks, hard top, hull good, engine fair, in water. Asking \$200. Ext. 468, 878-2134 after 6 p.m.

23' CABIN BOAT - 25 hp 4 cyl Universal Marine, 2 bunks, head, motor running, in water. \$600. 878-0372.

8' PRAM - Mahogany, oars, 2 hp Sears outboard engine. \$95. V. Abbruscato, Ext. 481.

16' BARBOUR HULL - Canvas cover, cable steering, good cond. Asking \$125. Ext. 420. GR5-7733.

PROPELLER - 16" right-hand, 3-blade, bronze 1-3/4" to 1" tapered hole with keyway, excel cond. \$30. Ext. 379, LT9-3269 after 6 p.m.

18' COMMODORE SEA SKIFF - 75 hp Evinrude, navy top, side curtains, mooring cover, many extras, in water, will demonstrate. \$850. Bill, Ext. 2580

25' CABIN SKIFF - In board new engine, sleeps 4. \$1000. P. McCabe, AT9-0983.

M.O.R.C. SLOOP - Sleeps 2, dacron sails, mahog hull, cradle, outboard. Sell or swap. W. Hersey, AN5-6326.

21' OWENS CABIN CRUISER - Fine family boat, good cond, galley, head, sleeps 3, 66 hp inboard, Navy top, in water. \$800. Ext. 2488.

30' PACEMAKER - 1962 Express Cruiser, excel cond, bow rail, 12 v or 115 v refrig. complete galley, propane 2 burner ss stove, pressure water, 2 ss 45 gal fuel tanks, low hours, will demonstrate. Ray, Ext. 476

23' CHRIS CRAFT EXPRESS CRUISER - Sleeps 2, dbl plank, 95 hp Chrysler Marine, new manifold, extras, must sell. \$700. Ext. 7642, SE2-4661.

TANKS - Water storage, polypropylene, 13 gals, 14" dia, 30" long, "new", ideal for boaters, campers, etc. \$10 ea. Petruk, Ext. 2142.

16' COMET - Hull #958, hull, spars & rigging good cond (ss dac) sails cotton, fair to poor cond. \$250. Paul, Ext. 591.

Miscellaneous

15 GAL FISH TANK - Complete w/heater, filter, pump, light. \$15. AT6-8517.

WASHING MACHINE - Kenmore, 8 yrs old, needs some work, motor in excel cond. Best offer. SH4-5431.

LIFTING WEIGHTS - \$5. R. Aichroth, JU1-5786.

PERSIAN CARPET - Genuine Shiraz, 51"x78", 28x20 knots per in, 11 amo wool, hand made. Metzner. Ext. 2341.

TRICYCLE - 16" AMF Junior, good cond. \$7. M. Conforte, Ext. 7667, 7294.

ALUMINUM STORM/SCREEN WINDOWS - 28x54, 30x56, 26x44. \$4 ea. Ext. 2492.

GUILD GUITAR - W/carrying case, excel cond & tune, steel strings, Model A-50. \$150. G. Baker, 286-1218.

POODLE PUPPY - 6 wks old, AKC registered, male, black, standard. S. Fink, Ext. 2708.

OLYMPUS PEN-EE CAMERA-W/case. \$25. T. Migita, Ext. 7266.

DON'T WALK - Buy this sit on lawn mower & relax while cutting the lawn, \$35; baby carriage, \$13; "Pack to Carry Baby", \$3. G. Rich, 286-9453.

TENT HEATER - Kerosene burning, old but works well. Priced at \$5 for quick sale. Ext. 698.

"PARKER" LAWN VACUUM - 3 hp b/s engine, mint cond, 1 season old. Cost \$149, sacrifice \$90. B. Doran, HR3-9232.

PORTABLE ORGAN - Farfisa "Combo Compact," excel cond. 941-4212 after 6:30 p.m.

COMPLETE SET OF DRUMS - Gretsch, Zelig cymbals, tophat, Rogers pedal, seat, sticks, brushes, etc. \$350 firm. GR5-4312.

CEMETERY - "Washington Memorial Park," Coram Cost \$350, will sell for \$325. P. Lindevald, Ext. 445, JU8-6361 after 6 p.m.

HAND LAWN MOWER - \$3; Emerson TV, needs tubes, \$10; revolving table, \$5; student desk, \$5; elec fry pan, 5. GR5-4312.

2 STORM/SCREEN COMBINATIONS - Aluminum, 32"x39". Ext. 2515.

4 PC BEDRM SET - Mahog, w/3 drawer wide vanity & double bed w/box spring, foam mattress. \$125. AT9-0086.

CHINA CLOSET - Mahog, full length glass curved from side to front, \$35; Morris chair, foam cushions, \$20. AT9-0086.

LEICA IIIC CAMERA - W/Nikkor 35 mm F35 lens, body & lens in excel cond. \$45. Dick, Ext. 7215.

SM COFFEE TABLE - Fair cond, could be refinished. \$5. Rose, Ext. 2359.

SEWING MACHINE - Working cond, portable w/home-made cabinet. \$10. Rose, Ext. 2359.

CRIB - Dressing table, high chair. \$40 takes the lot. Sadofsky, Ext. 2709.

2 ADULT EXPO PASSPORT TICKETS - 7 day. \$7/bk. H. Martin, Ext. 316, JU1-1835.

9 CU FT FRIGIDAIRE REFRIGERATOR - W/freezer, excel cond. \$50, will bargain. AT6-8108 after 6 p.m. GARCIA LANDEX FLY REEL - Never used. Bob M. Ext. 309.

ANTIQUE RCA VICTOR TALKING MACHINE - A real gem. AT6-1373.

EUREKA ELEC BROOM - Like new. Cost \$25, sacrifice \$12. R. Ince, Ext. 2295.

TENSION SCREENS - 6-32"x51", 2-36"x39", 1-24"x39". \$1 ea. Brems, Ext. 476.

TURNTABLE - Weathers Super "66" professional, w/stereo cartridge, speed 33.3, handsome, in perfect mech cond, leave site 10/15. Price arranged. Schultz, Ext. 515.

SADDLE - All purpose, English made, average size, will fit most horses, excel cond, incl felt pad, girth, stirrups. \$80. Lomonosoff, Ext. 2488.

BRIDLE - Complete w/Never Rust bits, cavesson set & reins, fine grade butt stock leather, excel cond. \$17.50 Lomonosoff, Ext. 2488.

SNOW BLOWER - 19" Briggs & Stratton, 3 hp clean & top performance. New \$90, sell for \$45. Sherman, Ext. 2341.

HAND-KNIT SWEATER DRESSES - Made to order, machine washable. \$40. Joiner, Ext. 2741.

FREEZER - 13 cu ft upright, like new. \$250. Ralph, Ext. 7352.

16" RCA PORT TV - Excel cond, \$60; walnut finish crib, \$20. Ralph, Ext. 7352.

"A HONEY FOR THE MONEY" - 7 cu ft Frigidaire w/freezing compartment. \$25. J. Cotter, JU8-4766.

PONY - Lg gelding, rides & drives. \$125. 878-1561 after 6 p.m.

PLAY PEN - Sterilizer, diapers white bricks, back issues of "Scientific American," "The Progressive," "Quinto Lingo," "NY Review of Books," hassock, elec skillet; need repairs. Best offer. 744-2480.

AMPLIFIER - Mono, Brociner Mark 10, made by Lafayette, new tubes, completely checked out, excel cond. Ken, Ext. 2341.

UNCIRCULATED LINCOLN PENNIES - By the roll only, many different dates. R. Rosser, Ext. 301.

EXPO 67 TICKETS - 7 day youth passport. \$9. AT6-8517.

NORGE REFRIGERATOR - 10 cu ft, white, 3 yrs old, good cond. New \$179, sell for \$35. R. Martin, Ext. 7262, 281-8765.

GIBSON J50 HOLLOW BODY FOLK GUITAR - De Amond pickup, hardwood plush lined case. \$140. Ext. 2492.

"REESE" TRAILER HITCH - Axel type, needs some parts, \$20; Deluxe Built-Rite carriage, \$15; 6 volt radio, fits Volkswagen, \$6. R. Williams, Ext. 7180.

Houses

NORTH PATCHOGUE - Ranch, 3 bedrms, panelled liv rm & playrm, fireplace, 1 1/2 baths, many extras. \$15,500. GR5-4627.

EAST SETAUKET - 7 rms, 3 bedrms, 1 1/2 baths, fam rm, utility rm, basement, garage, s/s, fully landscaped wooded 1/2 acre. \$19,800. Reed, Ext. 2204, HR3-2673.

PT JEFF STATION - 4 bedrm high ranch, on 1/2 wooded acre, liv rm, din rm, panelled kitchen & den, 20' din deck, laundry rm, dble garage, 2 baths, s/s, w/w carpet. \$20,500. HR3-9180.

SHOREHAM - Leaving LI, must sell, 4 bedrm ranch, play rm, 2 baths, fireplace, air cond, many extras. Asking \$28,500, will consider reasonable offer. 744-2480.

BROOKHAVEN VILLAGE - Waterfront colonial, 3 bedrms, panelled liv rm & den, breakfast rm, din rm, 1 1/2 baths, double garage, bulkheaded dock, 1/2 acre. \$33,000. AT6-0322.

PATCHOGUE - Ranch, 3 bedrms, liv rm, kitchen-dinette, bath, separate entrance, rm, bath & cooking area for mother. Appraised \$20,300. GR5-7372.

PATCHOGUE - Cape Cod, 3 bedrms, lg liv rm, bath, kitchen-dinette, being remodeled, near school & stores. For appointment call Ext. 2816, GR5-7372.

SMITHTOWN - Split, 3 bedrms, 1 1/2 baths, liv rm, din rm, eat-in kitchen, den, garage, patio, s/s, 1/4 acre fenced, washer, dryer, refrigerator, 24' pool. AN5-2374.

For Rent

3 BEDRM BRICK HOUSE - Basement, garage, lg yd, Yaphank. 212-456-9015 (Brooklyn).

TENT FOR RENT - Try brisk autumn camping for fun & health, week or weekend. 273-6436.

4 BEDRM HOUSE - Brick Cape Cod, E. Patchogue, unfurnished, avail 9/1, nice area. \$150/mo. AT6-8517.

4 BEDRM HOUSE - Bellport South, near bay & village, fireplace, liv rm, din rm, kitchen, den, 2 baths. \$175/mo. AT6-0497.

CABIN IN THE PINE - Maine? No, Mastic, 3 rms, furnished. \$85. Ext. 2492.

3 RM PENTHOUSE FURNISHED APT - On waterfront, lease, single person, util. \$110. Ext. 2841, 878-0214.

FURNISHED COTTAGE - Bellport Village, 1 bedrm, good location, recently remodeled, avail 9/1. Ext. 7387, AT6-1221.

LG STUDIO APT - Suitable for young couple or 2 single people. GR5-2384.

7 RM HOUSE - Selden, furnished or unfurnished, 1/2 acre. \$150/mo. SE2-4661.

4 BEDRM RANCH - Play rm, 2 baths, fireplace, sun deck, 2-car garage, air cond, Shoreham, wooded 1/2 acre, beach rights. \$250/mo. 744-2480.

Wanted

CLEANING LADY - W/car, 1 morning per wk, Mon, Wed or Fri, 8am-1pm. AT6-0975.

JOB FOR TEENAGER - To babysit or be mother's helper. Susan, AT9-1605.

BABYSITTER - Starting Sept 6, 3:30-6, Mon-Fri, East Patchogue. GR5-6288.

UTILITY TRAILER - Lightweight. C. Pukit, Ext. 2950.

CHAIN SAW - Gasolene. C. Pukit, Ext. 2950.

SILVER DOLLARS - Paying \$1.30 ea; silver certificates, \$1, \$5, \$10, paying 18% over face value; any amt. S. Wagner, Ext. 618.

EXPERIENCED AARDVARK - Immediate position avail. M. Wilson, Ext. 493.

LG AQUARIUM - Doesn't have to be watertight. K. Fuchel, Ext. 2446.

2 PR SNOW CHAINS - For Volkswagen, & another Volkswagen to put them on. Cheap price. 924-8529.

2 BEDRM HOUSE - In Port Jefferson school district, preferably in Shoreham, for 9/1 if possible. 924-8529.

411 CHEVY REAR - G. Fairhurst, Ext. 639.

YOUNG COUPLE - Or person to share comfortable 10 rm lakeside house in Patchogue with widowed owner. GR5-2384.

ROOM MATE - Male, to share apt in Rocky Pt. \$65/mo. Ext. 595.

BABY CARRIAGE & BATHINETTE - 475-4661.

Carpools

DRIVER - To complete 5 member carpool, Bay Shore-Brightwaters area. Pam, Ext. 2136.

4 MAN CARPOOL - Massapequa & points west needs 5th (driver, that is) commencing 9/5. Dave, Ext. 2554.

PAYING RIDER - Wishes to join carpool from Waverly Ave are in Patchogue. B. Kreiling, Ext. 2871.

RIDER/DRIVER - Wanted to fill 5 man carpool from Patchogue area. R. Scalzo, Ext. 2180.

STRATHMORE "S" SECTION - Existing, on-time carpool looking for additional members. Paul, Ext. 2337; Sid, Ext. 2583; Dave, Ext. 2824.

5th DRIVER/RIDER - From W Islip-Babylon area. J. Ryan, Ext. 560.

CORAM - Musket Ridge area, to & from Lab, 8:30-5 shift. Walter, Ext. 566, 732-5216.

PAYING RIDER - To join carpool from Lake Ronkonkoma-Holbrook area, can arrange to meet if necessary. Ext. 2491.

DRIVER - Wanted to complete existing 5 member carpool from Riverhead. Pat, Ext. 7691.

DRIVER - Would like to join or start carpool from Patchogue area. E. Bailey, Ext. 420. GR5-7733.

FORM - Flexible carpool from Huntington. M. Leopold, Ext. 2549.

DRIVER - To complete 5 member carpool, village of Patchogue. W. Benedict, Ext. 353.

PAYING RIDER - Wishes to join carpool from Sayville-West Sayville area. M. Mead, Ext. 2903.

Lost & Found

FOUND - 1 Rheingold extra dry bung valve assembly. Bob, Ext. 2128.

LOST - 1 pair of prescription glasses w/black frames in the vicinity of Bldg 511. Mulholland, Ext. 7349.

LOST - Brown wallet containing non-replaceable scientific data, reward offered for return. M. Rose, Ext. 2878.

Classified Ad Policy:

1. The Bulletin Board's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. 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.
4. Ads associated with a full- or part-time business cannot be accepted.
5. 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