

# BULLETIN BOARD

Volume 21, Number 35

Published by the BNL Public Relations Office

September 7, 1967

## O.E. Dwyer Returns to Heat Transfer Studies

Research is a fascinating field, but all too often the researcher gets bogged down in administrative work, and finds his research efforts suffering. Dr. Orrington E. Dwyer, Head of the Chemistry and Chemical Engineering Division, has published over fifty papers, mostly in the fields of nuclear engineering and liquid-metal heat transfer. He is a researcher who is presently in an administrative job, and who has for some time wished he were able to devote more time to the study of his prime interest, heat transfer in liquid-metal systems.



In response to Dr. Dwyer's wishes, Dr. Warren E. Winsche, Chairman of the Nuclear Engineering Department, has made divisional changes to be effective September 1 that will free Dr. Dwyer for full-time research and writing.

The chemical engineering activities (heat transfer under O.E. Dwyer, waste processes and saline water under L.P. Hatch, and safety studies under A.W. Castleman) will be combined with the present Engineering Division. T.V. Sheehan will continue as Head of this division with R. J. Isler continuing as Assistant Head for technical, design, and operational activities. Dr. J.M. Hendrie will be Associate Head of the enlarged Engineering Division.

## Cooking Exchange Group

The Cooking Exchange Group will hold a meeting on Thursday, September 14, from 3:00 to 5:00 pm, in the Recreation Building in the Apartment Area. There will be a 50¢-per-person charge at this meeting.

## Camera Club Meeting . . .

There will be a meeting of the BNL Camera Club on Monday, September 18 at 8:00 p.m. in the Recreation Building. Newcomers, old-timers and visitors are most welcome. Bring slides and prints of your summer's activity.

## More Traffic Woes For BNL Drivers . . . 9-49-67



Entrance to William Floyd Parkway is at lower right. Route 25A runs across bottom of picture. The new road runs from center to upper right. The new road is a "Restricted Highway," and not available for normal use.

Photo by Walton

## Eye Test Needed To Renew License

All BNL employees are reminded that an amendment to the Vehicle and Traffic Law of New York State requires all drivers to present proof of acceptable vision standards each time a driver's license is renewed. This law is effective for all licenses expiring after July 1, 1967.

As a result of this new legislation, each applicant will be required to appear at a motor vehicle office for a vision test prior to approval of the license renewal. As an alternative, the applicant may present a report of the results of a vision examination conducted by a licensed physician, ophthalmologist, oculist or optometrist no earlier than six months prior to the date of application for renewal of the license. When this latter report is presented, personal appearance at the issuing office will not be required.

As a convenience to BNL employees, the vision tests may be made at the Clinic in the Medical Department. The reporting form, MV 619 is available at the clinic, and will be filled in and signed by either Dr. Love or Dr. Pluss. Be sure to bring your license with you so that the proper information may be transferred to the test form.

After the form is completed and signed, the license renewal stub, the new license, and the test form may be mailed to the Motor Vehicle Department for validation.

In spite of the fact that the large barriers have been removed, and replaced with crudely-lettered signs, BNL drivers who ventured to use the north extension to William Floyd Parkway were ticketed last week.

Approximately 20 drivers were stopped on Wednesday, August 30, on their way to work, and were given tickets for "travel on a restricted highway." (see letter to the Editor, page 2) The tickets, which are returnable in the 6th District court in Patchogue on October 18, were issued by the Suffolk County police department at the request of the contractor, Lizza and Sons, Inc. of Oyster Bay.

According to Sheldon Cherry, Lizza engineer in charge of the job, the only people who can use this road are the residents of the area between Jericho Turnpike and Whiskey Road. ". . . all the others are trespassers," said Cherry, "and it is against the law to trespass."

When questioned about the delay in opening this section of roadway, the engineer for New York State, James Kosloski said that the road cannot be accepted by the state until all of the job is completed. At this time, this consists of the top hand-rail on the bridge across Jericho, the signs, and the traffic delineators and dividers.

For many weeks work had been stopped on the job because of problems with subcontractors. Labor disputes and procurement of materials also were a factor in the delay. At one point, specifications were changed for guard rails, and at another point, there was a strike of steel fabricators.

(Continued on page 2)

## Outer Space Mutation Goal of BNL Experiment

This country's first biosatellite was launched from Cape Kennedy on December 14, 1966. After three days in orbit, the reentry retro-rocket failed to fire, and the experiments were lost.

On September 7, 1967, or as soon thereafter as possible, Biosatellite II will be launched. The NASA-Biosatellite program is designed to provide additional knowledge of basic biological processes. Inside a controlled environment compartment will be a BNL biology experiment, designed by Arnold Sparrow and Lloyd Schairer, to determine whether ionizing radiation combined with weightlessness will produce a different frequency of mutations in plant cells than that produced by radiation alone.

*Tradescantia*, the plant selected for the experiment, is a special strain of a blue-flowering roadside plant native to many parts of southern and central U.S. where it is commonly known as the spiderwort. This plant has been grown in the laboratory in growth chambers in the Biology Department. It has a small number (12) of large chromosomes ideally suited for detailed studies of radiation injury, plus a high mutation rate of the gene that determines flower color, and there is a large backlog of data concerning its response to ionizing radiation. *Tradescantia* has about the same radiosensitivity as mammalian cells.

This second experiment will be a duplicate of the previous attempt using rooted cuttings of young *Tradescantia* plants. At Cape Kennedy, the roots will be sealed in tubes filled with nutrient solution, and the flower buds arranged in a single tier for uniform exposure to gamma radiation from a small radioactive source. Arnold Sparrow, Lloyd Schairer, Julie Hitt, Marta Nawrocky, Susan Schwemmer and Richard Sautkulis have been at the Cape doing this work. In addition to the experimental



Mrs. Priscilla Baetcke of the Biology Department is shown loading *Tradescantia* into a plastic package for the Biosatellite experiment.

package, three other identical packages are made. One is used for a control on the spacecraft, one for a control on the ground, and the other a spare. Radiation-induced effects will appear as color changes in the flowers a few days after retrieval. These changes are caused by mutations in some of the somatic cells in the petals and stamens in such a way that the normal blue coloration fails to develop and is replaced by pink. Successive divisions of the pink mutant cell then produce a cluster or row of pink cells. The number of pink mutant spots can be counted with the aid of a

(Continued on page 2)

**Here and There**

**Gilbert Raynor, John Frizzola and Maynard Smith** (Meteorology) will present papers at the Chalk River Meteorological Information meeting, Sept. 11-14.

**Norman Elliott** (Chemistry) will spend the next nine months in Italy for study and research at the University of Rome and the Center for Nuclear Studies.

**A.O. Allen, W.C. Hamilton, J.B. Cumming, G. Friedlander, E. Kozimer, R. Davis Jr., W. Rubinson and M. Orhanovic** (all of Chemistry) will present papers at the American Chemical Society meeting in Chicago, Sept. 10-15.

**Pierre Grand** (AGS) will leave on Sept. 16 to visit at Saclay, Compagnie Generale de Telegraphie Sans Fil, and Cern.

**William J. Catacosinos** (DO) is visiting at Demokritos, Athens on the BNL Cooperative Program discussing administrative and operations procedures.

**Jules Godel** (Chemistry) has been appointed Assistant Editor of NUCLEAR APPLICATIONS, a journal of the American Nuclear Society.

**Max Wolfsberg and Edward Sayre** (Chemistry) have resumed their part-time appointments as Adjunct Professors at the University of New York at Stony Brook and the New York University Institute of Fine Arts, respectively.

**Mr. Robert M. Ulmann**, Director of Proefbedrijf Voedselbestraling (Pilot Plant for Food Irradiation), Wageningen, Netherlands, visited at the Laboratory on Sept. 5.

**C.H.W. Hirs** (Biology) has been appointed Adjunct Professor of Biochemistry at the State University of New York, Stony Brook, effective Sept. 1.

**George A. Baker, Jr.** (Applied Math) will attend the International Congress on Magnetism to be held in Boston, Sept. 11.

**Professor Garrett Birkhoff** of Harvard's Department of Mathematics will be at the Laboratory Sept. 11 to 15.

**Lawrence E. Fuller** (NED), **James Kelly** (DO), and **Blair Munhofen** (Chemistry) have been appointed to the BNL Cost Reduction Committee. This committee is the focal point at BNL for gathering information on and reporting progress in the Laboratory's efforts to effect cost reduction in all areas of its operation.

**BNL Gets Refund On Gas Tax Money**

F.X. Jones of Fiscal reports that BNL has received a check from the US Government for a refund on taxes paid on gasoline, diesel fuel and motor oil for "off the highway consumption," in the amount of \$7,024.26 for the period from July 1, 1965 through December 31, 1966.

Of this amount, \$436.50 is due AUI for refund on gasoline purchased for use in the airplanes rented by AUI. The balance of the check, \$6,587.76 is split between BNL, \$5,908.04 and National Radio Astronomy Observatory, \$679.72.

This refund is made possible because most of the BNL and NRAO trucks, cars and equipment does not leave the site, but operates entirely "off the highway." A good part of the Federal tax on gasoline etc. is earmarked for construction and maintenance of highways.

This is the first time that this refund has been claimed for Brookhaven and the NRAO.

**Old Friends Meet . . .**



Youichi Shimizu, science writer for the Mainichi newspapers of Japan, is shown with his friend Minato Kawaguti, of the Applied Mathematics Department. Shimizu, who is writing a series about BNL for the Japanese newspaper, finished his tour of BNL at the office of Kawaguti, who drove his friend to the train for the return trip to Japan.

**Traffic Woes . . .**

(Continued)

The contrast between the temptingly-smooth pavement of the new road, and the rough surface of the Randall Road detour has been the cause of many BNL people using the new road in spite of the impromptu "Road Closed" signs put up by



the contractor. Many times during the summer Randall Road has been impassable because of floods and pipe laying crews.

At the intersection of the new highway and Whiskey Road, one sign in the north-bound lane reads "One Way," and another sign lettered with spray paint on a scrap piece of plywood reads "Do Not Enter." At the Route 25A entrance to the new highway, there are no barriers for the first



**Outer Space . . .**

(Continued)

microscope and from these a mutation rate can be calculated. A control sample of *Tradescantia* on board the biosatellite will be exposed to the same effects of weightlessness, but will be in a special compartment shielded from the radioactive source. Comparisons will be made with the ground-based control and irradiated specimens. Any differences in mutation frequencies observed can then be attributed to weightlessness, decreased gravity, or other environmental stresses associated with the flight. The Biosatellite will provide weightlessness of 1/100,000th or less of the Earth's gravity.

Biosatellite II, a seven-foot long, 940-pound space craft, will carry a total of 13 biological experiments in a 196 mile circular orbit around Earth for three days. It will be launched by a two-stage Thrust-Augmented Improved Delta vehicle. The four-foot blunt, 440-pound re-entry vehicle will re-enter the Earth's atmosphere over the Pacific Ocean, deploy a parachute and radio its position. Plans call for the capsule to be recovered in mid-air.

Initial examination of the experiments will take place at Hickam Air Force Base, Hawaii by Arnold Sparrow and Lloyd Schairer, with Kodumudi Marimuthu, who flew to Hawaii to set up a lab for this examination. After this, the scientists will return the experiments to BNL for detailed study in the months ahead.

200 feet of the access road and then another small sign reading "Do Not Enter - Road Closed."

Accordingly to State officials, the job is scheduled for completion on December 20, but there is some reluctance to predict if this date will be met. After the road is finally accepted by the state, Suffolk County will come in and paint the lines on the road, and install traffic signs before the road will be officially opened.

Until the road is opened, policing of the construction will be the responsibility of the contractor, and county police will not give tickets unless at the request of the private patrolling agency.

**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:

As many BNL North Shore commuters are now aware, the already irritating situation concerning the use of the unopened section of the William Floyd Parkway has taken a new and worse turn. For months this section has been allowed to sit unfinished, when a week at most of touch-up work is all that remains undone. The existing alternative routes are not only inconvenient, but are badly in need of repair. For most of this summer, passage on them has been hampered by construction and flooding. Officials responsible for completing the new road are indifferent and evasive.

This situation has been barely tolerable because many commuters have proceeded to use the road as it stands. Although officially closed, this practice has not been overly discouraged until recently. On Wednesday, August 30, Suffolk County police appeared and began handing out summons for "driving on a restricted road." I received such a ticket and I believe a great many other BNL people did also. The time has come for these people and all others inconvenienced by the excessive delay to protest. If everyone interested in pushing completion of this road and avoiding a mass exodus of victims to court would write or call the *Bulletin Board*, perhaps we could collectively succeed in waking up those bored officials.

—David D. Brayshaw

**Arrivals & Departures**

**Arrivals**

David W. Booker.....	Plant Maint.
Albert M. Casper.....	Accelerator
Guy Daelemans.....	Accelerator
James A. Holland.....	Instr. & H.P.
Mitsuru Hoshi.....	Medical
Richard L. Jackson.....	Biology
Paul Kennedy.....	Central Shops
Alan V. Kuehner.....	Instr. & H.P.
Benny E. Lautrup.....	Physics
Teh-Yung Liu.....	Biology
John H. Maddock, Jr.....	Accelerator
John S. O'Neill.....	Physics
Clarence C. Pittenger.....	Applied Math.
Donald M. Rose.....	Plant Maint.
Louise Solfaro.....	Physics
Nils L.G. Stromberg.....	Nuc. Eng.

**Departures**

John C. Alderman.....	Accelerator
Michael J. Attardo.....	Nuc. Eng.
Allan L. Bednowitz.....	Chemistry
Bernard T. Bertman.....	Physics
Jean O. Bertman.....	Medical
Guy Blaudeau.....	Biology
Haywood Blum.....	Physics
Kathryn E. Carlson.....	Biology
Roger W. Carlson.....	Biology
Ira M. Collier.....	Accelerator
James A. DiCarlo.....	Physics
Murray J. Ettinger.....	Biology
Sheldon Fuchs.....	Accelerator
John J. Golden, Jr.....	Physics
Barbara C. Jazombek.....	Physics
Marianne F. Kreiling.....	Medical
James O. Martin.....	Biology
Bernard Mozer.....	Physics
Charles H. Nauman.....	Biology
Regina Ann Nordstrom.....	Biology
Barbara Ann Norman.....	Accelerator
Jerry L. Pietenpol.....	Physics
Carroll A. Quarles, Jr.....	Physics
Walter H. Reed.....	Reactor
Carole J. Saurino.....	Applied Math.
Ernest Spinelli.....	Accelerator

## Conference Humor

—Jerry Sadofsky

They often say that humor is difficult to put into the written word. What tickles the laugh faucet on one person may only cause another to titter, while still a third emits only a grunt.

Everyday life, however, produces some of the most natural humor. Comedians like Sam Levinson and Alan King can bring forth steady streams of mirth by relating family tales to which the listener can associate.

This column will attempt to search out that strange element which will be referred to here as "scientific humor."

Just sitting at the rear of any conference room during some long dissertation and watching the audience has brought forth more than one humorous moment.

Sleep is the first sense that often overtakes the audience. In fact, one noted scientist seeks out at least two lectures a day just to catch up on elusive sleep. He can be seen behind his lab sunglasses propped into a chair in a position of deep thought, although in reality he has long since arrived in the arms of Morpheus.

The classic tale is told of the Program Chairman who doubled as a slide projectionist and fell fast asleep between slides 2 & 3.

I never realized the true use of pocket chess sets until midway through a recent long lecture. The rear two rows resembled the Marshall Chess Club with several Bobby Fischers attacking each board.

Finally, the speakers themselves are often the evokers of the most humor. So many types exist that they are just too numerous to adequately describe.

However, a few classic examples have been viewed by all. I've always wondered what the speaker has to hide when he crams a single minute equation into the middle of an otherwise blank slide or fills the slide with one long run-on equation and calls, "next slide please" just about the time you can read the first two symbols.

Many a projectionist has been driven to the brink of homicide by the mismarked or out of order slide. But, how about the lecturer that continually asks for slide 8 when he has only 7 or slide 1 when that's the one he left in his upper left hand desk drawer.

My favorite, however, is the speaker I choose to call "Mr. Electronics." He seems to be continually fighting the sound equipment. He either gets twisted in the mike wire, produces continuous feedback or whispers and shrieks alternately thus producing a completely inaudible series of major points. Come to think of it maybe that's what he was trying to produce in the first place.

## Football Notes

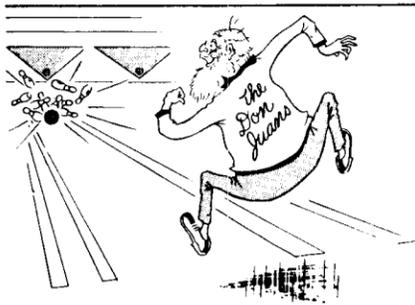
by Jack Brennan

The 1967 touch football league opening day produced the following results: The Slow Pokes outlasted AGS 30-24. F. Humphrey, S. Feldberg of the Slow Pokes and B. Boylan, J. Capute of AGS scored two T.D.'s each. The 1966 champs, the Batmen, beat the Panthers 24-12 with R. Lorelli playing a major role. A balanced Old Timer attack walloped the Chamber Chaps 49-6.

	W	L
Old Timers	1	0
Batmen	1	0
Slow Pokes	1	0
Kickers	0	0
AGS	0	1
Panthers	0	1
Chamber Chaps	0	1

## FUN and FACTS

About Bowling.....by Dick Ericson



**The Release:** Freedom from boredom and tensions is automatic in a fun-filled bowling center. Glee and exuberance explode quite naturally.

**The Release:** The ball is released by removing the thumb first. Fingers remain in the ball momentarily, providing the lift that produces a forward, or side roll. This role determines the effectiveness of the ball when it hits the pins. The fingers, in a sense, are the crowning touch, and the thumb must be released first to enable the fingers to lift the ball.

## BNL Amateur Radio Club

The monthly meeting of the Brookhaven National Laboratory Amateur Radio Club was held August 10th at the Recreation Hall with many members attending. A film was shown entitled, "Semiconductor Physics" and a lively discussion followed concerning a net frequency on the 2 meter FM band. The repeater in Manorville makes it possible for communication between the amateurs of the club for rag chewing, emergency or civil defense.

A new member, Jack Birnbaum, has joined our ranks and John Slavik has passed his Novice.

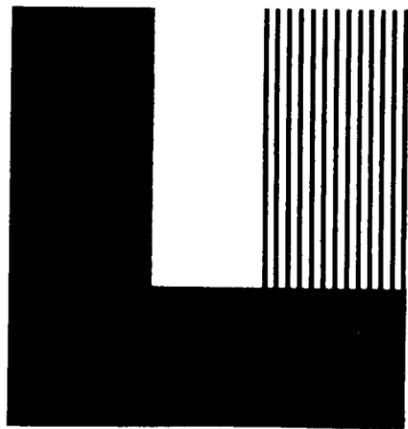
At this writing, the concrete has been poured for our 72 foot tower installation, and hopefully it will be up before the next monthly meeting.

Until Thursday, September 14th, at 20:00 hours, our next monthly meeting, 73. Harold.

## Rifle Club Meets Tonight

The BNL Rifle & Pistol Club will meet at 2000 on September 7, in the Recreation Hall. For information, call Joseph Gatz, Ext. 7232.

# Help them all ...all at once!



**UNITED FUND  
OF LONG ISLAND, INC.**

## Change in Telephone Service

On August 31, 1967 there was a return to the "Dial 79" Ronkonkoma trunks. Telephones in the local area will continue to be reached by dialing 9.

The change-over is merely a dividing of paths for out-going calls. A total of 10 new trunks will be installed to take care of the change, and, while effecting an economy for the Laboratory, will in no way effect a loss in service for the employee.

As of August 31, Dial 79 to place calls to:

Bayport	- 472 HR2
Blue Point	- 363 EM3
Central Islip	- 234 582
Ronkonkoma	- 585 JU5 588 JU8
St. James	- 584 JU4 862
Sayville	- 567 589 LT9
Setauket	- 246 751 941
Smithtown	- 265 AN5 724 360
Stony Brook	- 246 751 941

Local calls will continue on the Dial 9 service:

Bellport	- 286 AT6
Center Moriches	- 878
Mastic	- 281
Patchogue	- 289 AT9 475 GR5
Port Jefferson	- 473 HR3 928
Riverhead	- 727 PA7
Selden	- 732
Shoreham	- 744
Wading River	- 929
Yaphank	- 924 YA4

## Safety Note . . .

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

## Fish Tales

by John Tagliavia



If you're looking for big blue action, try fishing one-half mile South of Cerberus Shoal in Montauk. It's about a five mile run, straight out the inlet. We clobbered 63 choppers there last Wednesday in sixty-five feet of water on an outgoing tide. We trolled slowly, using 350 feet of wire tipped with 30 feet of 60# test monofilament. The most effective lure was a yellow jiggitel with white pork rind. After 3½ hours of hauling fish that averaged 11 pounds, we were easily identified in a crowd by our disfigured left arms. Blues however are only one part of the action at Montauk at the present time. Those giant porgies that I've been telling you about are running amok along the South side in about fifty feet of water. Squid or clams are the best bait while drifting on an outgoing tide.

Weakfish, porgies and kingfish can still be found in fair supply on the East side of Jessups. Bluefish action has been sporadic around Buoys 9 and 11 and Cranes Neck. Moriches flounder fishing, according to the signs, shows real promise for the Fall. And, last but not least, Karl Klamut is taking school size bass 'somewhere' on the South side.

If you're looking for a return to your boyhood days, spend a little time with your offspring in search of the wily snapper that inhabits many of the quiet bays and salt water ponds that abound on both North and South shores. There's something about a cane pole and a disappearing bobber that can put you on an equal par with your eleven year old. Take off your shoes and socks, roll up your pants, and wade right in. It's easy.

## Brookhaven Lecture Series

Wednesday, Sept. 20, 8 p.m. Lecture Hall

**Information Theory and Biology:  
A Critique and Resynthesis**

H.A. Johnson

Dr. Horton A. Johnson of the Medical Department will give the next Brookhaven Lecture, "Information Theory and Biology: A Critique and Resynthesis," at 8:00 p.m. on Wednesday, September 20, in the Lecture Hall.

During the past one hundred years, so remarkable for the profitable interaction between experiment and mathematical theory in the physical sciences, the science of living matter has progressed without the help of a general quantitative theory, stubbornly resisting attempts at theorizing and mathematical model building. At the close of World War II, biologists were confident

2-208-64



that the concepts of cybernetics and communication theory, seemingly so ideally suited for the mathematical description of living things, would at last lead the life sciences into quantitative maturity. Twenty years later these hopes are unfulfilled. After much effort and many texts, journals, and symposia on the subject, it is questionable whether this system of theory has yet been of any practical help to a man in his laboratory.

Dr. Johnson will review the history of these developments, will try to analyze the current impasse, and will suggest some new directions in which information theory could evolve to become a useful general calculus for living systems.

A buffet supper will be served at the Brookhaven Center before the lecture from 6 to 8 p.m. Reservations should be made by calling Extension 2453 before 5:00 p.m. on September 20. Refreshments will be available in the Exhibit Hall after the lecture.

## Folk Dancing

If you are taking a vacation overseas, have been invited to a party or a wedding, or just feel like trying something new and different, here is your chance to learn to dance like one of the natives.

The Brookhaven Folk Dance Group will teach you a syrto, a hora, a kolo, or the krakowiak, or any of hundreds of other dances from all over the world. Every Wednesday, 8:00 p.m., at the Recreation Hall in the Apartment Area.

## Classified Advertisements

### Autos & Auto Supplies

57 FORD - 4 dr sedan, all power, good tires, radio, inspected June, good running cond. \$75. Ext. 7493.

60 DESOTO - 4 dr sedan, white, auto trans, ps/pb, r/h, good cond, new muffler, shocks & tires, 2nd owner. \$275. H. Elias, Ext. 524.

65 CHEVY II - 4 dr sedan, auto, 6 cyl, snow tires, owner leaving country. \$850. P. Dornan, Ext. 7656, 924-5045.

65 HONDA C-110 - 50 cc, black, excel cond. \$150. 878-0286 after 5 pm.

66 BRIDGESTONE - 175 cc, orig owner, 2000 mi, extras. Ext. 2131, 732-3135 after 5:30.

65 RAMBLER 550 CLASSIC - Sedan, aqua, 6 cyl, std, 30,000 mi, orig owner, naugahyde interior, sacrifice, must sell - illness. \$1095. Ext. 2588.

6.58x15 TIRES - 2 Goodyear, used only 1000 mi. \$13 ea or \$25 both. J. Figuera, Ext. 7266.

66 HONDA SUPER HAWK - Excel cond. \$550. Ext. 7400, 277-3199 after 6 p.m.

61 MERCURY - Conv, total power, clean, leaving shortly for college, must sell, all offers considered. B. Petersen, Ext. 2248, 286-1366.

58 CHEVROLET - Station wagon, auto trans, good cond. Rivas, Ext. 7364.

53 CHEVROLET CARRY ALL - Good cond. \$100 or trade for trail or mini bike. E. Meier, Ext. 2969.

60 MGA 1600 ROADSTER - Orig owner, 39,000 mi, used very little in recent years, unusually good, solid cond throughout. \$550. Barnes, Ext. 2393, 724-3035.

65 MUSTANG - Auto, 6 cyl, r/h, ps. \$1500. Louise, HR3-6958, Ext. 2245 after 4 p.m.

55 CHEVROLET - 283 Corvette engine, 3 speed Hurst trans, chrome flywheel, duel points, Mallory ignition. Asking \$210. Bob, Ext. 2258.

63 CHEVROLET BELAIRE WAGON - Auto, ps, r/h, good w/w tires, 1 yr warranty on new trans & muffler. Asking \$950. SH4-6653.

65 CHEVROLET CAPRICE - 4 dr, vinyl top, fully equipped, low mileage, excel cond. \$1750 firm. AT6-9055.

59 OLDSMOBILE 98 - Auto, ps/pb, good body, running well. \$50. Ext. 7392.

57 FORD - 6 cyl, 2 dr, green, std shift, needs new generator, new radiator, new owner with best offer. R. Strand, Ext. 7658, LT9-1889.

65 TRIUMPH 1200 - Conv. \$675. T. McMahan, 281-7494.

64 VOLKSWAGEN BUS - P. Ettari, Ext. 2407, 273-6436.

58 CHEVROLET - 2 dr, good & reliable. P. Ettari, Ext. 2407, 273-6436.

65 HONDA - 305 cc, black, garaged, luggage rack, windshield, terrific cond. 878-1247 after 6 p.m.

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

4 SUPER SPORT HUB CAPS - Best offer. Bob M., Ext. 309.

1941 LINCOLN ZEPHYR V-12 LIMOUSINE - Body & mechanics excel, new brakes, 9 new tires, orig upholstery. Ira, HR2-0215 after 7 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.

### Boats & Marine Supplies

OWENS SPORTY 22' CABIN CRUISER - Sleeps 2, galley, enclosed head, outriggers, all new canvas, excel cond, must be seen. \$1,295 firm. Evonne, Ext. 7200, AT6-3928.

2 MAN RUBBER RAFT - New, air pump, patch kit, aluminum oars incl. \$37. H. Richardson, Jr. AT6-8610.

64 STARCRAFT 9' PRAM - Aluminum hull, styrofoam flotation, salt water rated, complete w/oars, locks, ropes, \$70. Buhl, Ext. 354.

24' CRUISING SLOOP - 4 berths, galley, head, end of seasons opportunity. Asking \$2,500. G. Cox, Ext. 2179.

SNARK - Bluefish size, mfg by O'Day, w/sail & trailer. 751-3781.

### Miscellaneous

COMPLETE BIRD CAGE - W/floor stand. \$4. Ext. 597, AT6-0436.

PATCO 24" SPREADER - Good cond. \$6. Mildred, Ext. 7752.

8" TABLE SAW - New blade, no motor. \$15. Dick, Ext. 7215.

PORTABLE GE 14" TV - 1 yr old, perfect, \$65 firm; pr black Spanish candelabra lamps, silk shades, \$25/pr firm. Ext. 2874.

CONTEMPORARY HIDE-A-BED COUCH - 7' long, Scotchgard covered, 3 yrs old, good cond, good buy. \$250. G. Tanguay, 928-1941.

7 PIECE DINETTE SET - Beautiful walnut formica table top, 2 captain's chairs, tan & bronze. Cost new \$170, best offer. Al, Ext. 7142, 273-5574.

2 SURF CASTING FISHING POLES - 1 piece, 11 1/2', new. \$18 ea. H. Richardson, Jr. AT6-8610.

GUILD GUITAR - W/carrying case, excel cond & tune, steel strings, hollow body, model A-50. \$150. G. Baker, AT6-1218.

HAM BAND RECEIVER - Commercial looking HBR-16, w/coils for 4 bands, receives SSB well, w/3 band trap, vertical antenna. \$80. Buhl, Ext. 354.

2 METER HAM STATION-MOBILE - Heath "Twoer," dual stacked halos, 12 v power supply, all cables. \$50. Ext. 354.

CAMPING TRAILER - 1967 Cox Campsquire, sleeps 6 adults, accessories incl, convertible table & screen door, used 3 wks. Buhl, Ext. 354.

HORSE - Black gelding, beautiful, English trained, spirited, friendly, girl's pet, must sell, college bound. Adele, 286-1087.

GE 36" ELEC STOVE - Stainless steel top, good cond. \$30. Mildred, Ext. 7752.

ALUMINUM TENSION SCREENS - 1-36"x51", 2-20"x55", 2-28"x39". \$2 ea. Ext. 2515.

HANGING WALL DESK - For school child. \$15. Ext. 2515.

CHILD'S SKIS - W/Cubco bindings, good for 7-10 yr olds. \$10. AT6-0741.

SYLVANIA M-2 FLASHBULBS - In cartons. 60¢/doz. Ext. 2430.

WALL TENT - 16'x20", good cond, w/full fly & heavy tarp floor. \$85. McGrann, Ext. 7387.

LAWN MOWER - 21" Jacobson reel type, 2 cycle, self-propelled, good cond. \$30. J. Walker, Ext. 2154.

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

YARD SALE - Household furnishings, a little bit of everything, 51 Rose Ave, Patchogue, Sept 6, 7, 8, 9, 10.

OIL PAINTING SET - In case, incl paints, brushes, easel, etc, used twice, good for beginner. Cost \$14.50 price \$7. Ext. 2430.

MICROSCOPE - Gilbert, triple turret, 75-250-500 power, incl 3 boxes of prepared slides, excel cond. \$7. Ext. 2430.

TRUMPET - Getzen, purchased spring '67, used only 2 or 3 times, absolutely in brand new cond. \$90. Bill, Ext. 2393, 724-3035.

PLAYPEN - Lg net type, \$10; 2 baby seats, \$3 ea. Brian, Ext. 7281.

FREE - Bendix auto clothes washer, works OK, has not been used for approx 5 yrs. JU5-8322.

BATH TUB - 5', LH drain, white, almost new, incl some trim. \$25. JU5-8322.

MEAT SLICER - W/grinding attachment, brand new, \$6; Doremeyer mixer w/extras, \$10. Dick, Ext. 7215.

DOUBLE BOWL SINK - 54", complete w/knotty pine base cabinet, formica top, hardware & fittings. \$20. Clarence, Ext. 566, LT9-4538.

ODDS & ENDS - Mailbox, garden chairs, diaper pail, hassock, playpen, throw pillows, grass seed, waffle iron, aquarium, much more. 50¢-\$5. 744-2480.

WASHING MACHINE - Kenmore, 8 yrs old, needs some work, motor in excel cond, Best offer. 744-2480.

EXPO '67 TICKETS - 7 day youth passport. \$8. AT6-8517.

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

HAM RADIO STATION NCX-3 - CW, AM, SSB, AC power supply, built-in speaker, microphone, antennas. Nick, Ext. 2193.

RCA 16" PORTABLE TV - Excel cond, \$60; crib, \$15. Ralph, Ext. 7352.

DISSTON POWER MOWER - Professional type, self powered, 6 hp Briggs & Stratton, recently overhauled, works well. Asking \$35. AT9-1339 after 6 p.m.

STORM & SCREEN COMBINATION - 32x39, aluminum. Ext. 2515.

TENNIS RACQUET - Wilson Tony Trabert, medium wgt, gut strings, 3 yrs old but little used, excel shape. Orig. \$28, sell \$9. Ext. 515.

### Houses

FLORIDA COTTAGE - Ideal retirement retreat, near West Palm Beach, beautifully landscaped. B. Petersen, Ext. 2248, 286-1366.

BELLPORT VILLAGE - Split level, 3 bedrms, panelled liv rm, play room, near schools. \$14,000. AT6-8981.

BROOKHAVEN - 8 rms, 1 1/2 baths, colonial on bulk-headed lot, priv dock in rear, fine view of Bay in front, double garage, play area. \$33,000. AT6-0322.

CENTEREACH - Hi-ranch, 7 rms, 1 1/2 baths, double garage, w/w carpeting, s/s, landscaped, transferring, sacrifice. E. Cranmer, 732-2936 after 5:30.

BROOKHAVEN - New house, 15 min from Lab, 6 rms, 2 baths, fireplace, finished basement, attached garage, lg treed area. \$20,000. Jim, AT6-0024 after 6 p.m.

SHOREHAM - Must sell, leaving LI, will consider any reasonable offer, 4 bedrm custom ranch, play room, 2 baths, fireplace, air cond, wooded 1/2 acre, many extras. 744-2480.

MIDDLE ISLAND - Will sell or rent, 2 bedrm ranch, finished basement, baseboard hw heat, carpeted throughout. 924-5221.

NORTH PATCHOGUE - 3 bedrm ranch, finished basement, fireplace, panelled liv rm, 1 1/2 baths, near schools, bus stop. \$15,500. 475-4627.

NORTH BELLPORT - Ranch, 3 bedrms, tile bath, oil hot water, fireplace, huge liv rm, lg kitchen, full basement. \$13,500. 286-9639 after 5:30.

EAST PATCHOGUE - Ranch, 3 bedrms, attached garage, w/w carpeting, s/s, double ent. \$15,000. GR5-7538.

### For Rent

FURNISHED HOUSE - 2 bedrms, w/garage, E. Patchogue. \$130/mo. Iwai, Ext. 2885.

1 BEDRM COTTAGE - Bellport Village, charming, furnished, good location, recently remodeled fireplace, avail 9/9. Ext. 7387, AT6-1221.

TENT - For week or weekend. 273-6436.

3 RM APT - Shirley, near shopping, 6 mi from Lab, furnished, util incl except elect, 2 bedrm optional at higher rent. \$100/mo. Ext. 467, 281-5244.

4 BEDRM RANCH - Shoreham, play room, 2 baths, fireplace, sun deck, 2 car garage, air cond, wooded 1/2 acre, beach rights. 744-2480.

FURNISHED COTTAGE - E. Patchogue, bedrm, liv rm, kitchen, bath, garage, mod, avail end of Sept. \$108/mo. AT9-1316.

BUNGALOW - Fully furnished, util, Blue Pt, avail immediately. Mrs. Kopp, Ext. 2719, EM3-6174.

### Wanted

JUDO UNIFORM - Sm size, for girl about 5'1", reasonable price. Bob M. Ext. 309.

ANYONE INTERESTED IN SCOUTING - Bellport-Brookhaven area, need asst scout master. Ext. 597, 353.

PEOPLE - Interested in forming or joining "group" subscribers to "Consumer Reports." J. Ferrer, Ext. 7407, 878-0792.

MINI-REFRIGERATOR - 4 cu ft maximum. Lois, Ext. 7208.

SINGER SEWING MACHINE - Good working cond, must have straight stitch & zig zag, w/cabinet. Claire, Ext. 2131.

GIRL'S BICYCLE - 20" frame, prefer w/training wheels, must be in useable cond. Bob, Ext. 7633.

BICYCLE - Girl's 20" or 24" frame. J. Reilly, Ext. 2520.

LG TRICYCLE - For 11 yr old retarded boy. Mildred, Ext. 7752.

WOMAN - For light housework on Mon, all day or afternoons. AT6-0741.

BABYSITTER - 3 afternoons per wk at my home. HR3-1569.

DRUMMER - For rock-roll group, Patchogue-Brookhaven area, any age. Ernie, AT6-0436.

SILVER DOLLARS - Paying \$1.30 ea; silver certificates, \$1, \$5, \$10, paying 20% above face value, any amt. S. Wagner, Ext. 618.

MUSICANS - Interested in forming dance band group. Herb, Ext. 2934.

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

TO RENT - 2 or 3 bedrm house, unfurnished, E. Moriches or vicinity, by 10/1. Ext. 2714.

### Carpools

PAYING RIDER - Wishes to join carpool from Lake Ronkonkoma. C. Wawrusin, LR5-7581, 585-3532 after 6 p.m.

2 RIDERS/DRIVERS - To complete existing carpool from Bellport. J. Binnington, Ext. 2294.

DRIVER WANTED - To complete existing 5-member carpool from Riverhead. Pat, Ext. 7691.

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

DRIVER - To form 2 member informal carpool from Patchogue. Lee, Ext. 7477.

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

PAYING RIDER - Wishes ride 3 days/wk, Tues, Thurs, Fri, Smithtown Blvd, Nesconset. Bob, Ext. 2167, 585-4973.

### 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.

- For Sale: Auto & Auto Supplies  
 For Sale: Boats & Marine Supplies  
 For Sale: Miscellaneous

- For Sale: Houses  
 For Rent  
 Wanted

- Carpools  
 Check  the heading applying to your ad.  
 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