



In the main control room early Monday morning when the AGS proton beam went over the top, are: from left to right, operations coordinator George Cornish, operations Ernest Schmitt and Bill Taylor. —photo by Rosen

## 10<sup>13</sup> Is Reached At AGS

A goal long sought was achieved when the AGS proton beam reached a new peak of intensity Monday morning at 4:45 a.m. -  $1.033 \times 10^{13}$  protons per pulse (equivalent to 17 picograms of hydrogen).

This is a record for the AGS and a goal the staff of the AGS Division, headed by Lyle Smith, has been working on since the completion of the conversion five years ago.

During the fiscal year 1974,  $290 \times 10^{17}$  protons were accelerated and the following year increased to  $350 \times 10^{17}$  protons. The present level of productivity is  $290 \times 10^{17}$  protons, which is well ahead of last year's rate in the same period.

In the pursuit of greater productivity, the barrier of  $10^{13}$  protons per pulse was

breached during a normal run early Monday morning. The Linac current was increased to 67 milliamperes and this was sufficient to push them over the top.

John Keane, assistant division head, praised the entire staff. "It isn't any one person's achievement," he said. "We've all been working toward it for a long time."

According to Y.Y. Lee, operations head, "if accelerator performance is measured by physics output, we have to increase the number of protons delivered to the physics experimental area. The average intensity on last weekend's shift was  $9.4 \times 10^{12}$  protons per pulse and now we want to have a routine average intensity over  $10^{13}$ ."

## On The Move With DAS

With the continued expansion of programs in the Department of Applied Science, Joseph M. Hendrie, Chairman, has recently announced the appointment of two additional Associate Chairmen and the establishment of a major unit, the National Center for Analysis of Energy Systems (NCAES).

David H. Gurinsky has been named Chairman for Chemistry and Materials Programs. Kenneth C. Hoffman will assume the post of Associate Chairman for Energy Programs and will also head the new Center.

Gurinsky has been a staff member of the Laboratory since 1947 and has been in charge of its metallurgy and materials research. Hendrie noted that "much of the design of the large machines constructed at Brookhaven has been influenced by his expertise and his research efforts have been an important part of the Department's programs." Gurinsky gained valuable early experience in his field as a member of the Metallurgical Laboratory of the Manhattan District at the University of Chicago, and later at the Los Alamos Scientific Laboratory.

The units under his jurisdiction include the Molecular Sciences Division headed by Donald J. Metz; the Radionuclide Development Division (formerly Hot Lab Div.) - Louis J. Stang, Jr.; Reactor Materials Science Group - John R. Weeks and the Metallurgy and Materials Sciences Division with Gurinsky as Acting Head.

Kenneth Hoffman came to Brookhaven in 1956. A registered professional engineer, he has been active in engineering research and development, with particular emphasis on energy systems programs. Before joining the Laboratory staff, Hoffman was an engineer at Gruman Aircraft and spent two years in the U.S. Air Force.

As Associate Chairman for Energy Programs, he will supervise the activities of the Engineering Division, headed by Robert J. Isler; the Energy Storage and Conversion Division under Frank J. Salzano and the Fusion Technology Group led by James R. Powell.

The organization of the National Center for Analysis of Energy Systems, which Hoffman will also head, is dealt with separately (see box).

The appointments of Gurinsky and Hoffman complete the reorganization of DAS into four major areas: Chemistry and Materials, Energy, Environmental, and Safety.

Bernard Manowitz will continue as Associate Chairman for Environmental Programs and will oversee the Oceanographic Sciences Division, headed by John S. Walsh; the Atmospheric Science Division - Paul A. Michael; the Process Technology Division - Meyer Steinberg; Land and Freshwater Environmental Sciences Group, with Manowitz as Acting Group Leader; and the Analytical Chemistry Group - Leonard Newman.

Under the jurisdiction of Walter Kato as Associate Chairman for Safety, will be the Thermal Reactor Safety Division headed by Melvin Levine; the High Temperature Gas-Cooled Reactor Safety Division under Donald G. Schweitzer; and the Fast Reactor Safety Division with Kato as Acting Head.



David H. Gurinsky

## New Energy Center

With energy as one of the major problems in the world, the National Center for Analysis of Energy Systems (NCAES) has been established in DAS to assist ERDA in devising and carrying out energy programs which will be responsive to varying needs.

Recognizing that energy programs comprise many factors, including technological, economic, social and environmental, the Center's approach will be complex and interdisciplinary. Under the leadership of Kenneth C. Hoffman, the units that will work together in the Center, and their respective heads are:

Policy Analysis Division - Philip F. Palmedo

Economic Analysis Division - William Marcuse

Biomedical and Environmental Assessment Division (a joint DAS and Medical Dept. program) - Leonard Hamilton

Technology Assessment - Morris Beller

Energy Data and Models Group - Murrey D. Goldberg for energy data, and Ellen A. Cherniavsky for energy models.



Kenneth C. Hoffman



Dick Hill on Track 1. He's not waiting for the train to come in, just resting during a tour of the area.

## The BNL RR

Some twenty odd years ago, train whistles could be heard every day on site, particularly during the winter. At that time, the Laboratory was coal-fired and hundreds of carloads of coal were brought in by train each year. The Laboratory converted to oil in the early fifties, but coal was still needed for some coal burning facilities, such as the apartment area, as late as 1960.

Here, as in so many other places, the train whistle is almost just a memory. It's still around, but not heard as often as it used to be. What may be a surprise to many is that Brookhaven's approximately two

miles of track are still in use. "In fact," says Dick Hill, Purchasing Services Administrator, "for the transport of certain items, Brookhaven's siding is an absolute necessity."

To date, about 50 million pounds of steel for radiation shielding at the AGS have been shunted onto Brookhaven's siding. For transporting the shielding and other heavy equipment, the railroad is essential. Trying to truck it in would be economically impractical.

Upton is on the books as an official freight station. There is a switch out on the main line of the LIRR and from that point in, the tracks are owned by the Federal Government. It is Brookhaven's responsibility

to maintain the tracks and switch.

The tracks were first built for Army use during World War I when part of the Lab site was an Army training camp. During the construction of Camp Upton, record numbers of passengers and tons of freight arrived and departed on this spur. According to old records, the average unloading was 55 cars per day. No doubt Irving Berlin, who commemorated his experiences at the camp in song, was shuttled in and out on one of the troop trains.

Since 1969, shipping at Brookhaven has been one-way only. Goods are received, but nothing is shipped out. It was not always thus.

Shipments of radioactive waste used to go out to Oak Ridge by rail. In 1963, 34 carloads of waste (weighing about five million pounds in concrete containers) left the Laboratory bound for Oak Ridge. Up to that time, it was one of the largest shipments of

nuclear waste ever made in the country. It was a special run and no other freight was included. The waste was taken by rail through Long Island City and then transported by car float down the East River and across the Narrows to Greenville, N.J., where it resumed its journey by rail to Oak Ridge. Similarly, a heavy duty flat car was adapted for transporting the expended fuel shipping casks from the Brookhaven Graphite Research Reactor to Idaho.

Transportation by railways was discontinued in the mid-sixties when the nuclear wastes were rerouted to a plant in Kentucky which has no rail service. The spent fuel elements were also rerouted and it was considered more feasible, both operationally and economically, to ship them by truck.

As Hill says, the tracks have "peaks and valleys" as far as usage is concerned now. During the last ten years, some 350 cars (Continued on page 2)

### Molecular Politics

John D. Axe, Jr., Physics Department, will deliver the 133rd BNL Lecture on February 25, at 8:00 p.m., in Berkner Hall.

Concerning the title of the lecture, "Molecular Order, Anarchy and Revolution; Neutron Scattering Studies of Structural Instabilities in Solids," Axe says, "the political analogy comes to mind because a phase transformation is a dramatic catastrophically sudden change in the order of things. One can learn a great deal about a system by observing how it behaves under severe stress, at its extreme limit of stability. Neutron scattering is probably the most powerful tool we have to observe how these instabilities build up." In particular the lecture will deal with the unifying concept of a "soft mode" as a mechanism for effecting a phase transformation. In addition to illustrations from neutron scattering studies, there will be an exclusive Long Island demonstration of Dr. Zog's Amazing Phase Transformation Machine.

John Axe received a B.S. in chemistry from the University of Denver. At the University of California, his Ph.D. thesis was concerned with optical studies of the electronic structure of rare earth and transuranium elements. After a post-doctoral stint at Johns Hopkins University, he joined the IBM Research Laboratory, where his interests turned to studies of electronic transition probabilities and laser spectroscopy of solids and lattice dynamics. He spent a one-year sabbatical leave of absence at Brookhaven studying structural phase transformations by neutron scattering, and subsequently joined the Physics Department staff to continue this work.

In 1973 Axe and Gen Shirane were jointly awarded the Bertram Eugene Warren Diffraction Physics Award of the American Crystallographic Association for, "outstanding inelastic neutron scattering research on the dynamics of solid state phase transformations."

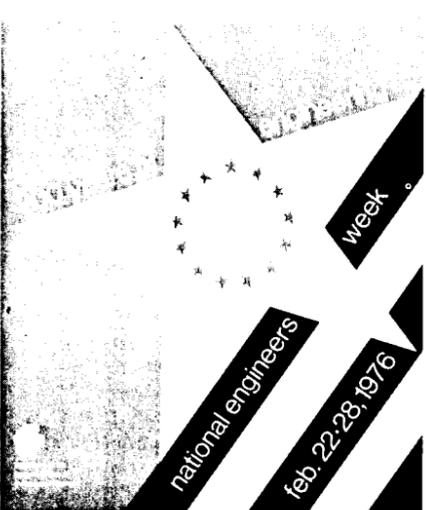
A buffet supper will be served at the Brookhaven Center before the lecture beginning at 6 p.m. Reservations should be made in advance by calling Ext. 3541 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the lecture.



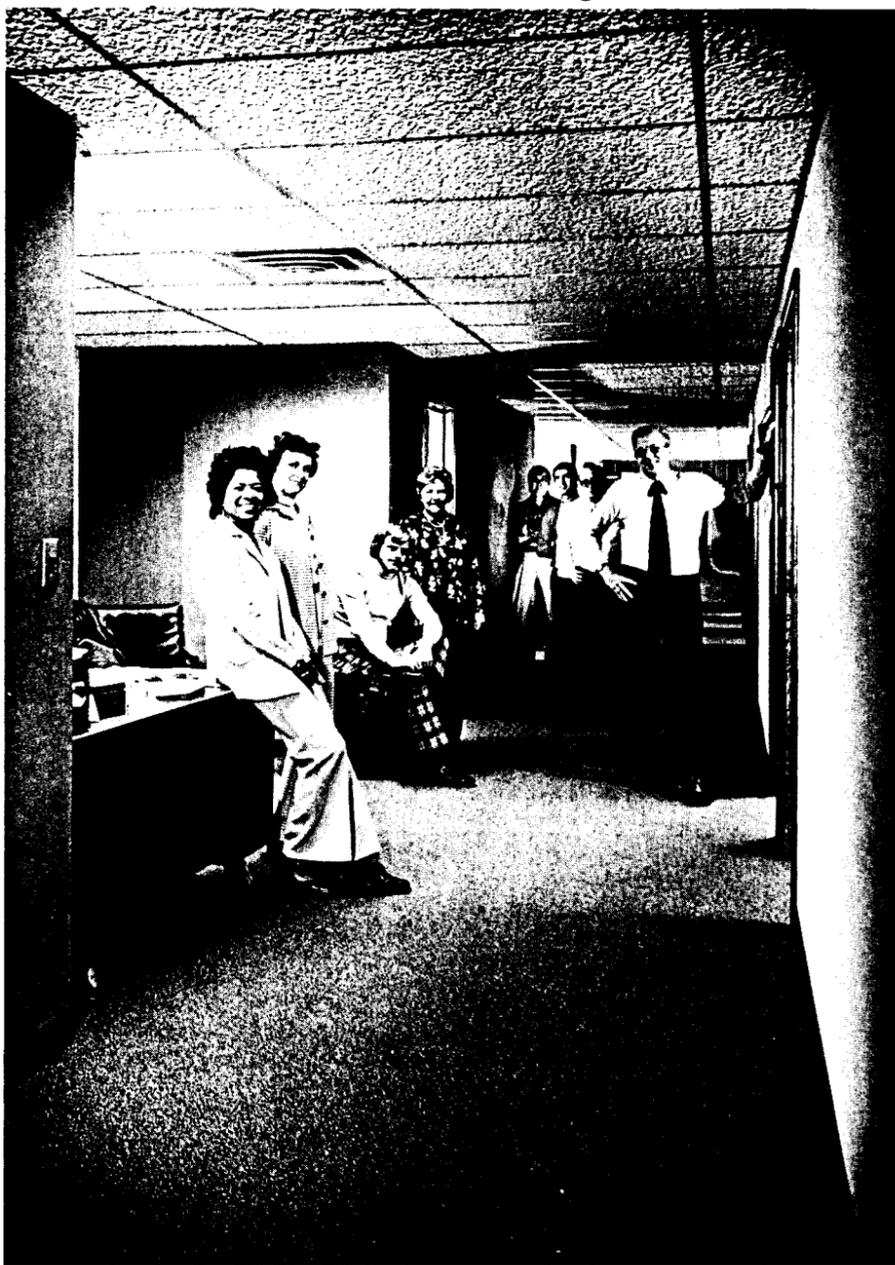
John D. Axe, Jr. —photo by Rosen

### Upton Nursery School

The Upton Nursery School still has openings for children three to four years old in its Tuesday/Thursday afternoon class which meets from 12 to 3 p.m. Interested parents should contact Linda Lynn 924-8329 or Marcia Littenberg 744-4789.



### Office of The Budget



After living for many years in small offices on the east side of building 460, the Budget Office has moved to more spacious quarters on the west side. A large area in the southwest wing that formerly housed old files and served as a catch-all for assorted debris, has been completely renovated and designed to fit the needs of an expanded staff. The walls are painted a bright, warm color which will lift sagging spirits as the staff puts together the mountains of paper required in the preparation of the budget. Pleased with their new offices are from left, Helen Caisey, Jean Tracy, Robert Von Hollen, Eleanor Murgatroyd, Robert Baldwin, Philip McHugh, Gerard Blackford, and Budget Officer Henry Grahn. Another staff member, Peter Bucci, was out sick the day this picture was taken.

An auto engine tune-up saves 15-20% in gasoline.

Remove heavy non-essentials from your car trunk, they add to fuel consumption.

On-site bank and post office closed on Monday, February 16, Washington's Birthday.

**Railroad** (Cont'd) containing about 35 million pounds of freight have been "spotted" on sight. Spotting is simply that. A sign which reads "spot" is put at a place on the track to notify the conductor where to uncouple the car for convenience of unloading.

The tracks are well traveled during peak periods of construction on site, such as the construction and conversion of the AGS, when the siding was made available to contractors.

There isn't a railway that hasn't had some derailments, and a few cars have jumped the tracks on the Brookhaven siding. But there was no serious damage and no injuries and as Hill says, "we just jack 'em up and put them back."

Upton is not a passenger station but Hill can recall one V.I.P. who arrived at Brookhaven by rail. When the Governor of New York, then Nelson Rockefeller, visited the site in 1962 during a tour of Long Island, he and this entourage arrived in a special train. If you have your own railway car, you can still come to Brookhaven by train.

Currently, the Laboratory has an agreement with LILCO that the company may use the siding to bring in heavy equipment, not suitable for truck transport, for their Shoreham plant. It is more convenient for LILCO as otherwise, the nearest station is at Port Jefferson.

So the tracks are not just lying there covered with weeds. They have played an important part in the history of the site and still have an active supporting role.

### Get Them While You Can

The curtain goes up tonight on the BNL Theatre Group's winter production, "You're a Good Man, Charlie Brown." Employees are strongly advised to buy tickets in advance because of the limited seating capacity of 150. Buy your tickets, and as soon as possible for the performances of Feb. 20 and 21. Very few tickets remain available for the matinee of Feb. 21.



Sharon Smith as The Little Red-Headed Girl.

### EMERGENCY PHONE NUMBERS

- Medical . . . . . 2222
- Fire . . . . . 3333
- Police . . . . . 4444

### Official & Special Events

- Monday, February 16  
Holiday - Washington's Birthday
  - Wednesday, February 18  
Navy Meeting
  - Thursday, February 19  
L.I. Bone Metabolism Group Meeting
- 
- Monday, February 23  
Workshop on Alternate Energy Systems - Berkner Hall - Rooms B&C (Feb. 23-28)
  - Tuesday, February 24  
Brookhaven Town Project Advisory Committee
  - Wednesday, February 25  
BNL Lecture - Berkner Hall - 8:00 p.m.  
ERDA Nuclear Physics Program Review
  - Friday, February 27  
Low Level Radiation Effects Meeting - Berkner Hall - Room A

### Cafeteria Menu

#### Week Ending Feb. 20, 1976

Monday, February 16	Snack Bar Service - 9 a.m. to 2 p.m.	
Tuesday, February 17	Cream of Chicken Soup	
	Franks & Baked Beans	1.00
	Chinese Pepper Steak on rice	1.25
Wednesday, February 18	Vegetable Beef Soup	
	Swiss Steak & 1 veg.	1.25
	<b>Special</b>	
	Tacos and French Fries - \$1.10	
Thursday, February 19	Puree of Mongol Soup	
	Spanish Omelet w/fr.fr.	1.00
	Short Ribs of Beef & 1 veg.	1.25
Friday, February 20	Seafood Chowder	
	Fish Cakes & Spaghetti	1.00
	London Broil & 1 veg.	1.25

### Diners Note

The Cafeteria will be closed on Saturday and Sunday, February 14 and 15.

The Center Club will have a snack bar open from 9:00 a.m. to 2:00 p.m. on these days.

The Vending Food Service in Building 912 will be in operation continuously.

Holiday snack bar service will resume at the Cafeteria on Monday, February 16, from 9:00 a.m. to 2:00 p.m.



Doug Gunwaldsen, DAS, puts the finishing touches on the bench for the Little Red-Headed Girl.



Supplying the music for the show are: Nancy Bernius (Biology) on the piano, and Bill Trigg (son of George Trigg, Phys. Rev.) at the drums.

## BROOKHAVEN BULLETIN

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### Rambling Around

These are bits and pieces picked up from here  
and there with occasional observations by the  
Editor:

● The town of Winsted, Connecticut is taking the edge off Friday the 13th. They will issue marriage licenses free today in observance of Valentine's Day when the Town Clerk's office is closed. So if you're planning to get married and are short of cash . . .

● It's the beginning of the end for the spinner of tall tales. When a Florida fishermen's group presents its bass-fishing tournaments, contestants have to take a lie detector test.

● If you are into games, here's one for the whole family to play. Designed by a researcher at the University of Wisconsin, it's called "Household Energy Game" and may be obtained free by writing to: Sea Grant, 1800 University Avenue, Madison, Wisconsin 53706.

### Bowling News

Cathy Van Noy

#### Pink League

Going into position night the "Pin-splitters" are still in the lead with the "Spares" a close second. Last week's loss by the "Fiscal Assets" put them out of contention.

#### Black N Blue League

With two matches left in the second third, the "Question Marks" have opened up a ten point lead. The "Fudpuckers" have sent their team captain down to Orlando farm club for more seasoning. High games were John Eriksen 210-209, Ellie Murgatroyd rolled a 169 and converted the 2-7-10 pin split. Audrey Bangel 163. Gross pots were won by John Eriksen 249 and Jean Sells 229.

#### Red League

"Congrats" this week to Scesny, Kollmer and Buzzeo for great bowling. Joe Scesny rolled a 223-213 for 605 scratch and 641 gross. Buzzeo rolled a 225-203 for a 595 scratch and 670 gross. Kollmer rolled a 223-205 for a 599 scratch and 668 gross. Other 200 games were N. Carter 208 and E. Meier 200.

#### Purple and White League

The "Sea Gulls" are still flying high with a 21-0 record. The "Question Marks" are a close second with a 15-6. Betty Roche now holds the league high scratch with a 487. Jim Petro had a 223-282 gross which is also a new high. Jon Scott rolled a 203-676 gross and Jerry Pringle rolled a 490 series which gave him a 676 gross. "Congrats" to the league for their participation in the BNL tournament with 84% entry. I hope J. Pringle comes in the money with his 724 and J. Lipman with a 660.

### Cooking Exchange

"Warm and Wonderful Soups" will be the subject of the next meeting of the BNL Cooking Exchange. Come and taste several terrific ideas for winter suppers. To volunteer your one favorite, call Marjorie Stone at 281-1169.

Date: February 18  
Time: 12:30 p.m.  
Place: Recreation Building  
Fee: 75¢ for materials  
Babysitting: 25¢/child  
See you there!

### Bicycle Meeting Reminder

A meeting to organize bicycle tours and races for the coming season will be held Tuesday, February 17, at 12:30 in Room A, Berkner Hall. Come prepared with suggestions for tour routes and race events.

### The Art Of The Wrap-Around



At a recent Hospitality coffee meeting at the Center, a talk on the traditions and the art of wrapping a Japanese kimono was given by Miyako Iizumi. At left, Mrs. Iizumi demonstrates the art to Evelyne Agoritsas (center) and Yoneko Ido assists.



Looking over a catalogue of Japanese kimonos are from left, Leah Gasser, Rashmi Singh and Yoneko Ido.

### Arrivals & Departures

#### Arrivals

Joseph S. Mauro, Jr. . . . . Plant Engrg.  
Jung J. Pyun . . . . . Applied Science  
James G. Vogel . . . . . Staff Services

#### Departures

John C. DeMarco . . . . . Photo & Graphic Arts

### Stony Brook Events

**Concert:** Folk Guitarist Pat McKernen, February 15, Stony Brook Union Buffeteria, 8:30 p.m.

**Lecture:** "The Patient's Right to Die, by Dr. Edgar A. Reed, Veteran's Administration, Washington, D.C., February 16, Building F, Room 147, Stony Brook South Campus, 8 p.m.

**Screening:** Free high blood pressure screening, February 17, H-Quad, 6 to 10 p.m.

**Lecture:** "Chemistry Between the Stars: New Organic Molecules are Being Found Every Month," by Prof. Phillip Solomon, February 20, Earth & Space Science Bldg., Room 001, 7:30 p.m.

### Look For The Bug-Eyed Monsters



Bug-eyed monsters and other interesting beings are some of the topics under discussion when the Science Fiction Club meets informally each Tuesday at noon in the Cafeteria. If you are a fan, or merely curious, you are welcome to join them. Look for the sign of the BEM (Bug-Eyed Monster) on one of the tables in the Cafeteria on Tuesday or call Alan Bieber, Ext. 2928, for more information.

## Classified Advertisements

### Placement Notices

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

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

33. SUPERVISOR - Electrical Maintenance and Operations, Plant Engineering Division.

### Auto & Auto Supplies

73 CHEVY - 4 dr Belair, steel belted radials. \$900. Joe W., Ext. 3082 at noon or 924-6348 after 5.

68 MERC MONTEGO - Wagon 302 V8, auto, ps/trailer hitch. \$500. Ext. 4547, 265-3731.

TIRES - Used & recaps, most sizes, also extra rims, some used alternators, starters & batteries. Ken, 289-8212 eves, no Lab calls!

67 FORD PICKUP - 8 cyl, standard, all new tires, 8' bed, good running cond, uses no oil, good body. George, 727-1267, 727-7724.

71 FIAT 850 - Sport spider convertible, 37,500 mi, fully equipped, Pirellis. Asking \$950. Nelson, Ext. 2048.

71 DODGE DART - 318, auto, ps/ac, new tires, brakes, excel cond, snows incl. Must sell. Donna, Ext. 2318, 751-8918.

67 PLYMOUTH FURY - Station wagon, auto, ac, needs some work. \$275. Bob, Ext. 3430.

71 EL CAMINO - V8, ps/pb/ac, vinyl top, Tonneau cover, ss hood & wheels, excel cond. \$2500. 475-2534.

72 FORD PICKUP - 1/2 ton, standard, V8, 6 1/2' bed, snows, rails, Tonneau cover, stereo tape, excel cond. \$2250. Ext. 4068, 298-5092.

66 CHEVY PICKUP - 3/4 ton, rebuilt 292 cu in, work horse engine, very good cond. \$550. 345-4207, Ext. 4207.

66 VALIANT - 6 cyl, auto, good mileage, leaving Lab 2/24. Ext. 4597 days, Ext. 3204 eves. \$350.

TIRES - 685-15" (3) & 645-13" (3), good cond. 475-0144 after 6.

71 DODGE VAN - B200, excel cond. Matt, Ext. 3935, 543-9128 or 864-5596 after work.

### Boats & Marine Supplies

22' GARVEY - Decked over cabin, fiberglas bottom, 40 hp Evinrude. \$800 or best offer. Pete, 744-3807.

20' SAILBOAT - Sleeps 2, 4 wheel trailer, winter cover, fiberglas bottom, \$800 or best offer. Pete, 744-3807.

WORK BOAT - Outboard, Novi, 1974, 26', 8' wide, draws 1', very large self bailing cockpit, teleflex steering, extras. \$950 or best offer. Pete, 744-3807.

CHRIS CRAFT - 30' Cavalier, twin 185 hp Cris Crafts, low hours, sleeps 6, depth finder, bilge sniffer, extras, \$5000 firm. 475-5526.

23' PEMBROKE - Sport fisherman, flying bridge, full canvas, d/f, extras, good cond. Asking \$1650. Laird, Ext. 4068, 298-5092.

25' OWENS - Cabin cruiser, sleeps 5, 283 flagship engine, accessories, very good cond. Fred, 281-6468 eves.

### Miscellaneous

PHONOGRAPH - Monaural portable. \$20. Ext. 3922.

55 GALLON FISH TANK - Filter, gravel filters, fish, all items incl. \$185. Dave, 281-6468.

DINETTE SET - Octagon shaped table opens to 60" w/leaf, 4 contour chairs in green & gold. \$150. 281-2162 before 4.

72" SLIDING GLASS DOORS - Aluminum, safety glass, \$100; shower glass doors, \$50. 281-9853 after 5.

2 PARAKEETS - Healthy & beautiful, w/food. \$20. Dave, 281-6468.

74 WILSON CAMPER CAP - Fits 6' truck, inside finished, 878-4193 after 5.

MOVIE CAMERA - Revere, 8 mm. \$50. 589-3269 after 6.

ANTIQUE CHAIRS - Cut glass, tables, pressed glass & bric-a-brac; mink coat, natural, full length, size 12-14, very good cond. 472-0509.

SKI RACKS - Barrecafter Safari, model SR-12, built-in locks. \$10. Ext. 4692.

DRILL PRESS - 12" Shopmaster, bench type, mounted on floor stand, 5 speeds, 1/2 hp, 1750 rpm motor. \$75. Ext. 4692, 878-0123.

40" ELEC STOVE - Frigidaire, 3 surface elements, 1 deep well cooker, auto oven timer. \$30. 286-0880.

25" COLOR TV - Admiral, needs small tubes. \$30. Bob, Ext. 4652, 289-0357.

OSCILLOSCOPE - EICO 460. \$135. D. Vail, Ext. 2046.

HAMMOND M 2 ORGAN - Excel cond. \$850. Marie, Ext. 3857.

CORNET BICYCLE - 20" girl's, good cond. \$40. 281-9715.

QUEEN BED - W/mattress, box spring, headboard, tripple dresser w/mirror, \$150, Sunmica bar, light, \$75. 281-1559.

JOLLY JUMP - For toddler, \$5. Les, Ext. 4074.

TODDLER CAR SEAT - Ford, used 4 times. \$32 new, sell \$15. 286-1541.

BABY ITEMS - Crib, rocking horse, misc. 289-0532 after 6.

REFRIGERATOR - GE, about 12 cu ft, gold, good cond. \$50. 363-6606 after 6.

DUST COVER - Lafayette, 13½"x15¼", \$3; 2 light fixtures, w & w/out glass, \$4 & \$5 each. 744-5871.

PLANT HANGERS - Gold, \$3; spring coat, size 14, \$12. 744-5871.

BLUE BLAZER - Good cond, size 12, \$5; melon spring coat, \$12, size 12, good cond. Ext. 3609.

SHIRTS - Men's, never worn, long sleeve brown, 15-33, long sleeve white 15-34, half sleeve green, \$15. Ext. 3609.

SHOES - Never worn, brown leather hush puppies, men's 9M. \$15. Ext. 3609.

VALENTINE PILLOWS - Only 8 red & 2 blue print pillows left, bordered w/white lace, 15"x15". \$6.50 ea. Sharon, Ext. 3331.

SINGER ZIG ZAG - Sewing machine w/buttonholer & other extra attachments, excel cond, 3 yrs old. June, 399-0836 eves.

ANTIQUUE BEDRM SET - Mahogany bed, dresser & vanity, both w/mirrors. Linda, Ext. 3881.

SILENT FLUSH TOILET - Modern, low profile, 2 yrs old. \$25; 2 infant chairs, free; boxspring & headboard, \$20. M. Greene, Ext. 4484.

BICYCLE - 3 wheeler, w/basket, new, original, \$139, will sell for \$89. 281-9504.

DINING RM SET - Table w/6 chairs, avacado love seat & matching chair. Ext. 3981, 369-2748.

APPALOOSA MARE - 9 yrs, experienced rider, needs good home, English or western. Asking \$500. Sue, 589-6715.

BOY'S 24" ROLLFAST - Wooden crib, stool-o-chair & carriage set, girl's clothes, age birth - 4 yrs, tricycle. 286-2287 after 6.

COLLECTOR'S PLATE - Royal Copenhagen 1971 Xmas, \$40; pair of milkglass, marble & brass candlesticks, \$10. Irene Merritt, 589-5126.

GE RANGE - Electric 4 element, clean, good cond. \$80. 475-8971.

HOT WATER HEATER - Electric, 30 gallon. \$25. Steve 475-6594 after 5.

CAPTAIN'S BED - Solid pine, 4 built-in drawers, 41" wide x 75" long, \$60; innerspring mattress, \$20. 286-1192 after 6.

DESK - Early American knee hole, \$50. 589-3269 after 6.

21" COLOR TV - RCA, \$95, good cond. Bob, Ext. 4652, 289-0357.

GE 19" COLOR TV - \$75; Philco phono changer w/base, \$15; Speco 2-station intercom, new. \$10. George, Ext. 3783.

KEROSINE HEATER - Sears, approx 12"x12"x32", will heat 2-car garage, good cond. \$35. Paul Sparrow, Ext. 4662, 727-4859.

HOOVER FLOOR WAXER - & rug shampooer. \$15. 744-2493.

LAMB COAT - Black Persian w/mink collar, full length, size 12-14, good cond. \$100. 744-2493.

KITCHEN SET - Metal top w/wood, 4 wood chairs. \$25. 744-2493.

VACUUM CLEANER - Hoover upright. \$15. 744-2493.

HI FI AMPLIFIERS - Dynaco Mark III, 60 watt & Dynaco preamp, make offer. Ext. 4774.

COAT - Lightweight tweed, size 14, blue/brown/grey, MacNaughton of Pitlochery, never worn. 286-8512.

ICE SKATES - Sizes 1 & 4, \$3 each. Ext. 4122, 286-8512.

POTBELLY STOVE - Antique, \$125; electric guitar, double pick up, \$35; accordian, 120 base, excel w/case. \$200. Rick, Ext. 4612.

LAMPS - Twin living rm, 36" high. \$10 each. Ann, 286-2280.

SLIDE PROJECTOR - Airequipt 635, remote control & 5 100-slide trays, excel cond. \$45 cheap! Steve, 744-9408.

VACUUM CLEANER - Kirby, 2 yr old, all attachments, like new, cost \$400, priced to sell, \$150. 289-6653 after 6.

INDUSTRIAL FREEZER - United brand, hardly used. \$350. Walter Hughes, 744-5777.

JUMP SEAT - Thayer, 3 position, \$8. Frank, Ext. 2311.

3 IN 1 - Carriage, car bed, stroller, jade green, mattress incl. \$25. Frank, Ext. 2311.

UTILITY CABINET - 1 door, 1 drawer, base cabinet. \$15. Frank, Ext. 2311.

BABY CAR SEAT - Safety, black, vinyl, like new. \$15. Frank, Ext. 2311.

LAB TYPE OVEN - All stainless, 2 foot cube, 1' cube inside, 1300 watts, controls to 500°F, asking \$65. Ext. 4058, 286-0436.

LESLIE TONE CABINET - Model 247, 200 watt w/Fisher reverb, asking \$300. Ext. 4058, 286-0436.

6 CHANNEL CB - Very small, Realistic TRC-10, 12 VDC only for car/boat, asking \$60. Ext. 4058, 286-0436.

SKI BOOTS - Size 1, child's rubber molded "Sierra", \$4. 286-3679.

WEDDING DRESS - Lace & pearls, size 12-14, matching headpiece, veil, detachable train & slip, must see. 924-5422.

SKI BOOTS - Heierling Swiss racing boots, great for intermediate or expert, size 11. \$100. 286-2093.

BABY CARRIAGE - Sold for \$160, sell \$40 complete. Ken, Ext. 3389, 399-2638.

BABY BASSINET - Like new, must sell, \$15, extras. Ken, Ext. 3389, 399-2638.

GAS RANGE - Oven & broiler, 20", coppertone, like new cond. \$45. Dick, Ext. 3860, 698-5298.

AIR CONDITIONER - Hot Point, 5000 btu, used only one summer. Ext. 3981, 369-2748.

CHINESE COMFORTER - Beautiful and warm. Ext. 3981, 369-2748.

**Real Estate**  
**Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.**

**For Sale**  
NORTH SHORE - 3 bedrm, 1½ baths, partially finished cellar, knotty pine interior, fireplace, 20'x30' garage w/pit, 23,000 btu ac, appl, 20 min to Lab. \$246 taxes, \$30,000. 744-3312.

SHOREHAM VILLAGE - Large custom built ranch, 3 bedrm, 3 baths, den w/fireplace, dinette, many extras, must be seen. \$92,000. Ext. 4218.

MOTHER/DAUGHTER - Or home w/income, 1-6 rms rented, \$3400/yr; 1-4 rms empty. \$7000 cash will hold 20 year mortgage at 8%, property 50x163, William Floyd Parkway. 281-5341 after 4.

CENTEREACH - 3 bedrm ranch, living rm, dining, 12x24 family rm, patio, fenced 85x100 lot, Middle Country School #11. \$32,500. 732-5197. Ext. 3354, Sanchez.

CORAM - Strathmore East, colonial, 100x150 plot, 3 lg bedrms, living, dining, den, U-shaped kitchen w/dinette, 2½ baths, 5 appl, nicely landscaped. \$42,000. Owner, 473-0219.

PORT JEFFERSON VILLAGE - Harbor Hills, 4 bedrms, library, formal dining, private beach rights, might also consider renting. 928-3891.

MATTITUCK - 4 yr, 3 bedrm, 7 rm ranch, ½ acre, taxes \$734, beach rights. \$42,500 negotiable. 298-4093.

CENTER MORICHES - 7 rm house, full cellar, 4 rms downstairs, 3 rms upstairs, 2 baths, garage, breezeway, cyclone fence, hot water heat, storm windows. 878-0237.

MASTIC - Mother/daughter colonial, all appliances. \$46,000. 281-0295.

CUTCHOQUE - 1 acre building lot, water view, beach rights, near schools & shopping. Asking \$15,000. G. Laird Stubbings, Ext. 4068, 298-5092.

## For Rent

FURNISHED RM - Patchogue village, private home, off street parking, village conveniences, suitable congenial mature woman. 475-2627 after 6.

MASTIC - 3 rm apt, w/appl, unfurn. \$250/mo single, \$250/mo couple, util & heat incl. 281-0295.

YAPHANK - 2 bedrm house, 2 acres, avail March. \$250 + util. John, Ext. 3675, 924-3528.

CALVERTON/RIVERHEAD - Townhouse, 3 bedrms, 1½ baths, ac, all appl. \$289/mo. + util. 488-2497, Ext. 2445.

WADING RIVER - 2 rms, bath, util incl, private beach. 929-6296.

CENTER MORICHES - 8 room cape, 2 baths, w/w, fireplace, basement, fenced yard, all appl. \$300/mo. 878-4153.

WADING RIVER - Large 1 bedrm basement apt, furn, util incl, private beach, 15 min to Lab. \$250/mo. 929-8443.

VERMONT VACATION - 3 bedrm mobile home w/ fireplace on 10 acres, 10 min from Okemo Mt. close to 7 major ski areas, weeks or weekends. Bob, 473-8186.

## Wanted

SMALL FLOOR SAFE - Reasonable. 472-2550.

ENGINE - 8-12 hp for parts, head carburetor. G. Hrabak, Ext. 3515, 589-2389.

WORKING MIDDLE AGED WOMAN - To share home in Lake Panamuka, references. 475-7500.

BOOK DONATIONS - Port Jeff Montessori School, need used World Book Encyc, will purchase if reasonable. Sanchez, Ext. 3354.

1 BEDRM APT TO RENT - Responsible couple. 924-3429 after 5:30.

PHONO RECORDS - D. Vail, Ext. 2046.

SKI BOOTS - Men's size 11 or 12. Ext. 3765, 744-5079.

AUTOMOBILE - 1965-69 vintage in good cond. Bob Walton, Ext. 2388.

MESH PLAYPEN - Safety door gate, used ok, reasonable. Alyce, Ext. 2902.

FEMALE ROOMMATE - To share furn 2 bedrm apt in Commack. Debbie, 543-6874 after 7.

SOUP LABELS - Send to F. Chandler, Bldg. T87.

BABYSITTER - For 2 girls 2 and 6, one in school all day. 8-5:15, Mon-Fri. Ext. 3816, 654-0796 after 5.

APT/HOUSE - LIE Exit 56, young couple to rent or sublease from April to Aug, possibly buying after that period. Ext. 3981 or 369-2748.

CUB SCOUT UNIFORM - Size 12, Janet, Ext. 2262, 475-7025.

ACCIDENT INFORMATION - Would appreciate info regarding bus on Jan 21 about 8:25 am at William Floyd & Moriches-Yaphank Rd intersection. 475-9265.

BATHRM SCALE - Balance beam, reasonable. Frank, 727-5527.

## Classified Ad Policy

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

1. The Brookhaven Bulletin'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. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Firearms offered for sale or trade may not be brought on site.

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

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

- Wanted  
 Carpools  
 Lost & Found  
 Services

Check  the heading applying to your ad.  
Print or type your ad in 20 words or less.

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

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

Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).

HOME FOR MUCH POOCHO - Lovable, well-mannered, dog who knows a few tricks. 589-3269 after 6.

ROTOTILLER - Operating cond. Ext. 3711.

PORTA CRIB - Reasonable. Fischer, 475-7464.

SMALL KILN - Or furnace for high temp melting of metal, will repair if necessary. Ext. 4058, 286-0436.

**Car Pools**  
MILLER PLACE - Driver needed for 3-person car pool. Ext. 3609.

STRATHMORE E. CORAM - Would like to join car pool to and from Lab. Ext. 2455.

**Lost & Found**  
LOST - Tennis shirt, shorts & shoes from locker room on 2/6. If found call Ext. 3489.

FOUND - One watch wakeup stick, pick it up in my office, Bldg. 535, R. Young, Ext. 4267.

LOST - 63 VW bug, plate NY 766 AQD, black body w/yellow campaign sticker "Regina Seltzer" on back. Lin, Ext. 4389.

**Services**  
CHILD CARE - Conscientious mother wishes to babysit, excel Blue Point area, 3 yr old playmate, lunch & snacks, fenced yard. 363-2130.

DOG TRAINING - And supplies. Phil Warner, Ext. 4636.

TYPING - Theses, manuscripts, etc. reasonable. Susan, Ext. 3609.

CARPETS - Installation, cleaning, free estimates, fair prices. Bill, 654-3481.

WILL BABYSIT - One pre-school child in my home, Lake Ronkonkoma area. 698-4471.

BABYSITTING - My place, near Miller Place/Sound Beach. 744-4615.

BABYSITTING - My home, day or night, weekdays or weekends, good atmosphere, reasonable. Claire, 289-0633.

TAXES - Your house or mine. Reasonable. John, 732-2472.

ICE SKATES SHARPENED - Ted, 589-2470.

YARDS, CELLARS, GARAGES - Cleaned, light hauling, lawn leaves vacuumed. 727-1329.

TREE SERVICE - 727-1329.

TAX PREPARATION - Reasonable rates, eve & weekend appts. Cliff, 665-5640.

TREE WORK - Removal, topping stumps, trimming. Paul, 744-3807.

CLEANUPS - \$15 a full truck load. Paul, 744-3807.

BABYSITTING - Reliable, Speonk-Remsenburg & vicinity. Lori, 325-0681.

VW MECHANIC - Dealer trained, lowest prices. Fred, 924-3556.

DOG SITTING - In my home, ref avail, for further info, 286-8512.