



# BROOKHAVEN BULLETIN

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January 17, 1975

## Michael To Deliver 124th BNL Lecture

Paul Michael, Head of the Meteorology Group, will deliver the 124th Brookhaven Lecture on Wednesday, January 22, at 8 p.m. in Berkner Hall. His lecture on "Smoke Over Tiana Beach" will be subtitled "Plume Studies Over Land and Sea."

In 1958 Paul Michael came to Brookhaven as a member of Jack Chernick's Reactor Physics Division in what was then called the Nuclear Engineering Department (now the Department of Applied Science). He worked on the core physics design of the HFBR for the first few years at BNL; then did research on neutron and reactor physics. While still with the Reactor Physics Division he became interested in, and did work on, the numerical solution of fluid flow equations.

In 1970 he transferred to the Meteorology Group to work on theoretical aspects of the diffusion of gases and particulates in the atmosphere. In 1972 Michael became Head of Meteorology. Recently he has been involved in the development of methods for predicting the transport of pollutants and relating the results of field studies to theoretical predictions. Michael is currently Chairman of BNL's Reactor and Critical Experiment Safety Committee and serves on the Computer Coordinators Committee. From time to time he has served on a number of professional society and AEC committees.

Prior to coming to BNL he studied for his Ph.D. at New York University, working with Lyle Borst. He has an M.S. from the



Paul Michael

University of Chicago and a B.S. from New York University. He served in the Army from 1953 to 1955, spending most of that time at the Army Chemical Center in Maryland. After his discharge he worked in the Nuclear Power Department of the Curtiss Wright Corporation.

Michael lives in Setauket with his wife, Norma. They have two children; Susan, who is attending SUNY-Albany and Andrew, who is a student at Ward Melville H.S. in Setauket. His recreational activities are centered around tennis and photography, both of which he pursues avidly. He confesses that in both hobbies he seldom

(Continued on page 2)

## AUI Trustees Honor The Kupers



Mariette Kuper displays one of the three plates presented to her and Desmond Kuper by LaRoy Thompson, Chairman of the Board of Trustees, for AUI. From left to right are: Dr. Gerald Tape, President of AUI; Mrs. Kuper; Dr. Kuper and Mr. Thompson.

## AUI Board Of Trustees Meets At BNL

The AUI Board of Trustees met at the Laboratory on January 15 and 16. Following the Wednesday meeting, the Trustees were taken on a tour of the Chemistry building. In the evening, after dinner, they were shown a movie, "The Invisible Universe," presented by the National Radio Astronomy Observatory.

During this week's proceedings, Dr. Franklin Long of Cornell University, member of the Board from 1947 until 1974, was elected an Honorary Trustee. The only other person who currently holds this title is Dr. I.I. Rabi of Columbia University. The January meeting of the Board of Trustees was the first to be attended by Dr. Rudolph Kompfner of Stanford University, elected to the Board in October as a Trustee-at-large.

Mariette Kuper, the first AUI employee, and Desmond Kuper were the guests of honor at the Board of Trustees dinner, held last Wednesday night in Berkner Hall. The Kupers devoted a total of 55 years to the Laboratory before their retirement in December.

At the dinner Dr. I.I. Rabi and Dr. William Watson, two of the founding trustees, reminisced about Brookhaven's founding days and the active roles the Kupers played in them. Leland Haworth, past Director of BNL and Past President of AUI, referred to the Kupers as the underlying strength of the Laboratory.

Following the speeches, Chairman of the Board of Trustees LaRoy Thompson presented three plates to the Kupers as a small token of remembrance from AUI.

Dr. Gerald Tape, President of AUI, explained the symbolism of the plates "One has a picture of the BNL reactor, symbolic of technology; another has a picture of Berkner Hall, symbolic of conferences and international affairs; and the third bears the Brookhaven seal, linking the two together."

In accepting the plates, Mrs. Kuper said, "I want to thank past and present Trustees and past and present Directors for making it possible for me to be a small part of this marvelous organization which I dearly love."

## Alien Address Reports Due in January

The U.S. Government requires that aliens who are in the United States on January 1 of each year shall report their addresses during the month of January. This is required even though the alien has not changed his address since the last report.

The parent or legal guardian of alien children under fourteen years of age must report for these children.

Any alien who is temporarily absent from the country on January 1 must report his address within ten days after his return to the U.S.A.

Aliens may go to any U.S. Post Office or to any Immigration and Naturalization Service Office and ask for the Address Report Card, Form I-53. When the card has been completely filled in and signed, it should be handed to an employee in any Post Office or Immigration and Naturalization Office. The card should not be folded or torn and should not be mailed.

In addition to his address, an alien reports the date and place of entry into the United States, the date and place of birth, nationality, and most important - his alien registration number.

An alien's registration number is the number preceded by the letter "A" appearing on his alien registration receipt card.

Aliens admitted temporarily to the U.S. should write "Nonimmigrant" in the space provided on the report form for showing the registration number.

If the alien is a newly-arrived immigrant who 'has not yet' received his alien registration receipt, he should write "Not Received" in that space.

If an alien has lost his receipt, he should write "Lost" in the space and immediately apply for a new receipt at the nearest office of the Immigration and Naturalization Service.

## Lab Struggles Against Rising Fuel Costs

At this time last year, Laboratory officials were worried about having enough fuel oil to operate the Lab, but this year they are concerned about having enough money to meet the rising costs of oil.

"The fuel oil is not in short supply but the costs are out of sight," said Associate Director Vincent O'Leary.

President Ford proposed, in his speech on the economy Monday night, increasing crude oil import fees by one dollar to three dollars a barrel. With 42 gallons to the barrel, this means approximately 7.2¢ a gallon. The Laboratory's estimated consumption of #6 fuel oil for fiscal year 1975 is 4,940,000 gallons. Therefore, the Laboratory will have to pay an additional 350,000 dollars.

Although fuel oil is not in short supply, the rising costs make fuel conservation efforts on the part of the employees more necessary than ever. According to Joe Rose, Superintendent of Mechanical Utilities Division, Plant Engineering is spending money to save money. That is to say, Plant Engineering is making hardware alterations to conserve fuel.

Since 1969, the cost of #6 fuel oil, used in the central steam plant, has risen from an average of 4.94¢ a gallon to 30.5¢ a gallon in 1975. In buildings not serviced by the central steam plant, individual boilers use #2 and #4 fuel oils. The prices of these have risen from 11.57¢ per gallon to 32.3¢ and 6.88¢ to 31.9¢ respectively.

In 1973, the Laboratory began mixing waste oil with virgin oil in proportions of 25 to 30 percent. Waste oil currently costs 13¢ a gallon, so its use has helped defray costs. The oil is collected from garages and gasoline stations as an environmental effort to prevent it from being dumped into streams, lakes, or the ocean.

There have been attempts by some to prevent the burning of waste oil. They say it is polluting, but a study conducted at BNL by a committee headed by Dr. Leonard Hamilton, Medical Department, has found that the burning of waste oil does not present a significant insult to the environment.

If total numbers of degree days are any indication, winters seemed to be getting milder until this year. The total number of degree days from September through April, 1969/1970 was 6,225. During this same time period in 1973/1974 the total was 5,396. The total just for September through December, 1974 has already reached 2,235, with the coldest winter months, January and February, still to be accounted for. This past December was the coldest December since 1970.

The number of degree days is reached by subtracting the average of the highest and lowest temperatures, for a given day, from 65°F.

## CREF Unit Values

		1974	
January	\$40.75	February	\$40.83
March	39.32	April	37.58
May	35.11	June	34.29
July	31.71	August	29.09
September	25.39	October	30.27
November	29.23		
		December	\$28.35

**Lecture Series**

(Continued)

lives up to his promise of mediocrity, but that doesn't dampen his enthusiasm or his enjoyment.

In order to assess the environmental impact of power plants, either nuclear or fossil, one must be able to predict the concentration of air pollutants resulting from given emissions. The first part of the lecture will discuss how the transport and dilution of material in the atmosphere is controlled by a variety of meteorological phenomena; e.g., the variation of wind and temperature with height above the surface, the turbulence of the air flow, the type of surface over which the air is moving, etc. In practical situations one does not have detailed enough meteorological measurements, therefore a number of methods, or "models," have been developed for making "engineering estimates." These methods are based upon the dynamics of the atmosphere and are adequate for the situations under which they were derived. As one would expect, when these models are extrapolated to situations not covered in their original derivation they frequently give answers that are seriously in error. Unfortunately, this is often overlooked by those attempting to do air quality calculations. After a brief discussion of two of the engineering models, one developed at BNL by Smith and Singer, and one developed in England by F. Pasquill, the lecture will discuss two series of field experiments that have been conducted by the BNL Meteorology Group. These experiments have been focused upon situations where the standard techniques are suspect, and have indeed shown that they do fail.

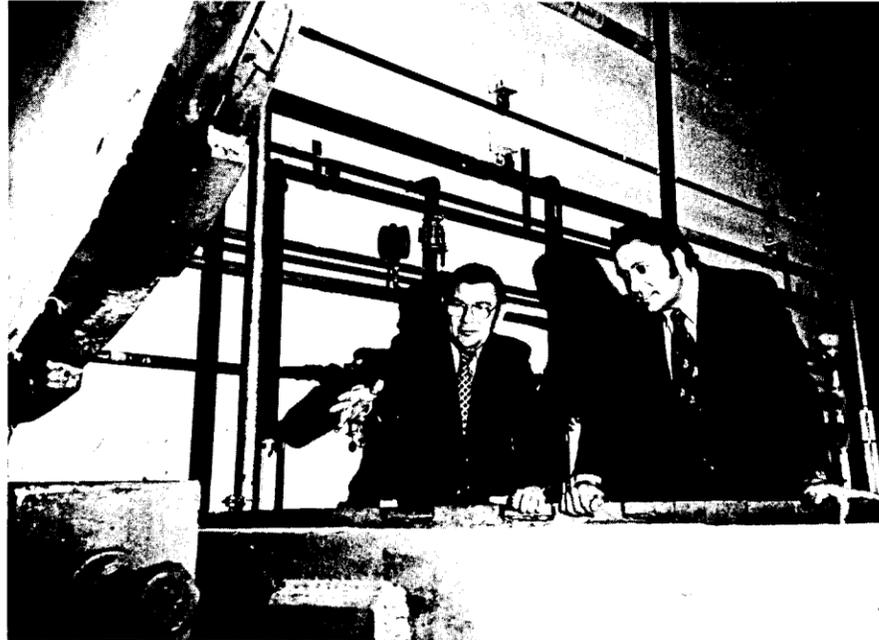
The first BNL experiment to be described will be one which documents the behavior of plumes from tall stacks. These are aircraft mounted measurements of the particulates emitted from the LILCO Northport plant that have been carried out at distances up to 100 km from the plant. A major result of these experiments has been to show that at large distances the fact that the wind direction changes with altitude is more important than the amount of turbulence; this has been suggested by theoretical studies but had not previously been demonstrated in the field.

The other BNL study to be described is an over-ocean study, which for the most part is carried on off Tiana Beach on the south shore of Long Island. This study was initiated because of plans to locate nuclear plants on floating barges moored off shore, because there was no confidence that one could extrapolate atmospheric diffusion results obtained over land, and that there was a dearth of experimental data taken over the ocean. This field study involves the simultaneous measurement of the behavior of a tracer plume or oil fog smoke that is released from a boat anchored off shore and a host of meteorological measurements taken on shore, from boats, and from aircraft. The results to date have indicated that, while the general framework of the "standard" models could be used, drastic changes in parameters are required. This is because the airflow over the ocean is much less turbulent than over land, thus causing decreased dispersion.

A buffet supper will be served at the Brookhaven Center before the lecture starting 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 conclusion of the lecture.

**Karate**

Anyone interested in on-site karate participation please call Whitey, Ext. 2913.

**Highway Commissioner At BNL**

Meyer Steinberg, DAS, shows Anthony Ameruso (right), Commissioner of the New York City Department of Highways, a five-foot by fifteen-foot polymer impregnator located in the Radiation and Chemical Technology Lab of DAS.

**Arrivals & Departures****Arrivals**

Elinor B. McCaw ..... A.U.I.  
Gaston Schaechtelin ..... Medical  
Judy R. Raynor ..... Applied Math.  
Hermann C. Vargo ..... Applied Math.

**Departures**

Charles A.S. Hall ..... Biology  
Theodore J. Ricci ..... App. Science

**Official & Special Events**

**Tuesday, January 21**  
Low Level Radiation Effects Meeting  
AEC Medical Physics Program Review  
(January 21-23)

**Wednesday, January 22**  
BNL Lecture - 8:00 p.m., Berkner Hall

**Tuesday, January 28**  
Concordia College student tour

**Wednesday, January 29**  
Concert - Berkner Hall  
IEEE Power Engineering Society Tour

**AMD Service Awards**

These members of the Applied Mathematics Department were all awarded 10-year Service Awards, with the exception of Dysart Ravenhall, who received a 20-year award. Standing left to right are: Gerard Paul, Joseph Stakes, Arthur Scott, Irwin Lewis, Fred Krieger, David Niebuhr, George Taylor, Dysart Ravenhall, Ronald Yuh. Seated left to right are: Katherine Boggi and Susan Sevan.

**Highway Commissioner Sees Polymer Work Here**

New York City Highway Commissioner Anthony Ameruso visited the Laboratory on Friday, January 10 at the invitation of Meyer Steinberg, DAS.

Over the past two years, members of the Radiation Division of DAS have successfully repaired several large holes in New York City's Major Deegan Expressway using polymer concrete.

Commissioner Ameruso visited the Lab to discuss the use of concrete-polymer composites for highway applications and to see some of the facilities where research in this area is conducted. He was accompanied by Deputy Commissioner Samuel Azadian and Sol Galler, of the Highway Department's Research Division.

They were welcomed to the Lab by Director George Vineyard before proceeding to Building 318 where Steinberg and Larry Kukacka outlined the polymer concrete process and its applications.

Following lunch, the Commissioner was given a tour of the polymer concrete facilities before seeing the High Flux Beam Reactor and the AGS.

The Polymer Concrete Group will probably be doing more road repair work in New York City in the near future, on roadways such as the West Side Highway, Brooklyn Boulevard and the Willis Avenue Bridge.

**Selected Reading**

**Bull. At. Sci. 31, January 1975**  
ERDA: The new glamour agency. A.R. Smith 29-31  
Pure science in the service of wartime technology. F. de Hoffmann. 41-4  
**New Sci. 634, December 5, 1974**  
The Ford-Brezhnev agreement assessed. F. Barnaby. 734-6  
New code for bird collectors. W.R.P. Bourne. 737  
The early politics of nuclear safety. M. Gowing and L. Arnold. 741-3  
Are PhDs misfits? C. Bloor. 751-3  
**Sci. Amer. 232, January 1975**  
The fuel consumption of automobiles. J.R. Pierce. 34-44

**Fellowship Awards**

The Rockefeller Foundation announces a new program of fellowship awards for highly qualified scholars undertaking research and/or public service in environmental affairs. Emphasis will be heavily concentrated at the postdoctoral level enabling individuals with specialized training in any relevant field to participate in interdisciplinary efforts to deal effectively with comprehensive environmental problems.

Awards will be made for up to a twelve-month period and stipends will be commensurate with candidate's experience and current institutional norms.

Details at Office of Scientific Personnel, 40 Brookhaven Avenue.

**BROOKHAVEN BULLETIN**

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## BERA Election

BERA voting will take place during the week of January 20 through 24 at the following revised polling stations.

### Cafeteria Lobby

Monday thru Thursday, 1/20 - 1/23

11:45 a.m. - 12:45 p.m.

Thursday, 1/23

7:45 a.m. - 8:30 a.m.

### Physics Building Lobby

Tuesday, 1/21

2:30 p.m. - 3:30 p.m.

### AGS Lobby

Wednesday, 1/22

2:30 p.m. - 3:30 p.m.

### Biology Building Reading Room

Thursday, 1/23

2:30 p.m. - 3:45 p.m.

### Bank

Friday, 1/24

11:30 a.m. - 1:30 p.m.

The statement that appeared in last week's *Brookhaven Bulletin* concerning eligibility to vote in the upcoming BERA election was incorrect. Although guests and full-time employees of on-site facilities may participate in BERA activities, they are not members of the Association as defined in the BERA constitution and, therefore, are not eligible to vote.

The BERA constitution presently defines members and voting eligibility as follows:

All employees of Associated Universities and the Atomic Energy Commission in the Brookhaven Area Office shall automatically be members during the period of their employment.

The affairs of the Association shall be conducted by a Board of six voting trustees selected by the members for a term of three years.

Some time following this election a proposal to amend the constitution to include guests and full-time employees of on-site facilities will be presented by the BERA Board for a membership vote.

## Cafeteria Menu

### Week Ending January 24, 1975

#### Monday, January 20

Corn Chowder

Beef Liver & 1 Veg. 1.05

Scrambled Eggs, Sausage, French Fries .95

#### Tuesday, January 21

Beef Noodle Soup

Salisbury Steak & 1 Veg. 1.00

Sauerbraten & Potato Pancake 1.20

#### Wednesday, January 22

Cream of Potato Soup

Broiled Cod & 1 Veg. 1.05

New England Boiled Dinner

Cup of Split Pea Soup

Corned Beef, Cabbage, Boiled Potato, or Choice of Boiled Turnips

Choice of Small Pie Beverage

\$1.87 plus tax

#### Thursday, January 23

Chicken Vegetable Soup

Lamb Stew on Rice 1.20

Roast Turkey w/ Stuffing & 1 Veg. 1.20

#### Friday, January 24

Clam & Celery

Shrimp Chow Mein w/ Rice 1.20

London Broil w/ 1 Veg. 1.20

## Art Show Set For Feb.

The BERA Art Committee will present its first art show of the New Year in February. The theme of the show, to be held in Berkner Hall, will be 19th Century Europe.

The art works will be on loan to the Committee from the Hecksher Art Museum in Huntington. Opening night is set for February 4, and the paintings can be viewed during weekdays through February 21.

Further information about the art show will appear in subsequent issues of the *Brookhaven Bulletin*.

## January Retiree



Arthur Dunn, a Carpenter in Plant Engineering who began work at Brookhaven National Laboratory on January 19, 1959, will retire on January 17.

## Cooking Exchange

The Cooking Exchange is pleased to announce a "very special meeting" January 22 at 12:30 p.m. in the Recreation Building. Mrs. Jacqueline Newman has agreed to once again work her wonderful Chinese magic for us! If you have ever wondered what really superior Chinese cooking is - now is your chance to find out and taste. This is a **do not miss meeting**.

## Bowling News

Grace Fales

### Red League

Congratulations to the Old Timer's - 1st half Winners! High series for the night: J. Scesny 220/224/204/648 scratch; R. Nelson 238/211/634 scratch/685 gross. Other highs were R. Adams 213, E. Fales 200, V. Bilms 216, and R. Larsen 211.

### Black and Blue League

Congratulations to Kit D'Ambrosio for her 666 Club Award with a 716 gross series. High games: Joe Mayeski 232, Kit D'Ambrosio 181/168/223/572, Frank Costello 214, Budd Pollock 210, Don Schug 209, Nancy Mayeski 168/173. The pots were won by the togetherness kick of Nancy & Joe Mayeski - 219 and 259.

## Mountain Club

The BNL Mountain Club will meet on Wednesday, January 22nd, at 8:00 p.m. in the Recreation Building. Spelunking, cross-country skiing and the upcoming kayaking lessons will be discussed.

## Help for Smokers

Smokers who wish to kick the habit are invited to attend a six-session workshop at Brookhaven Memorial Hospital, East Patchogue.

The workshop is sponsored by Brookhaven Memorial Hospital and the American Lung Association of Nassau-Suffolk.

For more information and registration, telephone 516-475-5000, Ext. 452. There is a \$7 registration fee, but no one will be excluded for inability to pay.

The first session, on Monday, February 3, at 8 p.m., will include a pulmonary function screening test to detect possible lung damage.

## Stony Brook Events

Several concerts highlight activities at the State University of New York at Stony Brook for the beginning of the Spring Semester. Unless otherwise noted, all events are free and open to the general public.

### Friday, January 17

The Music Department's first concert of the season is a Baroque Seminar directed by Peter Wolf at 8:30 p.m. in Lecture Center Room 105.

The first of a monthly series of Open Nights in Astronomy begins tonight with a lecture on "Imaging the Stars" at 7:30 p.m. in lecture hall 001 on the lower level of the Earth and Space Sciences building. Dr. Deane Peterson's talk on distortion-free viewing techniques will be followed by an open viewing session with the University's small telescopes.

### Saturday, January 18

Saturday Cinema runs in the Stony Brook Union auditorium from 4 p.m. to 7 p.m. Film titles to be announced.

### Monday, January 20

Dr. Peter Rogatz, Senior Vice President of Blue Cross-Blue Shield of Greater New York and one of the original planners for Stony Brook's Health Sciences Center, will speak on the "The Effect of Insurance on Health Care Patterns" at 8 p.m. in South Campus Building F, Room 147. The lecture is one of a continuing series on Contemporary Issues in Health Care and Public Policy.

### Tuesday, January 21

Tuesday Flicks screens the film "A Tree Grows in Brooklyn" at 8 p.m. in the Stony Brook Union Auditorium.

### Wednesday, January 22

The Graduate String Quartet gives a free concert at 8:30 p.m. in Lecture Center Room 105.

### Thursday, January 23

The CED Cinema Series continues with "Orpheus" a 1949 work by Jeanne Cocteau, preceded by a color short "Oobieland Part III." The films begin at 8:30 p.m. in Lecture Center Room 100.

## 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.

11. CUSTODIAN - Plant Engineering Division.

12. OFFICE SERVICES ASSISTANT - Technical Information Division.

STOCK CLERK (3) - Supply & Materiel. Application deadline: January 29, 1975.

MATERIAL HANDLER (1) - Supply & Materiel. Application deadline: January 23, 1975.

### Autos & Auto Supplies

TIRE CHAINS - Bar reinforced, never used, fit tire sizes 6.50x13, 6.00x14 & 5.50x15. \$12. Katcoff, Ext. 4341, 475-4005.

SKI RACK - Roof mounting, adjustable for most cars from compact to full size, cannot be removed from car without key. Orig \$35, sell \$15. P. Valli, Ext. 2023.

73 VW SQUAREBACK - Stick shift, sunroof, bright orange, many extras. \$2850 or best offer. 475-8728.

TIRE RIMS - 14" to fit Chevy & many other GM cars. \$5 ea. Rosso, Ext. 4088.

64 FORD PICKUP - 8' bed, 6 cyl, std trans, low mileage. Mazzeo, Ext. 4281.

OVERSIZE VW TIRES - 2-12" rims on 950's, 2-8" rims on 900's. 289-2420 after 5:30.

70 FORD FAIRLANE 500 STATION WAGON - V8, auto trans, ps/pb, radio, roof rack, new trans, brakes, alternator, starter & batt. \$1000. E. Weinstock, Ext. 2943, 286-0263 eves.

61 BUICK LE SABRE - Excel mech cond, body good. B. Brehm, Ext. 3280.

CORVAIR BUFFS - 64 Monza, 2 dr, body & eng good cond, trans needs work. \$100. Ext. 2476, 751-2149.

73 VW SUPER-BEETLE - Blue, w/sunroof, orig owner (going abroad), excel dependable car. \$1850. 246-4040, 473-8661.

SNOW TIRES - F78-15 Goodyear Sub w/Ford rims, used 1 season, \$30/pr; 2 Mustang 14" rims, 5 hole, \$5/pr. R. Dietz, Ext. 3059.

2 TIRES & WHEELS - Goodyear belted F78-14 plus mag wheels, 5 lug, custom pwr cushion polyglas (Chrysler, Plymouth or Ford), good cond. \$50. 473-2523 after 6.

66 FORD VAN - 6 cyl, good cond. 473-9121.

68 DODGE DART - 6 cyl, std, very reliable transp, new brakes, excel on gas. \$650. Joe, 281-4405.

2 SNOW TIRES - 7.35x15 premium 4-ply nylon, like new. \$25. 473-1456.

2-13" RIMS - 5 holes, \$7; 2-14" rims, 5 holes, \$7; 1-15" Ford rim w/tire, \$5. O. Booker, Ext. 4719.

68 FORD STATION WAGON - W/70 V8 motor, many new parts, great transp. \$525. 727-4884 eves.

65 FALCON STATION WAGON - Ps, auto trans, radio, 2 new tires, new water pump & muff. Asking \$190. 281-8274.

57 CORVETTE - V8, 4 spd trans, new paint, new brakes, blk diamond tuft int, mags. John, Ext. 3696.

73 DODGE DART SWINGER - Metallic gold, auto trans, 6 cyl, ps, disc brakes, excel cond. \$2600. 929-4056.

67 COUGAR - New eng, new tires, good cond. Asking \$900. Dave, 289-8236.

70 KAWASAKI 90CC MOTORCYCLE - Set up for dirt, good cond. \$175. Rich, 325-0225.

1 CHEVY 14" WHEEL - \$4. Ext. 2041.

74 VEGA GT HATCHBACK - Low mileage, A-1 cond, deluxe int, must sell. 588-4703 after 5.

69 ¾ TON GMC VAN - V8, good cond. C. Nielson, Ext. 3935, 325-0968.

68 DODGE MONACO 8 PSGR WAGON - Ps/pb, 383 eng. \$425. Frank, Ext. 4659/4092, 473-9379 after 6.

### Boats & Marine Supplies

CHILD'S LIFE JACKET - Good cond, USCG approved, supports 40-90 lbs. \$2.50. Ext. 3280 lunch time, 727-3608 after 5.

### Miscellaneous

JR & GIRLS' ROBES - ½ retail prices. Vicky, 289-8182.

GIRLS' BIKE - Ross 3 spd, good cond. \$50; alum can coffee table glass top, \$80. Ext. 4547.

ASSTD SM CABINETS - 4 tray tables, swag lamp, baby scale, wardrobe closet, knick-knack shelves. 924-4442.

4.5 CU FT FREEZER - Deluxe walnut finish, less than 7 mos old, used less than ½ that time, excel cond. Asking \$90. 289-9295.

22' TRAVEL TRAILER - Sleeps 6, refig, bath w/shower, hot air heat. \$3950. 473-3987.

REDWOOD PICNIC TABLE - W/4 benches, \$40; Harmon K tuner, amp, auto Garrard turntable, \$45; dbl bed, matt & boxspring, \$35. Roger, Ext. 4253, 286-2684.

BABY FURN - Rex strollo-chair, carriage, stroller, high chair, car seat & many more combos, excel cond. Richie, Ext. 4254, 734-7342.

WASHER/DRYER - Sears Lady Kenmore, portable, still under warranty. \$300. Ray, Ext. 3531.

RADIATOR COVER - 25x36x6½, \$15; ceiling tiles, USG Travertine, white, 92 sq ft, \$25; drapery hooks, 1" for 3½" headings, 8 pk, 14 ea, 60¢/pk. Ext. 4727.

OFFICE-STUDY CENTER - Combo desk typewriter table storage & file cabinet w/2 pwr outlets. Ext. 4727.

WHITE VENETIAN BLINDS - 2-30½" w, 1-34" w, very good cond. \$3 ea. Claire, Ext. 2346.

MOTOROLA CLOCK RADIO - W/alarm, \$5; GE canister vacuum cleaner w/attachments, excel cond. \$30. Ext. 2022, 727-4228.

FRONT DOOR - Wood 6'/light, 2'6" w x 6'8" h. \$25. 727-3816 after 6.

## Classified Advertisements

2 SCHOOL DESKS FOR CHILDREN - W/attached seats. \$7 & \$10. Ext. 4045, 289-5770.

REFRIG - 2 dr. \$45. 289-2420 after 5:30.

FREE - GE refrig, approx 15 cu ft, freezer top, 20 yrs old, good working cond. H. Frei, 744-9720.

SKIIS - Head 606, w/solomon competition binding, 200cm, Henke boots 9M, best offer. Jim, Ext. 4157.

GE ELEC DRYER - Auto elec control, 3 cycle Americana, 18 lb, heavy duty, harvest gold, 1 yr old. \$150. Ext. 4126 between 1 & 4.

ANTIQUA BIRDSEYE MAPLE BUREAU - W/mirror, \$35; jackets, 12-20, \$4-\$5. Angela, 744-5871.

BALLY BOOTS - Size 5 1/2, very good cond, best offer. 286-3742.

PORTABLE DISHWASHER - Very good, \$40; clothes dryer, \$35; auto washer, \$20. 289-3399.

DINETTE SET - Period, blond mahog, buffet, china closet, oval table, 4 upholstered chairs, reasonable. 929-6172 day or eve.

FREE - 2 slender 25-30 ft sycamore- plane trees, 2-20 ft sasafra bushes, need new home, you dig. 751-3062.

STENOGRAPH MACHINE - Excel cond. New \$150, sell \$50, plus 1 yr supply of paper tape. 924-3291 after 5:30.

GOWN - Lime green, long sleeved, worn once, size 11/12, \$12; new guitar strings, brass, acoustic guitar. \$3.25. Susan, Ext. 3609.

DIN RM TABLE - 4 chairs, tablecloths, matching china closet, light finish, contemporary, good cond. 363-8919.

MODERN PINK BATHTUB - \$15. Ext. 2882.

3 PC SECTIONAL - Matching chair, turquoise upholstery, boomerang cocktail, side tables, lamp table fits behind sectional. \$175 takes all. 588-7989.

KNITTING MACHINE - Brother 588 w/Ribber, Knit Leader & many access. \$400. Virginia, Ext. 2888, 929-6486 after 5:30.

STEREO RCVR - Marantz 22, 40w rms/ch, still in warranty. \$250. Greenhouse, Ext. 4250, 928-1644.

KING SIZE HEADBOARD - White vinyl, \$10; steam hair-setter, needs clips, \$5. 878-4878.

BABY BASINETTE - \$3; TV console, beautiful cabinet, for parts or repair, \$5. O. Booker, Ext. 4719.

MINI BIKE - 1973 Gemini, 80cc, 4 spd, excel cond. Rhodus, Ext. 3284, 924-3522.

CEDAR BARN SHAKES - & asbestos shingles. \$7/bundle for shakes, \$5 for shingles, 878-4318.

DRESSER - 3 drawer, w/lg removable mirror, good cond. \$15. 286-3540.

STROLLER - Deluxe model w/excel springs, orig \$44, sell \$20; 1 playpen, \$5; 1 carry cot w/hood, \$15. Shekhar, 751-3885.

MAN'S BROWN LEATHER JACKET - 44 long, zip out lining, excel cond. \$50. 744-3567 eves.

BOYS' BICYCLE - Columbia 20" polo bike. \$25. Cal, Ext. 2902.

AMATEUR EQUIPMENT - Compl AM-CW transmitter mounted in 6' rack, 10 to 80 meters, Elmac Transciter. Bill, LT9-3372.

HOUSE TRAILER - 2 bedrm, new carpeting, partly finished, 55' long. Asking \$4500. RA8-1509.

LADIES' ICE SKATES - Size 4, excel cond, \$8; 8 track tapes, prerecorded, \$2 ea. Ext. 2041.

FREE - Puppies, German Shep mix, need nice homes, hate to give to pound & have destroyed. 588-4703.

WOMAN'S WOOL KNIT BLAZER - Jaeger boutique, red, size 12. Orig price \$120, sell \$40. Carol, Ext. 4398.

FREE - Orange & white kittens, free to good home. Ext. 2410, 281-7113.

TRIPLE PICTURE WINDOW - With s/s, also triple width floral drapes, lined, good cond, w/curtain rod, reasonable. 744-5553.

BABY CARRIAGE - Good cond, \$25; crib w/matt, good cond, \$20. 727-0082.

### 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

CHOICE 1 ACRE WOODED BLDG PLOT - Located minutes from Lab, established residential area. For info & details, call 924-3236.

2 BEDRM RANCH - Bsmt, s/s, landscaped 50x100 fenced, lg kitchen, near schools, 5 min from Ocean, beaches, stores, RR, low taxes. Asking \$27,000, flexible. Ext. 3284.

#### For Rent

PATCHOGUE VILLAGE - 2 bedrm apt, w/w, heat & water incl, no pets, business couple preferred, priv entrance. 289-3427 after 5.

3 BEDRM HOUSE - Util incl, Village of Bellport. \$325. Roger, Ext. 4253, 286-2684.

### Wanted

JUNIOR GIRL SCOUT UNIFORM - Size 12, new or old style. Margie, 281-1169.

SM CAR - '69-'72, reliable & roadworthy for long trips. Stew, Ext. 3058/3192.

USED TV - Jay, Ext. 3016.

PING PONG TABLE - Good cond, prefer rollabout folding type. Ext. 2032.

5 TO 7.5 KV GENERATOR - 110-220v, 1800 rpm. 751-3062.

SKIIS - Head 360, 160-180 cm. Bill, Ext. 3066.

PROPERTY W/SM HOUSE - Property or house between Southampton & Montauk Point. Ext. 3211, 589-6069.

SOUP LABELS - St. John's School needs 8000 Campbell soup labels to get gym mats. Send to F. Chandler, Bldg T-89.

DESK - For boy's rm. Ext. 3765, 744-5079.

35MM CAMERA - In good cond. Ext. 3765, 744-5079.

### Car Pools

NORTH FORK - To form or join, 8:30-6:00, Mon-Thurs. S. Brown, Ext. 2528.

DRIVER WANTED - Hauppauge area. Ext. 3268.

DRIVERS NEEDED - For existing car pool from W. Sayville, Oakdale, Bohemia areas. Ext. 2311.

### Lost & Found

FOUND - In Bldg 535, gold ring w/tiger's eye stone. Ext. 2873.

### Services

BABYSITTING - Experienced mother will baby sit at home. Jay, Ext. 3016.

TREE REMOVAL - Expert service, fully insured. 744-2673.

HAVE TRUCK - Odd jobs done, attics, cellars, yards cleaned, light hauling. 727-1329.

TREE SERVICE - Removal, trimming, cabling, chain saw work. 727-1329.

OAK CORD WOOD - Seasoned, split & delivered. \$70/cord, \$40/1/2 cord. 727-1329.

TYPING - Manuscripts, theses, term papers, etc, reasonable rates. Susan, Ext. 3609.

TAXPAYERS - Federal & State income tax forms prepared in the privacy of your home or mine. 475-8330.

24 HR INCOME TAX SERVICE - Nat, 286-9383.

CAR & HOME - Will fix or clean, will do tune-ups & all repairs on cars at good rates. 588-4703 after 5.

CLEANING SERVICES - Rug shampooing, waxing, window cleaning, general house cleaning. 924-6118.

### 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).